REPORT ON THE 2000 GEOLOGICAL AND GEOCHEMICAL ASSESSMENT WORK ON THE Nina Property

Dawson Mining District, Yukon
August 17-24, 2000

Claims:
Nina 1-74 (YC17171-YC17244)
Nina 81-84 (YC19979-YC19982)
Nina 88-99 (YC19983-YC19994)

Location:
1. 70 km south of Dawson City, Yukon
2. NTS Map Area 115 O 6/7
3. Latitude: 63° 24'N
   Longitude: 139° 03'W

For:
Copper Ridge Exploration Inc.
Suite 500 – 625 Howe Street
Vancouver, B.C.
V6C 2T6

By:
R. Allan Doherty, P.Geo.
Aurum Geological Consultants Inc.
3151B 3rd Avenue
Whitehorse, Yukon
Y1A 1G1

December 10, 2001

094389

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of $ 830.

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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INTRODUCTION

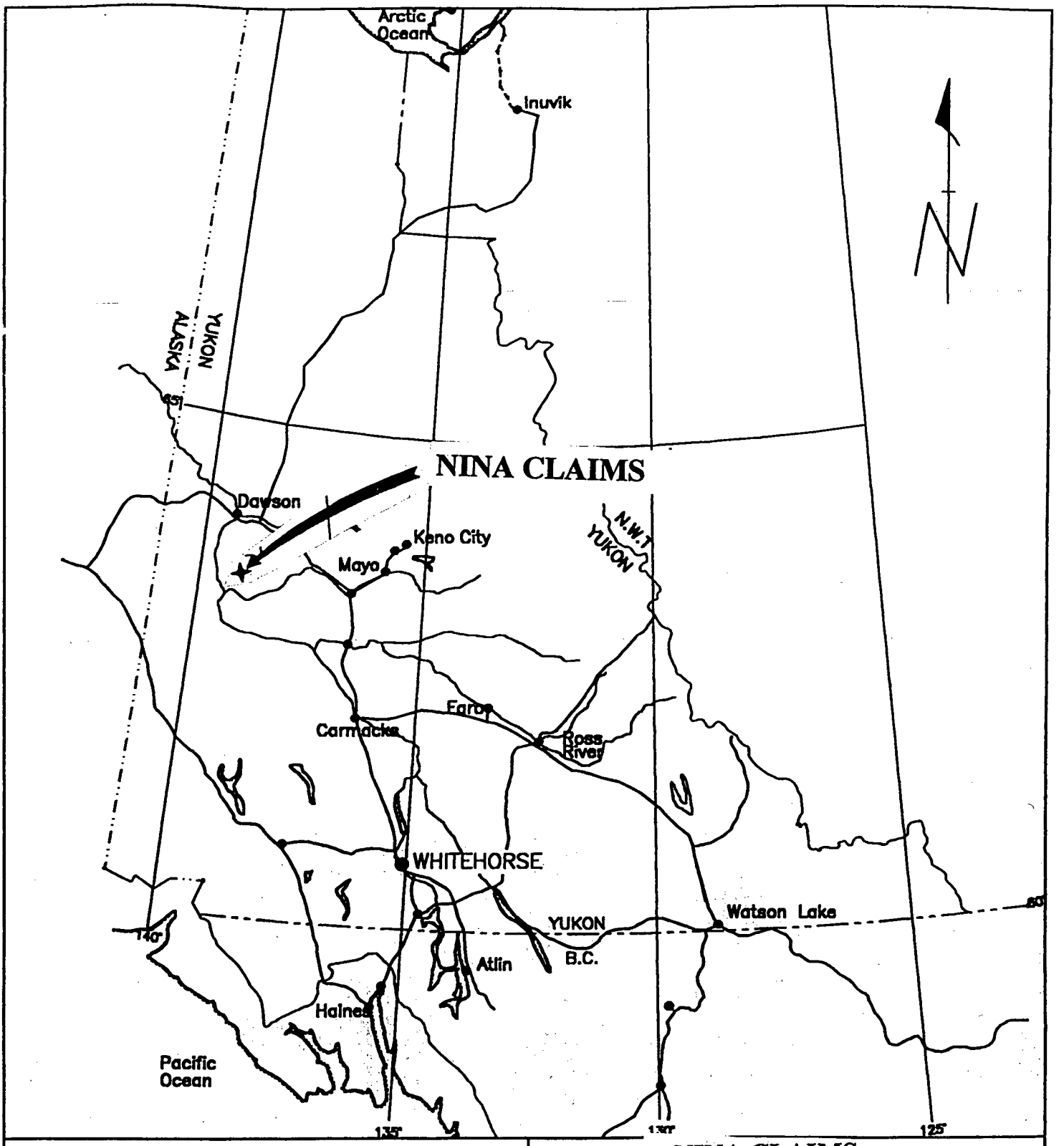
This report summarizes the results of exploration work conducted on and around the NINA Claims during the period August 17-23, 2000. Copper Ridge Explorations Inc optioned the NINA Claims from prospector J. P. Ross. The exploration target on the property is plutonic related gold mineralization.

LOCATION AND ACCESS

The claims are located at the headwaters of Henderson Creek, approximately 70 km south of Dawson City. The claims are at the east side of NTS map area 115 O/6 with a few of the claims extending into 115 0/7 (Figure 1). The claims are accessible by road over the Dominion loop and along the Indian River drainage, up over Eureka Dome and then to Henderson Dome. The 130 km road trip from Dawson to the claims requires approximately two to three hours of travel time. The roads are in good condition.

PHYSIOGRAPHY, CLIMATE AND VEGETATION

The claims are located within the Klondike Plateau, which covers a large area southwest of the Tintina trench and extending westward to the Yukon Alaska border. This area of the Yukon is unglaciated. Topography consists of steeply incised valleys with rounded highlands. Topographic relief is approximately 1500 feet. The climate is typical of central Yukon with warm summers with moderate precipitation and cool winters. Vegetation consists of Alpine Fur and white spruce with abundant willow and alder. Henderson Creek has been extensively placer mined and new growth vegetation of willows and grasses returns quickly to the disturbed areas.



PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
R. A. DOHERTY
2001

NINA CLAIMS

Dawson Mining District

PROPERTY LOCATION MAP

AURUM GEOLOGICAL CONSULTANTS INC.		DATE: OCTOBER, 2001	
NTS 115 G/6/7	DRAWN BY: JC	SCALE: 1:6,000,000	FIGURE 1

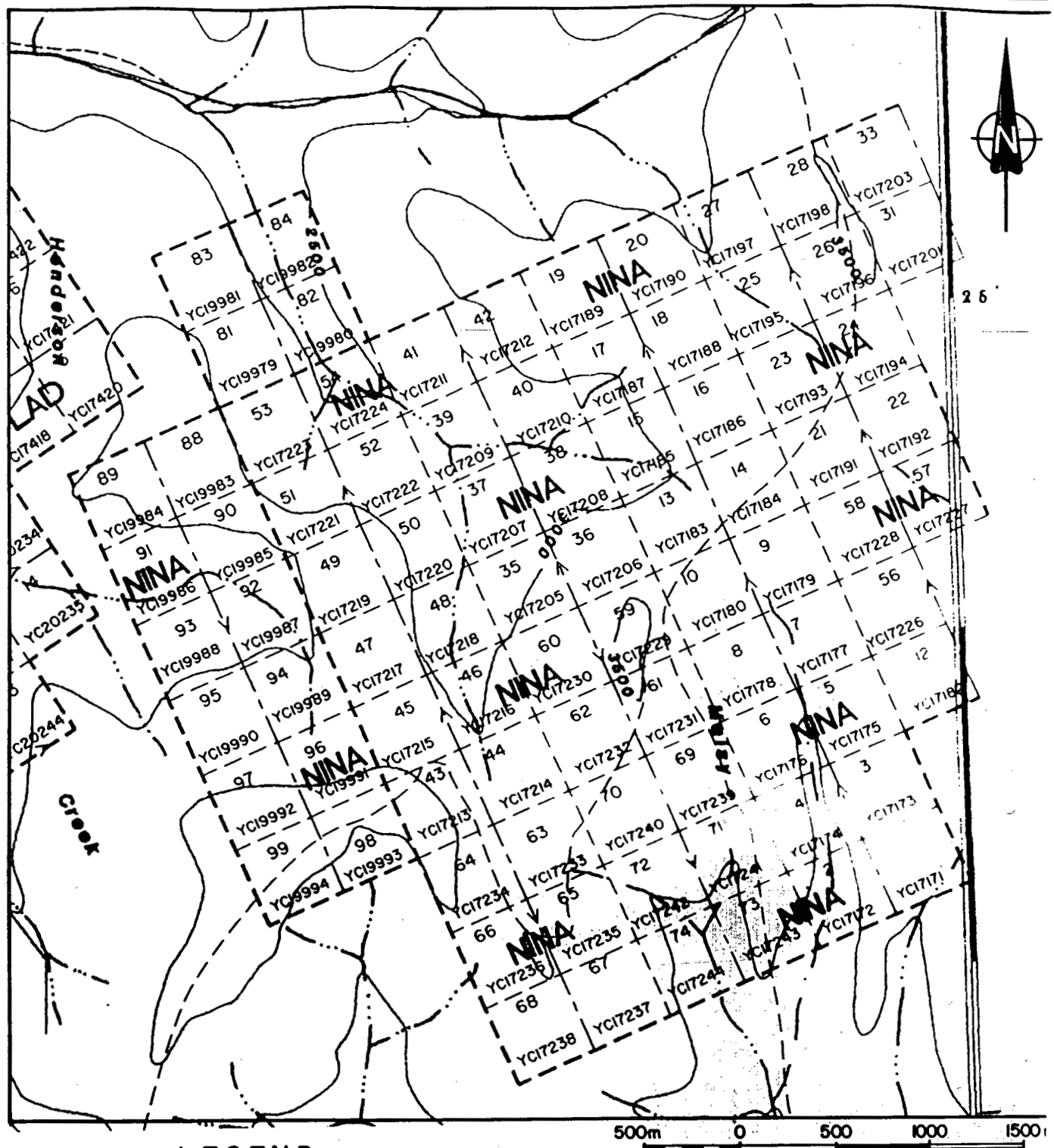
PROPERTY

At the time the work was completed, the property consisted of 84 contiguous unsurveyed two post quartz claims covering approximately 1800 hectares (Figure 2), staked in accordance with the Yukon Quartz Mining Act. All the claims are in the Dawson Mining District at the headwaters of Henderson and Maisy May Creeks. Current claim status is shown on Yukon Quartz Sheet 105 O-6 &7. Claim data are as follows:

TABLE 1 **NINA Claim Data**

Claim Name	Grant Numbers	No. of Claims	Mining District	Expiry Date	(Claim) Years
Nina 1-12	YC17171-YC17182	11	DAWSON	2002//07/12	(11)
Nina 13	YC17183	1		2003/07/12	(2)
Nina 14	YC17184	1		2002/07/12	(1)
Nina 15	YC17185	1		2003/07/12	(2)
Nina 16-28	YC17186-YC17198.	13		2002/07/12	(13)
Nina 31 & 33	YC17201 & YC17203	2		2002/07/12	(2)
Nina 35-38	YC17205-YC17208	4		2003/07/12	(8)
Nina 39	YC17209	1		2002/07/12	(1)
Nina 40	YC17210	1		2003/07/12	(2)
Nina 41-45	YC17211-YC17215	5		2002/07/12	(5)
Nina 46-48	YC17216-YC17218	3		2003/07/12	(6)
Nina 49-59	YC17219-YC17229	10		2002/07/12	(11)
Nina 60-62	YC17230-YC17232	3		2003/07/12	(6)
Nina 63-68	YC17233-YC17238	6		2002/07/12	(6)
Nina 69-70	YC17239-YC17240	2		2003/07/12	(4)
Nina 71-74	YC17241-YC17244	4		2002/07/12	(4)
Nina 81-84	YC19979-YC19982	4		2002/06/09	(4)
Nina 88-99	YC19983-YC19994	12		2002/06/09	(12)

* subject to approval of 2000 assessment work.



LEGEND

- claim boundary
- claim number
- tag number
- 4WD trail
- creek, lake
- 5500 — elevation contour; interval 500 ft.

Note: adapted from D.I.A.N.D. map sheet

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — R. A. DOHERTY

NINA CLAIMS

Dawson Mining District

CLAIM MAP

Aurum Geological Consultants Inc.			
NTS	DRAWN BY NH	SCALE 1:30,000	FIGURE 1

HISTORY

Placer mining has been conducted on Henderson Creek since the early 1900s. The Henderson Creek baseline was surveyed in 1901 by Gibbon and records indicate that the creek has produced in excess of 22,000 ounces of gold (Yukon Placer Mining Industry 1978-1982 & 1989-1990).

GEOLOGY

Regional Geology

This area is part of the extenxsive Yukon Tannana terrane. It is comprised of Devonian to Missippian Nasina series metamorphic metaclastics intruded by late late Devonian-Mississippisn Pelly Gneiss. Compositionally the Nasins Series consists of thick well foliated and schistose quartzites, micaceous quartzites, quartz-muscovvite (+/- chloritic ; +/- Feldspar augen) schist, and minor metaconglomerate and meta-grut (DMN3); and marble (DMN2). Unit DMqPW the Pelly Gneiss is a foliated equigranular medium-grained muscovite quartz monzonite; moderately to strongly foliated K-feldspar augen-hearing quartz monzonitic to granitic gneiss (S. Fiftymile Batholith, Mt. Burnham Orthogneiss,).

Overlying the Yukon Tannana rocks are Upper Cretatceous Carmacks volcanics consisting of basalt, breccia, andesite, porphyry, dacite and trachyte.

Property Geology

The Nina property is underlain by Nasina Series quartz-muscovite and biotite quartz schist with klarge areas of well foliated felsic orthogneiss. Along the road into henderson Cteek there is some meta-basic rocks exposed near the headwaters of the creek. There is a capping of Carmacks Volcanics on the Northeastern side of the property.

Outcrop is sparse and confined to torrs on ridgetops and outcrops in stream cuts or along placer roads. Generally there is abundant enough colluvium to easily identify the underlying roick units. Soil is well developed in places and loess blankets are not uncommon.

The general trends of foliations in the area are north to northwest and steep to shallow northeasterly dips.

Property Mineralization

Only minor traces of sulphides were noted in the biotite quartz schist. Quarts mullion veining from one outcrop down Henderson Creek (1-RZ-017) contained visible pyrite, with a trace of a very fine grained grey-blue sulphide. This sample reported abomalous Mo, Pb, Zn, Ag, and Bi.

EXPLORATION RESULTS

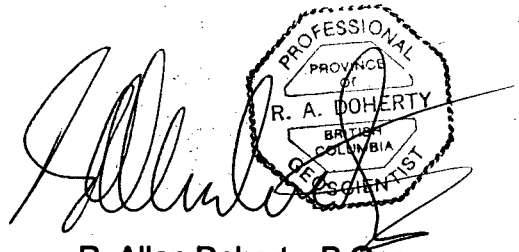
Soil Geochemistry

A total of 143 soil smples were collected on and off the property. Only 53 soil samples were included as assessment costs as they were all on or very nearby the property. Soils were collected just off of ridges and were planned to sample across possible structures. Most samples were collected from undisturbed ground using soil augers. Most samples were collected very close to the soil bedrock interface. Sample results generally returned background values for gold. Eighteen soil samples returned between 10 and 53 ppb gold. One sample 2-RZ-036 returned 3.4 ppb on analyses bur a blind repeat returned 39.6 ppb Au, suggesting that particulate gold may be present.

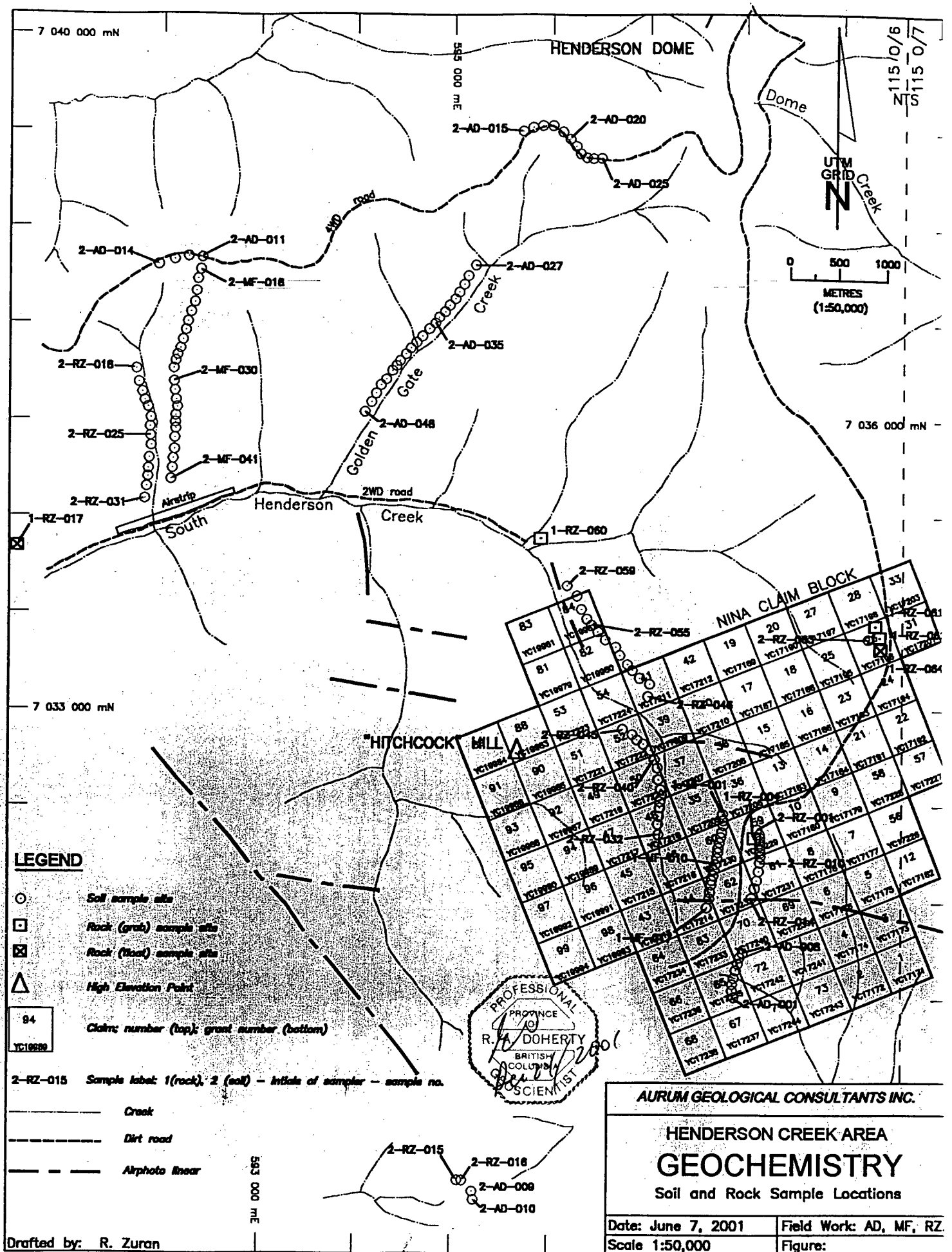
CONCLUSIONS AND RECOMMENDATIONS

Although the geochemical; results are not outstanding, there are sufficient anomalous soils to warrant further work. The duplicate sample 2-RZ-036 that returned 3.4 ppb Au versus 39.6 ppb Au reported in a repeat analyses suggests that collecting larger samples and using a cyanide leach method could produce better results.

