COMINCO LTD.

EXPLORATION WESTERN DISTRICT

REPORT ON CONTOUR SOIL GEOCHEMISTRY

CHERRY MINERAL CLAIMS

FORT STEELE MINING DIVISION

OWNER: COMINCO LTD.

OPERATOR: KOOTENAY EXPLORATION
1051 INDUSTRIAL ROAD #2
CRANBROOK, B.C. V1C 4k7

Work Performed June 1992

Report by: P. W. Ransom
Project Geologist

August 1992

P. W. Ransom

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1.00 INTRODUCTION

1.10 Location and Access

The Cherry claims are located 25 km south of Cranbrook and 2 km east of the south end of Moyie Lake (Figure 1). Highway 3 runs along the east side of Moyie Lake and the claims are accessed from roads to the higher elevation workings of the abandoned St. Eugene Mine (Figure 2, 3).

1.20 Property Description

The Cherry property comprises 16 2-post claims, Cherry 1 to 16. (Figure 1).

1.30 Physiography

The claims are located on Farrell Creek which drains into Moyie Lake 2.5 kilometres south of St. Eugene Mine. The area is mountainous with only a few cliffs, all less than 50 metres high. Surface elevation of Moyie Lake is 925 metres; the highest point on the claim is 1600 metres, 4 kilometres ESE of the Lake.

2.00 PREVIOUS WORK

Previous work in the area includes prospecting and mapping during the years when St. Eugene Mine was in production and when federal and provincial government geological surveys were carried out (Leech, 1960; Hoy 1982). In 1991 the results of the B.C. Regional Geochemical Survey of the Fernie Sheet, 82G, were released. The claims were staked in response to a 540 ppm Pb, 2300 ppm Zn, 9.0 ppm Cd and 0.5 ppm Ag anomaly in a south-flowing tributary of Farrell Creek (Matysek et al, 1991), sample 90-5249 (Figures 2, 3).

3.00 OBJECT OF PRESENT WORK

The object of the 1992 geochemical survey of the Cherry Claims was to explore the area above the anomalous RGS sample and to explore along strike in adjacent drainages. One Pb-Zn mineral showing the Society Girl, was known in the very headwaters of the anomalous creek. The contour soil survey was to determine if other covered or undiscovered outcropping mineral occurrences might be contributing to this anomaly.

4.00 PROCEDURES

Soil samples of B horizon, or if B not present, C horizon, were collected at 50 m spacing along selected contours. Sample depth was generally between 10 and 30 cm. Soil sample size was generally 300 grams. Samples were air dried then shipped to Cominco's Exploration Research Lab for screening to -80 mesh and analysis by I.C.P. for Cu Pb Zn Ag As Co and Ni. Twenty-two of the samples were analyzed for 22 elements including the seven listed. Fifty-nine of the samples were also analyzed for Fe, one hundred and six for Mn.

5.00 RESULTS

The results are in Appendix A and are keyed to field numbers shown in Figures 2 and 3. Pb and Zn values are shown in these figures as well.

6.00 DISCUSSION

Only Pb and Zn showed interesting anomalous values and some clustering. There are more anomalous Pb values than Zn values. The extensive Pb anomaly on the west has associated elevated to anomalous Zn. This anomaly is interpreted to be the result of glacial dispersion from the St. Eugene - Society Girl vein system.

The three-point Zn anomaly in the eastern part of the area does not have an associated Pb anomaly. Small size and location of the anomaly indicate the sulphide source is close by; lack of associated anomalous lead is assumed to exclude the distant southwest extension of the lead-rich St. Eugene-Society Girl vein system as a source. A large Zn sulphide vein parallel to the St. Eugene vein is unlikely as there are insufficient anomalous Zn values down-ice from the 3 point anomaly.

7.00 CONCLUSION

The anomalous area on the west appears to be the result of glacial dispersion from the St. Eugene - Society Girl vein system, and is of no interest. The three-point anomaly on the east is small, however, it appears to be derived from an undiscovered source. Close-spaced sampling to define a trend or pinpoint a source area is under consideration.

References

Hoy, T. and Diakow, L., 1982, Geology of the Moyie Lake Area, B.C. MEMPR, Preliminary Map No. 49.

Leech, G.B., 1960, Geology, Fernie (West Half) B.C., G.S.C. Map 11-1960.

Matysek, P.F., Jackman, J.L. Gravel, S.J., Sibbick, S.F., British Columbia Regional Geochemical Survey, Fernie (NTS 82G) MEMPR BCRGS27.

Report by: P. Ransom
P.W. Ransom
Project Geologist

Endorsed by: D. Anderson
D. Anderson, P. Eng.
Senior Geologist

Approved by: W. J. Wolfe
W. J. Wolfe
Manager Exploration
Western Canada

PWR:ddw

Distribution: Mining Recorder (2 copies)
WD Exploration
Kootenay Exploration

IN THE MATTER OF THE

B.C. MINERAL ACT

AND IN THE MATTER OF A

SOIL GEOCHEMISTRY PROGRAM

CARRIED OUT ON THE CHERRY PROPERTY

in the Fort Steele Mining District of

Province of British Columbia

A F F I D A V I T

I, Paul W. Ransom, of the rural district of Wycliffe, in the Province of British Columbia, make Oath and say:

1. That I am employed as a geologist by Cominco Ltd., and as such, have a personal knowledge of the facts to which I hereinafter depose:

2. That annexed hereto and marked as Exhibit "A" to this my affidavit is a true copy of expenditures incurred on a soil geochemistry program carried out on the Cherry Property.

