

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 2001/2002

REPORT #: PAP 01-49

NAME: DAVID BENNETT

D. TECHNICAL REPORT



**BRITISH
COLUMBIA**

Ministry of Energy and Mines
Energy and Minerals Division

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, page 6.**

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

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

Name DAVID BENNETT Reference Number P96

LOCATION/COMMODITIES

Project Area (as listed in Part A) MEADOW CREEK AREA MINFILE No. if applicable

Location of Project Area NTS 082m 06W, 082m 11W Lat 51°30'N Long 119°20'W

Description of Location and Access Located ~~at~~ approx 25 km East of N End of Adams Lake.
Accessed best heading East out of Vavenby along Vavenby Adams Forest Service Road
then East of Adams River along Harbour Lakes Forest road to Meadow creek area.

Prospecting Assistant(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

Main Commodities Searched For Carbonate hosted Zn, Intrusion related Au, Tungsten Skarn.

Known Mineral Occurrences in Project Area None in immediate area

WORK PERFORMED

1. Conventional Prospecting (area) 50 km²
2. Geological Mapping (hectares/scale) 1:30,000 50 km²
3. Geochemical (type and no. of samples) 12 Rocks, 15 TIL, 6 SILTS
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) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program _____

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following **TECHNICAL REPORT** or any report accepted in lieu of.

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Name D. BENNETT Reference Number P 96

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

2. PROGRAM OBJECTIVE [Include original exploration target.]

To follow up on anomalous tills with Cu, Zn, Pb, W associated with marble float and skarn mineralized float in Shuswap metamorphic rock. Re Ran 11 samples for multi-element from 2000 prospecting - Anomalous Cu, Zn, W warranted follow-up program for 2001.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

Identified a marble unit in float and outcrop traceable for approximately 4 km trending NNW-SSE. Marble is mineralized to garnet/pyroxene skarn w. traces of scheelite found with UV light. Tills collected near the marble unit are strongly anomalous for Cu, Pb, Zn, As (One sample P182 also anomalous for Au - 222 ppb). Follow up sampling and geophysics is needed to test for massive sulphide and W skarn mineralization. The sequence of rocks mapped in this area (amphibolite, marble, gtz-musc schist, biotite schist) in close proximity to a leucogranite/pegmatite to the south is similar to other massive sulphides found throughout the area (Ck, Ruddick Ck)

3. PROSPECTING RESULTS (continued)

P-164 - banded garnet/pyroxene skarn with 2-3% diss. ~~pp~~,
1% Chalcopy, traces Molyb.

P-165 - strongly rusted amphibolite 5% diss ~~pp~~, >1% Chalcopy
along small fractures, traces Molyb.

P-166 - sugary textured qtz vein float - biotite/chlorite/sericite alteration
- sooty black sulphide, 3% Py-~~pp~~, traces Chalcopy.

P-167 - strongly rusted amphibolite w. 20% diss ~~pp~~, traces Chalcopy and
Scheelite

P-168 - banded garnet/pyrox skarn with smoky qtz bands (outcrop)
folio 173/45 E

P-169 - outcrop - strongly rusted chloritic amphibolite w. altered
quartzite sections, garnet/pyroxene mineralized zone.

P-170 - pegmatite dyke - 30% musc., 60% plag, 5-10% qtz, minor biot/chl.

P-171 - pegmatite dyke - white feldspar matrix, 20% dk grey quartz,
10-15% muscovite, 3% imm euhedral pink to red garnet.

P-177 - foliated fractured leucogranite.

P-183 - strongly oxidized gossan from sub crop of biotite-chl-schist.

P-190 - strongly rusted, sub-angular float of coarse qtz-plag
with coarse actinolite. 5% Fgr diss + fracture py/~~pp~~
Traces chalcopy.

P-193 - graphitic, strongly rusted amphibolite with 5% Fgr diss Py/~~pp~~.

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT MEADOW-01 File # A104063 (a)
6170 Tisdell St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Te ppm	Ga ppm
G-1	2.51	2.43	40.1	11	.3	.6	.02	.13	1.5	<.02	4.4
P-172	11.10	7.10	53.6	89	1.5	.8	.09	.58	.3	<.02	7.3
P-173	10.77	6.66	36.9	<2	1.4	1.4	.03	.76	.3	<.02	4.7
P-174	7.90	6.28	50.5	32	1.0	.5	.03	.55	<.2	<.02	4.7
P-175	5.57	7.49	45.0	55	1.4	.9	.05	.33	<.2	<.02	6.6
P-176	57.30	14.60	68.3	18	29.8	5.7	.02	.41	1.5	.05	4.8
P-178	65.41	9.16	57.2	158	17.1	1.5	.03	.10	<.2	.02	11.0
P-179	17.41	20.36	91.5	211	44.9	2.3	.09	.34	.6	.03	11.1
P-180	17.80	20.40	401.7	201	13.4	2.8	.07	.45	.8	.02	12.9
P-181	97.92	91.56	237.9	1116	8.3	3.0	.07	1.14	.7	.09	7.0
P-182	66.46	168.58	231.9	127	508.6	222.2	.13	.82	1.9	.12	12.8
RE P-182	63.95	178.40	226.6	130	485.3	20.1	.12	.75	1.6	.10	12.8
P-184	21.38	9.83	43.9	68	3.7	3.1	.03	.48	1.4	.02	5.4
P-186	39.93	15.43	134.3	37	1.7	.3	.02	.48	.3	<.02	10.1
P-187	57.45	11.20	92.3	17	11.7	1.1	<.02	.36	.4	.02	10.2
P-189	28.87	4.78	37.1	19	.1	.6	<.02	.65	3.3	.02	3.0
P-192	33.19	8.34	63.6	57	1.1	1.0	.02	.43	.7	.04	6.7
STANDARD DS3	126.73	37.98	155.2	287	32.8	23.7	5.07	5.74	4.1	1.13	6.1

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: TILL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 27/01 SIGNED BY: C. L. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT MEADOW-01 File # A104063

(b)

6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Nb ppm	Rb ppm	Ta ppm	Y ppm	Be ppm	Sample gm
G-1	.46	35.3	<.05	4.52	.2	30
P-172	2.90	10.9	<.05	6.51	.7	30
P-173	4.61	21.7	<.05	5.85	.7	30
P-174	4.54	21.1	<.05	6.57	.9	30
P-175	2.97	13.4	<.05	4.95	.8	30
P-176	1.15	28.9	<.05	11.82	.9	30
P-178	.51	20.1	<.05	13.69	1.0	30
P-179	1.97	18.4	<.05	6.33	.7	30
P-180	3.44	13.7	<.05	6.53	1.6	30
P-181	.82	20.7	<.05	15.90	1.4	30
P-182	1.53	40.6	<.05	12.98	2.3	30
RE P-182	1.82	42.2	<.05	14.04	2.4	30
P-184	1.97	18.0	<.05	6.13	.9	30
P-186	4.13	117.3	<.05	15.57	.9	30
P-187	1.61	73.7	<.05	12.70	.8	30
P-189	.52	19.1	<.05	6.20	.3	30
P-192	1.71	41.4	<.05	7.76	.6	30
STANDARD DS3	1.49	15.0	<.05	8.59	2.4	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: TILL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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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

Richards, Gordon PROJECT MEADOW-01 File # A104064 (a)
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Te ppm	Ga ppm
G-1	2.92	2.27	38.7	13	.5	<.2	.11	.21	1.5	.04	4.4
P-185	12.55	8.75	65.7	119	.8	6.1	.05	.38	1.1	.02	4.2
P-188	14.83	11.91	71.9	146	10.6	2.8	.03	.27	.9	<.02	5.4
P-191	13.85	5.77	42.7	69	4.3	1.7	.03	.33	1.3	<.02	2.9
P-194	14.68	6.38	52.6	85	.4	1.3	.03	.21	.2	<.02	3.1
P-195	11.76	5.27	63.3	32	1.9	1.9	.02	.24	.4	<.02	4.5
P-196	18.09	8.07	73.1	113	8.3	2.0	.04	.43	3.1	<.02	4.5
RE P-188	13.96	11.86	68.4	142	10.4	2.9	.03	.27	1.0	<.02	5.4
STANDARD DS3	122.07	36.08	154.0	286	30.6	21.4	5.34	5.59	4.3	1.12	6.0

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT MEADOW-01 File # A104064 (b)
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Nb ppm	Rb ppm	Ta ppm	Y ppm	Be ppm	Sample gm
G-1	.45	34.0	<.05	3.93	.2	30
P-185	1.46	14.4	<.05	22.67	1.9	15
P-188	1.95	26.4	<.05	9.97	.6	15
P-191	1.10	11.2	<.05	11.15	.8	30
P-194	1.36	14.9	<.05	7.84	.4	15
P-195	1.24	23.8	<.05	5.85	.5	15
P-196	1.49	15.3	<.05	19.68	1.1	15
RE P-188	1.91	25.9	<.05	10.15	.6	15
STANDARD DS3	1.47	12.5	<.05	7.60	2.0	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT MEADOW-01 File # A104070
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

(a)

