

830449

REPORT ON
PROSPECTING AND GEOCHEMISTRY
ON THE
FINE I, II, III, IV CLAIMS

OMINECA MINING DIVISION

NTS: 94E/7

LATITUDE: 57°20'N

LONGITUDE: 126°45'E

FOR

TOODOGGONE GOLD INC.

590 - 789 W Pender Street
Vancouver, B.C.
V6C 1H2

BY

David St. Clair Dunn, F.G.A.C.
Tecucomp Geological Inc.
270 - 11751 Bridgeport Road
Richmond, B.C. V6X 1T5

March 31, 1989

SUMMARY:

Tecucomp Geological Inc., was commissioned by E. Hemingson, President of Toodoggone Gold Inc., to evaluate Toodoggone's six properties in the Toodoggone area of northern British Columbia. Of the six properties, further work was recommended on two of them (Dunn, D. St. C., and Wares, R., 1988). The **Fine** claims are the more advanced of these two claim blocks and are the subject of this report.

Previous work consisted of regional airborne geophysical surveys (Pezzot, 1987) and follow-up geological mapping, rock and soil sampling (Bekdache, 1987). Ten soil samples and eight rock samples with anomalous values in gold were taken. One soil sample returned a value of 1150 ppb gold. Work in 1988 focussed on the area of this sample.

A soil grid centered on the 1150 ppb 1987 soil sample was laid out. Five 250 metre lines with 50 metre line intervals were sampled at 25 metre sample intervals. This work outlined a 50 m x 250 m zone anomalous in gold, silver, lead, and arsenic in soil with a halo of anomalous barium values in soil. This zone trends at a narrow angle to the slope and is not solely due to down-slope dispersion. Gold values were up to 980 ppb. An attempt to trench this zone using explosives and hand tools excavated 30 cubic metres of overburden, but did not reach bedrock.

Regional mapping indicates that the zone of interest is at the junction of two major faults.

A sulphidic silicified shear zone in andesite is exposed on the ridge above the soil anomaly. This shear zone strikes northwesterly and dips vertically or steeply northeast. No values of economic interest were returned from 19 rock samples taken on and near the shear. Surface oxidation in the shear is intense. Precious metals values may have been leached out.

A \$75,430 program of trenching, detailed soil sampling, and mapping is recommended. Contingent upon the results of this program, diamond drilling might be warranted.

TABLE OF CONTENTS	PAGE
A. INTRODUCTION	1
B. LOCATION AND ACCESS	1
C. HISTORY	1-2
D. CLAIM STATUS	2
E. REGIONAL GEOLOGY	2-4
F. 1988 EXPLORATION PROGRAM	5-6
G. CONCLUSIONS	6
H. RECOMMENDATIONS - ESTIMATED COST	7-8
I. BIBLIOGRAPHY	9-10

LIST OF APPENDICES

- APPENDIX A - Statement of Qualifications
- APPENDIX B - Assay Results
- APPENDIX C - Sampling Methodology
- APPENDIX D - Analytical Methods
- APPENDIX E - Rock Sample Descriptions

LIST OF FIGURES

- FIGURE 1 - General Location After Page 1
- FIGURE 2 - Claim Location After Page 1
- FIGURE 3 - Summary of Past Work After Page 2
- FIGURE 4 - 1988 Stream Sediment Survey After Page 6
- FIGURE 5 - 1988 Soil Geochemistry
Au, Ag, Ba, Pb After Page 6
- FIGURE 6 - 1988 Soil Geochemistry
As, Zn, Cu Compilation After Page 6

LIST OF MAPS

- MAP 1 - Fine Claims Compilation Map Back Pocket

A. INTRODUCTION

Tecucomp Geological Inc. was commissioned by E. Hemingson, President of **Toodoggone Gold Inc.**, to evaluate **Toodoggone's** six properties in the Toodoggone area of northern B.C. (see Figure 1). The target of this work was epithermal precious metals deposits. There is one producing gold mine, Cheni Gold Corp.'s Lawyer's Mine and one past producer, Dupont's Baker Mine, in the area. Three other gold properties in the area have major ongoing development programs (see Figure 2).

A three person crew was mobilized to the Sturdee strip on the 19th of September, 1988. Work on the **Fine** claims was carried out from the 22/9/88 to 25/9/88.

B. LOCATION AND ACCESS

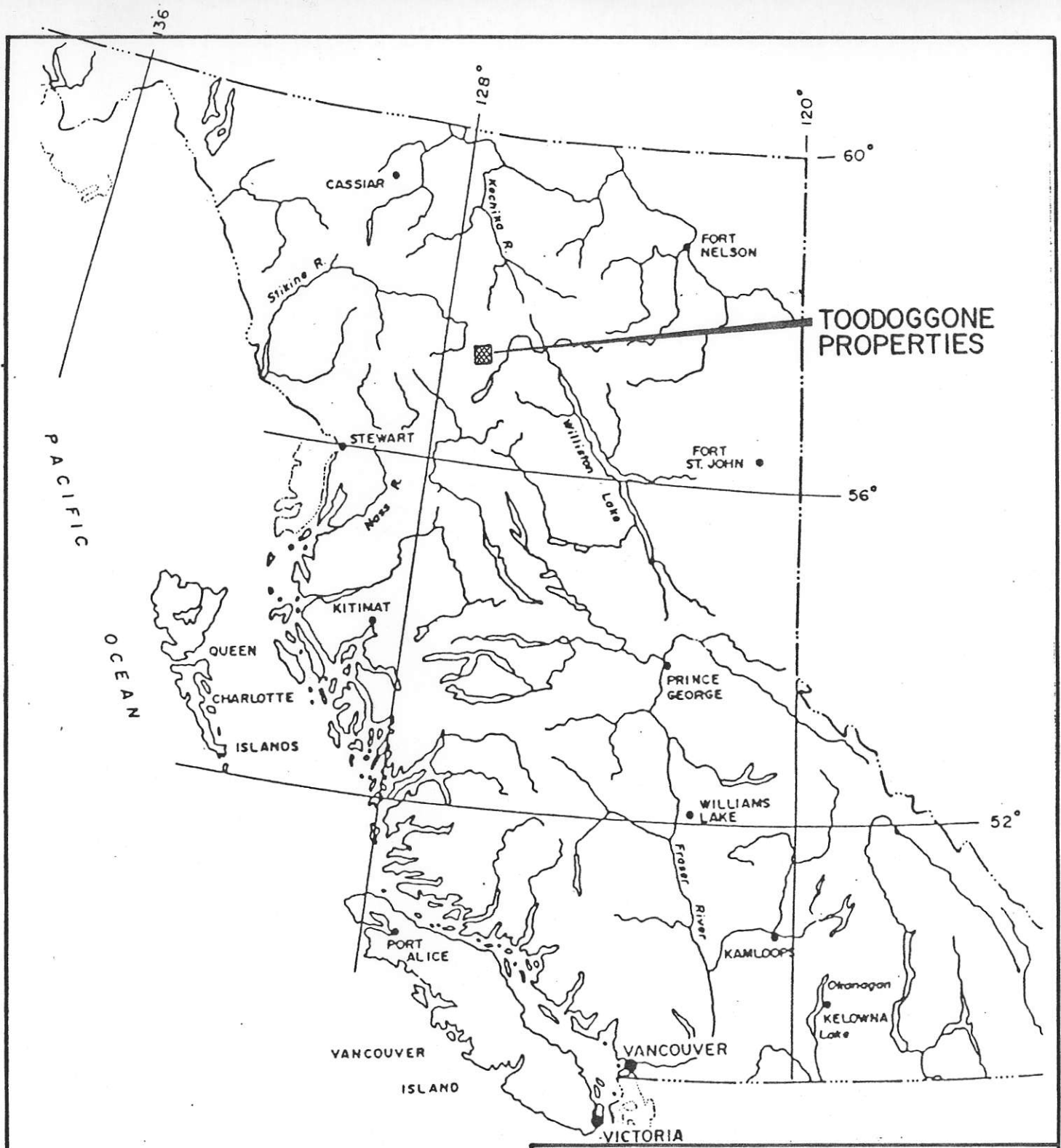
The **Fine** claims are located in the Toodoggone River area of north-central B.C., NTS 94E/7 (see Figures 1 and 2).

Access is by fixed wing aircraft from Smithers to the Sturdee Strip or, alternatively, by the Omineca mining road from MacKenzie or Ft. St. James to the Sturdee Strip. Access from Strudee Strip to the **Fine** claims is by helicopter. The nearest road access ends at the Shasta property on Jock Creek, approximately 10 km west of the property.

C. HISTORY

The Toodoggone area was prospected and tested for placer gold in the 1920's and 1930's.

Gold-silver mineralization was discovered on the Chappelle (Baker Mine) property by Kennco Explorations (Western) Ltd. in 1969. Numerous other gold-silver discoveries were made in the 1970's and 1980's.



TOODOGGONE GOLD INC	
Report by D Dunn	TOODOGGONE PROPERTIES OMINECA & LIARD MINING DIVISION <h2 style="margin: 0;">LOCATION MAP</h2>
Date May 1989	
NTS 94E/	
Figure 1.	Tecucomp Geological Inc

TOODOGGONE GOLD INC

Report by
D Dunn

Date
May 1989

WTS
D-4C/

Figure
2.