3. That the said expenditures were incurred during the months of September and October 1991 and June 1992.

P. W. Ransom
Project Geologist

EXHIBIT A

EXPENDITURES ON CHERRY CLAIMS

SALARIES:	Supervision and report writing 2 days @ $185.00/day	$ 570.00
SAMPLING:	10 man days @ $115.00/day	1,150.00
OFFICE WORK:	2 days @ $115.00/day	230.00
TRUCKS:	2 trucks for 4 days @ $50.00/day	400.00
LIVING EXPENSES:	12 man days @ $25.00/day	300.00
ANALYSES:	187 samples @ $9.00/sample	1,683.00
FREIGHT:		50.00
SUPPLIES:		50.00
	TOTAL:	**$4,433.00**

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

AUTHOR'S QUALIFICATIONS

As author of this report, I, P. W. Ransom, certify that:

I am a geologist active in mineral exploration.

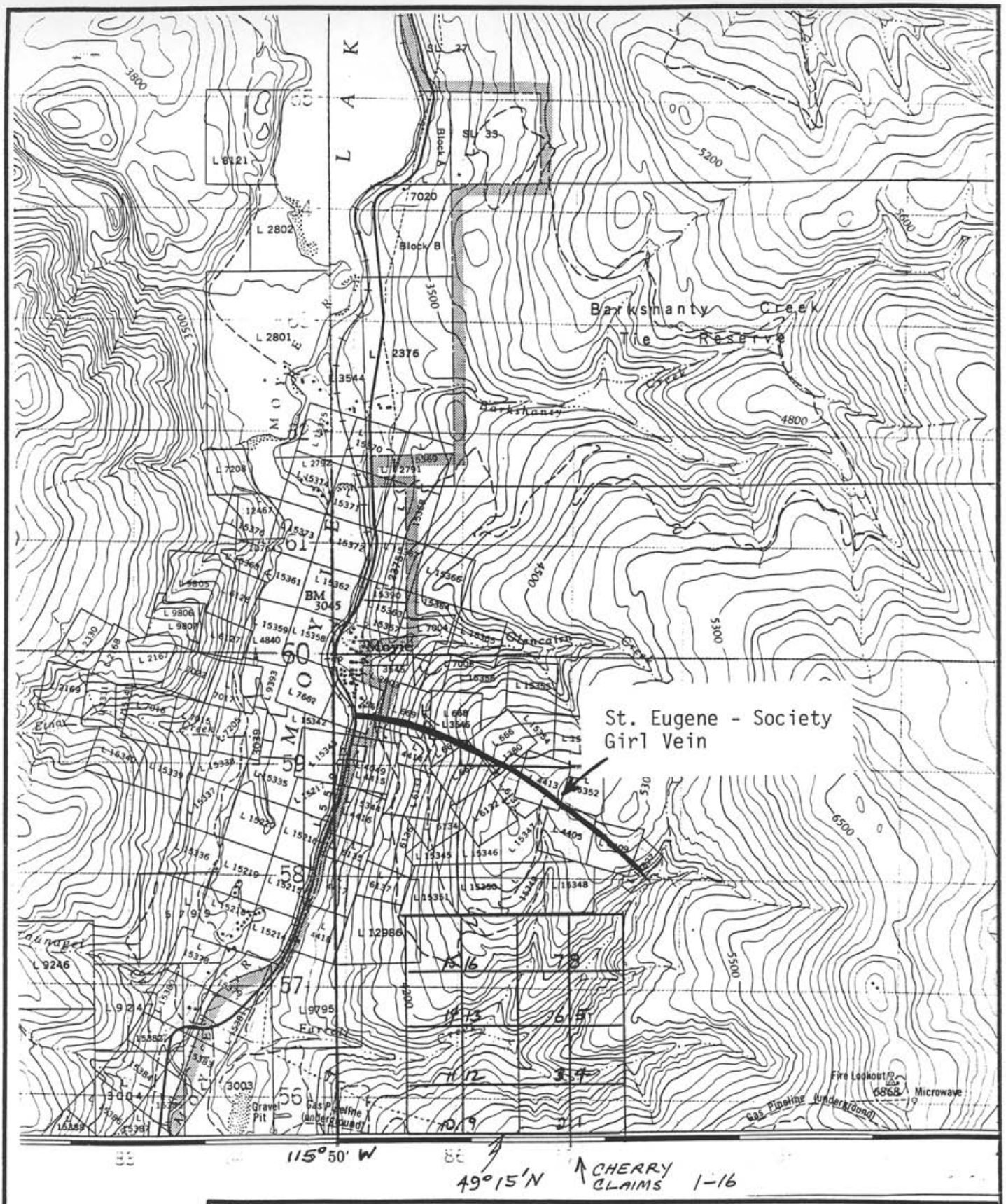
I am a graduate of McGill University with a degree of Bachelor of Science.