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Te ppm	Ga ppm
SI	2.61	.43	.9	4	<.1	1.0	.02	<.02	<.2	<.02	<.1
P-164	6.79	1.73	224.6	9	.8	.4	.17	2.87	2.6	.02	5.1
P-165	144.58	13.21	53.0	51	1.6	.9	.06	.17	4.4	.03	11.9
P-166	23.54	2.63	11.0	73	.3	.8	.03	.30	3.2	.02	2.0
P-167	212.79	5.32	33.8	297	1.1	.7	.04	.79	2.5	.18	12.3
P-168	42.74	4.90	181.3	43	.6	.9	.05	.35	1.1	.02	5.3
P-169	16.68	2.75	42.2	145	.5	5.5	.04	.14	1.2	<.02	6.2
P-170	7.08	4.94	16.7	22	.8	.8	.03	1.89	3.1	<.02	1.5
RE P-170	6.74	4.76	16.6	23	1.0	1.1	.03	1.87	3.2	<.02	1.5
P-171	2.88	1.50	3.2	31	<.1	1.1	.04	7.92	1.1	<.02	.9
P-177	1.51	2.96	35.4	<2	<.1	.6	.02	.39	.4	<.02	3.0
P-183	40.34	6.13	113.9	61	.4	1.0	.04	.43	.7	.05	4.1
P-190	382.19	5.39	74.8	399	.1	2.0	.04	15.11	1.5	.25	2.9
P-193	82.00	7.13	84.5	150	.3	<.2	.03	.79	1.6	.06	4.2
STANDARD DS3	121.53	33.46	148.5	281	28.1	19.4	4.72	5.07	3.8	.97	6.0

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT MEADOW-01 File # A104070
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

(b)

SAMPLE#	Nb ppm	Rb ppm	Ta ppm	Y ppm	Be ppm	Sample gm
SI	.02	.2	<.05	.04	<.1	30
P-164	1.45	1.2	<.05	6.24	7.9	30
P-165	.52	25.1	<.05	6.52	1.0	30
P-166	.12	12.1	<.05	.35	.1	30
P-167	.45	6.6	<.05	4.99	1.2	30
P-168	.77	19.7	<.05	5.79	2.2	30
P-169	3.11	12.9	<.05	14.30	.1	30
P-170	.57	13.0	<.05	5.63	.5	30
RE P-170	.57	13.2	<.05	5.46	.4	30
P-171	.43	8.8	<.05	3.42	.2	30
P-177	1.96	27.8	<.05	6.65	.4	30
P-183	.43	12.8	<.05	6.42	1.0	30
P-190	.59	3.2	<.05	2.48	7.5	30
P-193	.03	12.3	<.05	4.46	.3	30
STANDARD DS3	1.53	13.2	<.05	8.17	2.2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
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D. TECHNICAL REPORT



- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

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Name D. BENNETT Reference Number P96

LOCATION/COMMODITIES

Project Area (as listed in Part A) READYMIX MINFILE No. if applicable _____

Location of Project Area NTS 082M 12E, 082M 13E Lat 51°45'N Long 119°35'W

Description of Location and Access Located immediately between Mad and Raft river in the Varenby/Arola area N. of Clearwater. Take Mad River log road and the He Martin Creek forest service road to the area of READYMIX and BLACKLIGHT claims.

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)
GORDON RICHARDS B.A.Sc. U.B.C. 1968; M.A.Sc. U.B.C. 1974.

Main Commodities Searched For Intrusion related Au, Hydrothermal Au, W-Skarn.

Known Mineral Occurrences in Project Area Tu showing - W-Skarn MINFILE 082M-056; DIMAC Au deposit (past producer); CK, Broken Hill Type Pb/Zn - developed prospect.

WORK PERFORMED

1. Conventional Prospecting (area) 12 sq. km. (READYMIX S.), 20 sq. km. (BLACKLIGHT)
2. Geological Mapping (hectares/scale) 12 sq. km. @ 1:25,000, 4 sq. km. @ 1:10,000
3. Geochemical (type and no. of samples) 57 rocks, 18 till, 8 silts
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) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program _____

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
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Name D. BENNETT Reference Number P96

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

Upper forks of Martin Creek (READYMIX CLAIM BLOCK)

New discovery - W-Skarn 10 km South of READYMIX
staked 43 unit BLACKLIGHT CLAIM BLOCK.

2. PROGRAM OBJECTIVE [Include original exploration target.]

Try to locate more float and possible source for strongly anomalous
Au, Ag, As, Bi, Sb, W, in 1999/2000 till and rock samples (Quartz breccia float).
Also to follow-up on surrounding areas where previous strong rust zones
were noted to locate additional targets of intrusion related Au. or
W-Skarn mineralization.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

A new showing of W-Skarn (Schulze in garnet-pyroxene skarn)
was discovered after locating float boulders of skarn in schistite and
using glacial striations to determine local ice direction. Later follow-up
up ice discovered several small outcrops of garnet-pyroxene skarn in
an area near the contact of granite with shungite complex gneisses
and schists. Sample of the outcrop contained approx. 2% Schulze
(estimated using UV lamp) P-217. Lab results indicated 338.2 ppm W
however true grade would be higher due to incomplete digestion of
W with the aqua regia acid digestion method used. The 43 unit BLACKLIGHT
claim was staked in late October to cover the area with potential W-Skarn
mineralization.

Numerous float of mineralized gtz breccia was found throughout the
area of strongest till anomalies for Au, As on the READYMIX CLAIM.
8 out of 60 rocks were > 100 ppb Au, with the highest being

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)



3. PROSPECTING RESULTS (continued)

P-6 1595 ppb, P-200 @ 1526 ppb, Q-4 @ 1537 ppb, Q-7 496 ppb, and Q-8 @ 988 ppb Au.

ROCK DESCRIPTIONS. —

P-1 angular, rusty, vuggy clay altered quartz breccia.

P-2 vuggy quartz with some rust and clay altⁿ — grayish coating in vugs and fractures.

P-3 vuggy rusty qtz with open quartz lined fractures 2-4 mm wide.

P-4 strongly rusted, weak skarn mineralized floor with 10% f.gr diss sulfides, minor chalcopryite.

P-5 f.gr. gtzite with 5-10% v.f.gr diss. pyrite.

P-6 strongly rusted quartz with 15% sooty grey sulfides (some crs. gr. pyrite) → 1594.7 ppb Au.

P-7 rusty f-med gr. diorite with 5% f.gr. diss pyrite.

P-8 slightly rusty quartzite with 1 mm. open quartz lined veinlet — fracture pyrite.

P-9 rusty felsic Fragmental — moderately clay altered with some silicification — rust along fracture surfaces and weathered surface. 3% f-med gr. diss py.

P-10 Strongly rusted, silicified, biotite altered fragmental w. 10% f-med gr. diss. and fracture sulfides. Mo, Py, Pd traces Chalcopry.

Q-1 Bleached hornfels with 5% py, traces chalcopry.

Q-2 Quartz with 10% f.gr. sulfides

Q-3 Skarn with 5-10% sulfides.

Q-4 Quartz breccia with leached sulfides (1537.3 ppb Au).

Q-5 Strongly foliated garnet/amphibole skarn with 2-5% f.gr. sulfides.

D. TECHNICAL REPORT (continued)



REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (continued)

- Q-6 15% diss py/pp traces chalcopyrite in dark green amphibolite (skarn). Near contact with granite.
- Q-7 Quartz w. 5% crs gr. and fracture pyrite (495.6 ppb Au)
- Q-8 Quartz w. 5% pyrite blobs, crs gr pyrite along fractures. (987.8 ppb Au).
- Q-9 Rusty quartz
- Q-10 silicified mafic gneiss with 4% py/pp, traces Sphalerite.
- P-144 rusty, weak skarn mineralization in quartz schist (Scheelite on fracture)
- P-145 rusty, weak skarn mineralization, fractures with crs py/pp.
- P-146 banded quartz vein - clay altered with 5% med-gr. diss py/pp/ traces Chalcopy.
- P-148 frothy manganese stained quartzite
- P-149 calc-pyroxene skarn - 3-5% diss pp
- P-150 intensely oxidized chlorite schist
- P-151 strongly oxidized, chloritic, clay altered, silicified breccia sections with massive py/pp.
- P-152 heavily fractured and oxidized quartz breccia.
- P-153 strongly oxidized dark grey quartzite w. 5-10% fig. diss sulfides
- P-154 strongly oxidized and clay altered musc-chl-schist with 3-5% fig. diss sulfides.
- P-155 strongly fractured siliceous float w. 5% diss py.
- P-156 oxidized banded skarn/quartzite with >50% sulfides along thin bands - py/pp w. traces of chalcopy.
- P-157 rusty chloritic schist with 5% diss and fracture py/pp - traces Chalcopy

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)



3. PROSPECTING RESULTS (continued)

P-197 quartz veining in angular boulder of biotite schist with 5% diss and fracture pt/py - traces chalcopy.

P-198 strongly leached, vuggy, silicified & clay altered float.

P-199 rusty, vuggy quartz vein with minor clay alt^d and pyrite.

P-200 vuggy quartz vein with blebs of massive py and steel grey arsenopyrite (1525.8 ppb Au).

P-201 rusty, vuggy quartz vein float.

P-202 clay altered quartz-musc-schist w. qtz veinlets 15-20% diss py along foliation layers.

P-203 strongly rusted, chloritic, quartz vein float.

P-204 rusty quartz-sericite breccia w. vuggy sections

P-205 Chalcedonic quartz in quartz, sericite rusty breccia.