Respectfully submitted;



R. Allan Doherty, P.Geo.
December 10,, 2001



AURUM GEOLOGICAL CONSULTANTS INC.

HENDERSON CREEK AREA

GEOCHEMISTRY

Soil and Rock Sample Locations

Date: June 7, 2001	Field Work: AD, MF, RZ
Scale 1:50,000	Figure:

Drafted by: R. Zuran

REFERENCES

Gordey, S. P. , Makepearce A.J., 1999: *Yukon bedrock geology* in Yukon digital geology, S.P. Gordey and A.J. Makepeace (comp.); Geological Survey of Canada Open File D3826 and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1(D).

STATEMENT OF QUALIFICATIONS (RAD)

I, R. Allan Doherty, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 3151 3rd Avenue, Whitehorse, Yukon, Y1A 1G1.

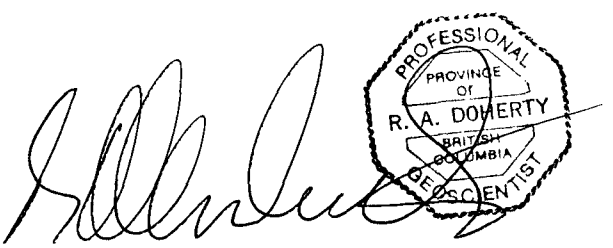
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977) and that I attended graduate school at Memorial University of Newfoundland, 1978-80. I have been involved in geological mapping and mineral exploration continuously since then.

3. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564..

4. I am author of this report on the Nina Property owned by John Peter Ross. The work was completed while the property was under option to Copper Ridge Explorations Inc. The report is based on information collected during property work completed between August 17-23, 2000, and on referenced sources.

5. I have no direct or indirect interest in the properties or securities of Copper Ridge Explorations Inc. nor do I have any direct or indirect interest in the minmeral claims held by John Peter Ross.

6. This report is for assessment purposes only.



December 10, 2001 R. Allan Doherty, P.Geo.

STATEMENT OF COSTS

2000 Assessment Work Valuation; NINA Property (105 O 6/7)

1. Geological and Geochemical

A. Fieldwork	
Mark Fields, Copper Ridge Exp. Inc.	
August 17-20, 2000; 4 days @ $400.00/day:	$1,600.00
R.A. Doherty, P.Geo., of Whitehorse, Yukon	
August 17-23, 2000; 6 days @ $400.00/day:	$2,400.00
Rick Zuran, B.Sc.,	
August 17-23, 2000; 6 days @ $350.00/day:	$2,100.00
B. Geochemical Analysis	
53 soil samples @ $18.45 ea:	$ 977.85
5 rock samples @ $ 20.00 ea:	$ 100.00
C. Support Costs	
Meals & Accommodation:	$ 600.00
Field Expenses:	$ 180.00
4WD Truck Rental	$ 1,284.37
Gasoline:	$ 200.28
Sample shipping:	$ 159.90
D. Research and Report Preparation	$ 500.00
Sub-Total	$9,902.12
Gst: (7% of $9,902.12)	$ 693.15
Total Valuation of 2000 Assessment Work:	**$10,595.27**

Appendix A

Analytical Methods and Reports
Acme Analytical Laboratories Ltd.
File #A003229 – 12 Rock
File #A003230 - 143 Soil

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Aurum Geological Consultants Inc. File # A003229

P.O. Box 4367, Whitehorse YT Y1A 3T5 Submitted by: Al Doherty

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	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample gm
1-AD-005	1.82	21.01	7.87	56.9	59	33.1	17.1	1540	3.16	4.1	.8	5.4	2.7	5.1	.15	.25	.21	74	.02	.020	3.7	43.5	.10	208.8	.022	1	.52	.004	.13	3.3	5.3	.08	.01	52	.2	.05	3.1	15
1-AD-026	3.61	48.58	3.45	64.9	108	39.3	9.5	644	2.48	3.9	.9	.6	3.9	15.5	.08	.04	.15	83	.26	.066	6.1	102.4	1.32	1568.3	.204	<1	1.69	.038	1.01	3.5	4.5	.23	.05	<5	.7	.07	7.1	15
1-MF-003	2.67	9.22	7.57	9.3	24	5.8	1.0	71	.30	3.9	.8	.7	2.2	5.9	.05	.05	.15	<2	.07	.028	5.0	17.1	.02	154.2	.001	1	.26	.035	.14	4.9	.4	<.02	.01	7	<.1	.04	.7	15
1-MF-005	4.04	25.46	5.11	22.9	108	28.9	7.1	264	1.34	1.1	1.2	.8	3.0	59.0	.15	.06	.15	65	1.36	.338	18.6	55.6	.36	969.1	.062	1	.86	.020	.02	5.1	2.0	<.02	.03	<5	.8	.13	2.8	15
1-MF-009	5.84	13.11	1.49	3.6	170	6.5	.9	51	.49	5.3	<.1	13.2	.1	2.2	.01	.06	.06	3	.02	.003	<.5	33.7	.01	84.8	.002	1	.04	.004	.01	9.5	.1	<.02	.02	<5	<.1	<.02	.2	15
1-RZ-004	1.17	9.56	4.73	9.5	30	11.6	2.2	97	.44	3.6	.6	.5	1.1	6.1	.03	.06	.08	2	.04	.007	4.3	16.2	.05	136.8	.001	1	.41	.030	.07	4.2	.3	<.02	<.01	6	<.1	.03	.8	15
1-RZ-017	419.29	10.28	561.85	81.3	5118	3.3	.8	59	.93	3.4	1.7	9.0	1.4	6.7	2.84	.16	14.90	4	.01	.004	4.8	26.1	.04	216.7	.005	<1	.10	.003	.08	7.5	.4	.02	.17	66	2.9	.32	.6	15
1-RZ-060	3.40	7.50	5.58	34.7	69	6.1	6.3	322	1.77	.9	.5	.5	7.4	34.0	.05	.06	.14	40	.42	.039	12.4	23.0	.64	153.4	.114	1	1.12	.045	.41	3.0	2.6	.10	<.01	6	<.1	.03	3.8	15
1-RZ-061	6.95	4.26	4.20	2.2	39	3.7	.3	33	.33	2.0	<.1	2.1	<.1	.5	.01	.07	.15	<2	<.01	.001	<.5	33.3	<.01	5.2	<.001	<1	.01	.001	<.01	7.5	<.1	<.02	<.01	<5	<.1	<.02	.1	15
1-RZ-062	1.95	17.96	4.96	27.0	73	7.8	2.0	287	1.16	2.6	1.6	.4	3.8	5.8	.03	.07	.20	20	.10	.055	12.2	26.6	.24	254.9	.058	1	.64	.022	.39	4.2	.9	.15	.02	<5	.3	.06	2.3	15
1-RZ-064	4.63	2.40	1.92	6.9	9	3.9	.3	41	.30	1.3	<.1	<.2	.1	2.5	<.01	.04	.04	<2	.03	.017	<.5	25.4	.01	30.0	.001	<1	.10	.028	.04	6.8	.1	<.02	<.01	6	<.1	.06	.3	15
1-RZ-066	.52	7.85	.61	20.9	8	18.9	9.6	298	1.34	< 1	<.1	.5	.3	25.4	.02	.04	.02	39	1.10	.067	1.4	36.7	.93	43.3	.093	<1	1.07	.081	.05	1.1	4.3	<.02	<.01	<5	<.1	.02	2.2	15
RE 1-RZ-066	.56	7.82	.64	22.1	9	19.4	10.0	304	1.37	.3	<.1	.4	.3	27.5	.02	.04	.02	41	1.13	.067	1.4	37.3	.95	43.6	.095	<1	1.10	.085	.06	1.2	4.6	<.02	<.01	<5	<.1	.03	2.3	15
STANDARD DS2	14.28	128.40	33.06	155.9	262	35.7	12.0	824	3.07	56.6	19.4	210.8	3.7	26.0	10.42	9.90	10.81	70	.50	.087	15.2	159.8	.59	149.6	.085	2	1.66	.028	.15	7.9	2.8	.86	.03	249	2.4	1.77	5.8	15

GROUP 1F15 - 15.00 GM SAMPLE, 90 ML 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 = 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: AUG 28 2000 **DATE REPORT MAILED:** Sept 6/00 **SIGNED BY** C.L ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data h FA

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GEOCHEMICAL ANALYSIS CERTIFICATE