I have been continuously engaged in mining and exploration since 1966.

I am a member of the Geological Association of Canada.

I supervised Cominco Ltd.'s Cherry grid soil geochemistry program in 1992.

P. W. Ransom
Project Geologist



Cominco

Iss'd To:	Date:

CHERRY CLAIMS LOCATION MAP

Drawn by:	Scale: 1:50000	Date: August 20, 1992	Plate: 1

SOCIETY GIRL 300 m NORTH

PROJECTED CONTINUATION OF ST. EUGENE-SOCIETY GIRL VEIN.

ANOMALOUS RGS 90-5249

RGS 90-1382

FARRELL CREEK

GAS PIPE LINE

0 500
METRES
CLAIM NO. SHOWN AT I.P.

CHERRY CLAIMS

Cominco

Drawn by: MAR		Traced by: PRR	
Revised by	Date	Revised by	Date

SOIL GEOCHEM
LEAD (PPM)

Scale: 1:10 000 | Date: JULY 1992 | Plate: 2

210-0620

SOCIETY - GIRL
300m NORTH

PROJECTION OF
ST. EUGENE -
SOCIETY-GIRL
VEIN.

ANOMALOUS
RGS
90-5249

RGS
90-1396

FARRELL CREEK

GAS PIPELINE

CLAIM NO. SHOWN AT I.P.

0 500
METRES

CHERRY

Cominco

Drawn by: NF		Traced by:	
Revised by	Date	Revised by	Date

SOIL GEOCHEM
ZINC (PPM)