TOODOGGONE PROPERTIES
OMINECA & LIARD MINING DIVISION

CLAIM MAP

Tecucomp Geological Inc

127°00'

57°30'

GACHO 3288	SUET 3286
---------------	--------------

WOLVERINE I 3271	RINE II 3605
FISHER I 3273	ER II 3607

ALBERTS
HUMP

Mets

GORD II 7476	MUL II 7464
GORD III 7477	MUL III 7465
GORD IV 7478	MUL IV 7466

Toodoggone
Lake

LAWYERS

BAKER
MINE

ELOISE
7327

JEREMY
7326

DANIEL
7325

FINE I 7468	FINE II 7469
FINE III 7470	FINE IV 7471

Shas

Black
Lake

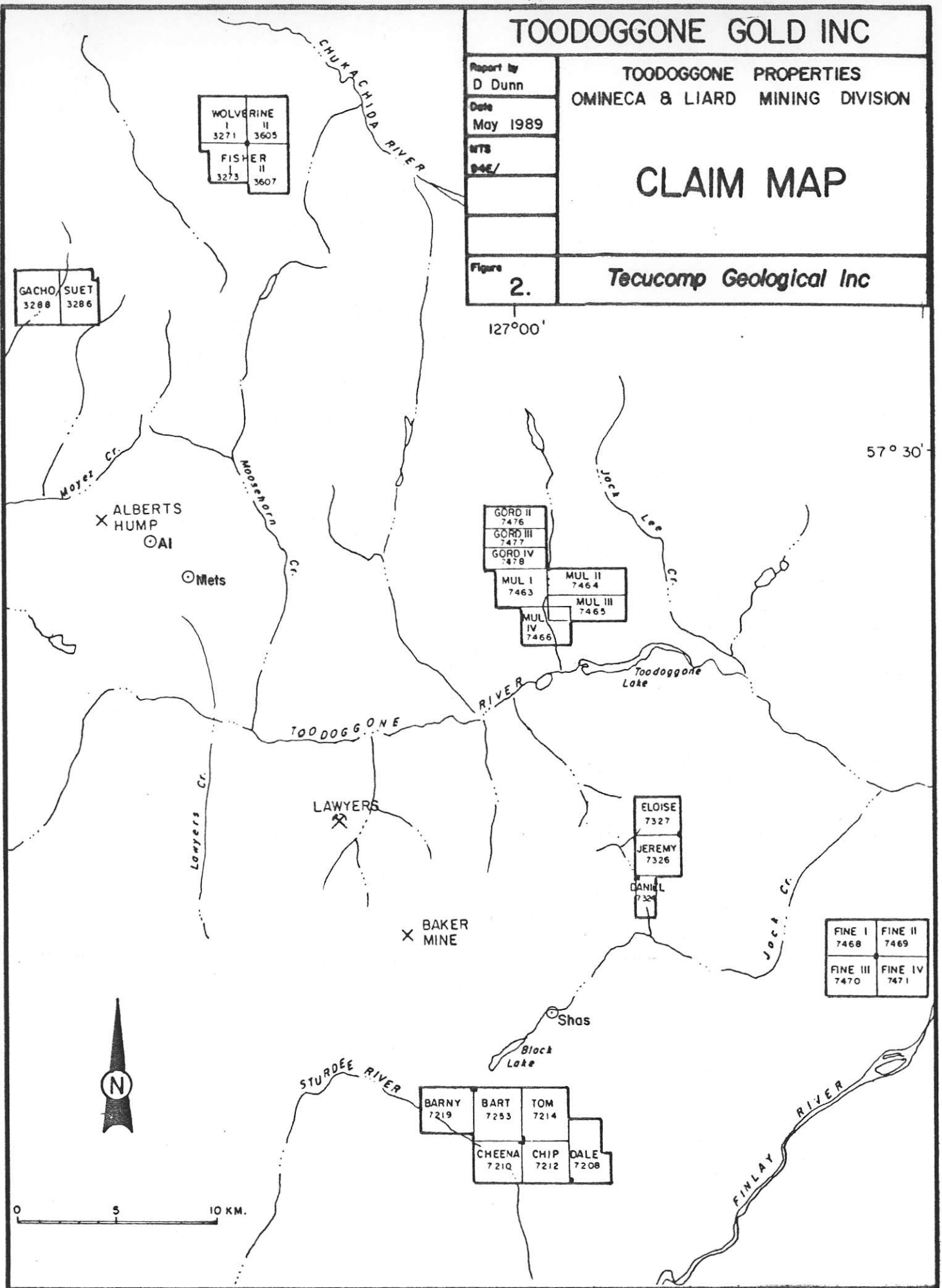
STURDEE RIVER

BARNY 7219	BART 7253	TOM 7214
CHEENA 7210	CHIP 7212	DALE 7208

FINLAY RIVER



0 5 10 KM.



The **Fine** claims were staked in 1986. Regional airborne VLF-EM and total magnetic field surveys covered the claims in 1986. Follow-up geological mapping, prospecting, and soil geochemical surveys were carried out in 1987. This work is summarized in Figure 3.

The most significant result from the 1987 work was one soil sample with a value of 1150 ppb gold. 1988 work focussed on the area of this sample.

D. CLAIM STATUS

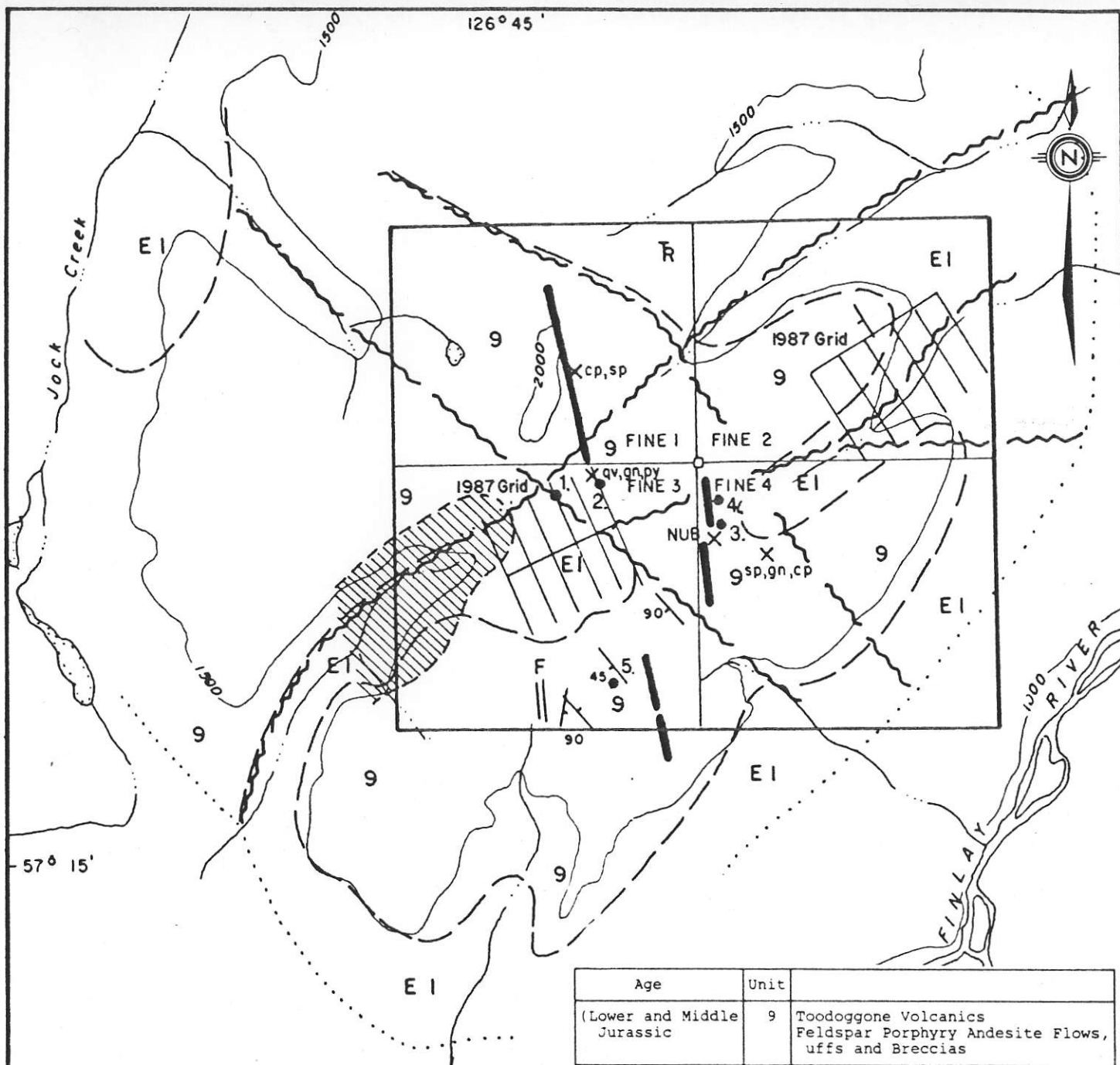
The **Fine** claims consist of four 20 unit claims with a common Legal Corner Post (see Figure 2). The registered owner of the claims is **Toodoggone Gold Inc.** Relevant claims information is listed below:

Claim Name	Record No.	Units	Record Date	Expiry Date
Fine I	7468	20	Feb.12,1986	Feb.12,1990
Fine II	7469	20	Feb.12,1986	Feb.12,1990
Fine III	7470	20	Feb.12,1986	Feb.12,1990
Fine IV	7471	20	Feb.12,1986	Feb.12,1990

E. REGIONAL GEOLOGY

The regional geology of the Toodoggone area has been described in a number of publications. (Diakow,1984, Diakow,1985, Gabrielse et al, 1976, Panteleyev, 1985, Schroeter, 1981)

Essentially, the area comprises a volcanic-sedimentary sequence from Permo-Triassic to Cretaceous in age. To the west are flat or gently dipping Sustut Group sediments of Cretaceous age, which overly the Jurassic rocks to the east (Figure 3).



● Au(ppb)/Ag(ppm)/Pb(ppm)/Zn(ppm)

1. 80/.4/63/106/305
2. 1150/70/105/5500/590
3. 500/1.3/90/36/4100
4. 509/5.8/400/29/45
5. 95/4.3/188/183/288



Magnetic Low



VLF-EM Conductor

Age	Unit	
(Lower and Middle Jurassic	9	Todoggone Volcanics Feldspar Porphyry Andesite Flows, uffs and Breccias
Lower and Middle Jurassic	E1	Granodiorite, Quartz Diorite
Upper Triassic	R	Takla Group - Augite porphyry Basalt Flows and Breccias

Geology after L.J. Diakow, A. Panteleyev & T.G. Schroeter, 1985

TOODOGGONE GOLD INC

Report by
D Dunn

Date
May 1989

NTS
94E/T

Figure
3

TOODOGGONE PROPERTIES
OMINECA MINING DIVISION

FINE CLAIMS

COMPILATION MAP

Compilation after J.P. Sorbara 1987

Tecucomp Geological Inc

The oldest units are carbonates, argillites and cherts of the Permian Asitka Group, generally in fault contact with andesites of the Triassic Takla Group.

Stratigraphically above the Takla, are Jurassic units, divided into the lower Toodoggone group and the upper Hazelton group. The Toodoggone Group consists essentially of subaerial, dacite to rhyodacite volcanic rocks and pyroclastics which unconformably overlie the Takla Group.

The Hazelton assemblage comprises volcanic conglomerates, breccias and porphyry sills and dykes. Some small intrusive centres are associated with the Hazelton Group.