Aurum Geological Consultants Inc. File # A003230 Page 1

P.O. Box 4367, Whitehorse YT Y1A 3T5 Submitted by: Al Doherty

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Bi 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	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample gm
2-AD-001	.97	27.19	8.53	55.3	43	27.7	8.5	246	2.72	7.5	.5	2.1	2.6	16.5	08	.45	.17	71	21	.050	9.3	45.5	.48	214.8	.066	1	1.62	.007	.05	.2	3.4	.07	.01	45	.4	.02	5.6	15
2-AD-002	80	30.47	8.21	60.0	60	27.3	8.2	312	2.54	7.6	.7	3.1	2.3	20.7	.09	.52	.16	66	.27	068	13.1	39.2	.55	270.9	.070	<1	1.53	.009	.05	.2	3.9	.06	.02	43	.3	.03	5.1	15
2-AD-003	.68	30.81	7.21	57.2	81	27.8	8.0	295	2.24	5.5	1.0	6.4	3.0	21.8	.09	.42	.15	62	.28	.060	13.0	39.5	.51	358.3	.066	<1	1.28	.007	.04	.2	4.0	.05	.02	97	.4	.02	4.4	15
2-AD-004	.67	24.83	8.45	50.9	50	21.2	8.0	327	2.26	5.2	.9	4.2	3.6	16.3	.08	.37	.16	63	.16	.041	12.0	34.1	.42	211.0	.064	1	1.28	.006	.05	<.2	3.9	.07	.01	49	.4	.03	4.6	15
2-AD-006	1.74	72.07	7.12	146.4	97	90.3	20.1	764	4.54	4.5	.9	1.2	5.2	21.2	.28	.23	.15	173	.42	.181	19.2	164.2	1.49	833.0	.188	1	2.90	.007	.50	<.2	4.8	.19	.03	20	1.0	.12	10.7	15
2-AD-007	1.35	52.81	9.91	89.1	159	114.0	23.1	1077	4.59	18.7	1.2	3.8	4.3	18.8	.19	.63	.16	131	.73	.048	16.5	168.1	1.60	549.6	.097	1	2.82	.009	.15	<.2	12.4	.16	<.01	43	.7	.06	10.1	15
2-AD-008	1.67	71.75	7.33	100.2	81	95.2	23.9	974	4.39	5.0	.6	11.1	4.0	15.0	.33	.22	.14	174	.28	.167	15.0	144.4	1.49	696.5	.190	<1	2.72	.006	.57	<.2	5.9	.24	.03	20	.8	.13	10.6	15
2-AD-009	.69	21.21	13.29	54.0	67	24.9	11.1	524	2.58	9.7	.5	2.0	4.1	19.7	.12	.61	.18	69	.55	.017	14.8	33.6	.48	324.0	.057	1	1.71	.022	.04	.2	4.6	.06	.01	28	.3	.03	5.4	15
2-AD-010	.59	18.27	39.48	47.8	147	21.6	7.5	323	1.84	9.2	.4	6.8	1.5	71.3	.16	.49	.09	44	8.00	.048	8.6	26.1	2.29	155.9	.045	1	1.17	.018	.05	.2	2.5	.04	.05	69	.4	<.02	3.3	15
2-AD-011	2.55	15.42	1.75	98.7	17	13.3	27.1	1378	5.87	1.3	.5	.2	4.8	26.7	.02	.13	<.02	131	.43	.081	14.3	28.8	2.46	754.3	.214	<1	3.14	.005	1.48	<.2	6.2	.39	.01	8	.6	.03	9.7	15
2-AD-012	.77	20.60	10.02	89.0	67	14.5	8.7	898	4.79	5.9	3	.7	2.5	18.3	.15	.29	.12	122	.31	.090	5.7	33.9	1.70	402.5	.131	1	3.16	.010	.49	<.2	5.0	.17	.01	16	.3	.02	9.2	15
2-AD-013	7.12	78.56	11.20	308.7	671	79.7	4.6	605	2.74	13.4	4.0	9.7	6.3	39.8	.82	.44	.29	233	.15	.091	15.6	28.8	.17	1004.6	.017	1	.62	.005	.07	<.2	6.9	.12	.07	324	8.3	.18	2.5	15
2-AD-014	1.43	18.24	15.70	69.0	213	18.2	9.2	399	2.95	8.4	1.4	5.8	11.0	16.7	.16	.55	.17	57	.17	.030	24.3	28.6	.42	261.6	.052	1	1.57	.009	.08	<.2	4.6	.07	<.01	50	.5	.02	4.7	15
2-AD-015	2.79	12.69	12.64	97.2	74	7.7	8.1	588	4.48	5.5	3.0	22.9	35.4	9.4	.05	.60	.12	44	.08	.029	64.3	12.4	.35	86.7	.045	<1	1.44	.006	.25	<.2	4.7	.15	.01	167	.4	.03	4.8	15
2-AD-016	2.10	92.56	47.00	102.1	62	128.2	19.1	676	4.22	45.8	1.3	1.7	3.9	22.5	.33	.93	.82	141	.89	.054	23.8	107.2	.61	556.6	.079	3	1.68	.004	.12	<.2	7.1	.14	.01	14	1.9	.12	6.1	15
2-AD-017	1.28	68.68	68.17	155.8	365	76.8	17.6	668	3.71	102.3	.8	7.5	3.7	23.2	.63	.97	.72	102	.25	.071	14.3	65.9	.70	603.8	.086	2	1.70	.008	.10	<.2	6.9	.15	.02	31	1.1	.44	5.7	15
2-AD-018	1.90	44.20	44.46	126.0	220	68.8	13.3	404	4.03	22.4	.8	7.7	5.1	16.2	.40	1.02	.75	91	.13	.043	14.0	85.9	.90	355.3	.078	2	2.73	.007	.12	<.2	4.9	.22	.01	30	.8	.14	7.1	15
2-AD-019	2.98	27.59	41.74	67.3	845	32.4	10.4	253	3.07	32.5	.5	7.2	4.0	16.3	.15	1.05	.80	71	.15	.033	9.4	38.8	.55	221.7	.057	2	2.02	.009	.08	.2	3.0	.13	.03	42	.7	.09	5.5	15
2-AD-020	1.36	27.07	15.05	68.8	134	35.9	13.3	386	3.12	34.5	.5	3.3	3.6	14.6	.20	.93	.78	74	.13	.043	9.8	42.5	.65	289.2	.066	2	2.37	.007	.07	.2	3.4	.10	<.01	36	.6	.22	6.4	15
2-AD-021	1.86	73.80	17.73	88.9	94	35.9	12.8	632	3.84	21.0	1.5	4.3	5.2	17.8	.18	.90	.17	117	.14	.044	22.5	60.0	.89	528.5	.108	3	2.04	.012	.27	<.2	8.4	.14	.05	15	1.2	.21	6.5	15
2-AD 022	1.34	42.94	25.88	102.0	180	69.0	15.9	993	3.72	15.5	.8	1.8	3.6	19.5	.22	1.78	.33	88	.72	.063	18.9	103.6	1.20	363.7	.098	1	2.58	.008	.20	<.2	4.9	.15	.01	31	.5	.07	8.6	15
2-AD-023	1.43	61.30	18.48	96.2	86	54.1	17.8	990	3.60	16.7	.9	6.0	4.7	12.0	.25	88	.23	90	.14	.051	14.0	62.7	.94	334.8	.098	1	2.43	.006	.18	.2	4.7	.14	<.01	26	.6	.10	7.8	15
2-AD-024	1.36	38.93	16.63	83.5	386	48.0	14.4	954	3.73	27.2	.8	10.0	4.0	11.5	.18	1.23	.23	82	.10	.061	14.7	61.3	.78	242.1	.056	1	1.98	.006	.13	.2	4.1	.10	<.01	21	.5	.08	7.6	15
2-AD-025	1.23	93.46	13.75	109.5	81	170.1	28.6	1724	5.77	16.1	1.4	5.4	5.9	32.5	.12	.87	.18	146	.14	.066	27.5	233.4	2.28	823.4	.227	1	3.36	.010	.48	<.2	11.3	.25	.01	12	.6	.08	13.4	15
RE 2-AD-025	1.28	92.56	13.77	108.9	96	178.5	29.2	1715	5.73	16.5	1.4	6.5	5.9	33.9	.10	.89	.19	145	.14	.066	29.8	232.6	2.27	816.4	.227	<1	3.34	.008	.48	<.2	11.5	.25	.01	16	.6	.05	13.9	15
2-AD-027	.70	38.43	6.72	56.2	154	36.1	19.0	543	3.09	5.4	.5	2.7	2.1	21.7	.13	.30	.17	94	.31	.030	6.1	45.8	1.50	465.9	.108	1	3.03	.023	.42	<.2	4.4	.18	.01	20	.4	.04	7.9	15
2-AD-028	1.45	58.81	8.01	82.2	238	84.3	19.4	649	3.85	6.6	.7	1.8	3.0	15.4	.20	.42	.15	119	.22	.066	9.9	115.4	1.55	634.3	.190	1	2.44	.009	.59	.2	5.4	.24	.01	9	.5	.05	9.4	15
2-AD-029	.99	19.66	7.37	48.4	541	728.2	31.5	728	7.40	2.9	3	.6	1.6	12.6	.33	.34	.44	60	.12	.048	5.7	128.4	.82	577.4	.065	<1	1.30	.007	.10	<.2	2.2	.07	<.01	19	.3	.09	5.8	15
2-AD-030	1.25	71.89	7.40	78.3	207	178.2	35.3	814	4.78	11.0	1.0	.9	1.9	28.7	.15	.25	.22	135	.47	.080	8.3	182.2	1.99	436.6	.067	<1	2.63	.012	.28	<.2	11.7	.12	<.01	18	.6	.09	9.8	15
2-AD-031	1.69	65.67	11.37	186.5	148	74.1	15.1	679	3.84	7.2	2.5	4.0	6.8	21.2	.14	.37	.41	109	.24	.066	26.0	100.0	1.70	489.6	.167	<1	2.15	.009	.68	<.2	8.1	.34	.03	22	1.1	.12	9.1	15
2-AD-032	1.99	103.38	25.15	128.2	152	93.2	18.4	429	4.48	5.9	1.6	1.3	6.1	29.9	.21	.43	.25	132	.56	.187	27.2	121.6	1.69	733.0	.122	<1	2.57	.012	.50	<.2	6.6	.17	.04	13	1.2	.16	11.2	15
2-AD-033	1.35	29.47	8.22	53.4	158	30.1	10.8	306	2.58	8.6	1.5	1.3	4.2	25.4	.09	.51	.18	65	.25	.025	12.5	37.3	.61	397.6	.066	1	1.55	.009	.13	<.2	3.3	.06	.01	16	.7	.05	5.2	15
2-AD-034	1.69	60.33	7.85	55.4	184	50.3	13.9	300	4.11	8.2	1.6	3.9	13.1	18.0	.06	.47	21	97	.15	.055	31.4	58.7	.88	323.4	.070	<1	2.28	.009	.24	<.2	4.9	.14	.03	18	.9	.08	7.5	15
STANDARD 052	14.10	126.51	31.85	152.4	263	35.6	11.8	813	2.99	56.2	18.0	203.8	3.5	25.5	9.83	10.01	10.24	75	.51	.088	14.9	156.7	.59	151.0	.087	2	1.63	.028	.15	7.9	2.9	1.76	.04	229	2.5	1.78	5.8	15