Scale: 1:10 000 | Date: JULY 1992 | Plate: 3

210-0620

ALDRIDGE-WD

Job V 92-0288S

CHERRY

Report date 24 JUL 1992

LAB NO	FIELD NO	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
S9209198	GB-01	9	36	95	<.4	<2	191	<1	9	30	1.56	<2	8	<5	<4	14	463	.25	.09	2.88	.23	.02	.11
S9209199	GB-2	8	38	151	.8	5	388	<1	12	27	1.29	<2	7	<5	<4	8	1601	.24	.05	1.79	.38	.02	.18
S9209200	GB-3	46	21	125	<.4	2	143	<1	16	31	3.25	<2	12	<5	<4	15	446	.44	.07	2.57	.28	.01	.25
S9209201	GB-4	23	14	102	<.4	<2	118	<1	14	22	2.10	<2	11	<5	<4	12	521	.40	.04	1.71	.19	.01	.23
S9209202	GB-5	16	12	163	<.4	10	282	<1	10	31	1.64	<2	7	<5	<4	9	722	.24	.08	2.58	.33	.03	.14
S9209203	GB-6	15	15	172	<.4	<2	327	<1	10	16	1.63	<2	6	<5	<4	7	876	.17	.06	1.94	.31	.03	.10
S9209204	GB-7	50	24	164	<.4	<2	119	<1	42	61	2.82	<2	12	7	<4	16	773	.42	.05	2.26	.39	.01	.18
S9209205	GB-8	53	39	241	<.4	16	529	<1	15	14	3.88	<2	12	<5	<4	14	3607	.39	.04	1.86	1.08	.01	.22
S9209206	GB-9	49	22	259	<.4	4	92	<1	32	84	3.92	<2	13	<5	<4	19	505	.40	.06	2.55	.24	.01	.14
S9209207	GB-10	69	27	233	<.4	5	158	<1	36	57	3.54	<2	12	<5	<4	15	984	.43	.05	2.14	.45	.01	.17
S9209208	GB-11	51	21	166	<.4	<2	115	<1	27	52	3.40	<2	11	6	<4	12	495	.40	.04	1.93	.23	.01	.18
S9209209	GB-12	29	15	120	<.4	2	142	<1	18	31	2.34	<2	9	<5	<4	12	535	.34	.04	1.76	.17	.01	.14
S9209210	GB-13	9	12	151	<.4	4	174	<1	13	30	1.53	<2	7	<5	<4	7	668	.28	.03	1.40	.11	.01	.15
S9209211	GB-14	10	10	124	<.4	7	164	<1	8	22	1.50	<2	6	<5	<4	11	381	.17	.10	2.74	.14	.03	.07
S9209212	GB-15	15	7	92	.4	4	73	<1	9	19	1.70	<2	10	<5	<4	10	135	.45	.03	1.13	.05	<.01	.15
S9209213	GB-16	10	7	78	<.4	<2	130	<1	7	16	1.31	<2	8	<5	<4	8	254	.29	.04	1.75	.08	.01	.13
S9209214	GB-17	10	8	62	<.4	<2	92	<1	6	13	1.50	<2	8	5	<4	9	196	.34	.04	1.50	.04	.01	.13
S9209215	GB-18	10	6	97	.5	11	132	<1	7	15	1.57	<2	7	<5	<4	11	209	.27	.06	2.47	.06	.01	.09
S9209216	GB-19	12	11	48	.4	<2	36	<1	6	9	1.44	<2	9	<5	<4	8	201	.42	.03	.92	.10	.01	.17
S9209217	GB-22	14	18	62	.5	3	84	<1	11	10	1.65	<2	9	<5	<4	9	666	.39	.03	1.02	.21	.01	.20
S9209218	GB-23	13	21	54	.4	<2	41	<1	6	12	1.62	<2	10	<5	<4	8	238	.47	.03	.98	.05	<.01	.23
S9209219	GB-24	15	15	74	<.4	4	164	<1	8	17	1.44	<2	8	<5	<4	12	208	.27	.06	1.91	.10	.02	.11
S9209220	GB-25	14	21	54	<.4	<2	48	<1	6	10	1.78	<2	11	<5	<4	11	138	.50	.04	1.11	.04	<.01	.28
S9209221	GB-26	10	14	85	.4	3	202	<1	5	14	1.41	<2	7	<5	<4	10	176	.22	.07	2.28	.07	.02	.09
S9209222	GB-27	11	25	79	<.4	<2	131	<1	8	20	1.59	<2	9	<5	<4	11	222	.36	.05	1.53	.07	.01	.21
S9209223	GB-28	10	24	98	.7	<2	159	<1	7	21	1.29	<2	8	<5	<4	8	218	.27	.06	1.79	.08	.02	.16
S9209224	GB-29	14	16	84	<.4	2	95	<1	7	14	1.93	<2	11	<5	<4	11	197	.46	.04	1.48	.10	<.01	.24
S9209225	GB-30	19	10	108	.4	7	143	<1	9	24	1.45	<2	7	<5	<4	10	163	.26	.09	2.60	.25	.05	.19
S9209226	GB-31	9	15	217	.4	4	255	<1	5	13	1.31	<2	7	<5	<4	7	428	.22	.07	1.95	.33	.03	.16
S9209227	GB-32	15	17	124	<.4	3	436	<1	6	12	1.37	<2	8	<5	<4	7	580	.24	.06	1.84	.57	.03	.21
S9209228	GB-33	8	13	109	<.4	4	160	<1	5	20	1.07	<2	5	<5	<4	7	147	.20	.08	2.02	.27	.03	.16
S9209229	GB-34	14	34	81	<.4	3	112	<1	8	11	1.95	<2	10	<5	<4	12	372	.39	.06	1.24	.09	.01	.37
S9209230	GB-35	8	23	175	<.4	9	352	<1	10	18	1.24	<2	6	<5	<4	7	1648	.20	.05	1.81	.29	.03	.16
S9209231	GB-36	13	21	109	<.4	7	198	<1	15	17	2.14	<2	11	<5	<4	13	697	.42	.06	1.58	.15	<.01	.26
S9209232	GB-37	8	15	113	.4	5	252	<1	10	26	1.16	<2	6	<5	<4	7	428	.19	.06	1.83	.16	.02	.12
S9209233	GB-38	6	12	53	.5	2	114	<1	5	9	1.25	<2	7	<5	<4	7	206	.31	.03	1.13	.10	.01	.19
S9209234	GB-39	6	24	57	<.4	<2	103	<1	5	8	1.27	<2	8	<5	<4	7	309	.33	.03	1.01	.07	.01	.19
S9209235	GB-40	28	58	183	.4	2	261	<1	31	46	2.58	<2	10	<5	<4	14	2938	.36	.07	2.10	.27	.01	.20
S9209236	GB-41	33	48	128	.6	2	139	<1	13	25	2.61	<2	10	<5	<4	17	824	.36	.08	2.27	.14	.01	.18