P-207 Rusty, vuggy quartz-clay breccia.

Property	Sample	Type	From	To	Int. (m)	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
Readymix	618	rock	chip	at road		60 x 60 x 60 cm boulder quartz rich-tr py, minor sericite alteration, limonite alt t/o.	<5	<0.2	8	5	6
Readymix	619	rock	chip	10 m		quartz vein float-10 x 5 x 5 cm, limonite stained, tr py, wk mn stain-10 m above 618	<5	<0.2	10	9	29
Readymix	620	rock	chip	400 m		quartz vein float-10 x 5 x 5 cm, limonite stained, tr py, wk mn stain-400 m above 618	<5	<0.2	5	4	6
Readymix	624	rock	chip	before A217		20 x 10 x 10 quartz boulder with 20% pyrite.	<5	1	1259	3	16
Readymix	625	rock	chip	800 m		30 x 10 x 10 cm quartz vein boulder with 20-30% pyrite, tr cp.	8	0.6	87	<2	2
Readymix	626	rock	chip	1000 m		quartz rich, 20 x 10 x 10 cm boulder with narrow, <0.2 cm bands of pyrite with trace sphalerite	<5	0.4	1015	6	>10000
Readymix	627	rock	chip	see map		50 x 50 x 50 cm quartz vein boulder, 20% pyrite, trace chalcopyrite, sulphides as coarse disseminations blebs and massive stringers.	24	1	152	4	16
Readymix	628	rock	chip	627 less 50 m		10 x 10 x 10 cm boulder of quartz breccia fault gouge? Trace pyrite.	117	0.9	356	26	48
Readymix	629	rock	chip	627 less 60 m		mafic volcanic with 10% dissem py, po, tr cp	<5	0.5	856	15	446
Readymix	630	rock	chip	627 + 150 m		30 x 30 x 20 cm boulder, dark grey, fg, possible quartzite, tr pyrite, arsenopyrite.	35	0.3	22	35	22
Readymix	631	rock	chip	above creek n side		20 x 10 x 5 cm boulder with 10% pyrite, tr-2% asp as dissem and clots, vuggy	402	5.4	19	351	10
Readymix	632	rock	chip	at site A217 in creek		70 x 70 x 70 cm quartz vein boulder with 20% pyrite as seams and disseminations.	24	3.9	684	6	14
Readymix	633	rock	chip	adjacent to 631		quartzite/quartz vein with tr py asp, minor flame boxwork.	<5	<0.2	7	3	5
Readymix	634	rock	chip	north of A 217		float cg intrusive highly ser alt, wk sil with 2% py replacing biotite	<5	<0.2	27	27	37

D. TECHNICAL REPORT (continued)



REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (continued)

READY MIX (SOUTH) - BLACK LIGHT CLAIM BLOCK.

P-131 rusty, bleached, silicified granite with pegmatite
2-3 mm wide chalcedony veins - rusty fractures

P-140 Sub round boulder of garnet-pyroxene skarn with
10% py/pp w. traces of chalcopryite and
2-3% diss. + fracture schalite (tested with U.V. lamp).
Lab results → 382.9 ppm W, 14.7 Bi,

P-208 rusty amphibolite skarn with 25% pinkish garnet
bands - 20% diss py/pp w. traces chalcopy

P-209 Outcrop
garnet-pyroxene amphibole skarn with strong sulfide
mineralization up to 20% py/pp with traces chalcopy.

P-210 Sulfide mineralized skarn

P-211 Quartz-clay - oxidized breccia.

P-217 Outcrop of rusty garnet-pyroxene skarn w. 10%
diss pp/py (in contact w. pegmatite) - 2-3% diss.
and fracture schalite (tested with U.V. lamp).
Lab result → 338.5 ppm W, 10 ppm Bi

NOTE: Geochemical signature of P-140 and P-217 indicate
that P-217 outcrop is the likely up-ice source of
the W-skarn boulder at P140.

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT READY MIX-01 File # A104071
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

Page 1

SAMPLE#

Au*
ppb

SI	<.2
P-1	3.2
P-2	2.5
P-3	9.2
P-4	<.2
P-5	<.2
P-6	1594.7
P-7	21.0
P-8	12.8
P-9	18.3
P-10	6.7
P-131	4.2
P-144	8.7
P-145	2.1
P-146	<.2
P-148	<.2
P-149	3.4
P-150	2.2
RE P-150	<.2
P-151	.9
P-152	<.2
P-153	<.2
P-154	<.2
P-155	11.8
P-156	.5
P-157	2.9
P-197	.5
P-198	48.0
P-199	.5
P-200	1525.8
P-201	112.8
P-202	3.6
P-203	2.5
P-204	33.0
STANDARD DS3	21.5

AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (30 gm)

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE: ROCK R150 60C

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: NOV 23/01 SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes liabilities for actual cost of the analysis only.

Date: 11/23/01

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Richards, Gordon PROJECT READY MIX-01 FILE # A104071

Page 2



SAMPLE#	Au* ppb
P-204A	5.1
P-204B	.7
P-205	21.5
P-207	8.7
Q-1	.7
Q-2	94.8
Q-3	.9
Q-4	1537.3
Q-5	24.5
RE Q-5	17.9
Q-6	6.8
Q-7	495.6
Q-8	987.8
Q-9	16.9
Q-10	5.2
STANDARD DS3	21.5

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

PROJECT - READY MIX



BONDAR CLEGG



Geochemical Lab Report

CLIENT: NORTHAIR GROUP

REPORT: V01-01348.0 (COMPLETE)

DATE RECEIVED: 21-JUL-01

DATE PRINTED: 26-JUL-01

PROJECT: VARIOUS

PAGE 1 OF 3

SAMPLE NUMBER	ELEMENT	Al ₂ O ₃	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	S		
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PCT		
ROCKS																																							
330618●		<5	<0.2	8	5	6	1	8	3	<0.2	<5	<5	<5	0.68	202	<10	10	200	2	<20	<20	1	0.10	0.07	0.16	0.01	0.03	6	2	<2	<1	<1	<5	<10	<.01	<1	<.01		
330619●		<5	<0.2	10	9	29	1	10	6	<0.2	<5	<5	<5	1.98	778	<10	40	106	9	<20	<20	13	0.37	1.09	2.94	0.05	0.12	133	5	<2	5	<1	<5	<10	<.01	<1	0.19		
330620●		<5	<0.2	5	4	6	2	7	2	<0.2	<5	<5	<5	0.56	109	<10	5	244	2	<20	<20	<1	0.17	0.07	0.32	0.01	0.04	7	6	<2	3	<1	<5	<10	<.01	<1	<.01		
330624●		<5	1.0	1259	3	16	1	135	112	0.5	<5	<5	<5	7.59	50	<10	<1	163	<1	<20	<20	<1	0.04	0.03	0.02	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	6.94		
330625●		8	0.6	87	<2	2	2	70	22	0.5	<5	46	<5	2.54	19	<10	<1	207	<1	<20	<20	<1	0.05	0.02	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	2.11		
330626●		<5	0.4	1015	6	>10000	3	36	36	57.3	<5	<5	<5	>10.00	355	11	6	80	24	<20	<20	7	2.05	0.94	0.13	0.02	0.14	17	3	<2	51	<1	<5	<10	0.05	<1	7.98		
330627●		24	1.0	152	4	16	3	57	34	0.7	<5	32	<5	6.92	16	<10	<1	232	<1	<20	<20	<1	0.04	0.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	6.84		
330628●		117	0.9	356	26	48	1	5	11	0.4	60	<5	<5	>10.00	134	<10	37	69	42	<20	<20	5	1.03	0.54	0.08	0.06	0.07	10	1	11	5	<1	<5	<10	0.10	<1	0.22		
330629●		<5	0.5	856	15	446	3	33	21	2.2	<5	<5	<5	5.51	563	<10	42	74	16	<20	<20	12	1.85	0.85	1.34	0.09	0.29	57	4	<2	19	<1	<5	<10	0.07	<1	3.29		
330630●		35	0.3	22	35	22	2	8	2	0.4	<5	56	<5	0.89	17	<10	11	242	<1	<20	<20	4	0.11	<.01	<.01	<.01	0.09	1	<1	<2	<1	<1	<5	<10	<.01	<1	0.26		
330631●		402	5.4	19	351	10	<1	4	1	0.9	<5	145	22	0.59	10	<10	10	214	<1	<20	<20	<1	0.01	<.01	<.01	<.01	0.05	1	<1	<2	<1	<1	<5	<10	<.01	<1	0.14		
330632●		24	3.9	684	6	14	27	235	135	1.1	<5	166	<5	4.57	40	<10	<1	210	<1	<20	<20	<1	0.03	0.03	0.02	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	3.98		
330633●		<5	<0.2	7	3	5	<1	6	2	<0.2	<5	8	<5	0.80	43	<10	16	197	2	<20	<20	<1	0.22	0.10	0.04	<.01	0.05	1	<1	<2	3	<1	<5	<10	<.01	<1	0.03		
330634●		<5	<0.2	27	9	37	2	24	15	0.4	<5	10	<5	2.91	417	<10	38	201	23	<20	<20	389	0.94	0.47	0.21	0.05	0.43	17	17	5	10	1	6	<10	0.07	<1	1.35		
330635●		5	17	2	1174	5548	7388	2	16	25	15	5	17	5	4.59	2346	410	84	137	14	<20	<20	6	0.93	0.40	1.24	<.01	0.05	60	4	<2	4	<1	<5	<10	0.08	<1	0.51	

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852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT READY MIX-01 File # A104068
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
G-1	10	.3	<.2	.02	.13	1.4	30
P-147	168	84.0	10.9	1.60	.53	.8	30
P-158	150	177.6	5.1	.23	.52	<.2	30
P-159	124	7.3	4.4	.17	.49	<.2	30
P-160	54	6.5	1.6	.10	.52	.3	30
RE P-160	50	6.5	1.1	.10	.52	<.2	30
STANDARD DS3	267	28.1	20.0	4.76	5.07	3.5	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: TILL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 27/01 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT READY MIX-01 File # A104069
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
G-1	12	.3	1.0	.03	.16	1.5	30
P-161	147	2.1	3.6	.05	.15	.2	15
P-162	35	3.9	1.3	.13	.32	<.2	15
P-163	32	4.8	1.8	.08	.34	1.9	30
P-206	299	12.4	.6	.17	.13	1.7	15
RE P-163	32	4.6	2.6	.07	.32	1.8	15
STANDARD DS3	302	28.9	21.7	5.38	5.76	4.1	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT READY MIX-SW File # A104065
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
SI	4	.1	<.2	.02	<.02	<.2	30
P-128	59	.7	.5	.05	.22	.4	30
P-140	200	.6	3.7	.03	14.71	382.9	30
P-208	746	.5	7.6	.02	3.26	18.7	30
P-209	173	.6	1.4	.04	1.73	12.1	30
P-210	710	.6	4.5	.03	39.17	5.2	30
P-211	27	.5	<.2	.06	.81	2.4	30
P-217	172	.7	2.4	.03	9.94	338.5	30
RE P-217	173	.6	2.6	.03	10.09	338.2	30
STANDARD DS3	285	31.2	21.2	5.06	5.52	4.1	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001

DATE REPORT MAILED:

Nov 27/01

SIGNED BY:

C. Leong

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT READY MIX-SW File # A104066
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
G-1	11	.2	.9	.03	.14	1.5	30
P-133	16	2.2	1.2	.08	.68	.4	30
P-134	4	1.5	1.8	.07	.58	.5	30
P-135	6	.2	.8	.04	.66	.6	30
P-136	49	.2	1.4	.04	.61	.4	30
P-137	10	.9	.9	.06	.70	.3	30
P-138	69	1.3	.9	.12	.70	.5	30
P-141	50	1.0	1.7	.06	1.06	.5	30
P-142	54	1.6	.9	.09	.60	.4	30
P-143	<2	.3	.7	.03	.71	.4	30
RE P-143	<2	.5	1.2	.04	.74	.4	30
P-212	49	3.4	1.4	.11	.58	.5	30
P-213	55	.9	.7	.07	16.60	1.1	30
P-214	26	4.0	.6	.09	1.02	.4	30
P-215	<2	1.2	.5	.08	1.18	.8	30
P-216	20	.5	.4	.03	.70	.5	30
STANDARD DS3	302	28.9	21.7	5.38	5.76	4.1	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: TILL S580 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 26/01 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT READY MIX-SW File # A104067
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
G-1	11	.4	<.2	.02	.13	1.4	30
P-127	19	.7	.6	.05	.10	<.2	15
P-129	49	1.2	.8	.06	.14	.3	30
P-132	29	.7	1.1	.04	.25	.2	30
P-139	41	.7	.8	.06	.40	.8	15
RE P-139	44	.9	1.0	.06	.42	.6	15
STANDARD DS3	287	32.8	23.7	5.07	5.74	4.1	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 27/01 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

D. TECHNICAL REPORT



- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the Freedom of Information Act.

Name DAVID BENNETT Reference Number P 96

LOCATION/COMMODITIES

Project Area (as listed in Part A) FORT ST. JOHN MINFILE No. if applicable _____

Location of Project Area NTS 94A, 94H Lat 57° 30' N Long 120° 00' W
56° 30' N 122° 00' W

Description of Location and Access _____

From Ft. St. John, using mainly oil and gas exploration access roads to main creeks and rivers.

Prospecting Assistant(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

GORDON RICHARDS B.A.Sc., UBC 1968; M.A.Sc., UBC 1974

Main Commodities Searched For Diamonds

Known Mineral Occurrences in Project Area Mainly petroleum related → oil, gas, coal, sulfur

WORK PERFORMED

1. Conventional Prospecting (area) 8,000 sq. km.
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) _____
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) 16 bulk heavy mineral samples

FEEDBACK: comments and suggestions for Prospector Assistance Program _____

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.

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

Name DAVID BENNETT Reference Number P 96

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

Area of NE B.C. - NE of the Rocky Mtn belt where paleozoic bedded rocks overlie the continental Cretaceous. Sampled area was mainly north of Ft. St. John centred on the boundary between NTS 94A and 94H (See accompanying map).

2. PROGRAM OBJECTIVE [Include original exploration target.]

Complete a first pass, coarse bulk sampling grid over the area of potential diamond host rocks and have them analysed for heavy mineral indicator minerals for potential diamondiferous kimberlite/lamproite. Results giving the number and type of ~~mineral~~ indicator minerals provides the basis for further follow-up sampling at a tighter sampling interval.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

Samples were collected using an 8 mesh screen to obtain a 20 kg sample from creek gravels in the project area. A sample density of 20 to 30 samples per 1:250,000 map sheet was chosen based on the typical size of kimberlite swarms. The samples were analysed by Saskatchewan Research Council Geoanalytical Laboratories with results provided in accompanying data sheets. Seven samples contained 1 or 2 grains of potential indicator minerals however an electron microprobe analysis is needed to determine whether the indicator mineral compositions fall in the necessary T-P field for diamond formation.

D. TECHNICAL REPORT (continued)



REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (continued)

DESCRIPTIONS OF SAMPLES AND LOCATIONS

C-23 ALEXANDER CREEK :- 380m below bridge.

Pea size gravel bar 1.5m high on inside bend of creek at edge of creek. Mostly sedimentary flint - fluggy sst., qtz. pebbles, no granites.

8m wide creek → 10cm to 1m water depth.

C-25 Blueberry River :- Under bridge on big gravel bar - W. bank of river is good basal till underlain by 1m. layer of gravel with bedded silt. Gravel contains mud, fluggy sst., and persistent pink granite cobbles.

6-10m wide creek → 10 to 50cm depth.

C-26 Aitken Creek :- Bedded silt over good basal till. Sample taken on W. side of creek and consists of pebbles and cobbles → pink granite, pale granite, metamorphic pebbles present in small amounts. Mostly sandstone.

8m wide x 10-50cm depth.

C-27 Umbach Creek :- Approx. 400 m below rd. - pebble gravel in beaver dam area. Small creek but good silt-gravel in banks cut by side streams.

C-29 Beaton River :- 50m wide slow moving water - 100 to 150m wide river cut. Gray till banks 5m thick overlain by gravel. Shield boulders, cobbles, and sst. - Good basal till content in banks.

C-28 Prespatou Creek :- Clay rich gravel bar 50m downstream from Beaver Dam. Sst. blocks, cobbles, pebbles and 1-5% round "shield" rocks.

3m wide x 4cm depth.

C-30 Milligan Creek :- 300m above bridge on gravel bar along side of creek - Sand and yellow clay in gravel 15cm water depth.

C-31 West Milligan Creek :- Creek cut 30 to 40m. wide. Creek 5-10m wide x 1m deep.

Good flow over boulders - Outcrop to within 5-10m of top of bank. Till on top has <5% pebbles mostly hard shield metamorphics and granite.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (CONTINUED)

~~4. GEOCHEMICAL RESULTS~~ [Describe all survey types done (rock, soil, silt) and their objective. Show clearly on accompanying map(s) of appropriate scale all sample sites along with all significant values. Any anomalous areas should be indicated on maps by the use of contouring, variable symbol sizes, or some other suitable technique. Include a discussion/interpretation of results. A copy of analysis/assay certificates must be included with sample numbers from map. Details of individual rock samples taken are encouraged. Significant geochemical values obtained must be stated.]

C-32 Zaremba Creek :- throw up sand bar - pebbles and cobbles of sst \rightarrow 5% "shield" rocks.
Slow flowing 3m x 1m creek

C-33 Noname Creek :- tributary from NW into Milligan Creek.
Good gravel bar \rightarrow mainly sst boulders and cobbles
1-5% shield rocks
4m x 6cm creek flow.

C-34 Nig Creek :- Small gravel bar with cobbles along side of creek, mainly sst w. 5% "shield" rocks
3-4m x 25cm depth

C-35 Black Creek :- Sandy sample \rightarrow boulders of sst (98%) granite and metamorphics 1-2%.
10m x 20cm depth

C-36 Upper Umbach Creek :- gravel bar on inside edge of creek bend. 70% 80% granite pebbles, 20% sst + siltst.
Lots of Beaver dams. \rightarrow Sandy sample.
Lots of silt in flood plain.
3m x 1-2m depth.

C-37 North Aitken Creek :- Gravel bar that straddles creek.
70% "shield" rocks, 30% sediments
Sandy sample
8m x 2m depth

C-38 Aitken Creek :- 50% shield 50% sediments.
Till banks are clay rich + silty
15m x 50cm depth.