GROUP 1F15 - 15.00 GM SAMPLE, 90 ML 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 = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 28 2000 DATE REPORT MAILED: Sept 6/00 SIGNED BY ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Aurum Geological Consultants Inc. FILE # A003230

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	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample ge
2-AD-035	1.59	84.92	8.34	70.4	65	54.0	13.7	424	4.19	5.7	1.9	3.6	12.5	29.4	.09	.51	.25	116	.34	.076	40 1	74 9	1.21	558.7	.124	<1	2.42	.018	.52	<.2	6.6	.22	.04	30	.9	.11	8.6	15
2-AD-036	2.64	47.92	9.30	68.3	251	39.6	10.4	369	2.72	6.3	1.5	8.4	5.1	30.5	.12	.37	.19	73	.46	.065	20.6	51.9	.69	405.8	.091	2	1.67	.009	.20	.2	4.3	.11	02	43	.5	07	5.7	15
2-AD-037	1.81	31.47	8.74	58.8	226	23.5	11.0	394	2.70	6.7	.9	3.8	4.0	22 4	.13	.35	.19	71	.28	.041	15.6	35.4	.66	349.4	.102	1	1.62	.012	.15	.2	3.5	.09	<.01	22	.3	.05	6 1	15
2-AD-038	1.03	34.17	7.79	57.6	74	28.2	9.9	371	2.58	7.8	.9	3.5	4.5	25.1	.07	.50	.17	64	.31	.036	14.0	35.8	.66	366.1	.095	1	1.53	.012	.11	<.2	4.3	.07	<.01	38	.5	.04	4.9	15
2-AD-039	1.09	32.38	9.19	58.4	105	28.1	10.1	340	2.66	8.1	.8	4.5	5.2	22.4	.12	.54	.17	69	.30	.036	15.3	34.0	.69	341.1	.109	1	1.58	.012	.15	<.2	4.0	.09	<.01	22	.4	.06	5.2	15
2-AD-040	1.49	61.72	10.14	82.9	97	50.5	14.7	573	3.44	5.6	1.1	3.5	6 4	23.9	.14	.41	.19	90	.24	.062	21 1	50.7	.82	428.1	.124	1	1 84	.010	.46	<.2	5.3	.17	.02	15	.6	.08	6 7	15
2-AD-041	2.26	65.50	10.45	92.5	180	47.5	13.9	578	3.80	7.3	2.7	6.5	9 6	25 8	.23	27	.20	101	.46	.094	36.4	58.1	.98	489.9	.147	1	2.08	.010	.72	.2	6.0	.23	.04	33	.7	.08	7 9	15
2-AD-042	1.46	49.38	9.48	70 7	44	42.0	11.9	395	3.20	6.7	1.5	7.5	5.1	20.0	.09	.44	.16	87	.27	.027	17.4	52 7	.88	364.0	.133	1	2.00	011	.30	<.2	4.4	16	.01	16	.4	.08	7.3	15
2-AD-043	.95	29.50	7.82	68.8	69	28.4	12.4	362	3.08	5.6	.9	5.0	7.7	18.9	.08	.33	.27	87	.32	.046	20.6	43.3	.90	283.0	.113	1	2.03	.012	.25	<.2	4.2	.13	<.01	18	.4	.05	6.8	15
2-AD-044	.85	36.39	5.97	69.9	39	25.4	10.9	339	3.18	4.6	9	5.1	6.8	21.6	.04	.31	.33	88	.37	.055	21.7	42.5	1.04	319.7	.138	1	2.06	015	.45	.3	4.5	.19	<.01	14	.4	.05	6.7	15
2-AD-045	.72	16.27	4.58	104 7	38	18.3	17.5	963	5.11	2.7	1.3	1.4	13.2	22.1	.06	.17	.05	122	.37	.088	19.1	39.2	1.92	373.8	.259	<1	3.06	010	1.81	<.2	6.6	.35	<.01	16	.2	.02	12.1	15
2-AD-046	.67	13.10	3.10	77.4	27	11.4	12.2	508	3.13	1.2	1.0	1.5	13.9	15.4	03	.13	.03	70	32	.065	16.7	23 1	1 25	240.0	.182	<1	2.07	.009	1 09	<.2	2.6	.30	< 01	20	.2	.03	7.2	15
2-AD-047	.91	19.95	4.87	71.8	88	13.9	12.5	541	3.24	2.3	1.6	4 3	12.9	20.4	.07	20	.02	75	.35	.073	25.7	27.3	1 13	294.1	.167	1	2 11	.010	.92	< 2	3.8	.28	.01	29	.2	.06	7.4	15
2-AD-048	1.26	20 68	5.71	93.2	76	13.3	14.0	755	4 20	2.0	1.5	4 2	17.0	17.5	.05	.18	.06	90	.35	.058	30.6	31.9	1 55	226.5	.194	1	2.68	.008	1.33	.4	4.8	.43	< 01	97	.3	.03	9 9	15
2-MF-001	1.77	21.09	10.41	55.4	83	26.7	7.7	283	2.50	8.5	.7	2.8	2.9	13.5	.18	.40	.18	68	.15	.060	10.4	38.9	.49	199.6	.073	1	1.43	.006	.07	.2	2.6	.08	<.01	26	.5	.05	5.9	15
2-MF-002	1.54	23.30	10.29	66.1	48	32.5	11.4	345	3.19	13.0	.5	3.8	2.7	12.1	.19	.61	.18	89	.13	074	10.4	48.0	.69	207.8	.085	1	1.93	.008	.09	.2	3.1	.10	.01	13	.4	.04	6.8	15
2-MF-004	2.61	69.46	6.52	120.5	80	160.5	22.3	570	4.64	6.1	.6	1.3	4.1	14.2	.19	.27	.10	172	.33	.112	11.7	219.2	2.16	581.3	.216	1	3 15	.009	.56	<.2	6.3	.24	<.01	21	.7	.06	11.2	15
2-MF-006	1.74	33.26	9.85	58.7	73	34.7	10.5	307	2.69	8.1	1.2	3.0	4.2	14.0	.12	.42	.18	75	.17	.048	13.0	51.0	.65	343 8	.082	2	1.84	.008	.06	<.2	3.7	.10	<.01	41	.6	.07	5.9	15
2-MF-007	1.59	35.49	9.42	66.2	142	39.7	11.2	407	2.70	7.6	1.0	3.6	4.3	13.7	.17	.45	.17	74	.16	.046	13.4	48.9	.66	420.5	.077	1	1.86	007	.09	<.2	3 2	.09	<.01	28	.4	05	5.6	15
2-MF-008	1.71	31.78	10.30	55.8	151	35.1	8.0	241	2.65	6.2	.8	4.3	2.5	14.2	.19	30	.18	88	.18	.044	12.4	57.4	.65	392.0	.093	1	1 76	.007	.16	< 2	3.2	.12	.01	28	.4	.06	7.7	15
2-MF-010	1.88	68.12	6.94	82.3	70	83.6	20.2	603	4.19	5.8	.5	2.9	3.4	19.8	.13	.26	.10	122	33	091	10.0	115.7	1 29	522.6	.167	1	2.88	.009	.55	<.2	4.9	.19	<.01	11	.7	.06	9.4	15
RE 2-MF-010	1.83	67.27	7.63	80.9	78	81.5	20.4	584	4.14	5.9	.5	6 2	3 3	19.1	.14	.27	.11	120	.32	089	9.7	114.1	1.26	519.3	.165	1	2.74	008	.55	<.2	4 9	.19	.01	19	7	.06	9.2	15
2-MF-011	1.02	30.56	9.16	55.6	48	31.3	11.0	324	2.91	7.8	.7	2 3	3 5	14.9	.10	.36	.14	86	.20	.051	11.4	52 6	.74	355 1	107	1	1.95	007	24	<.2	3.0	13	< 01	32	.4	06	7.1	15
2-MF-012	1.15	29.69	8.28	57.5	68	29.4	9.3	294	2.67	6.6	.5	1.6	2.6	12.7	.13	.30	.14	84	.16	.047	11 4	51.2	.68	376 4	.106	1	1 86	009	.20	<.2	2 7	12	<.01	25	.3	.03	6.7	15
2-MF-013	.88	25.16	9.24	56.4	30	24.2	10.1	293	2.64	8.3	.8	3.3	3.2	14.2	.07	.49	.16	63	.16	.040	11.3	39 2	.55	235.7	.073	2	1.78	.009	.05	<.2	2.9	.08	<.01	34	.4	.05	5 1	15
2-MF-014	.91	18.18	8.79	41.5	57	17.0	5.7	161	2.04	6.4	.6	1.5	.4	11 7	09	.33	.16	60	.13	.061	9.7	30.4	.39	182.7	.048	1	1.37	.007	.05	<.2	1.5	.08	.01	31	.4	.05	5.5	15
2-MF-015	.88	16.12	9.26	48.0	22	23.2	6.5	166	2.39	7.7	.6	3.3	1.8	11.9	.08	.36	.16	64	.16	.046	10.4	39.9	.51	200.4	.061	1	1.53	.006	.05	<.2	2 2	.08	< 01	25	.4	02	5.6	15
2-MF-016	.96	26.85	10.07	54.5	115	26.6	11.8	298	2 65	9.9	1.0	3.4	4.6	12.0	.19	.55	.17	63	.11	.029	13 5	36.0	.56	289.0	.070	1	1.87	010	.05	.2	3.7	.09	<.01	47	.4	.04	5.0	15
2-MF-017	.78	17.11	9.68	42.7	32	18.5	6.1	163	2.07	7.0	.6	2.3	2.8	11.3	.11	32	.17	60	.13	.042	10 7	33.5	.47	186 5	.069	<1	1.47	.006	.06	.2	2.4	.08	< 01	28	.5	03	5.7	15
2-MF-018	2.16	28.52	4.85	103.1	102	13.1	21.9	1185	5.01	2.4	.6	.3	3.3	66.6	.14	.12	.06	124	.74	.092	4 0	28.0	2.04	1059.3	.238	1	2.94	010	1.17	<.2	3.6	.27	.01	19	.5	< 02	9.0	15
2-MF-019	3.23	23.56	11.55	174.5	75	12.1	13.0	680	4.87	9.5	.3	16.4	2.7	13.8	.27	.36	.14	119	25	.105	5.2	24.0	1.37	329.0	.226	1	2.44	.007	.72	.2	3 1	.20	.01	19	7	.04	9.0	15
2-MF-020	1.56	15.91	8.90	65.4	115	12.3	8.6	355	3 04	6.4	.6	1.9	3.5	21.5	.10	.30	.5	73	.35	.054	13.8	20.9	.79	470.2	.132	1	1.83	.010	.26	.2	2.9	.11	.01	5	.4	.02	6.1	15
2-MF-021	.98	19.51	6.92	60.7	117	18.2	9.2	467	2.32	6.8	.7	3.6	2.5	31.1	.22	.39	.3	54	.67	.068	10.8	24.4	.57	372.6	.070	1	1.39	.012	.08	.2	2.8	06	.03	32	.5	.04	4.3	15
STANDARD DS2	14.04	124.22	33.01	149.9	270	33.9	11.3	797	2.96	57.5	19.2	194.0	3.5	26.5	10.73	.0.04	10.88	74	.49	.090	15 1	151.1	.57	158.2	.086	1	1.60	029	.15	7.6	2.9	1.79	02	234	2.4	1.91	5.7	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Aurum Geological Consultants Inc. FILE # A003230