The suite of intrusive rocks in the area, ranging in composition from granodiorite to quartz monzonite, are considered to be coeval with the Toodoggone volcanic group.

Major NW trending faults are present in the area. These are considered to be regional control structures for precious metals mineralization.

Focus of exploration in the area, initially on low grade copper deposits, shifted in the mid 1970's to exploration for precious metals, especially concentrated from the early 1980's onwards.

Exploration has resulted in discovery of several major and a number of smaller deposits, not all fully explored.

The major deposit is the Cheni, or Lawyers deposit, with drill indicated tonnage of 941,000 tonnes, grading 7.2 g/tonne Au. This deposit is nearing full production.

A former producer is the Baker Mine, initially discovered by Kennco, and put into production in 1980. Limited production occurred from 1980 to 1983, totalling 77,500 tonnes, grading

15 g/tonne Au. Extensions of this deposit are currently being explored. Other deposits of note are the Al property, under investigation by Energex, the Shas deposit, and the Mets deposit.

Precious metal deposits in the area have been shown to be epithermal in origin, accompanied by silicification haloes, carrying barite, breccia zones, and alteration envelopes in peripheral volcanic rocks. These are identifiable by geophysical means.

Regional mapping has shown that precious metal deposits are largely concentrated near a major NW trending fault linear, though not all deposits are located in the structure.

Deposits in the Toodoggone area have been categorized by Clark & Williams-Jones (1988) as covering a range of environments, from deep seated precious metal/base metal porphyry systems, stockworks and veins, and epithermal Au-Ag veins and breccias. Also described are near surface replacement type Au mineralization.

Exploration methods used in the area have ranged from airborne geophysical surveys to prospecting. Geochemical investigation has proved effective in the area, with follow up of data from pan concentrate samples, silt and soil surveys and trench sampling. Pan concentrate sampling has been shown to be more effective in focussing exploration effort than conventional silt sampling (Barakso, 1981)

Precious metals mineralization has been shown to carry a barium-arsenic halo peripheral to deposits.

F. 1988 EXPLORATION PROGRAM

The 1988 exploration consisted of a review of past work, a property wide stream sediment survey, ridge top prospecting, a soil geochemical survey, and trenching.

Geological mapping by B.C. Energy, Mines and Petroleum Resources personnel was carried out in 1985 (Diakow, L.J., Panteleyev, A. and Schroeter, T.G., 1985). This work shows the **Fine** claims are largely underlain by Jurassic Toodoggone Volcanics. This unit is the host for most of the known precious metals occurrences in the area. These rocks are in fault contact with Upper Triassic Takla Volcanics in the north-central part of the property. Quartz diorite to granodiorite intrusions outcrop in the southeast, northeast, and west-central parts of the property. These intrusives are Lower to Middle Jurassic and coeval with the Toodoggone Volcanics. Two sets of two major faults each trend northwest and northeast across the property (see Figure 3).

The 1986 airborne geophysics outlined three north-northwest trending conductors and a magnetic low. The conductors are near the **Fine III** and **Fine IV** boundary, in southwestern **Fine III**, and in central **Fine I**. The conductors all follow ridge tops. The conductor on the **Fine I** passes through an area of anomalous soils and is, in part, coincident with the sulphidic, silicified shear zone mapped in 1988. The magnetic low underlies a valley bottom and might reflect deep overburden (Pezzot, T. and Cukor, V., 1987).

The 1987 follow-up work returned ten soil samples and eight rock samples anomalous in gold. The highest anomaly was 1150 ppb gold in a soil. This soil sample provided the focus for the 1988 work (Bekdache, M. and Seywerd, M., 1987).

The property wide stream sediment survey in 1988 consisted of taking six paired silt-pan concentrate samples. No values of economic interest were returned from this survey (see Figure 4).

Four ridge top prospecting traverses were carried out in 1988. Twenty rock samples were taken (See Map 1). None returned values of economic interest. Intense surface oxidation was noted. Snow cover inhibited geological mapping.

A small soil geochemical grid was sampled. Five 250 metre lines were run at 105°. Line spacing was 50 metres with 25 metre sample spacing. Samples were taken from 10 cm to 20 cm depth in poorly developed "B" horizon and "C" horizon. The centre of the grid was set at the site of the 1987 soil sample which ran 1150 ppb gold.

Anomalous values were chosen based on previous geochemical experience in the area and discussions with Min-En Laboratory Ltd. personnel. The limited number of samples precluded a meaningful statistical treatment.

This survey outlined a 50 m by 250 m area of soil anomalous in gold, silver, lead, copper and zinc, trending at a narrow angle to slope (see Figures 5, 6 and Map 1).

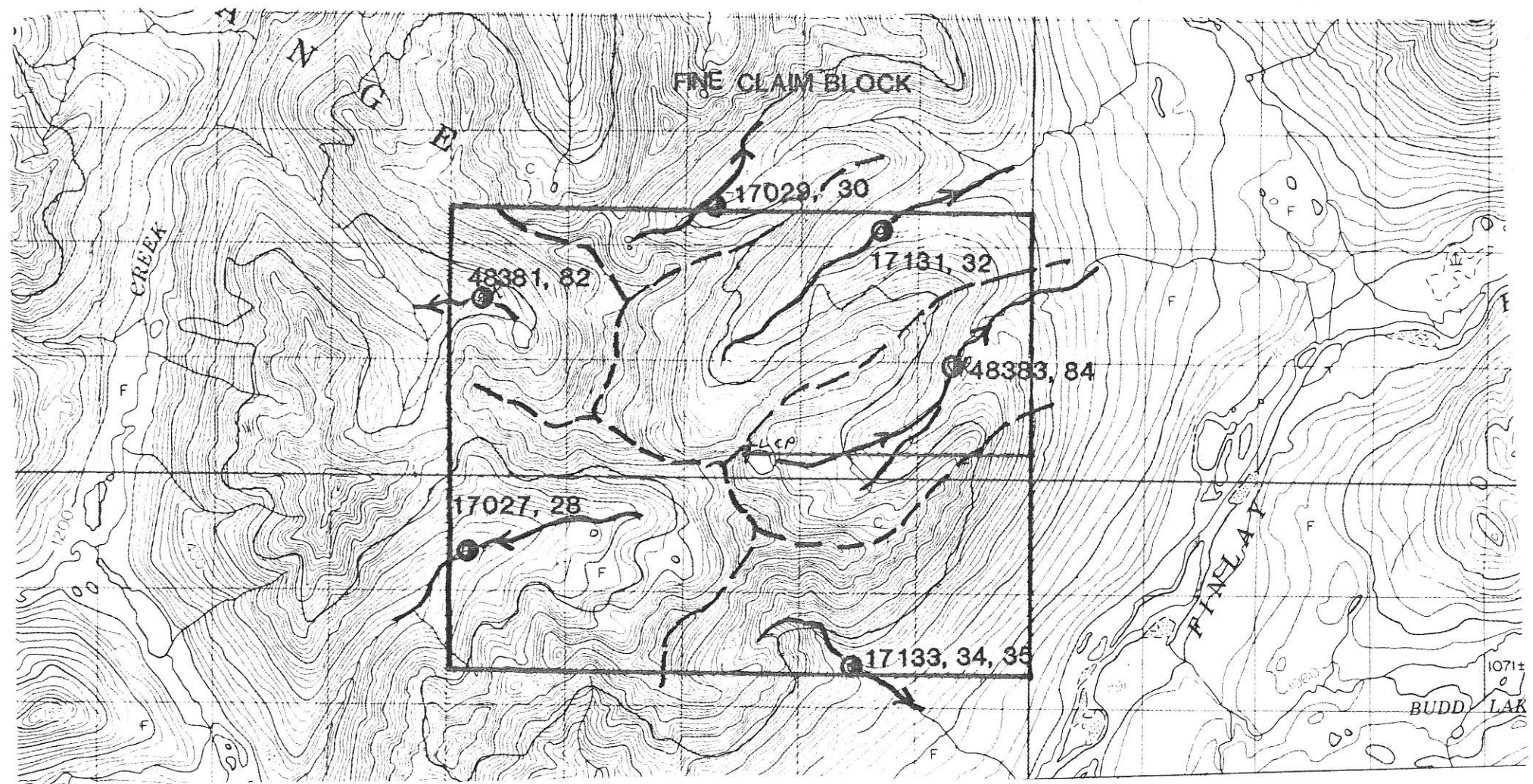
An attempt was made to trench this zone, which forms a one to two metre depression in the hillside. Approximately 30 cubic metres of overburden was removed using explosives and hand tools. Bedrock was not reached. Galena was observed in float in the trench.

G. CONCLUSIONS

An area 50 m by 250 m highly anomalous in gold and silver in soils has been outlined by soil sampling on the Fine III claim. This area is underlain by a sulphidic, silicified shear zone in

● paired silt, pan concentrate

■ rock sample



N.T.S. 94E/7

SAMPLE DATA GEOCHEMISTRY

PAN CONCENTRATES

#	Au	Ag	As	Ba	Cu	Pb	Zn
48381	5	0.8	21	108	42	28	155
48383	10	0.9	15	106	40	30	154
17131	5	0.8	6	94	8	56	181
17133	5	0.6	6	113	13	36	196
17027	5	0.9	15	338	16	56	352
17029	5	0.8	17	38	30	51	145

SILT SAMPLES

48382	5	1.2	4	196	246	214	978
48384	5	0.4	24	257	88	33	184
17132	10	1.3	4	189	54	108	201
17134	15	0.4	4	181	41	32	154
17028	10	0.3	5	240	83	68	495
17030	5	1.2	27	259	130	59	248

Au - ppb
all others - ppm

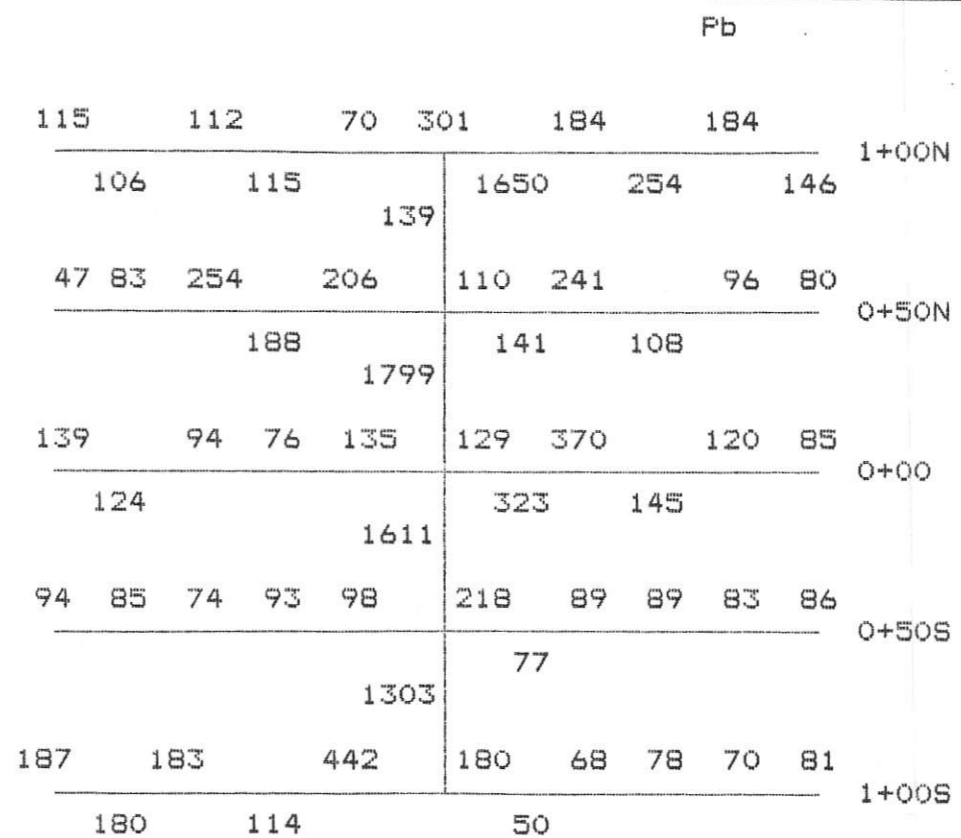
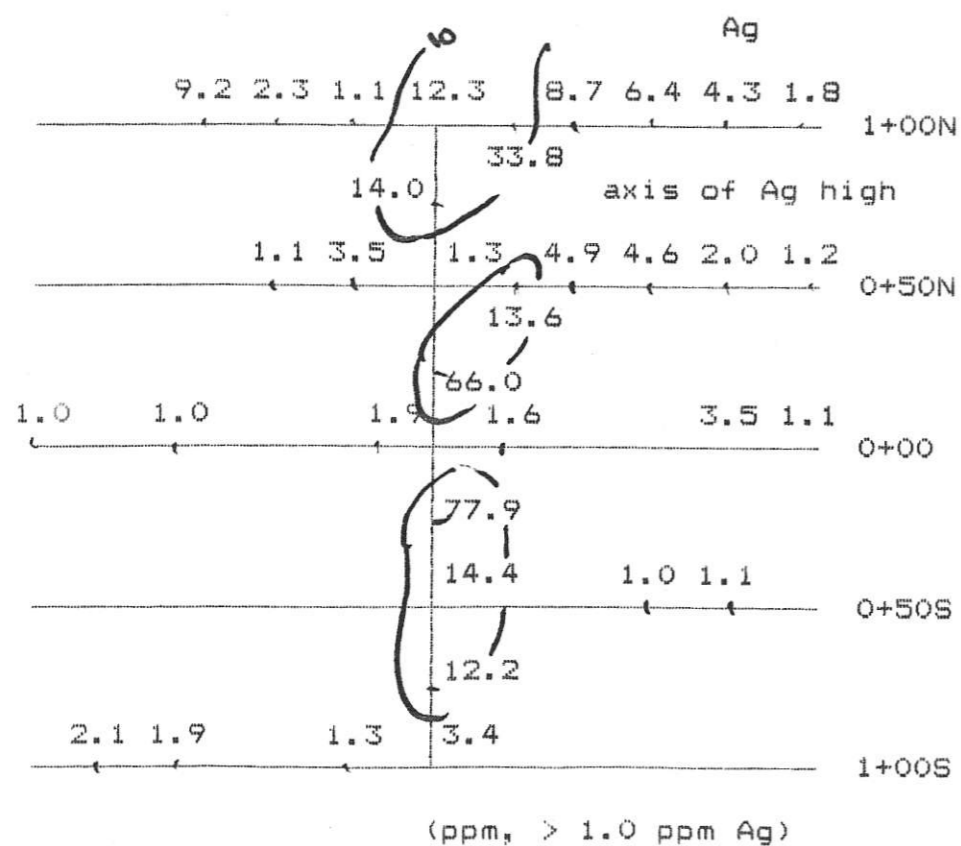
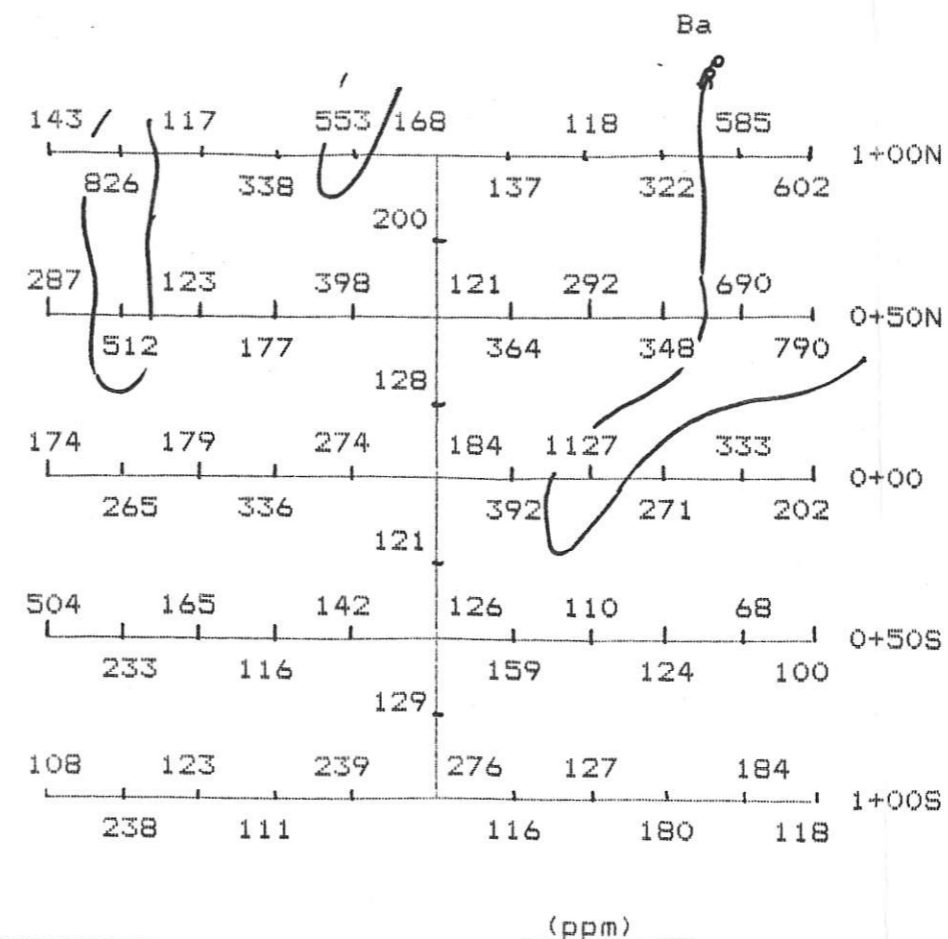
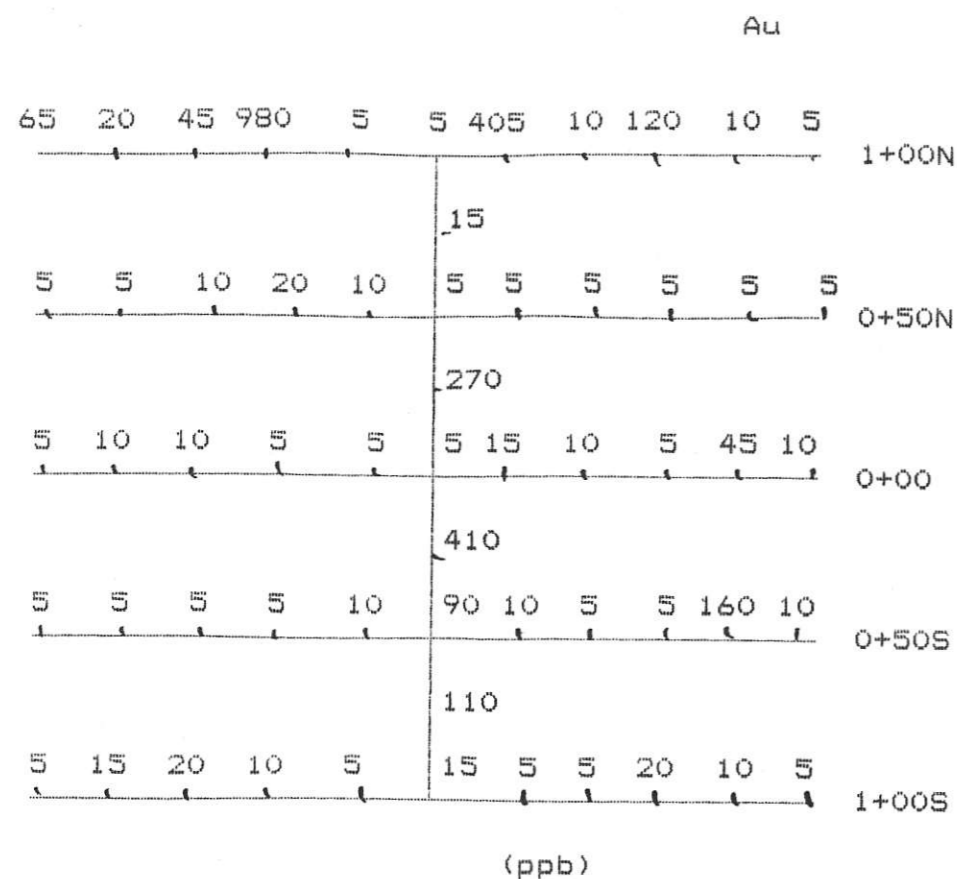
TOODOGGONE GOLD INC.

Property: Fine
Location: Toodoggone Area
Type of Map: Geochemical
Based on: Sampling
Date of Work: Sept. 1988
Date: Nov. 1988



Scale

Drawn by:



N.T.S. 94E/7

TOODOGGONE GOLD INC.

Property: Fine
 Location: Toodoggone Area
 Type of Map: Geochemical
 Based on: Sampling
 Date of Work: Sept. 1988
 Date: Nov. 1988

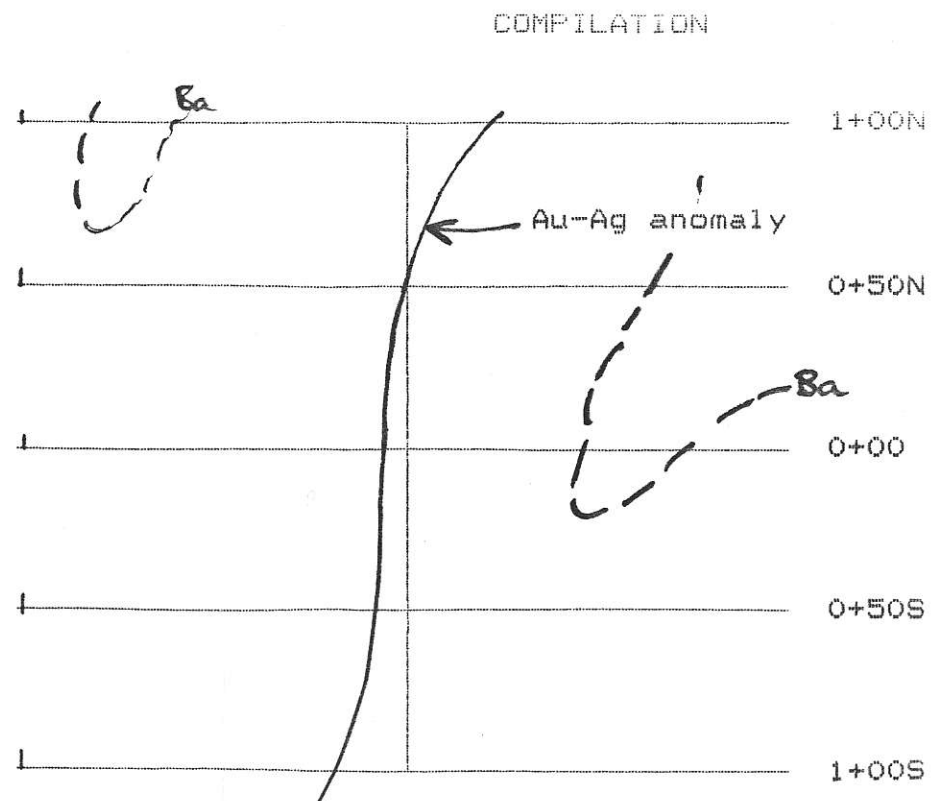
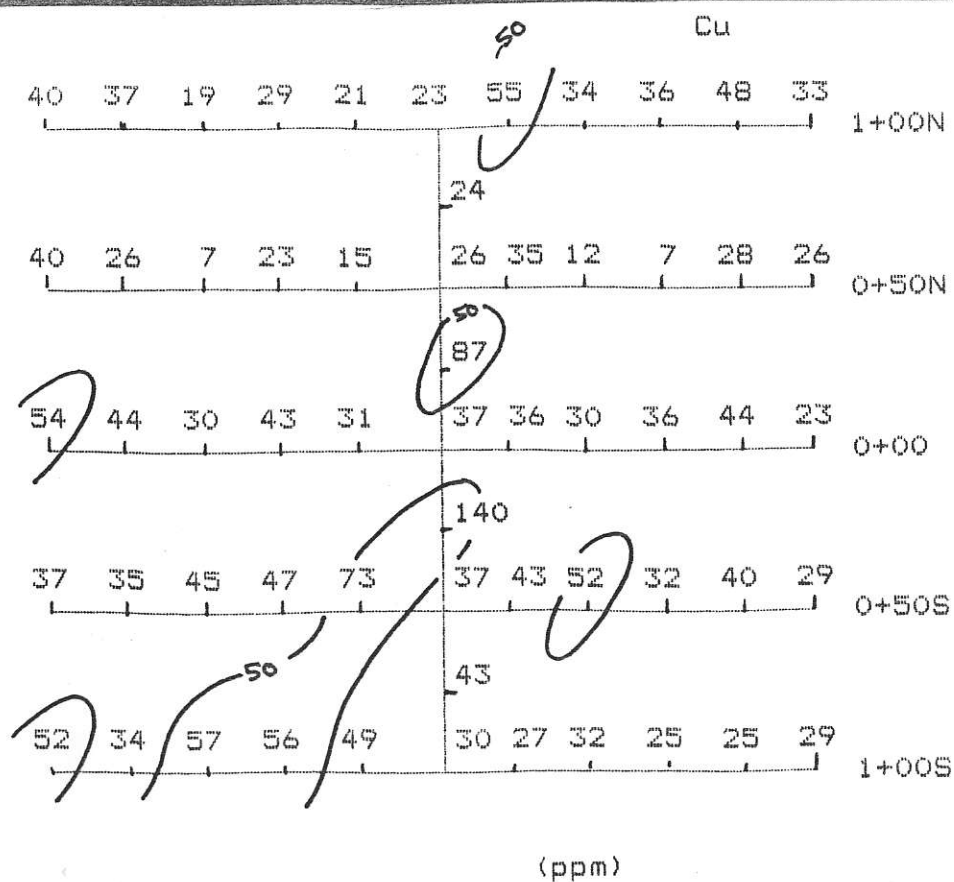
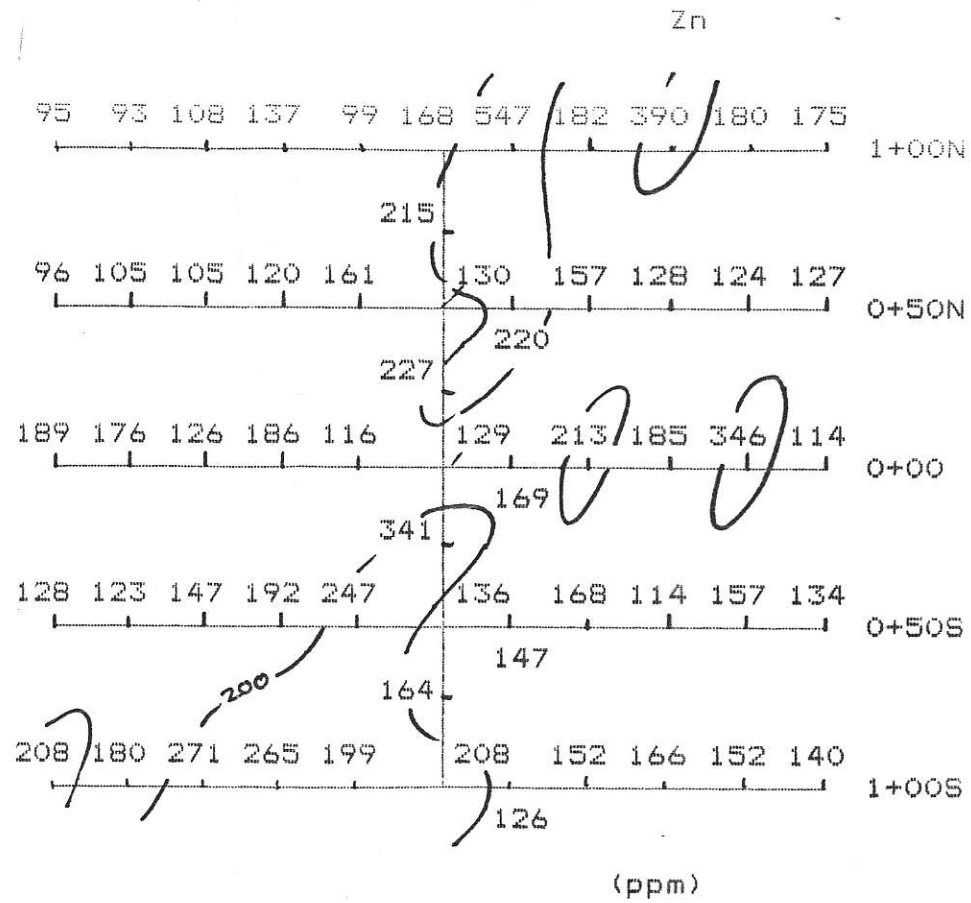
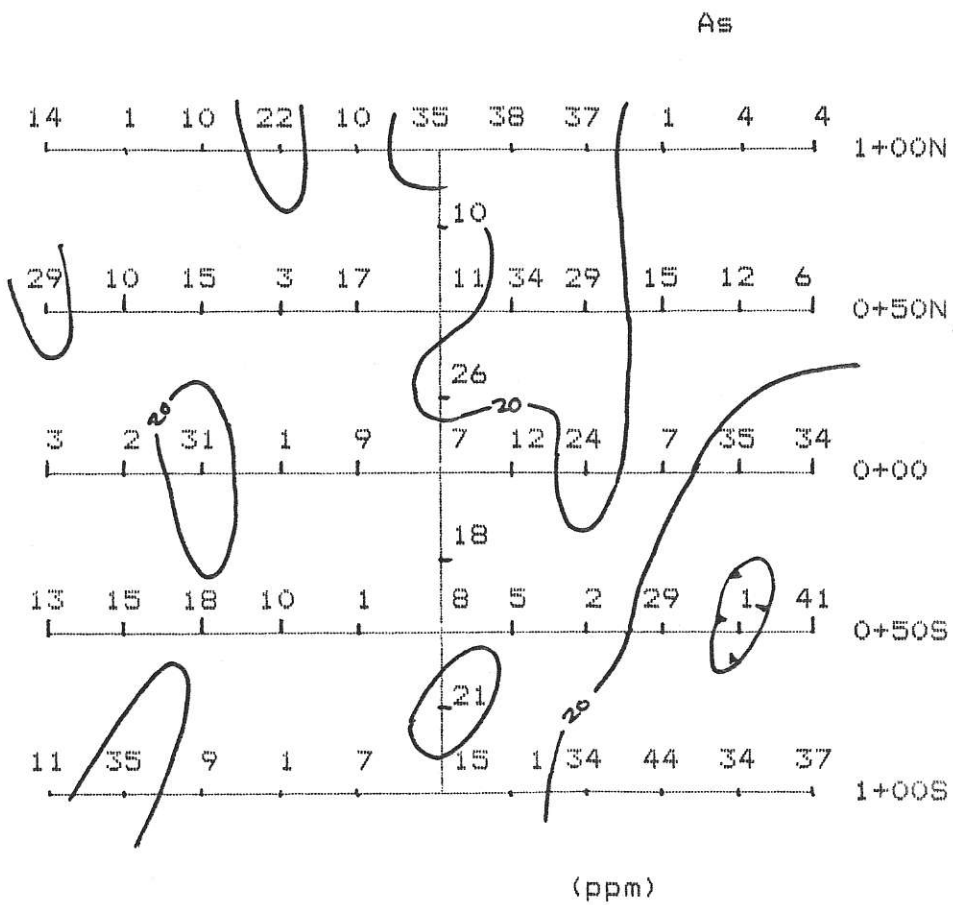


Scale

Drawn by:

Fig 5

Rw.



N.T.S. 94E/7

TOODOGGONE GOLD INC.

Property: Fine
 Location: Toodoggone Area
 Type of Map: Geochemical
 Based on: Sampling
 Date of Work: Sept. 1988
 Date: Nov. 1988



Scale

Drawn by:

Toodoggone Volcanics. The shear zone is partly coincident with a strong VLF-EM conductor outlined by an aerial geophysical survey (Pezzot, T. and Cukor, V., 1987).

H. RECOMMENDATIONS

The area of soil anomalous in gold and silver on the **Fine III** claims should be trenched to bedrock in at least three locations and sampled. The silicified, sulphidic shear zone exposed on the ridge above the soil anomaly should be trenched and sampled.

The 1988 soil grid should be expanded in an attempt to outline other zones and better define the zone discovered.

Geological mapping should be carried out at a scale of 1:500 in the area of the soil anomaly and at a scale of 1:5000 on the rest of the property.

Contour talus fine sampling on at least two contour lines should be carried out at 50 metre sample intervals in the four major basins on the **Fine** claims.

Trenching the soil anomaly will be best accomplished by a helicopter mobilized excavator.

Trenching of the sulphidic, silicified shear zone will be best accomplished by gas drill, explosives, and hand tools.

This program should cost \$75,430. Estimated costs follow.

**Fine Claims - 1988 Development Program
Estimated Costs**

Wages

Geologist - 21 days @ \$380/day	\$ 7,980.00
Geologist's Asst. - 21 days @ \$250/day	5,250.00

Geologist's Asst. - 21 days @ \$250/day	5,250.00
Equipment (including operator)	
Excavator - 8 days @ \$750/day	6,000.00
Gas Drill - 1 month @ \$1500/month	1,500.00
Camp - 1 month @ \$3000/month	3,000.00
Radio - 1 month @ \$500/month (1 radio telephone, 3 hand helds)	500.00
Transportation	
Fixed wing (Smithers to Sturdee)	2,000.00
Flights (Vancouver to Smithers)	1,000.00
Helicopter - 10 hrs @ \$650/hr	6,500.00
Expendables	
Explosives	1,000.00
Food	1,500.00
Fuel	200.00
Services	
Assays: 500 soil samples @ \$20/sample	10,000.00
250 rock samples @ \$20/sample	5,000.00
Expediting	750.00
Report Preparation	<u>2,000.00</u>
Sub-total	\$59,430.00
10% Contingency	<u>6,000.00</u>
Sub-total	\$65,430.00
15% Management Fee	<u>10,000.00</u>
Total	<u>\$75,430.00</u>

I. BIBLIOGRAPHY

- Adamec, J.D., (1987) Geological and Geochemical Report on the Wolverine and Fisher claims, Toodoggone River area, report for Toodoggone Gold Inc.
- Bekdache, M & Seywerd, J (1987) Geological Report on the Fine I-IV Claims Toodoggone River Area, report for Toodoggone Gold Inc.
- _____ Geological Report on the Eloise, Jeremy & Daniel Claims, Toodoggone Area, report for Toodoggone Gold Inc.
- _____ Geological Report on the Barny, Bart, and Cheena Claims, Toodoggone River Area, report for Toodoggone Gold Inc.
- _____ Geological Report on the Tom, Chip and Dale Claims, Toodoggone River Area, report for Toodoggone Gold Inc.
- Clark, J.R. & Williams-Jones (1988) A Preliminary Appraisal of the Au-Ag Metallogeny of the Toodoggone District, North Central British Columbia , abstract, Smithers Meeting, NW MEG, Oct. 1988
- Diakow, L.J. (1983) A Comparison of Volcanic Stratigraphy, Structure and Hydrothermal Alteration of the Silver Pond (Cloud Creek) and Wrich-Awesome Claim Groups, Toodoggone River(94E), BCEMPR, Geol. Fieldwork, Paper 1983-1
- Diakow, L.J. et al.(1985) Preliminary Map 61, Geology of the Toodoggone Area, NTS 94-E, BCGS, Victoria
- Dunn, D. & Wares, R.(1988) Technical Reports, Wolverine, Gacho, Eloise, Gord & Barny Groups, for Toodoggone Gold Inc.
- Dunn,D. & Wares,R.(1988) Report on the Fine I-Fine IV Claims, Toodoggone Area, report for Toodoggone Gold Inc.
- Dunn,D. & Wares,R. (1988) Summary Report Evaluation of the Toodoggone Area Properties Wolverine/Fisher Claims, Gacho/Suet Claims, Gord/Mul Claims, Eloise/Jeremy/Daniel Claims, Fine Claims, Barney Claims, Assessment Report.
- Gabrielse, H et al. (1976) Geology of the Toodoggone River(93E) and Ware west half(94); G.S.C. Open File 483
- Pezzot, T & Cukor,V, (1987) Geophysical Report on an Airborne VLF-Electromagnetometer and Magnetometer Survey, Fine I-IV Claims, report for Toodoggone Gold Inc.

- Pezzot, T & Cukor, V, (1987) Geophysical Report on an Airborne VLF-Electromagnetometer and Magnetometer Survey, Eloise, Jeremy, Daniel Claims, report for Toodoggone Gold Inc.
- Pezzot, T & Cukor, V, (1987) Geophysical Report on an Airborne VLF-Electromagnetometer and Magnetometer Survey, Wolverine-Fisher Claims, report for Toodoggone Gold Inc.
- Pezzot, T & Cukor, V, (1987) Geophysical Report on an Airborne VLF-Electromagnetometer and Magnetometer Survey, Barny Group, report for Toodoggone Gold Inc.
- Schroeter, T (1981) Toodoggone River, in Geological Fieldwork, 1980, BCMEMPR, paper 1981-1, p124
- Scroeter, T (1982) Toodoggone River (94E), in Geological Fieldwork, 1981, BCEMPR, paper 1982-1, p122
- Scroeter, T et al. (1986) Toodoggone River Area, (94 E), in Geological Fieldwork BCEMPR, paper 1986-1, p167
- Sorbara, P & Grond, (1988) Report on Toodoggone Gold Inc's Toodoggone River H Properties, report for Toodoggone Gold Inc.

APPENDIX A
STATEMENT OF QUALIFICATIONS

I, David St. Clair Dunn, with a business address at # 270 - 11751 Bridgeport Road, Richmond, British Columbia, do hereby declare that:

- a) This report is based upon an examination of the Fine Claims for Toodoggone Gold Inc. from September 22 to 25, 1988.
- b) I am a Fellow, in good standing, of the Geological Association of Canada.
- c) I have practiced my profession for eight years in British Columbia, Yukon and the USA.
- d) I hold a degree of B.Sc. from the University of British Columbia.
- e) I have not interest, directly or indirectly, in the property or securities of Toodoggone Gold Inc., or related companies, not do I expect to receive any.
- f) I have not interest , directly or indirectly, in any claims, or any company holding claims, within 20 kms of any of the properties of Toodoggone Gold Inc. described in this report.
- g) Facts in this report are based on examination of existing documents and on field examination of the properties.

David Dunn, F.G.A.C.
Vancouver, British Columbia

APPENDIX B
SAMPLE RESULTS



**MIN
• EN
LABORATORIES LTD.**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
15 WEST 15TH STREET
NORTH VANCOUVER B.C. CANADA V7M 1T2
TELEPHONE: 604/980-5814 OR 604/988-4524
TELEX VIA U.S.A. 7601067 • FAX: 604/980-9621

TIMMINS OFFICE:
33 EAST ROCQUOIS ROAD
P.O. BOX 367
TIMMINS ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: AGGRESSIVE RESOURCE MANAGEMENT
Project: TOODOGONE GOLD INC.
Attention: E. HEMMINGSON/D. DUNN

File: 8-1692/P1
Date: OCT 7/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU* G/TONNE	AU* OZ/TON
17 138	.01	0.001
17 139	.01	0.001
17 140	.01	0.001
17 141	.02	0.001
17 142	.01	0.001
17 143	.01	0.001
17 144	.01	0.001
17 145	.02	0.001
17 146	.04	0.001
17 035	.01	0.001
17 036	.01	0.001
17 037	.02	0.001
17 038	.01	0.001
17 039	.01	0.001
17 040	.01	0.001
17 041	.01	0.001

* 1 ASSAY TON

Certified by

MIN-EN LABORATORIES LTD.



**MIN
• EN
LABORATORIES LTD.**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
15 WEST 15TH STREET
NORTH VANCOUVER B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5214 DR. (604) 958-4504
TELEX VIA USA 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 367
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE (705) 264-9996

Certificate of Assay

Company: AGGRESSIVE RESOURCE MANAGEMENT INC.
Project: TOODOGONE GOLD INC.
Attention: E. HEMMINGSON/D. DUNN

File: 8-1692/P2
Date: OCT 7/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU* G/TONNE	AU* OZ/TON
------------------	----------------	---------------

48 394	.01	0.001
48 395	.01	0.001
48 396	.01	0.001
48 398	.01	0.001

*1 ASSAY TON

Certified by _____

MIN-EN LABORATORIES LTD.

(VALUES IN PPM)	AG	AS	BA	CU	PB	ZN	AL-PPB
-----------------	----	----	----	----	----	----	--------

17131	.8	6	94	8	56	181	5
17133	.6	6	113	13	36	196	5

17027	.9	15	308	16	56	352	5
17029	.8	17	38	30	31	145	5

48381	.8	21	108	42	28	155	5
48383	.9	15	106	40	30	154	10

(VALUES IN PPM) AG AS BA CU PB ZN AU-PPB

17130	3.7	41	85	65	17	99	5
17132	1.3	4	189	54	108	201	10
17134	.4	4	181	41	32	154	15

17028	.3	5	240	83	68	495	10
17030	1.2	27	259	130	59	248	5

48382	1.2	4	196	246	214	978	5
48384	.4	24	257	88	33	184	5

L1+00S1+25E	.7	37	118	29	81	140	5
L1+00S1+00E	.3	34	184	25	70	152	10
L1+00S0+75E	.5	44	180	25	78	161	20
L1+00S0+50E	.3	34	127	32	68	152	5
L1+00S0+25E	.5	1	116	27	50	126	5
L1+00S0+00	3.4	15	276	30	180	208	15
L1+00S0+25W	1.3	9	239	49	442	199	5
L1+00S0+50W	.7	1	111	56	114	265	10
L1+00S0+75W	1.9	9	123	57	133	271	20
L1+00S1+00W	2.1	35	238	34	180	180	15
L1+00S1+25W	.5	11	108	52	167	208	5
L0+50S1+25E	.9	41	100	29	86	134	10
L0+50S1+00E	1.1	1	68	40	83	157	160

PROJECT NO: TOODGONE GOLD INC.

700 EAST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1692/P3+4

ATTENTION: D. DUNN/E. HEMMINGSON

(604) 980-5814 OR (604) 988-4524

* TYPE SOIL GEOCHEM *

DATE: OCTOBER 10, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	ZN	AU-PPB
LO+50S0+75E	1.0	29	124	32	89	114	5
LO+50S0+50E	.3	2	110	52	59	168	5
LO+50S0+25E	.6	5	159	43	77	147	10
LO+50S0+00	14.4	8	126	37	218	136	90
LO+50S0+25W	.9	1	142	73	98	247	10
LO+50S0+50W	.7	10	116	47	93	192	5
LO+50S0+75W	.3	18	165	45	74	147	5
LO+50S1+00W	.7	15	233	35	85	123	5
LO+50S1+25W	.5	13	514	37	94	128	5
LO+00N1+25E	1.1	34	202	23	85	114	10
LO+00N1+00E	3.5	35	333	44	1201	346	45
LO+00N0+75E	.6	7	271	36	145	185	5
LO+00N0+50E	.7	24	1127	30	370	213	10
LO+00N0+25E	1.0	12	392	36	323	169	15
LO+00N0+00	1.9	7	184	37	129	129	10
LO+00N0+25W	.8	9	274	31	135	116	5
LO+00N0+50W	.6	1	336	43	76	186	5
LO+00N0+75W	1.0	31	179	30	94	126	10
LO+00N1+00W	.9	2	265	44	124	176	10
LO+00N1+25W	1.0	3	174	54	139	189	5
LO+50N1+25E	1.2	6	790	26	80	127	5
LO+50N1+00E	2.0	12	490	28	96	124	5
LO+50N0+75E	4.6	15	348	7	108	128	5
LO+50N0+50E	4.9	29	292	12	241	157	5
LO+50N0+25E	15.6	34	364	35	141	220	5
LO+50N0+00	1.3	11	121	26	110	130	5
LO+50N0+25W	3.5	17	398	15	206	161	10
LO+50N0+50W	1.1	3	177	23	188	120	20
LO+50N0+75W	.7	15	123	7	254	105	10
LO+50N1+00W	.3	10	512	26	83	105	5
LO+50N1+25W	.9	29	287	40	47	96	5
L1+00N1+25E	1.8	4	602	33	146	175	5
L1+00N1+00E	4.3	4	585	48	184	180	10
L1+00N0+75E	6.4	1	322	36	254	390	120
L1+00N0+50E	8.7	37	118	34	184	182	10
L1+00N0+25E	33.8	38	137	55	1650	547	405
L1+00N0+00	12.3	35	168	23	301	168	5
L1+00N0+25W	1.1	10	553	21	70	99	5
L1+00N0+50W	2.3	22	335	29	115	137	980
L1+00N0+75W	9.2	10	117	19	112	109	45
L1+00N1+00W	.5	1	826	37	106	93	20
L1+00N1+25W	.7	14	1143	40	115	95	65
BL0+75S	12.2	21	129	43	1303	164	110
BL0+25S	77.9	18	121	140	3611	341	410
BL0+25N	66.0	26	128	87	1799	227	270
BL0+75N	14.0	10	200	24	339	215	15
CL0+00W	.3	1	214	19	29	215	10
CL0+25W	1.1	6	81	97	68	197	5
CL0+50W	1.5	1	106	421	167	440	5
CL0+75W	1.8	10	211	25	93	108	5
CL1+00W	.7	8	340	6	55	88	5
CL1+25W	.3	12	73	20	15	82	5
CL1+50W	.7	27	257	20	96	103	5
CL1+75W	1.6	15	290	33	130	107	15
CL2+00W	2.3	14	337	77	354	146	5
CL2+25W	.7	3	51	54	77	114	5
CL2+50W	2.8	15	388	94	496	176	5
CL2+75W	1.3	5	301	60	425	154	10
CL3+00W	1.0	1	301	50	323	133	5
CL3+25W	1.7	16	276	41	416	124	5

COMPANY: AGGRESSIVE RESOURCES

MIN-EN LABS ICP REPORT

(CALIFIRE) PAGE 1 OF 1

PROJECT NO: TOGDOSBONE GOLD INC.

700 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-1692S/P5

ATTENTION: D. DUNN/E. HEMMINGSON

(604)980-5814 OR (604)988-4524

* TYPE SOIL GEOCHEM *

DATE: OCTOBER 10, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	ZN	AU-PPB
CL3+50W	2.6	86	361	83	970	164	5
CL3+75W	2.4	77	289	8	453	152	5
CL4+00W	3.9	107	168	216	1068	219	15

APPENDIX C
SAMPLING METHODOLOGY

Stream Sediments

Silts - A standard kraft bag was filled half to two-thirds full of fine material, generally a mixture of silt and sand, dried, and shipped to the lab. Material was collected from the active stream channel, where possible.

Pan Concentrates - Two pans were filled with minus one half inch material sieved through a plastic garden sieve. The gravel this material is sieved from is collected from behind boulders, logs, or the upstream end gravel bars. These pans were then panned to a black sand concentrate of 1 gm to 10 gm. This concentrate was saved and added to concentrate panned from one garden sieve full of moss. The moss is collected from boulders and logs in the active stream channel. The moss is then washed in the sieve, which is submerged over top of the pan. The material collected is then panned to a black sand concentrate of from 4 gm to 20 gm.

The combined concentrate is then shipped to the lab for analysis.

Soil Samples

Soil samples on the Fine claims were collected in 1988 from a 25 m sample spacing, 50 m line spacing grid (see Figure 16). Soil was dug from between 10 cm and 20 cm depth, coarse material removed, and placed in standard kraft soil sample bags, dried, and shipped to the lab.

The soil collected consisted of a poorly developed "B" soil horizon and the top of the "C" soil horizon.

APPENDIX D
ANALYTICAL METHODS

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

GEOCHEMICAL ANALYSIS PROCEDURE FOR

Pb, Zn and Ag:

Samples are dried at 95°C. Soils and stream sediments are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis.

All rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1. 1.000 gram sample is weighed into 25x200 test tube.
2. Add 2 ml of HNO_3 and let it set for 15 minutes and then add 5 ml of HClO_4 .
3. Place test tubes on sandbath for 6 hours and elevate temperature to 200°C.
4. Take the test tubes off cool and dilute to 25 ml.
5. Read samples on Atomic Absorption Spectrophotometer.
6. Background correction can be carried out on Pb and Silver if it is requested.
7. Standards are digested along with each set of samples and calibrations checked.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95^oC soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO₃ and HClO₄ mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

Analytical Procedure Report for Assessment Work

31 Element ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li,
Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, U, V, Zn, Ga, Sn, W,
Cr

Samples are processed by Min-En Laboratories Ltd., at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

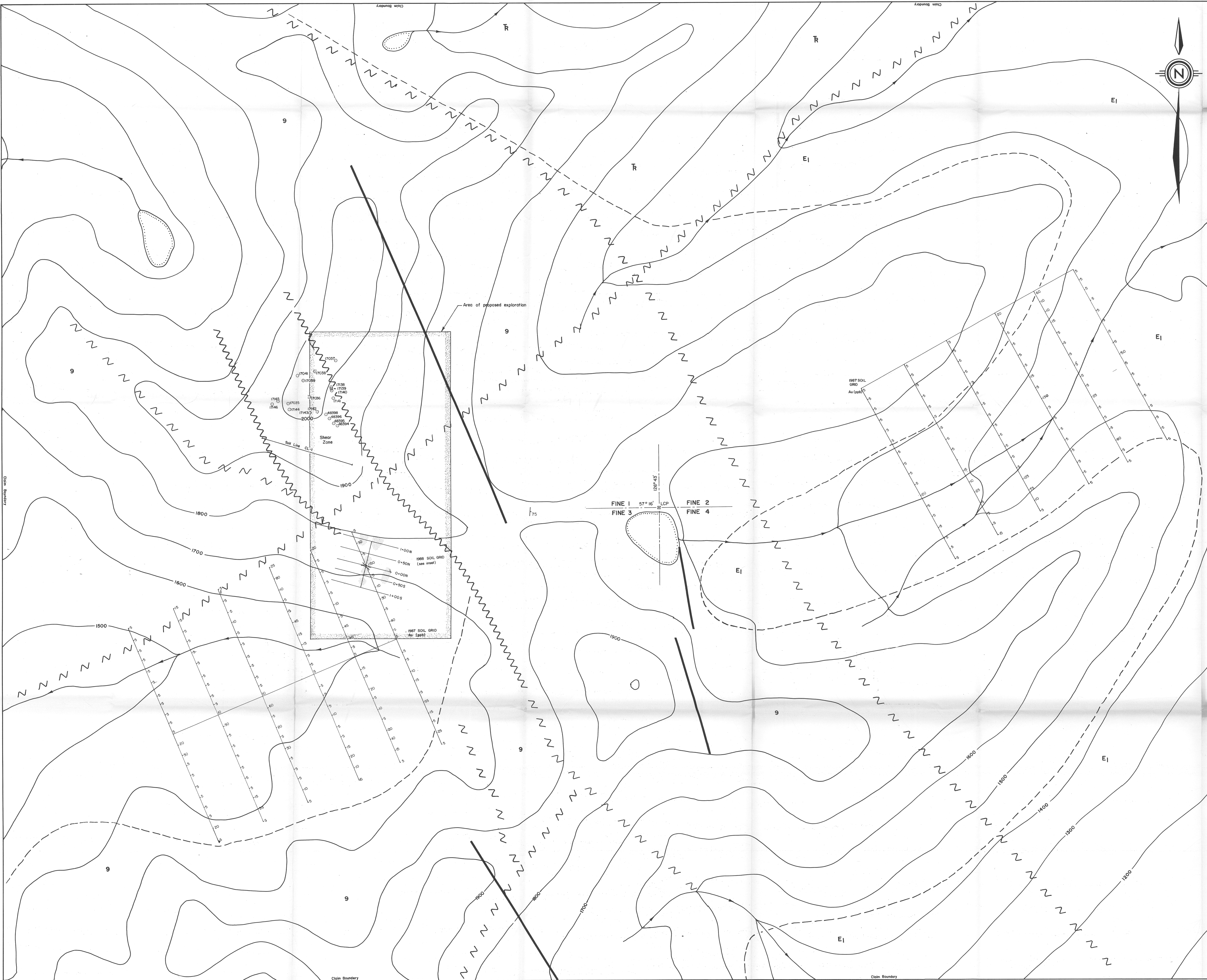
1.0 gram of the sample is digested for 4 hours with an aqua regia HClO₄ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.

APPENDIX E
ROCK SAMPLE DESCRIPTIONS

<u>Property</u>	<u>Sample No.</u>	<u>Description</u>
Fine Claims (See Map 1, back pocket)	17135	Float. Andesite agglomerate minor pyrite, covellite?
"	17035	1 m chip. Andesite with minor pyrite.
"	17036	2 m chip. Andesite with minor pyrite.
"	17037	"
"	17038	1 m chip. Andesite with minor pyrite.
"	17039	Grab. Andesite with minor pyrite.
"	17041	"
"	17138	Float. Silicified andesite with minor pyrite.
"	17139	Grab. Silicified andesite with minor pyrite.
"	17140	Grab. Porphyritic andesite tuff. Minor pyrite.
"	17141	5 m chip. Silicified andesite.
"	17142	2 m chip. Silicified andesite. 2% pyrite.
"	17143	2 m chip. Silicified andesite Minor pyrite.
"	17144	"
"	17145	Grab. Silicified andesite. Minor pyrite.
"	17146	2 m chip. Quartz vein with 2% pyrite and amethyst.
"	48394	1 m chip. Fault zone in andesite near granodiorite contact. Minor pyrite.

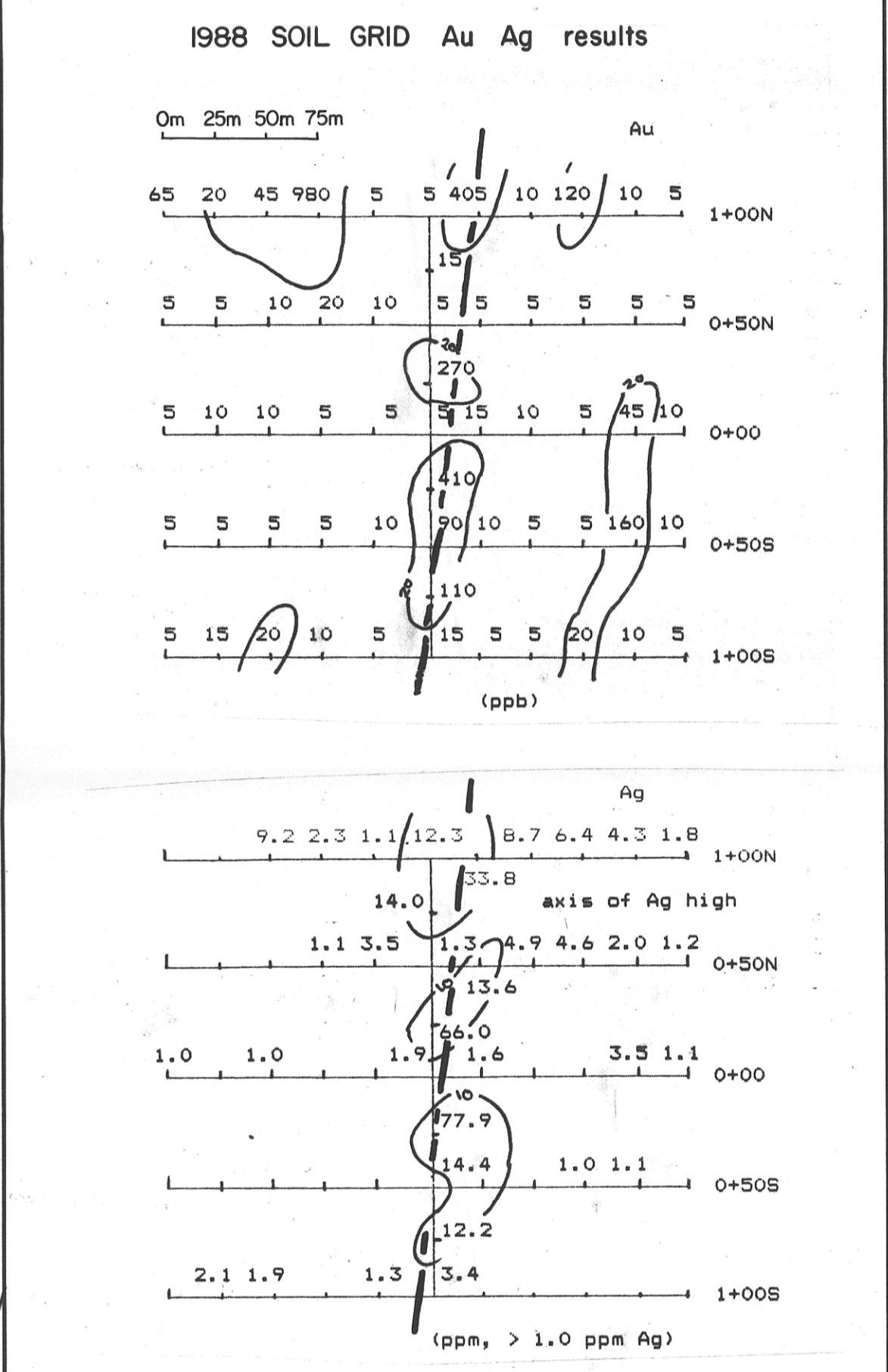
<u>Property</u>	<u>Sample No.</u>	<u>Description</u>
Fine Claims (See Map 1, back pocket)	48395	1 m chip. Andesite with minor pyrite.
"	48396	"
"	48398	0.5 m chip. Andesite with minor pyrite.



LEGEND

Sample location and number O17014
 Trench
 Soil anomaly > 40 ppb Au
 Inferred fault
 VLF-EM Conductor
 Geological Contact

Age	Unit	Description
Lower and Middle Jurassic	9	Toodoggone Volcanics Feldspar Porphyry Andesite Flows, Tuffs and Breccias
Lower and Middle Jurassic	E1	Granodiorite, Quartz Diorite
Upper Triassic	R	Takla Group - Augite porphyry Basalt Flows and Breccias

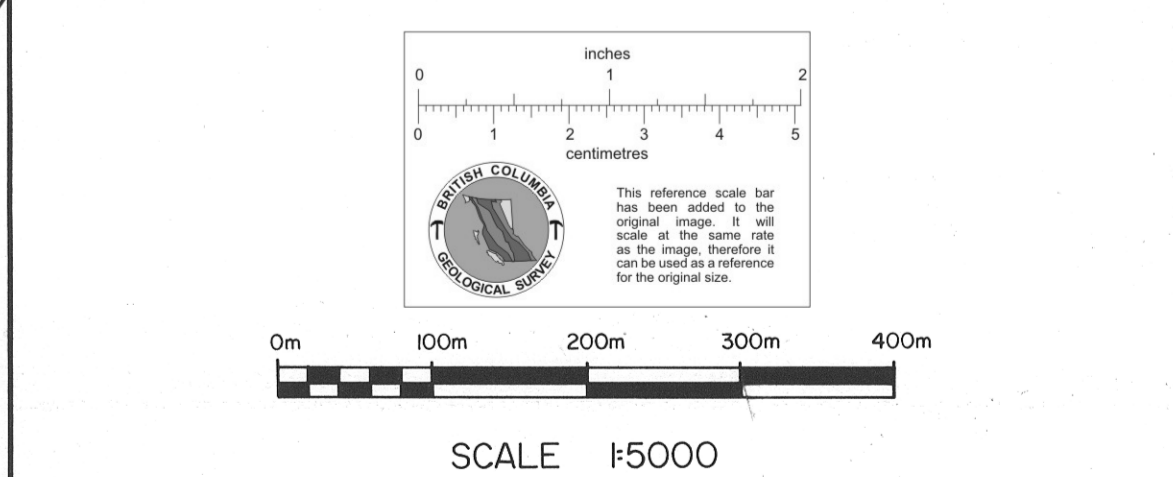


SAMPLE DATA

(see maps for locations)

#	N	E	Type	Width(m)	Au	Ag	As	Sa	Cu	Pb	Zn
48294			chip	1.0m	0.001	0.6	36	120	29	42	82
48295			chip	1.0m	0.001	0.25	39	63	23	23	98
48296			chip	1.0m	0.001	1.1	39	38	25	41	133
48298			chip	0.5m	0.001	0.09	43	184	78	33	290
17025			chip	1.0m	0.001	0.9	50	56	25	178	312
17026			chip	1.0m	0.001	0.7	50	77	25	178	199
17027			chip	2.0m	0.001	1.1	37	122	17	51	158
17028			chip	2.0m	0.001	1.4	37	49	25	39	90
17039			chip	3.0m	0.001	1.5	44	113	22	35	93
17041			grab		0.001	1.4	54	1178	69	112	152 loc.
17128			grab		0.001	0.8	63	29	12	35	107
17129			grab		0.001	0.4	51	77	6	114	28
17140			grab		0.001	0.7	58	141	13	103	251
17141			chip	5.0m	0.001	0.7	58	28	27	42	98
17142			chip	2.0m	0.001	1.0	44	77	26	21	75
17143			chip	2.0m	0.001	0.4	49	103	21	20	77
17144			chip	2.0m	0.001	0.5	56	70	24	15	88
17145			grab		0.001	0.4	56	62	22	30	94
17146			chip	2.0m	0.001	0.7	75	60	8	25	127

NOTES: Au - fire assay, Cu/Pb all others - ppm



TOODOGGONE GOLD INC

Report by: R. Wares, D. Dunn
 Date: November 1988
 NTS: 94E/7
 Revised: May 1989
 Tecucomp Geological Inc

TOODOGGONE PROPERTIES
FINE CLAIMS
COMPILATION MAP