LAB NO	FIELD NO	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
S9209237	GB-42	19	56	112	<.4	<2	56	<1	6	17	1.80	<2	10	7	4	12	148	.41	.05	1.43	.07	<.01	.16
S9209238	GB-43	6	22	94	<.4	6	212	<1	7	16	1.33	<2	5	<5	<4	10	716	.20	.06	1.86	.15	.02	.12
S9209239	GB-44	10	14	83	<.4	3	270	<1	6	14	1.12	<2	6	<5	<4	7	659	.20	.06	1.92	.27	.02	.10
S9209240	GB-45	16	26	138	<.4	<2	116	<1	10	19	1.78	<2	9	<5	<4	11	264	.36	.06	1.24	.11	.01	.24
S9209241	GB-46	13	37	81	<.4	<2	130	<1	7	14	2.01	<2	10	6	<4	12	395	.36	.06	1.54	.08	<.01	.26
S9209242	GB-47	11	41	79	<.4	4	153	<1	7	13	1.61	<2	9	<5	<4	11	183	.30	.06	1.82	.06	.01	.17
S9209243	GB-48	8	54	97	<.4	<2	109	<1	8	11	1.46	<2	8	<5	<4	9	795	.33	.04	1.09	.06	.01	.21
S9209244	GB-49	6	39	90	.6	<2	152	<1	6	8	1.34	<2	7	7	<4	8	561	.26	.03	1.25	.12	.01	.12
S9209245	GB-20	23	39	109	<.4	3	89	<1	8	15	1.60	<2	11	<5	<4	9	559	.44	.02	1.28	.44	.01	.14
S9209246	GB-21	17	25	61	<.4	<2	64	<1	8	13	1.84	<2	11	9	<4	10	442	.48	.03	1.12	.24	<.01	.17
S9209247	GB-50	80	836	2303	<.4	8	88	10	30	36	2.47	<2	19	<5	<4	14	648	.56	.05	1.84	.30	.01	.31
S9209248	NF-01	13	24	82	<.4	2	90	<1	6	14	1.49	<2	8	<5	<4	9	279	.33	.05	1.61	.15	.01	.17
S9209249	NF-2	9	30	113	<.4	4	204	<1	6	14	1.24	<2	7	<5	<4	7	942	.23	.04	1.27	.21	.01	.15
S9209250	NF-3	7	16	43	<.4	2	41	<1	5	6	1.24	<2	7	<5	<4	7	140	.32	.02	.75	.04	<.01	.17
S9209251	NF-4	5	9	60	<.4	<2	135	<1	4	10	.39	<2	5	<5	<4	5	176	.21	.03	1.17	.18	.02	.16
S9209252	NF-5	8	29	57	<.4	3	134	<1	6	8	1.38	<2	9	<5	<4	7	359	.36	.03	.97	.09	<.01	.21
S9209253	NF-6	8	29	49	.5	<2	56	<1	6	9	1.46	<2	9	<5	<4	8	139	.39	.03	.90	.07	<.01	.26
S9209254	NF-7	5	13	42	<.4	<2	114	<1	6	11	1.00	<2	6	<5	<4	7	122	.25	.03	.89	.10	.01	.13
S9209255	NF-8	4	24	131	<.4	5	191	<1	5	10	.83	<2	<4	6	<4	4	182	.09	.07	1.69	.24	.02	.08
S9209256	NF-9	12	28	77	<.4	<2	38	<1	7	10	1.62	<2	10	<5	<4	9	199	.48	.04	1.00	.09	.01	.32
S9209257	NF-10	8	33	125	<.4	2	260	<1	7	27	1.44	<2	7	<5	<4	9	668	.16	.08	2.76	.28	.02	.12
S9209258	NF-11	7	24	48	<.4	<2	38	<1	5	7	1.24	<2	8	6	7	7	127	.35	.03	.80	.04	.01	.16
S9209259	NF-12	9	31	98	<.4	<2	122	<1	8	17	1.25	<2	7	<5	<4	9	188	.27	.05	1.52	.07	.01	.13
S9209260	NF-13	7	26	124	<.4	4	164	<1	7	22	1.35	<2	6	<5	<4	11	343	.19	.07	2.35	.09	.02	.10
S9209261	NF-14	8	38	113	<.4	2	163	<1	7	24	1.30	<2	7	<5	<4	8	218	.21	.05	1.71	.11	.02	.13
S9209262	NF-15	9	60	142	.6	2	194	<1	8	28	1.49	<2	9	<5	5	11	340	.31	.05	1.73	.18	.01	.18
S9209263	NF-16	10	69	220	<.4	5	199	<1	8	27	1.42	<2	8	<5	<4	9	534	.28	.05	1.63	.10	.01	.17
S9209264	NF-17	9	63	148	<.4	4	204	<1	8	18	1.49	<2	7	<5	<4	8	447	.28	.04	1.46	.14	.01	.22
S9209265	NF-18	7	39	140	<.4	4	187	<1	6	23	1.17	<2	7	<5	<4	7	241	.22	.06	1.80	.24	.02	.17
S9209266	NF-19	10	19	217	<.4	3	456	<1	6	17	.93	<2	5	8	<4	5	771	.17	.05	1.71	.67	.02	.10
S9209267	NF-20	7	27	127	<.4	10	162	<1	6	21	1.26	<2	6	<5	<4	7	268	.20	.07	2.21	.23	.02	.12
S9209268	NF-21	5	32	161	<.4	2	191	<1	5	12	1.06	<2	6	<5	<4	6	397	.25	.03	1.14	.23	.01	.17
S9209269	NF-22	6	11	61	<.4	4	55	<1	3	7	1.40	<2	9	<5	7	7	210	.41	.02	.86	.11	<.01	.22
S9209270	NF-23	10	44	112	<.4	<2	126	<1	9	11	1.50	<2	8	<5	<4	8	614	.35	.03	.93	.24	<.01	.22
S9209271	NF-24	19	39	73	.5	6	39	<1	6	12	1.80	<2	10	<5	<4	11	163	.43	.04	1.07	.08	.01	.31
S9209272	NF-25	21	49	110	<.4	4	93	<1	11	23	1.93	<2	11	<5	<4	11	414	.37	.06	1.37	.18	<.01	.32
S9209273	NF-26	11	22	48	<.4	4	65	<1	4	9	1.42	<2	9	<5	<4	9	149	.32	.05	.86	.07	<.01	.27
S9209274	NF-27	27	80	112	<.4	4	135	<1	20	35	2.24	<2	12	<5	<4	15	897	.39	.09	1.96	.13	<.01	.31
S9209275	KT-01	6	48	133	<.4	3	183	<1	7	25	1.30	<2	6	<5	<4	9	498	.21	.05	1.76	.12	.02	.13
S9209276	KT-2	6	82	214	.4	3	191	<1	9	28	1.25	<2	7	<5	<4	8	722	.23	.05	1.50	.09	.01	.12
S9209277	KT-3	6	40	134	.7	<2	158	<1	10	18	1.15	<2	6	<5	<4	8	668	.20	.04	1.37	.08	.02	.12
S9209278	KT-4	6	47	185	.8	2	200	<1	10	28	1.33	<2	7	<5	<4	10	390	.23	.06	1.81	.11	.02	.11

LAB NO	FIELD NO	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
S9209279	KT-5	17	81	129	.5	<2	135	<1	10	24	1.83	<2	9	<5	<4	11	244	.38	.04	1.62	.07	.01	.18
S9209280	KT-6	13	57	110	<.4	4	147	<1	10	21	1.85	<2	9	<5	<4	12	551	.32	.05	1.84	.11	.01	.15
S9209281	KT-7	14	39	125	<.4	5	115	<1	8	21	1.87	<2	10	<5	<4	13	305	.28	.07	2.31	.08	.02	.14
S9209282	KT-8	6	20	214	<.4	<2	308	<1	6	16	1.19	<2	6	<5	<4	7	554	.20	.04	1.36	.13	.02	.11
S9209283	KT-9	3	10	221	<.4	2	195	<1	4	18	1.00	<2	5	<5	<4	6	557	.12	.07	2.02	.28	.02	.08
S9209284	KT-10	18	25	101	<.4	5	102	<1	8	16	1.88	<2	9	<5	<4	11	438	.34	.04	1.65	.11	.01	.16
S9209285	KT-11	20	28	98	<.4	5	46	<1	8	21	1.93	<2	12	<5	<4	9	366	.47	.03	1.27	.18	<.01	.23
S9209286	KT-12	10	21	106	<.4	<2	124	<1	8	30	1.62	<2	8	<5	<4	11	375	.32	.06	1.74	.12	.01	.18
S9209287	KT-13	13	23	63	.6	<2	80	<1	6	11	1.65	<2	10	<5	<4	11	219	.44	.04	1.07	.08	.01	.25
S9209288	KT-14	7	35	141	<.4	<2	169	<1	8	18	1.52	<2	8	<5	<4	11	1389	.28	.04	1.42	.16	.01	.15
S9209289	KT-15	5	23	151	<.4	4	221	<1	5	13	1.12	<2	5	<5	<4	8	936	.11	.05	2.01	.21	.02	.07
S9209290	KT-16	11	33	96	<.4	<2	147	<1	10	12	1.73	<2	11	<5	<4	11	620	.41	.05	1.26	.11	.01	.25
S9209291	KT-17	8	19	99	.5	4	174	<1	9	20	1.34	<2	7	<5	<4	10	507	.23	.06	1.92	.12	.02	.13
S9209292	KT-18	9	26	98	<.4	4	112	<1	7	25	1.46	<2	7	<5	<4	12	215	.27	.06	2.00	.12	.01	.14
S9209293	KT-19	8	33	109	<.4	<2	156	<1	6	17	1.38	<2	8	<5	<4	10	387	.27	.06	1.88	.14	.01	.15
S9209294	KT-20	8	23	110	<.4	6	167	<1	7	18	1.28	<2	8	<5	<4	9	516	.26	.05	1.51	.09	.02	.15
S9209295	KT-21	12	41	55	<.4	6	48	<1	8	10	1.82	<2	12	<5	<4	11	184	.47	.05	1.12	.05	<.01	.27
S9209296	KT-22	6	26	137	<.4	<2	218	<1	8	17	1.22	<2	6	<5	<4	9	1248	.17	.07	2.28	.18	.02	.08
S9209297	KT-23	8	30	68	<.4	3	74	<1	6	11	1.09	<2	7	<5	<4	7	539	.29	.03	1.03	.13	.01	.09
S9209298	KT-24	12	33	110	<.4	<2	138	<1	6	16	1.28	<2	9	<5	<4	8	311	.29	.03	1.44	.12	.02	.13
S9209299	KT-25	11	42	72	<.4	<2	104	<1	7	13	1.45	<2	9	<5	<4	9	216	.36	.03	1.39	.10	.01	.15
S9209300	KT-26	10	39	70	<.4	4	96	<1	6	11	1.36	<2	8	<5	<4	9	210	.32	.03	1.29	.10	.01	.15
S9209301	KT-27	9	26	97	<.4	4	110	<1	7	25	1.47	<2	8	<5	<4	12	220	.28	.06	1.90	.12	.01	.13
S9209302	KT-28	13	22	116	.4	7	214	<1	9	21	1.73	<2	10	<5	<4	12	833	.27	.07	2.83	.15	.02	.13
S9209303	KT-29	8	25	57	<.4	3	68	<1	7	10	1.44	<2	9	<5	<4	9	247	.39	.03	1.15	.08	.01	.15

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

Cu 20% HNO3 decomposition / I.C.P. analysis
Pb 20% HNO3 decomposition / I.C.P. analysis
Zn 20% HNO3 decomposition / I.C.P. analysis
Ag 20% HNO3 decomposition / I.C.P. analysis
As 20% HNO3 decomposition / I.C.P. analysis
Co 20% HNO3 decomposition / I.C.P. analysis
Ni 20% HNO3 decomposition / I.C.P. analysis
Mn 20% HNO3 decomposition / I.C.P. analysis

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Cd ppm	Co ppm	Ni ppm	Fe %
S9136785	RT91-393	15	67	151	.4	7	<1	7	18	1.59
S9136786	RT91-394	9	15	53	<.4	<2	<1	3	8	1.41
S9136787	RT91-395	9	31	121	<.4	<2	<1	7	17	1.57
S9136788	RT91-396	9	24	161	<.4	<2	<1	7	13	1.64
S9136789	RT91-397	7	32	118	<.4	2	<1	8	17	1.62
S9136790	RT91-398	7	26	149	.6	9	<1	9	22	1.55
S9136791	RT91-399	9	28	129	<.4	3	<1	9	21	1.44
S9136792	RT91-400	8	26	166	<.4	5	<1	11	23	1.43
S9136793	RT91-401	8	20	106	<.4	<2	<1	11	16	1.50
S9136794	RT91-402	20	36	147	<.4	8	<1	21	40	1.93
S9136795	RT91-403	17	65	181	<.4	3	<1	13	29	1.97
S9136796	RT91-404	14	39	150	<.4	6	<1	9	27	1.73
S9136797	RT91-405	21	47	111	<.4	6	<1	11	21	1.81
S9136798	RT91-406	21	131	219	<.4	2	<1	8	21	2.34
S9136799	RT91-407	10	81	159	.4	7	<1	8	19	1.70
S9136800	RT91-408	10	121	207	<.4	3	<1	10	24	1.67
S9136801	RT91-409	12	35	109	<.4	8	<1	13	20	1.96
S9136802	RT91-410	22	122	105	<.4	11	<1	16	25	2.16
S9136803	RT91-411	28	28	99	<.4	8	<1	16	22	2.30
S9136804	RT91-412	24	78	134	<.4	3	<1	13	37	2.30
S9136805	RT91-413	28	103	152	<.4	3	<1	13	39	2.25
S9136806	RT91-414	31	116	179	<.4	3	<1	19	41	2.53
S9136807	RT91-415	18	68	174	<.4	3	<1	19	34	2.21
S9136808	RT91-416	22	71	147	<.4	<2	<1	13	25	2.11
S9136809	RT91-417	30	116	155	<.4	5	<1	11	33	2.11
S9136810	NF91-615	21	104	177	<.4	5	<1	13	41	2.38
S9136811	NF91-616	10	106	148	<.4	2	<1	13	20	1.65
S9136812	NF91-617	9	104	157	<.4	8	<1	12	26	1.65
S9136813	NF91-618	13	120	132	<.4	8	<1	12	19	1.47
S9136814	NF91-619	18	165	136	<.4	5	<1	13	32	1.71
S9136815	NF91-620	8	79	116	<.4	<2	<1	8	14	1.12
S9136816	NF91-621	14	157	211	.4	<2	<1	11	36	1.97
S9136817	NF91-622	6	93	190	<.4	2	<1	11	21	1.51
S9136818	NF91-623	11	87	158	<.4	7	<1	9	25	1.55
S9136819	NF91-624	6	98	223	<.4	<2	<1	8	18	1.41
S9136820	NF91-625	15	132	247	<.4	<2	<1	8	27	1.91
S9136821	NF91-626	8	62	134	<.4	2	<1	8	18	1.53
S9136822	NF91-627	7	47	92	.4	7	<1	8	23	1.49
S9136823	NF91-628	8	60	125	<.4	<2	<1	8	19	1.34
S9136824	NF91-629	11	84	142	<.4	6	<1	9	25	1.61
S9136825	NF91-630	9	70	131	<.4	3	<1	8	20	1.71
S9136826	NF91-631	22	140	139	<.4	7	<1	15	26	2.21
S9136827	NF91-632	9	61	101	<.4	<2	<1	9	10	1.79

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Cd ppm	Co ppm	Ni ppm	Fe %
S9136828	NF91-633	19	57	209	<.4	2	<1	21	25	2.55
S9136829	NF91-634	18	123	171	<.4	12	<1	17	29	2.57
S9136830	NF91-635	28	57	98	<.4	4	<1	13	21	2.86
S9136831	NF91-636	57	55	271	1.7	8	<1	84	57	3.22
S9136832	NF91-637	26	56	154	<.4	<2	<1	29	33	3.02
S9136833	NF91-638	18	59	99	<.4	11	<1	18	22	2.23
S9136834	NF91-639	29	37	145	<.4	4	<1	16	34	3.28
S9136835	NF91-640	16	54	167	<.4	3	<1	19	24	2.23
S9136836	NF91-641	9	27	124	<.4	3	<1	7	11	1.75
S9136837	NF91-642	9	21	72	<.4	2	<1	3	9	1.45
S9136838	NF91-643	12	36	97	.5	<2	<1	8	18	1.76
S9136839	NF91-644	9	35	135	<.4	5	<1	8	15	1.56
S9136840	NF91-645	12	38	106	<.4	<2	<1	7	16	1.63
S9136841	NF91-646	15	41	79	<.4	7	<1	6	16	1.43
S9136842	NF91-647	9	8	72	<.4	10	<1	3	18	1.17
S9136843	NF91-648	9	25	91	<.4	2	<1	6	11	1.27

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

Cu 20% HNO3 decomposition / I.C.P. analysis
Pb 20% HNO3 decomposition / I.C.P. analysis
Zn 20% HNO3 decomposition / I.C.P. analysis
Ag 20% HNO3 decomposition / I.C.P. analysis
As 20% HNO3 decomposition / I.C.P. analysis
Cd 20% HNO3 decomposition / I.C.P. analysis
Co 20% HNO3 decomposition / I.C.P. analysis
Ni 20% HNO3 decomposition / I.C.P. analysis
Fe 20% HNO3 decomposition / I.C.P. analysis

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
S9138362	NF91-804	8	85	285	<.4	6	226	<1	9	25	1.60	<2	8	<5	<4	10	1338	.26	.05	1.69	.17	.01	.35
S9138363	NF91-805	17	150	157	<.4	<2	87	<1	7	22	1.62	<2	9	<5	<4	9	241	.32	.04	1.31	.12	.01	.36
S9138364	NF91-806	7	18	78	<.4	<2	186	<1	5	29	1.28	<2	6	<5	<4	9	401	.19	.06	2.10	.09	.01	.24
S9138365	NF91-807	7	86	214	<.4	3	175	<1	8	26	1.51	<2	8	<5	<4	9	426	.28	.04	1.62	.10	.01	.31
S9138366	NF91-808	9	36	155	<.4	5	250	<1	6	27	1.62	<2	7	<5	<4	10	396	.28	.06	1.94	.10	.01	.31
S9138367	NF91-809	9	38	139	<.4	<2	350	<1	6	17	1.58	<2	9	<5	<4	9	752	.28	.06	1.89	.16	.01	.29
S9138368	NF91-810	10	32	113	<.4	2	193	<1	7	21	2.07	<2	11	<5	<4	12	250	.37	.05	2.26	.11	.01	.49
S9138369	NF91-811	9	29	83	<.4	<2	152	<1	6	19	1.53	<2	8	<5	<4	11	372	.32	.05	1.68	.12	.01	.39
S9138370	NF91-812	9	38	88	<.4	<2	128	<1	5	12	1.51	<2	8	<5	<4	8	452	.35	.03	1.50	.14	.01	.56
S9138371	NF91-813	11	26	64	<.4	<2	90	<1	7	16	1.65	<2	10	<5	<4	9	191	.44	.03	1.23	.04	<.01	.40
S9138372	NF91-814	8	37	75	<.4	<2	112	<1	6	12	1.61	<2	7	<5	<4	8	766	.39	.03	1.16	.12	<.01	.43
S9138373	NF91-815	13	38	72	<.4	7	113	<1	8	18	1.72	<2	9	<5	<4	10	241	.42	.04	1.34	.12	<.01	.48
S9138374	NF91-816	16	30	94	<.4	3	146	<1	7	16	1.56	<2	6	<5	<4	12	348	.28	.07	1.90	.14	.01	.31
S9138375	NF91-817	30	16	165	<.4	4	321	<1	15	37	2.49	<2	8	<5	<4	10	805	.28	.06	1.90	.86	.02	.36
S9138376	NF91-818	17	11	114	<.4	2	185	<1	7	25	1.77	<2	9	<5	<4	12	221	.30	.08	2.20	.15	.02	.30
S9138377	NF91-819	87	22	97	<.4	<2	133	<1	20	24	4.06	<2	10	<5	<4	11	841	.34	.03	1.47	1.70	.01	.40
S9138378	NF91-820	59	28	195	<.4	3	107	<1	70	60	3.97	<2	14	<5	<4	15	1359	.52	.05	1.86	.43	.01	.80
S9138379	NF91-821	60	36	104	<.4	9	74	<1	12	30	3.35	<2	11	<5	<4	17	284	.41	.06	1.95	.04	<.01	.44
S9138380	NF91-822	34	25	100	<.4	2	100	<1	14	33	2.86	<2	11	<5	<4	18	205	.41	.07	2.51	.06	.01	.38
S9138381	NF91-823	7	20	76	<.4	<2	166	<1	7	19	1.25	<2	7	<5	<4	8	590	.25	.05	1.59	.11	.01	.29
S9138382	NF91-824	4	17	69	<.4	<2	239	<1	5	16	1.41	<2	7	<5	<4	7	1093	.29	.03	1.47	.19	.01	.37
S9138383	NF91-825	10	15	61	<.4	<2	120	<1	7	18	1.72	<2	8	<5	<4	11	214	.37	.04	1.59	.08	<.01	.48

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).