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	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample gm
2-MF-022	1.08	20.03	8.68	60.3	85	18.8	9.7	355	3.19	7.5	.5	5.6	3.1	17.6	.08	.52	.14	71	.21	.026	9.4	29.1	.72	358.2	.105	1	1.98	.008	.15	.2	2.8	.07	.01	12	.3	.03	6.0	15
2-MF-023	1.26	34.18	6.93	68.0	243	20.2	11.2	543	3.03	7.1	1.5	10.5	5.8	26.3	.23	.39	.12	61	.43	.080	34.1	25.0	.75	635.5	.101	1	1.69	.013	.22	.2	4.5	.10	.01	58	.6	<.02	5.2	15
2-MF-024	2.12	23.16	8.94	75.2	296	17.8	11.2	579	2.86	10.2	1.1	1.9	2.7	29.4	.33	.24	.13	80	.53	.099	12.8	26.4	.74	479.3	.081	1	1.53	.009	.13	.2	3.2	.09	.02	38	.8	.02	5.3	15
2-MF-025	1.90	19.97	8.45	68.2	241	17.8	9.3	738	2.90	7.3	.4	1.6	3.2	22.4	.42	.42	.15	70	.30	.049	8.2	23.6	.67	386.9	.087	1	1.54	.008	.22	.2	2.5	.09	.02	15	.5	.03	5.5	15
2-MF-026	.84	29.92	5.91	67.3	28	18.5	16.6	781	4.13	6.3	.4	2.2	6.6	18.2	.05	.45	.09	93	.24	.029	16.0	24.3	1.42	297.8	.200	1	2.42	.007	.82	<.2	3.3	.21	.01	13	.4	.02	6.9	15
2-MF-027	1.00	26.70	2.97	84.8	24	12.1	22.2	848	5.52	3.1	.5	.2	6.1	18.8	.04	.30	.15	115	.30	.046	4.8	15.0	1.92	381.3	.220	1	3.00	.006	1.43	< 2	3.7	.29	.02	45	.4	<.02	8.5	15
2-MF-028	1.34	21.11	7.49	49.6	183	18.4	11.2	741	2.68	7.3	.8	3.4	6.4	29.9	.13	.45	.13	60	.45	.037	34.1	22.5	.63	368.8	.087	1	1.55	.010	.17	.2	3.8	.08	.02	45	.4	.03	5.1	15
2-MF-029	1.21	17.47	9.10	61.0	66	16.4	11.9	528	3.00	8.3	.5	4.3	4.6	21.4	.17	.48	.16	66	.40	.038	11.8	24.4	.70	252.7	.095	1	1.72	.010	.16	.2	2.7	.08	.02	27	.4	.07	5.3	15
2-MF-030	.84	15.99	7.15	51.2	85	14.0	10.6	472	2.56	5.6	.7	3.1	4.8	25.1	.13	.34	.12	60	.53	.052	16.2	22.1	.65	264.7	.094	1	1.41	.011	.15	.2	3.1	.07	.02	27	.4	.03	4.5	15
2-MF-031	1.12	28.83	8.19	75.8	128	21.2	8.8	392	2.18	4.2	2.0	6.0	3.6	39.8	.57	.48	.12	50	1.21	.076	15.9	18.7	.52	300.9	.051	2	1.08	.011	.09	.2	2.9	.06	.05	56	1.1	.03	3.4	15
2-MF-032	.98	18.26	8.33	52.5	38	21.5	8.7	271	2.47	7.3	.5	2.8	3.9	25.4	.13	.57	.14	61	.38	.051	12.1	29.0	.56	276.3	.074	1	1.47	.014	.06	.2	2.8	.06	<.01	31	.4	.03	4.6	15
2-MF-033	1.01	24.28	8.41	58.2	82	20.1	9.3	433	2.52	6.6	.5	5.0	4.6	34.6	.23	.58	.14	55	.57	.064	16.2	24.8	.59	350.3	.069	1	1.40	.018	.09	.2	3.3	.07	.02	45	.6	.02	4.4	15
2-MF-034	1.02	29.86	8.61	65.7	137	24.5	9.0	398	2.51	7.6	.6	4.0	4.1	33.4	.18	.70	.15	55	.53	.062	13.6	27.8	.59	339.8	.077	1	1.39	.020	.06	.2	3.3	.06	.01	42	.5	.04	4.3	15
2-MF-035	.94	30.50	9.00	69.5	64	26.4	9.5	460	2.44	7.9	.5	4.0	3.6	54.4	.28	.79	.15	53	1.84	.077	12.7	25.7	.89	425.4	.079	2	1.21	.025	.10	.2	2.8	.07	.02	30	.3	.08	3.6	15
2-MF-036	.79	30.28	8.82	64.5	125	26.4	9.0	413	2.49	7.8	.6	6.6	3.6	41.2	.29	.69	.16	55	.99	.070	13.4	26.6	.69	394.3	.079	2	1.36	.023	.09	.2	3.2	.05	.01	26	.4	.03	4.2	15
2-MF-037	1.52	31.93	7.53	58.4	90	24.7	12.1	664	2.81	5.3	2.9	3.4	7.5	50.4	.13	.53	.12	57	.59	.049	25.4	24.5	.72	251.4	.110	2	1.66	.012	.38	.2	3.3	.12	.02	48	.8	.03	5.0	15
2-MF-038	.98	30.03	8.13	66.2	96	25.7	9.8	424	2.51	8.3	.5	2.5	3.9	30.0	.21	.74	.15	57	.56	.079	12.9	27.6	.65	340.4	.080	2	1.26	.019	.09	.2	3.1	.07	.01	34	.3	.04	4.0	15
2-MF-039	.90	29.38	7.96	61.5	76	26.8	9.7	446	2.45	8.1	.4	2.8	3.9	31.9	.18	.68	.14	57	.65	.080	12.9	28.7	.67	295.3	.085	2	1.26	.022	.09	.2	3.2	.06	<.01	29	.3	.06	3.9	15
2-MF-040	.79	19.20	6.72	52.9	67	16.9	6.7	298	1.98	5.9	.6	2.1	2.8	31.4	.23	.54	.11	46	.60	.074	11.0	20.5	.47	273.3	.064	2	1.05	.016	.05	.3	2.3	.05	.02	27	.4	.02	3.2	15
2-MF-041	.82	23.71	9.21	61.7	89	20.2	8.1	443	2.24	5.9	.9	2.6	3.2	34.4	.17	.51	.15	57	.67	.069	12.7	25.6	.58	306.0	.080	2	1.30	.018	.07	.2	2.8	.06	.02	45	.5	.03	4.1	15
RE 2-MF-041	.84	22.51	9.06	55.6	88	18.8	8.0	433	2.17	5.7	.8	3.1	2.9	33.3	.17	.52	.15	54	.64	.067	11.9	24.8	.57	297.5	.072	2	1.23	.016	.06	.2	2.6	.06	.02	36	.5	.02	3.9	15
2-RZ-001	3.33	139.16	6.89	136.1	222	201.3	24.2	783	5.75	50.2	1.0	2.2	2.8	6.6	.25	2.23	.4	256	.15	.086	13.4	327.3	2.42	962.0	.228	1	3.09	.010	.66	<.2	10.8	.25	05	24	1.5	.17	11.4	15
2-RZ-002	2.79	166.32	9.26	142.4	152	136.9	27.0	579	6.85	23.1	.9	1.3	5.0	5.7	.23	2.42	.20	253	.08	.042	18.1	177.5	1.62	647.1	.227	2	2.99	.004	.70	<.2	10.7	.26	.01	14	2.2	.39	9.9	15
2-RZ-003	2.27	101.34	7.02	95.4	150	56.1	12.0	517	4.82	6.5	.6	2.8	3.1	19.2	.14	.53	.7	153	16	.079	13.6	114.8	1.35	696.8	.160	2	2.67	008	.41	<.2	5.7	.17	.08	25	1.2	.15	8.1	15
2-RZ-005	6.80	117.44	14.39	95.5	578	96.6	19.5	491	5.70	21.3	1.8	1.8	4.1	11.4	.22	.53	.14	178	.08	.083	14.8	106.9	1.03	358.8	.125	1	2.79	.004	.38	<.2	6.7	.23	.07	16	1.9	.37	8.6	15
2-RZ-006	3.88	90.91	7.28	85.6	203	73.2	15.4	360	4.27	8.6	.5	1.8	6.1	10.3	.18	.51	.13	165	.13	.044	16.9	100.3	1.15	505.1	.133	1	2.61	.009	.37	<.2	4.7	.17	09	19	1.0	.09	8.3	15
2-RZ-007	2.86	53.33	8.73	76.6	187	120.3	21.3	430	3.88	6.9	.5	1.8	3.6	10.7	.13	.42	.17	116	.13	.037	10.8	139.3	1.23	480.5	.128	1	2.51	.007	.19	<.2	4.6	.13	.02	25	.6	.07	7.7	15
2-RZ-008	1.73	48.45	9.42	77.7	666	65.1	17.6	306	3.81	10.6	.4	1.1	3.4	10.7	.23	.51	.17	113	.13	.036	9.4	84.5	.93	351.4	.163	2	2.43	.007	14	2	3.5	.12	.01	33	.5	.08	7.9	15
2-RZ-009	1.95	55.43	9.35	84.2	153	64.4	16.3	487	3.92	8.6	.5	1.6	4.9	10.5	.24	.47	.16	130	.09	.052	17.0	123.8	1.30	568.3	.129	1	2.75	.007	.35	< 2	5.2	.14	.07	17	.7	.09	8.1	15
2-RZ-010	1.82	31.91	11.53	61.2	71	39.8	11.4	460	3.46	14.8	.6	1.8	3.8	9.8	.18	.77	.20	95	.10	.037	10.5	64.8	.73	433.6	.094	1	2.10	.005	.13	.2	3.4	.12	.01	28	.5	.07	7.0	15
2-RZ-011	1.81	61.50	9.01	74.7	191	46.2	14.7	439	3.58	8.7	1.0	3.3	4.9	12.0	.17	.54	.17	113	.13	.043	21.4	80.1	.98	656.6	.135	1	2.25	.009	.33	.2	5.5	.17	.05	42	.7	.07	7.4	15
2-RZ-012	1.77	23.48	8.77	62.7	42	30.7	7.1	254	3.01	8.5	.6	.9	2.6	15.1	.18	.45	.19	109	.15	.030	10.9	62.9	.72	306.7	.124	1	1.81	.006	.09	.2	3.2	.12	.02	22	.5	.05	7.9	15
2-RZ-013	1.83	24.98	10.47	62.4	160	20.9	7.6	298	3.08	8.1	.7	2.3	2.5	11.9	.23	.51	.20	96	.11	.041	9.9	45.8	.53	298.6	.069	1	1.82	.007	.10	.2	2.8	.11	.04	22	.7	.05	7.0	15
STANDARD DS2	13.72	124.42	31.84	145.5	256	32.6	11.2	808	3.01	55.0	18.2	185.6	3.4	25.0	.9	10.9	9.86	10.20	.7	.47	.085	14.3	146.9	.55	139.2	.083	1	1.54	.027	.14	7.3	2.7	1.72	.02	226	2.3	1.80	5.5	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