C-39 Blueberry River :- Gravel bars - few boulders
20% "shield" rocks, 80% sst.
Sandy sample from centre of stream
5m x 50cm depth.

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Saskatoon, Sask.

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Geoanalytical Laboratories was established in 1972 and provides a wide spectrum of services to the mining industry. We offer standard analytical and mineral processing packages as outlined in our fee schedule. In addition, we also provide cost estimates for customized packages. This customization gives clients flexibility in their exploration programs without any additional costs. We operate 24 hours a day, 7 days a week for your convenience.

All reports are the confidential property of the clients. Publications of statements, conclusions or extracts from these reports are not permitted without the client's written permission.

This copy of results, constitutes the final official report. SRC's Geoanalytical Laboratories liability will be limited only to the final official report. It is the client's responsibility to ensure that all interpretation of analysis is done, using data from this report.

The client will not use the name Saskatchewan Research Council in connection with the sale, offer, advertisement or the promotion of any article, product, or company without the prior written consent of SRC.

SRC's Geoanalytical Laboratories liability, if any, will be limited to the cost of performing the analysis.

Reviewed by:

Philip Malci - SRC



technology is our business

Saskatchewan Research Council Geoanalytical Services
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M1049 GORDON RICHARDS NOVEMBER 2 2001 (25) [HM INDICATORS]

1 SAMPLE WEIGHT IN KG OT01.217

2 MID FRACTION -1.00+0.25MM DRY WEIGHT IN GRAMS

3 FRANTZ LOWERS @ 0.34 AMPS IN GRAMS

4 FRANTZ LOWERS @ 0.19 AMPS IN GRAMS

5 VISIBLE PYROPIC GARNET GRAIN COUNT

6 Cr-DIOPSIDE GRAIN COUNT

7 PICROILMENITE GRAIN COUNT

8 CHROMITE GRAIN COUNT

9 % PERMROLL MAG PROCESSED

	SWT	MWT	LW1	LW2	PG	CD	PICRO	CHROM	%
C 1	18.65	5247	17.76	51.95	0	0	0	0	100
C 2	18.20	7230	41.72	73.95	1	0	0	0	100
C 3	19.50	10093	19.32	54.05	1	0	0	0	100
C 4	18.15	6900	19.94	47.80	2	0	0	0	100
C 5	18.40	10094	11.34	21.87	1	0	0	0	100
C 6	17.00	9062	31.48	72.25	0	0	0	0	100
C 7	20.55	8984	33.64	61.75	0	0	0	0	100
C 8	18.65	12298	25.71	71.05	0	0	0	0	100
C 9	19.85	12326	68.57	178.43	0	0	0	0	100
C 10	20.80	7531	37.43	58.06	0	0	0	0	100
C 11	20.35	9152	18.40	58.73	0	1	0	0	100
C 12	20.35	11542	31.93	91.32	0	0	0	0	100
C 13	18.50	11925	25.06	83.37	2	1	0	0	100
C 14	18.00	8962	13.83	111.12	4	0	0	0	100
C 15	20.80	6126	17.27	18.69	1	0	0	0	100
C 16	19.40	11462	92.17	123.42	1	0	0	0	100
C 17	20.80	8826	60.05	101.37	0	0	0	0	100
C 18	21.45	10814	82.19	167.22	0	0	0	0	100
C 19	20.70	6770	96.14	82.77	0	0	0	0	100
C 20	19.80	8589	71.43	122.78	0	0	0	0	100
C 21	20.60	5985	168.16	16.82	0	0	0	0	100
C 22	19.35	4638	71.67	7.82	0	0	0	0	100
C 23	19.20	7440	50.36	26.25	0	0	0	0	100
C 24	19.15	6927	165.81	14.90	0	0	0	0	100
C 1 REPEAT					0	0	0	0	

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M1050 GORDON RICHARDS NOVEMBER 2 2001 (25) [HM INDICATORS]

1	SAMPLE WEIGHT IN KG	OT01.217							
2	MID FRACTION -1.00+0.25MM DRY WEIGHT IN GRAMS								
3	FRANTZ LOWERS @ 0.34 AMPS IN GRAMS								
4	FRANTZ LOWERS @ 0.19 AMPS IN GRAMS								
5	VISIBLE PYROPIC GARNET GRAIN COUNT								
6	Cr-DIOPSIDE GRAIN COUNT								
7	PICROILMENITE GRAIN COUNT								
8	CHROMITE GRAIN COUNT								
9	% PERMROLL MAG PROCESSED								
	SWT	MWT	LW1	LW2	PG	PG	PICRO	CHROM	%
C 25	21.80	10941	40.92	83.11	0	0	0	0	100
C 26	20.85	9800	68.20	83.62	1	0	0	0	100
C 27	19.25	11270	22.43	122.61	0	0	0	0	100
C 28	17.20	6399	51.77	42.59	0	0	0	0	100
C 29	22.60	11006	47.78	135.84	0	0	0	0	100
C 30	20.50	11865	80.74	91.62	0	0	0	0	100
C 31	18.15	5952	36.78	29.74	0	0	0	0	100
C 32	19.95	7600	83.18	54.36	0	0	0	0	100
C 33	21.00	7506	83.66	59.69	0	0	0	0	100
C 34	20.25	9721	18.25	74.26	0	0	0	0	100
C 35	20.00	9978	43.57	79.16	1	0	0	0	100
C 36	22.65	11585	21.17	42.04	0	0	0	0	100
C 37	20.85	12580	43.75	169.75	0	0	0	0	100
C 38	20.35	13435	47.24	92.64	1	0	0	0	100
C 39	20.95	9414	71.31	33.16	0	0	0	0	100
C 40	21.50	10479	100.36	46.08	0	0	0	0	100
C 41	20.15	11957	86.95	120.75	0	0	0	0	100
C 42	21.40	10397	73.12	106.21	0	0	0	0	100
C 43	20.70	10191	158.86	63.10	0	0	0	0	100
C 44	21.90	12584	92.67	48.27	0	0	0	0	100
C 45	21.20	7299	16.37	10.98	0	0	0	0	100
C 46	21.05	11569	31.55	9.18	0	0	0	0	100
C 47	22.25	11572	44.61	27.79	0	0	0	0	100
C 48	22.80	8843	24.06	48.36	0	0	0	0	100
C 29	REPEAT				0	0	0	0	

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M1051 GORDON RICHARDS NOVEMBER 2 2001 (4) [HM INDICATORS]

1	SAMPLE WEIGHT IN KG									OT01.217
2	MID FRACTION -1.00+0.25MM DRY WEIGHT IN GRAMS									
3	FRANTZ LOWERS @ 0.34 AMPS IN GRAMS									
4	FRANTZ LOWERS @ 0.19 AMPS IN GRAMS									
5	VISIBLE PYROPIC GARNET GRAIN COUNT									
6	Cr-DIOPSIDE GRAIN COUNT									
7	PICROILMENITE GRAIN COUNT									
8	CHROMITE GRAIN COUNT									
9	% PERMROLL MAG PROCESSED									
	SWT	MWT	LW1	LW2	PG	CD	PICRO	CHROM		%
C 49	22.25	10342	100.35	94.23	0	0	0	0		100
C 50	22.80	5602	78.91	76.43	0	0	0	0		100
C 51	22.50	9460	59.11	78.48	0	0	0	0		100
C 51 REPEAT					0	0	0	0		

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results☒ Finalized Data *P. Nishi - Scott*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C1	0	0	0	0	0	0	100	0
	Comments: BR								
2	C2	1	0	0	0	0	0	100	0
	Comments: MMG								
3	C3	1	0	0	0	0	0	100	0
	Comments: BFM								
4	C4	2	0	0	0	0	0	100	0
	Comments: BR								
5	C5	1	0	0	0	0	0	100	0
	Comments: MMG								
6	C6	0	0	0	0	0	0	100	0
	Comments: BFM								
7	C7	0	0	0	0	0	0	100	0
	Comments: BR								
8	C8	0	1	0	0	0	0	100	0
	Comments: MMG								
9	C9	0	0	0	0	0	0	100	0
	Comments: BFM								
10	C10	0	1	0	0	0	0	100	0
	Comments: BR								
11	C11	0	0	1	0	0	0	100	0
	Comments: PMS								
12	C12	0	0	0	0	0	0	100	0
	Comments: BR								
	Comments:								

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results

☒ Finalized Data *P. N. J. J. J.*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C13	2	0	1	1	0	0	100	0
	Comments: BFM								
2	C14	4	2	0	2	1	1	100	0
	Comments: MMG								
3	C15	1	0	0	0	0	1	100	0
	Comments: PMS								
4	C16	1	0	0	0	1	0	100	0
	Comments: PMS								
5	C17	0	0	0	0	0	0	100	0
	Comments: BR								
6	C18	0	0	0	0	0	0	100	0
	Comments: BFM								
7	C19	0	0	0	0	0	0	100	0
	Comments: BR								
8	C20	0	0	0	0	0	0	100	0
	Comments: BFM								
9	C21	0	0	0	0	0	0	100	0
	Comments: MMG								
10	C22	0	0	0	0	0	0	100	0
	Comments: BR								
11	C23	0	0	0	0	0	0	100	0
	Comments: BFM								
12	C24	0	0	0	0	0	0	100	0
	Comments: BR								
	Repick: C1	0	0	0	0	0	0	100	0
	Comments: MMG								

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results

☒ Finalized Data *Phaw-Joe*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C25	0	0	0	0	0	0	100	0
	Comments:								MMG
2	C26	1	0	0	0	0	0	100	0
	Comments:								BFM
3	C27	0	0	0	0	0	0	100	0
	Comments:								PMS
4	C28	0	0	0	0	0	0	100	0
	Comments:								MMG
5	C29	0	0	0	1	0	0	100	0
	Comments:								MMG
6	C30	0	1	0	1	0	0	100	0
	Comments:								BR
7	C31	0	0	0	0	0	0	100	0
	Comments:								BFM
8	C32	0	0	0	0	0	0	100	0
	Comments:								PMS
9	C33	0	0	0	0	0	0	100	0
	Comments:								BFM
10	C34	0	0	0	0	0	0	100	0
	Comments:								MMG
11	C35	1	0	0	0	0	0	100	0
	Comments:								BR
12	C36	0	0	0	1	0	0	100	0
	Comments:								BFM
	Comments:								

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results

☒ Finalized Date 0. Maki - J. K.

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C37	0	1	0	0	0	0	100	0
	Comments: MMG								
2	C38	1	0	0	0	0	0	100	0
	Comments: BR								
3	C39	0	0	0	0	0	0	100	0
	Comments: BR								
4	C40	0	0	0	0	0	0	100	0
	Comments: PMS								
5	C41	0	0	0	0	0	0	100	0
	Comments: MMG								
6	C42	0	0	0	0	0	0	100	0
	Comments: MMG								
7	C43	0	0	0	0	0	0	100	0
	Comments: BR								
8	C44	0	0	0	0	0	0	100	0
	Comments: BFM								
9	C45	0	0	0	0	0	0	100	0
	Comments: BR								
10	C46	0	0	0	0	0	0	100	0
	Comments: BFM								
11	C47	0	0	0	0	0	0	100	0
	Comments: BR								
12	C48	0	0	0	0	0	0	100	0
	Comments: BFM								
	Repick: C29	0	0	0	0	0	0	100	0
	Comments: MMG								

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results☒ Finalized Data *Amphibolite - J. Carr*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C49	0	0	0	0	0	0	100	0
	Comments: BR								
2	C50	0	0	0	0	0	0	100	0
	Comments: MMG								
3	C51	0	0	0	1	0	0	100	0
	Comments: BFM								
4									
	Comments:								
5									
	Comments:								
6									
	Comments:								
7									
	Comments:								
8									
	Comments:								
9									
	Comments:								
10									
	Comments:								
11									
	Comments:								
12									
	Comments:								
	Repick: C51	0	0	0	0	0	0	100	0
	Comments: BR								

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

P. M. J. Scott

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picroilmenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C1	0	0	0	7	20	0
	Comments:						BR
2	C2	0	0	0	2	20	0
	Comments:						MMG
3	C3	0	0	0	4	20	0
	Comments:						BFM
4	C4	0	0	0	1	20	0
	Comments:						BR
5	C5	0	0	0	0	20	0
	Comments:						MMG
6	C6	0	0	0	0	20	0
	Comments:						BFM
7	C7	0	0	0	0	20	0
	Comments:						BR
8	C8	0	0	0	0	20	0
	Comments:						MMG
9	C9	0	0	0	0	20	0
	Comments:						BFM
10	C10	0	0	0	1	20	0
	Comments:						BR
11	C11	0	0	0	0	25	0
	Comments:						PMS
12	C12	0	0	0	0	20	0
	Comments:						BR
	Comments:						

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

P. Miller - J. Kell

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picrolimenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C13	0	0	0	0	20	0
	Comments:						BFM
2	C14	0	0	0	0	20	0
	Comments:						MMG
3	C15	0	0	0	0	50	0
	Comments:						PMS
4	C16	0	0	0	9	20	0
	Comments:						PMS
5	C17	0	0	0	1	20	0
	Comments:						BR
6	C18	0	0	0	0	20	0
	Comments:						BFM
7	C19	0	0	0	0	20	0
	Comments:						BR
8	C20	0	0	0	0	20	0
	Comments:						BFM
9	C21	0	0	0	0	100	0
	Comments:						MMG
10	C22	0	0	0	0	20	0
	Comments:						BR
11	C23	0	0	0	0	40	0
	Comments:						BFM
12	C24	0	0	0	0	20	0
	Comments:						BR
	Repick: C1	0	0	0	1	20	0
	Comments:						MMG

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

P. Miller-Scott

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picroilmenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C25	0	0	0	0	20	0
	Comments:						MMG
2	C26	0	0	0	0	20	0
	Comments:						BFM
3	C27	0	0	0	0	20	0
	Comments:						PMS
4	C28	0	0	0	0	20	0
	Comments:						MMG
5	C29	0	0	0	0	20	0
	Comments:						MMG
6	C30	0	0	0	0	20	0
	Comments:						br
7	C31	0	0	0	0	20	0
	Comments:						BFM
8	C32	0	0	0	0	20	0
	Comments:						PMS
9	C33	0	0	0	0	20	0
	Comments:						BFM
10	C34	0	0	0	0	20	0
	Comments:						MMG
11	C35	0	0	0	0	20	0
	Comments:						BR
12	C36	0	0	0	0	100	0
	Comments:						BFM
	Comments:						

(49)

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

P. H. W. - S. H. C.

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picroilmenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C37	0	0	0	0	20	0
	Comments:						MMG
2	C38	0	0	0	0	20	0
	Comments:						BR
3	C39	0	0	0	0	20	0
	Comments:						BR
4	C40	0	0	0	0	20	0
	Comments:						PMS
5	C41	0	0	0	0	20	0
	Comments:						MMG
6	C42	0	0	0	0	20	0
	Comments:						MMG
7	C43	0	0	0	0	20	0
	Comments:						BR
8	C44	0	0	0	0	20	0
	Comments:						BFM
9	C45	0	0	0	0	20	0
	Comments:						BR
10	C46	0	0	0	0	50	0
	Comments:						BFM
11	C47	0	0	0	0	20	0
	Comments:						BR
12	C48	0	0	0	0	20	0
	Comments:						BFM
	Repick: C29	0	1	0	0	20	0
	Comments:						BR

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

P. Miller - Scott

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picroilmenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C49	0	0	0	0	20	0
	Comments: BR						
2	C50	0	0	0	0	20	0
	Comments: MMG						
3	C51	0	0	0	1	20	0
	Comments: BFM						
4							
	Comments:						
5							
	Comments:						
6							
	Comments:						
7							
	Comments:						
8							
	Comments:						
9							
	Comments:						
10							
	Comments:						
11							
	Comments:						
12							
	Comments:						
	repick C51	0	0	0	0	20	0
	Comments: BR						



Saskatchewan Research Council
125 - 15 Innovation Blvd.
Saskatoon, SK Canada S7N 2X8
Ph: 306-933-5400 Fax: 306-933-7446
Internet: <http://www.src.sk.ca>

GROUP NUMBER	Given by lab.
SAMPLE	Sample number.
FRACTION	size of sample picked (ie. +180 -250mic, +250 -.5mm).
GRAIN TYPE	PYR (pyrope), CPX (chrome diopsides), ECL (eclogitic garnets), OLV (olivines), ILM (picro-ilmenites), CHR (chromites).
COLOR	For definite PYR: Burgundy or red; for possible PYR: Purple; for definite CPX: Apple Green; for possible CPX: Green; for ECL: Orange; for OLV: Beige; for ILM: Black; for CHR: Black.
FORM	EUH (good crystal shape), SBHED (some crystal shape), ANH (no crystal shape).
SHAPE	RND, SBRND, SBANG, ANG.
CLARITY	Transparent, Translucent, Included, Opaque.
LUSTRE	Glassy (shiny), Vitreous (semi-glass like), Metal (for oxides).
SURFACE FEATURE	None, ORPEEL, FROST, ROUGH, SMOOTH, KELYPHITE.
COMMENT	If grain is lost at any point of process or other comment.
OBSDATE	Day-month-year.
OBSERVER	Initial.







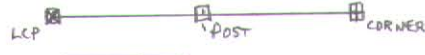
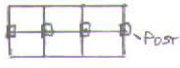
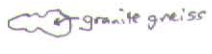




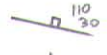







GRU OT01:217									SURFACE		
SAMPLE	FRACTION	GRAIN TYPE *	COLOR	FORM	SHAPE	CLARITY	LUSTRE	FEATURE	COMMENT	OBSDATE	OBSERVER
C 1	+0.25mm/-1.0mm	chr	blk	euh	ang	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	euh	sbang	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	euh	sbang	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	black	sbhed	sbmd	opaque	metal	smooth	found in repick	5/11/01	MMG
C 2	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		30/10/01	MMG
C 2	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	MMG
C 2	+0.25mm/-1.0mm	chr	blk	sbhed	sbang	opaque	metal	rough		31/10/01	MMG
C 3	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	euh	sbang	opaque	metal	smooth		31/10/01	BFM
C 4	+0.25mm/-1.0mm	chr	blk	euh	sbmd	opaque	metal	pitted		31/10/01	BR
C 4	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbmd	translucent	vitreous	orpeel		31/10/01	BR
C 4	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbmd	translucent	vitreous	rough		31/10/01	BR
C 5	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 8	+0.25mm/-1.0mm	pyr	purple	anh	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 8	+0.25mm/-1.0mm	chr	blk	anh	ang	opaque	metal	smooth		31/10/01	MMG
C 8	+0.25mm/-1.0mm	chr	blk	anh	sbang	opaque	metal	smooth		31/10/01	MMG
C 10	+0.25mm/-1.0mm	pyr	purple	anh	sbang	translucent	vitreous	rough		31/10/01	BR
C 10	+0.25mm/-1.0mm	chr	blk	euh	sbang	opaque	metal	pitted		31/10/01	BR
C 13	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		1/11/01	BFM
C 13	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		1/11/01	BFM
C 13	+0.25mm/-1.0mm	def cpx	apple green	anh	sbmd	opaque	vitreous	smooth		1/11/01	BFM
C 13	+0.25mm/-1.0mm	cpx	green	anh	sbmd	opaque	vitreous	smooth		1/11/01	BFM
C 14	+0.25mm/-1.0mm	cpx	apple green	anh	sbang	translucent	vitreous	rough		31/10/01	PMS
C 14	+0.25mm/-1.0mm	ecl	orange	anh	sbang	transparent	glassy	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	olv	beige	anh	sbmd	transparent	vitreous	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	cpx	green	anh	sbmd	translucent	vitreous	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	cpx	green	sbhed	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 14	+0.25mm/-1.0mm	pyr	purple	anh	sbang	translucent	vitreous	rough		31/10/01	MMG
C 14	+0.25mm/-1.0mm	pyr	violet	anh	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbang	translucent	glassy	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbang	translucent	vitreous	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	red	anh	sbang	included	vitreous	frosted		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	red	anh	sbang	translucent	glassy	smooth		31/10/01	MMG
C 15	+0.25mm/-1.0mm	pyr	violet	anh	md	translucent	vitreous	smooth		31/10/01	PMS
C 15	+0.25mm/-1.0mm	olv	beige	anh	sbmd	translucent	vitreous	frosted		31/10/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS

* unless otherwise stated, all grains are considered possible

GRU 0101:217									SURFACE		
SAMPLE	FRACTION	GRAIN TYPE *	COLOR	FORM	SHAPE	CLARITY	LUSTRE	FEATURE	COMMENT	OBSDATE	OBSERVER
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	def pyr	violet	anh	sbmd	translucent	vitreous	smooth		1/11/01	PMS
C16	+0.25mm/-1.0mm	ecd	orange	anh	sbang	translucent	glassy	frosted		1/11/01	PMS
C26	+0.25mm/-1.0mm	def pyr	violet	sbhed	sbmd	transparent	vitreous	orange peel		2/11/01	BFM
C29	+0.25mm/-1.0mm	cpx	green	anh	sbang	transparent	glassy	smooth		2/11/01	MMG
C29	+0.25mm/-1.0mm	ilm	black	anh	sbang	opaque	metal	rough	found in repick	2/11/01	BR
C30	+0.25mm/-1.0mm	pyr	purple	anh	sbmd	transparent	vitreous	rough		2/11/01	BR
C30	+0.25mm/-1.0mm	cpx	green	anh	md	transparent	vitreous	orange peel		2/11/01	BR
C35	+0.25mm/-1.0mm	def pyr	violet	anh	md	transparent	vitreous	smooth		2/11/01	BR
C36	+0.25mm/-1.0mm	cpx	green	anh	sbmd	opaque	vitreous	rough		2/11/01	BFM
C37	+0.25mm/-1.0mm	pyr	purple	anh	sbmd	translucent	glassy	smooth		2/11/01	MMG
C38	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	glassy	smooth		2/11/01	BR
C51	+0.25mm/-1.0mm	cpx	green	anh	sbmd	opaque	vitreous	rough		5/11/01	BFM
C51	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		5/11/01	BFM

* unless otherwise stated all grains are considered possible







MAP LEGEND FOR ALL BASE MAPS *

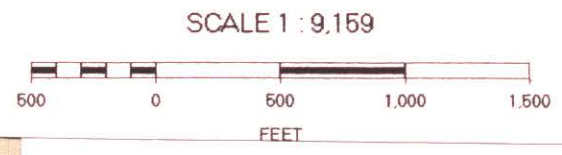
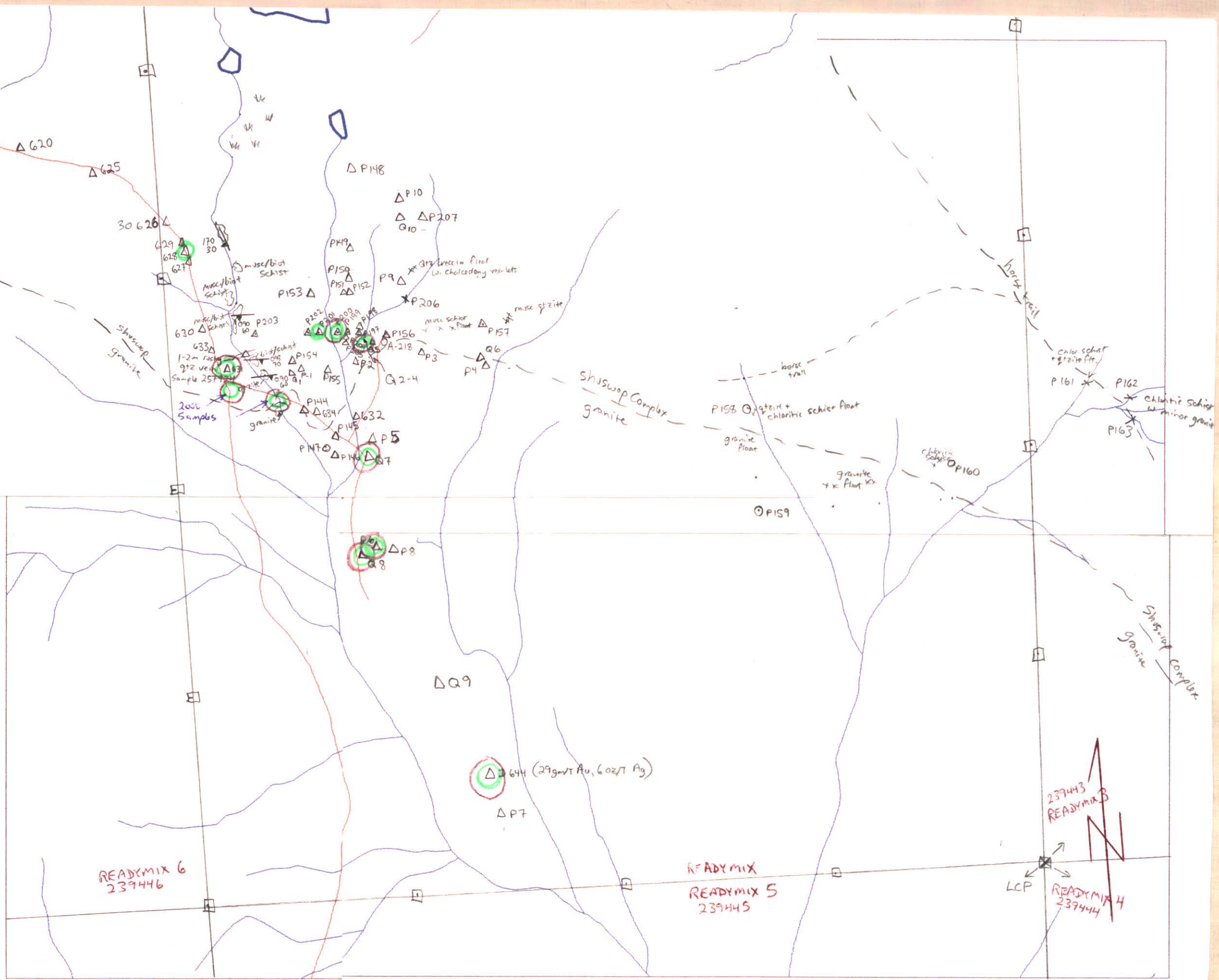
TRAIL	
ROADS	
STREAMS	
LAKES	
CLAIM LINE (4 POST)	
CLAIM LINE (2 POST)	
GEOLOGICAL OUTCROP	
GEOLOGICAL CONTACT	
RUST ALTERATION (STRONG)	
BEDDING ATTITUDE	
FOLIATION ATTITUDE	
DYKE ATTITUDE	
FAULT	
FRACTURE	
ROCK SAMPLE	
SOIL/TILL SAMPLE	
SILT SAMPLE	
UNATTACHED SURFACE ROCK	
GLACIAL STRIATION (indicating ice direction)	

*NOTE: BASE MAPS PRINTED FROM "MAP PLACE" WEBSITE
B.C. MINISTRY OF ENERGY + MINES.

Roads (20)
Rivers (20)
Lakes (20)

Roads (20)
Rivers (20)
Lakes (20)

Geochem
Au > 100 ppb



 > 400 ppb






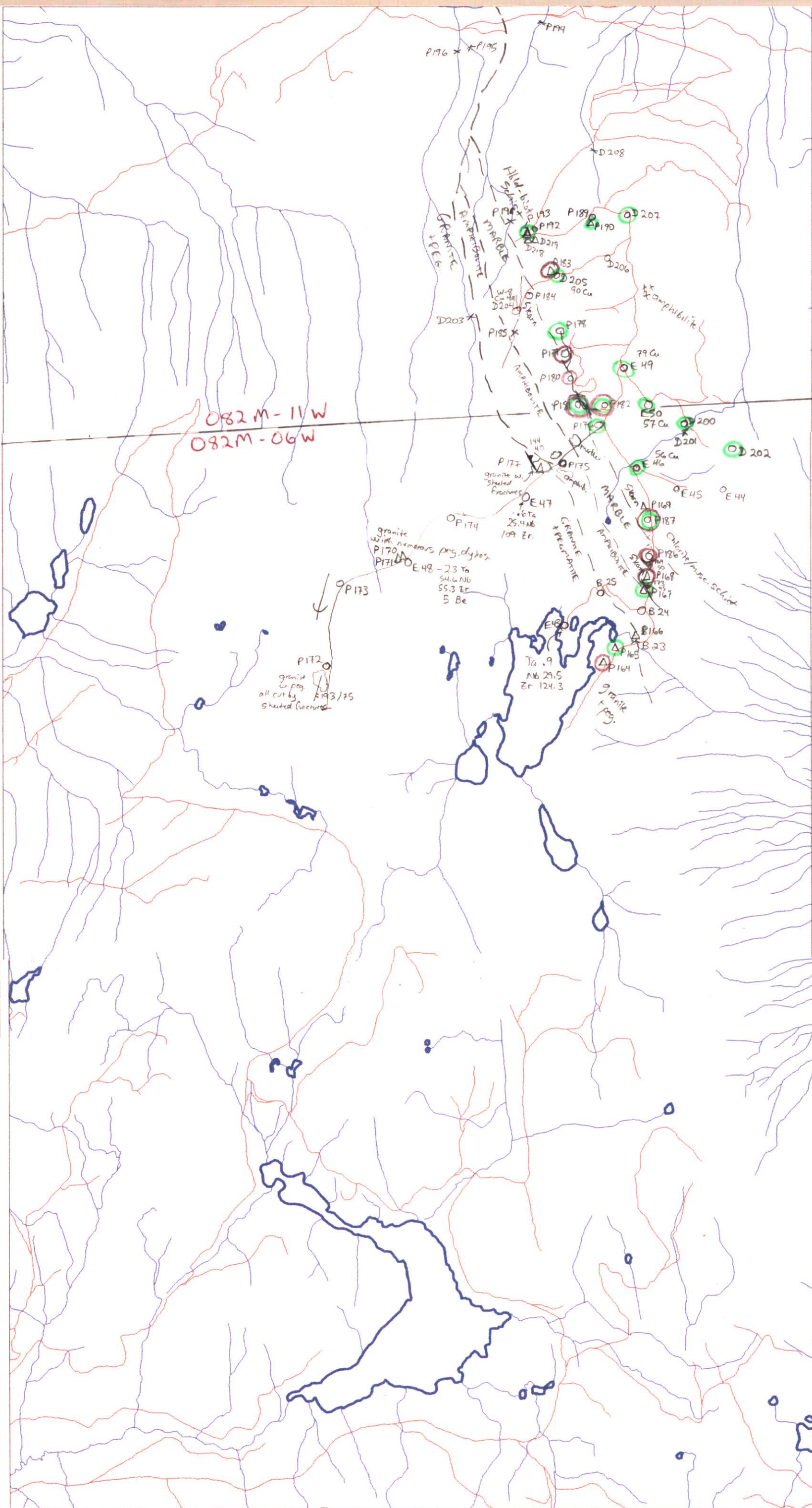
READYMIX CLAIM BLOCK
NTS - 082M - 13E
01-49 ①

Roads (20)

Rivers (20)

Lakes (20)

- Roads (20)
- Rivers (20)
- Lakes (20)



01-49 (2)

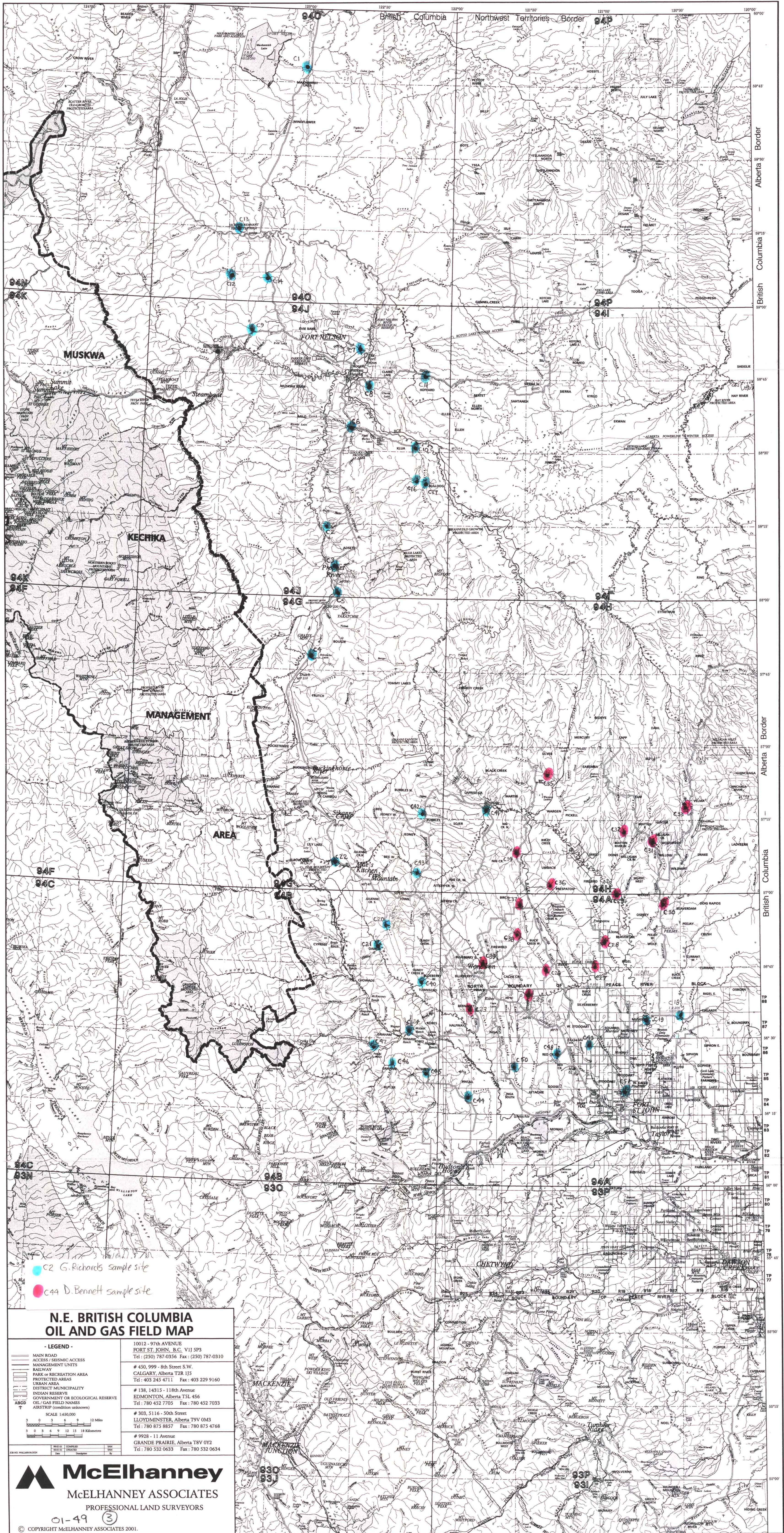
NTS - 082m - 06W
082m - 11W

Geochem

$> 50 \text{ ppm Cu}$



Zn > 90 Δ
 \circ
 \circ
 \circ



N.E. BRITISH COLUMBIA OIL AND GAS FIELD MAP

LEGEND

- MAIN ROAD
- ACCESS / SEISMIC ACCESS
- RAILWAY
- PARK OR RECREATION AREA
- PROTECTED AREAS
- URBAN AREA
- DISTRICT MUNICIPALITY
- INDIAN RESERVE
- GOVERNMENT OR ECOLOGICAL RESERVE
- OIL / GAS FIELD NAMES
- ALSTIP (condition unknown)

SCALE 1:50,000
3 0 3 6 9 12 15 18 Kilometres
3 0 3 6 9 12 15 18 Miles

10012 - 97th AVENUE
FORT ST. JOHN, B.C. V1J 5P3
Tel: (250) 787-0356 Fax: (250) 787-0310

450, 999 - 8th Street S.W.
CALGARY, Alberta T2R 1J5
Tel: 403 245 4711 Fax: 403 229 9160

138, 14315 - 118th Avenue
EDMONTON, Alberta T5L 4S6
Tel: 780 452 7705 Fax: 780 452 7033

905, 5116 - 50th Street
LLOYDMINSTER, Alberta T9V 0M3
Tel: 780 875 8857 Fax: 780 875 4768

9928 - 11 Avenue
GRANDE PRAIRIE, Alberta T8V 0Y2
Tel: 780 532 0635 Fax: 780 532 0634



McElhanney
McELHANNEY ASSOCIATES
PROFESSIONAL LAND SURVEYORS