Aurum Geological Consultants Inc. FILE # A003230

ACME ANALYTI

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	Sc ppm	Ti ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample ge
2-RZ-014	1.23	31.58	10.76	50.4	114	25.4	11.1	469	2.65	9.8	1.2	3.2	4.9	17.1	.08	.74	.18	67	.16	.027	18.2	36.7	.56	433.0	.078	<1	1.93	.011	.05	.2	5.8	.09	<.01	46	.4	.04	5.6	15
2-RZ-015	.63	23.78	22.59	53.5	140	24.4	3.1	494	2.24	7.3	.4	2.9	1.3	28.4	.24	.55	.14	47	2.10	.069	11.3	26.3	.90	271.0	.031	1	1.38	.013	.04	.2	2.4	.04	.05	75	.6	.03	3.9	15
2-RZ-016	1.15	18.82	11.30	84.4	67	18.5	12.1	460	3.35	6.1	.4	33.2	2.1	15.1	.21	.42	.13	77	.79	.073	10.8	20.3	.53	301.7	.016	1	1.88	.007	.05	.2	5.1	.07	.02	32	.3	.06	6.4	15
2-RZ-018	1.48	19.76	11.49	61.2	136	14.1	9.6	519	2.94	12.6	1.3	21.1	14.2	19.2	.12	.38	.13	55	.44	.039	42.4	20.1	.55	219.3	.092	1	1.50	.011	.25	.2	4.2	.12	.01	34	.3	.03	5.1	15
2-RZ-019	1.68	17.32	16.57	62.5	149	10.2	9.8	706	2.35	7.4	1.0	49.6	8.7	26.8	.34	.32	.12	43	.81	.051	31.6	12.5	.43	184.4	.070	1	1.11	.008	.28	.2	3.1	.12	.03	36	.5	.02	3.8	15
2-RZ-020	1.88	12.25	11.67	49.5	85	11.3	7.1	456	2.45	6.8	.5	8.8	6.8	12.3	.09	.37	.13	53	.14	.025	10.1	18.5	.41	135.5	.092	<1	1.22	.007	.25	.2	2.3	.13	.01	23	.3	.03	5.2	15
2-RZ-021	1.30	21.32	20.74	74.6	76	16.8	9.5	603	3.68	5.9	1.0	14.3	17.5	21.4	.14	.42	.11	58	.30	.050	29.5	20.7	.73	233.4	.134	<1	1.55	.014	.47	.2	5.8	.26	.01	37	.3	.04	6.2	15
2-RZ-022	3.08	28.04	12.15	71.9	118	22.1	8.8	549	3.83	10.2	2.3	21.6	17.9	22.1	.11	.48	.17	55	.36	.050	73.1	33.2	.55	189.0	.079	<1	1.66	.012	.22	.2	5.7	.13	.01	87	.4	.04	5.6	15
2-RZ-023	1.97	25.37	12.96	69.3	137	16.9	8.5	526	2.91	7.3	1.5	53.0	19.2	21.0	.10	.45	.12	51	.36	.054	41.5	21.0	.58	248.8	.094	<1	1.53	.012	.34	.2	4.8	.14	.01	48	.3	.04	5.4	15
2-RZ-024	2.95	17.03	9.93	55.6	100	9.5	9.6	678	2.48	4.8	1.3	7.7	8.8	31.4	.18	.28	.13	50	.75	.054	31.4	13.2	.54	216.0	.084	1	1.26	.010	.34	.2	3.9	.15	.04	43	.5	.04	4.5	15
2-RZ-025	1.19	15.73	8.25	63.9	50	14.0	11.2	591	3.35	5.9	.8	6.5	13.3	19.8	.07	.35	.11	59	.31	.042	19.8	20.4	.73	219.9	.131	<1	1.69	.012	.45	.2	3.7	.18	.01	19	.3	.04	6.1	15
2-RZ-026	1.10	15.35	6.86	86.8	15	11.1	14.3	844	3.94	4.3	1.4	1.3	22.5	16.6	.06	.33	.06	63	.20	.047	41.7	16.0	1.03	193.7	.178	<1	2.22	.008	.89	.2	5.2	.39	.01	16	.4	.04	8.1	15
2-RZ-027	.74	15.71	6.72	90.4	21	11.5	13.7	797	3.39	3.8	.8	3.6	20.3	18.4	.04	.32	.07	66	.23	.046	31.6	16.3	1.09	258.5	.207	<1	2.22	.009	.92	.2	4.2	.38	.01	24	.3	.04	8.0	15
2-RZ-028	.98	23.53	9.06	59.7	71	20.0	10.0	527	2.75	6.7	.5	3.0	7.3	27.8	.08	.52	.13	58	.47	.061	21.8	24.4	.62	289.8	.094	<1	1.51	.017	.20	.2	4.1	.10	.01	43	.3	.03	4.9	15
2-RZ-029	1.12	13.90	6.81	79.6	29	10.9	10.9	584	3.41	4.3	.6	11.0	12.4	15.3	.09	.36	.07	57	.17	.024	12.5	13.3	.93	138.2	.163	<1	2.69	.007	.74	<.2	2.5	.27	.02	19	.3	.05	6.8	15
2-RZ-030	1.14	50.09	8.36	61.4	146	19.2	9.7	479	2.54	6.3	1.0	4.7	5.3	37.1	.19	.59	.26	55	.72	.060	18.8	23.6	.68	319.6	.074	<1	1.54	.012	.15	.2	3.6	.08	.03	48	.5	.02	4.9	15
2-RZ-031	1.13	21.21	7.23	53.0	41	21.2	9.4	1227	2.75	8.6	.6	18.1	4.6	22.2	.08	.58	.13	59	.32	.066	16.4	31.1	.59	287.3	.094	1	1.35	.018	.10	.3	4.2	.07	.01	34	.4	.08	4.0	15
2-RZ-032	1.47	41.08	8.39	69.9	148	37.7	11.9	288	2.54	4.7	1.0	4.1	5.0	20.3	.22	.26	.17	75	.34	.086	28.3	54.7	.79	415.4	.084	1	1.40	.009	.20	.2	3.7	.12	.02	27	.6	.09	6.0	15
2-RZ-033	1.66	34.51	7.94	63.4	220	35.8	10.2	303	2.35	4.6	1.0	4.2	3.1	20.1	.27	.23	.16	70	.31	.069	18.4	54.6	.73	450.3	.077	<1	1.52	.007	.11	.2	3.2	.09	.02	33	.5	.07	6.1	15
2-RZ-034	3.39	106.70	5.36	146.5	110	228.7	31.1	1023	4.74	2.9	1.7	1.4	4.6	32.2	.33	.22	.11	155	.82	.230	27.3	245.6	2.24	1293.9	.189	<1	2.70	.011	.89	<.2	8.3	.26	.01	19	1.1	.12	10.1	15
2-RZ-035	2.12	35.90	7.97	74.6	119	59.6	11.4	383	2.94	5.3	.8	1.9	3.7	15.8	.11	.23	.14	96	.32	.074	14.7	103.0	1.13	540.3	.140	1	1.91	.009	.29	.2	3.9	.13	.02	19	.5	.08	8.1	15
2-RZ-036	1.60	48.29	8.01	71.0	329	57.8	12.6	368	2.56	4.5	2.0	3.4	4.1	28.3	.28	.28	.15	76	.52	.084	25.4	71.4	.90	578.1	.089	1	1.78	.009	.19	.2	4.4	.11	.03	46	.8	.08	6.5	15
RE 2-RZ-036	1.57	48.77	8.16	72.1	348	59.0	12.6	376	2.58	4.6	2.0	39.6	4.1	28.1	.29	.27	.15	76	.53	.082	24.8	71.9	.91	588.1	.090	<1	1.78	.009	.19	.2	4.5	.11	.04	41	.8	.05	6.5	15
2-RZ-037	1.52	44.16	6.97	66.6	460	49.7	9.5	296	2.32	4.7	2.2	3.9	3.5	31.2	.33	.22	.14	69	.59	.085	23.6	70.9	.88	679.9	.086	1	1.52	.008	.21	.2	4.2	.11	.04	49	.9	.08	6.1	15
2-RZ-038	2.55	85.60	8.89	135.0	148	170.8	21.9	853	4.97	11.7	.8	1.6	4.1	25.6	.25	1.11	.16	165	.47	.105	12.8	270.9	2.55	892.7	.198	<1	3.12	.009	.71	<.2	8.4	.23	.01	12	.6	.10	13.2	15
2-RZ-039	1.92	38.23	7.73	75.4	112	52.3	12.3	451	3.13	10.5	.6	2.8	3.3	14.9	.14	.42	.12	95	.25	.061	10.4	86.3	1.01	298.9	.113	<1	1.77	.008	.14	<.2	3.7	.09	.02	14	.6	.07	7.0	15
2-RZ-040	2.53	39.24	8.62	85.5	98	47.8	12.8	548	3.50	7.7	.7	2.5	3.3	13.4	.22	.37	.16	117	.14	.062	12.9	76.8	.92	361.8	.127	1	1.36	.010	.25	.2	3.6	.12	.06	16	.7	.07	8.1	15
2-RZ-041	1.83	46.63	8.74	70.2	566	43.3	12.8	287	2.80	5.6	1.8	3.7	6.3	18.3	.15	.28	.17	81	.32	.074	34.2	67.0	.82	369.2	.088	1	1.32	.008	.16	.2	4.6	.12	.02	51	.7	.05	7.2	15
2-RZ-042	.72	78.18	8.33	56.0	798	30.1	6.3	165	1.90	6.7	1.1	3.2	2.5	11.2	.16	.36	.17	55	.27	.071	18.3	53.5	.63	281.4	.064	1	1.07	.009	.10	<.2	3.2	.09	.04	71	.6	.04	5.9	15
2-RZ-043	2.69	31.10	12.31	74.7	371	36.5	9.1	242	2.71	7.8	.8	7.1	3.7	15.6	.15	.33	.19	81	.28	.088	15.9	64.7	.82	228.2	.069	1	1.62	.008	.16	<.2	3.5	.12	.03	40	.6	.06	6.8	15
2-RZ-044	3.19	50.27	6.98	85.3	388	40.2	10.8	210	3.03	3.4	1.4	7.6	7.9	17.9	.13	.17	.20	91	.30	.087	23.4	61.5	.90	359.5	.089	<1	1.73	.008	.39	<.2	4.1	.24	.05	32	1.0	.12	7.1	15
2-RZ-045	1.80	23.80	9.34	68.7	366	26.9	6.7	178	2.15	5.6	1.0	4.5	3.8	20.4	.32	.23	.19	59	.32	.108	18.4	45.2	.62	282.4	.073	1	1.36	.008	.17	<.2	3.3	.12	.06	69	1.0	.07	5.6	15
2-RZ-046	1.50	46.37	9.72	79.3	117	48.3	14.4	458	2.95	5.8	1.1	3.4	5.1	25.2	.24	.45	.16	85	.41	.082	18.7	65.1	.83	473.6	.130	1	1.78	.013	.32	2	4.7	.13	.02	29	.5	.04	6.2	15
STANDARD DS2	14.65	126.83	34.03	153.3	264	34.4	12.2	817	3.06	58.8	19.8	204.1	3.7	26.0	10.44	9.89	11.10	72	.51	.090	15.3	155.8	.59	148.4	.067	1	1.64	.028	.15	8.1	2.9	1.88	.03	240	2.5	1.79	5.8	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

Aurum Geological Consultants Inc. FILE # A003230

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	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample gm
2-RZ-047	1.55	28.45	8.48	67.5	162	37.8	9.3	264	2.50	6.7	1.1	4.5	2.9	21.0	.20	.28	.15	72	.31	.072	14.4	65.6	.76	429.1	.093	1	1.61	.008	.11	.2	3.4	.08	.03	62	.7	.06	5.6	15
2-RZ-048	2.50	36.73	10.35	81.8	384	59.9	12.2	694	2.59	4.6	3.6	6.8	2.8	63.8	.68	.19	.14	78	.90	.115	17.1	86.0	.97	1095.7	.087	1	1.62	.010	.29	.2	4.3	.12	.10	46	2.6	.06	5.9	15
2-RZ-049	1.49	31.18	6.59	56.7	121	36.6	10.9	299	2.70	4.7	1.0	2.8	5.1	36.6	.12	.30	.13	73	.53	.084	18.0	51.3	.73	394.9	.086	1	1.65	.011	.23	.2	4.0	.09	.03	25	1.0	.06	5.5	15
2-RZ-050	1.16	26.84	8.21	53.9	405	28.8	6.9	203	2.12	4.6	1.1	17.4	2.6	24.4	.20	.24	.15	63	.32	.051	16.9	49.1	.64	472.8	.084	1	1.56	.009	.09	.2	3.5	.07	.01	54	.4	.04	5.7	15
2-RZ-051	1.51	51.82	9.59	76.4	76	52.3	12.8	340	3.07	5.9	1.9	2.8	5.0	29.0	.09	.42	.15	96	.40	.064	20.7	84.7	1.00	630.6	.116	1	2.01	.011	.13	.2	5.3	.10	<.01	37	.9	.08	7.2	15
2-RZ-052	1.77	63.69	9.25	114.0	239	68.9	14.2	449	3.45	4.4	1.9	21.6	6.1	25.4	.21	.28	.15	125	.34	.088	31.3	118.3	1.34	732.7	.165	<1	2.37	.010	.52	.2	5.8	.21	.03	17	.8	.11	8.8	15
2-RZ-053	1.63	51.06	8.77	114.4	58	73.4	14.3	436	3.80	6.8	1.0	1.2	4.4	17.8	.17	.39	.15	117	.25	.061	14.3	112.9	1.25	517.9	.164	1	2.57	.010	.44	.2	4.7	.20	<.01	16	.6	.10	8.5	15
2-RZ-054	2.17	40.97	9.06	69.5	92	35.5	11.2	370	2.64	4.9	1.3	4.1	5.2	19.8	.13	.38	.18	72	.28	.055	18.3	50.5	.71	393.0	.108	1	1.65	.008	.19	.2	3.6	.12	.02	14	.5	.12	5.7	15
2-RZ-055	1.93	35.28	9.36	63.6	99	32.8	12.7	495	2.90	6.9	1.1	4.1	4.1	21.0	.09	.41	.13	79	.24	.037	15.5	49.0	.70	380.2	.108	1	1.95	.009	.12	.2	3.7	.10	<.01	26	.3	.09	6.7	15
2-RZ-056	1.98	33.12	8.81	67.0	88	32.7	11.0	300	2.71	5.1	1.1	5.7	4.2	22.7	.13	.34	.16	78	.28	.058	17.5	51.7	.80	351.3	.117	1	1.85	.009	.13	.2	3.6	.09	.01	14	.4	.07	6.6	15
RE 2-RZ-056	1.90	32.86	8.41	65.4	88	32.4	10.7	293	2.65	5.0	1.0	2.1	4.1	22.1	.14	.33	.15	77	.28	.058	16.5	49.2	.77	345.0	.117	<1	1.82	.009	.14	.2	3.5	.09	.01	17	.3	.06	6.5	15
2-RZ-057	1.01	38.76	9.00	65.6	116	27.7	9.8	457	2.25	7.9	.7	4.0	3.7	58.1	.29	.80	.16	50	1.59	.080	12.9	28.1	.83	366.5	.077	2	1.20	.027	.09	.2	2.8	.07	.03	27	.5	.06	3.8	15
2-RZ-058	1.59	27.08	9.74	60.8	206	26.0	9.9	369	2.39	6.4	1.1	13.7	2.6	27.7	.22	.36	.16	60	.38	.069	15.1	36.9	.56	433.4	.069	1	1.50	.011	.07	.2	3.3	.06	.03	38	.6	.07	5.2	15
2-RZ 059	.95	25.02	8.58	67.9	127	20.6	10.6	424	2.62	6.3	1.1	5.0	4.8	29.9	.15	.50	.26	63	.40	.057	19.3	32.1	.74	382.0	.103	1	1.78	.013	.22	.2	3.5	.12	.02	34	.5	.07	5.7	15
2-RZ 063	.73	29.70	8.10	55.7	67	26.4	9.8	399	2.39	7.9	.8	5.2	4.3	26.8	.06	.65	.14	56	.35	.081	16.8	31.2	.58	273.0	.080	1	1.36	.011	.06	.2	3.5	.08	.01	24	.3	.02	4.3	15
2-RZ 065	.61	74.45	2.88	52.2	27	22.3	20.7	544	3.25	2.5	.9	1.8	1.5	48.0	.08	.25	.12	72	.75	.201	6.1	31.3	1.19	257.2	.081	<1	2.02	.019	.14	<.2	6.9	.07	<.01	27	.2	.03	6.4	15
STANDARD DS2	13.71	121.99	31.48	153.3	265	33.7	11.3	808	2.99	54.0	18.5	219.7	3.6	28.8	10.08	9.96	10.25	74	.53	.085	16.3	163.9	.58	148.4	.099	2	.73	.031	.16	7.1	3.0	1.81	.03	226	2.2	1.74	5.9	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA