

OPEN FILE

REPORT TO THE DEPARTMENT OF MINES AND ENERGY
ON THE MCARTHUR RIVER PROJECT AREA, NT
FOR THE PERIOD 13/7/1988 TO 13/7/1989

EXPLORATION LICENCES AND LICENSEES

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1:250,000 Scale Map Sheets
SD 53 19 : Mount Young
SE 53 03 : Bauhinia Downs
SE 53 07 : Walhallow

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1. INTRODUCTION

Exploration for base metals and gold has been carried out on 14 Exploration Licences which cover approximately 10,900 sq km in the McArthur River area. These ELs are subject to a joint venture agreement between Noranda Pty Limited, Top End Resources N.L. and Perilya Mines N L and are classified as a single entity project area (the McArthur River Project Area) by the NT Department of Mines and Energy. They cover sedimentary and volcanic rocks of the Proterozoic McArthur Basin, which host the HYC Pb-Zn deposit at McArthur River and numerous small Cu, Pb and Zn occurrences throughout the region.

This report covers exploration completed during the 1988 dry season. A separate annual report on EL 4939 was submitted in October 1988, but for convenience, exploration on EL 4939 is now incorporated in this report on the whole project area.

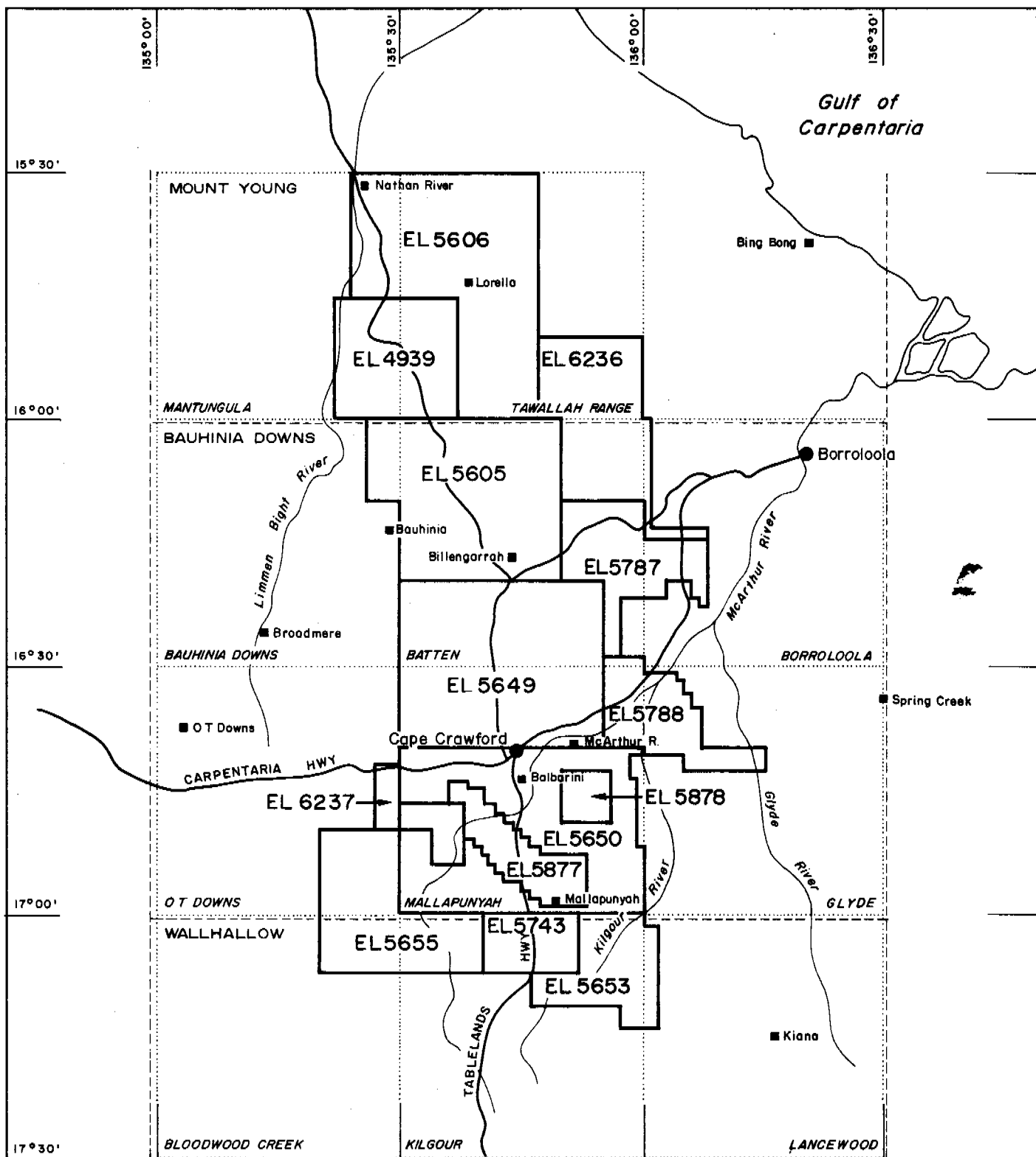
2. LOCATION, ACCESS AND LAND TENURE

Figure 1 shows the locations of the 14 Joint Venture Exploration Licences and significant geographic features of the area. The ELs covered by the report are as follows:

<u>EL No.</u>	<u>Owner(s) *</u>	<u>Date of Granting</u>	<u>No. of Graticular Blocks</u>
4939	NC&L	23/9/1986	225
5605	Q	13/7/1988	440
5606	Q	13/7/1988	495
5649	Q	13/7/1988	500
5650	Q	13/7/1988	410
5653	Q	13/7/1988	145
5655	Q	13/7/1988	240
5743	Q	13/7/1988	84
5787	Q	13/7/1988	175
5788	Q	13/7/1988	151
5877	TE	13/7/1988	100
5878	TE	13/7/1988	36
6236	Q	7/11/1988	259
6237	Q	7/11/1988	32
TOTAL			3,292

* Owners : Q = Quilpie Pty Ltd
 TE = Top End Resources N.L.
 NC&L = Messrs P G Naughton, D B Clarke and
 T P Linder

Access is provided by the bitumen-sealed Carpentaria and Tablelands Highways and gravel roads from near Cape Crawford to Roper Bar and Ryan Bend (the old Borroloola Road). Elsewhere access is by station tracks, which are often poorly maintained. Much of the area is extremely rugged and can only be reached on foot or by helicopter.



GLYDE 1:100 000 MAP SHEETS
 MT YOUNG 1:250 000 MAP SHEETS

0 10 20 30 40 50km

SCALE 1:1250 000

PERILYA MINES N.L.
 McARTHUR RIVER JOINT VENTURE
LOCATION MAP
 SHOWING
EXPLORATION LICENCES

FIGURE 1

3. REGIONAL GEOLOGY AND GEOPHYSICS

The Southern McArthur Basin has been the subject of extensive geological mapping and research by the Bureau of Mineral Resources during the period 1977 to 1982. This work is published as BMR Bulletin 220 (Jackson et al., 1987) and the accompanying 1:100,000 geological map (Geology of the Abner Range Region) has been used as a geological framework for all exploration in the licences which lie to the south of 16° 30'S.

The northern ELs are covered by the 1:250,000 scale geological maps for Bauhinia Downs (Smith, 1964) and Mount Young (Plumb and Paine, 1964). Geologists of the Northern Territory Geological Survey have spent the 1987 and 1988 field seasons remapping the Bauhinia Downs 1:250,000 sheet and are currently working on the Mount Young 1:250,000 sheet and the enclosed Tawallah Range 1:100,000 scale geological map. Some of this recent mapping has been made available in the form of a preliminary geological map for Bauhinia Downs (Pietsch et al., 1989) and this information is currently being incorporated into 1:100,000 geological interpretation plans covering the McArthur River Project ELs.

The stratigraphic subdivisions defined in BMR Bulletin 220 (Jackson et al., 1987) have been used for all local mapping in the ELs, however silicification and lateritisation increase markedly towards the north and precise stratigraphic definition is very difficult in parts of the northern titles. All correlations between the stratigraphy defined in BMR Bulletin 220 and that in the older 1:250,000 maps to the north are based on Figure 4 of Bulletin 220, which places the Vizard Formation in an equivalent stratigraphic position to the Batten Subgroup and upper half of the Umbolooga Subgroup.

Bureau of Mineral Resources geophysical coverage of the whole project area is available as 1:250,000 maps of aeromagnetic (pre-1970 survey), gravity (pre-1981) and radiometric data. In addition, gamma-ray spectrometer and magnetic data are available in digital format.

4. PREVIOUS EXPLORATION

The McArthur River area has been extensively explored since the discovery of the HYC deposit in 1955. The most active explorers have been Carpentaria Exploration Co. Pty Ltd, BHP Co. Ltd, CRA Exploration Pty Ltd, Amoco Minerals Australia, Shell (Minerals) Australia, Western Mining Corp. and A.O. Australia Pty Ltd. The work carried out during the period up to the mid 1970s is reviewed by Plumb (1977). Summaries of all exploration data for the EL block have been made by NTGS geologists as part of the "Exploration Series" maps. These have been provided in preliminary form for the Mallapunyah, Batten and Tawallah Range 1:100,000 sheets and Bauhinia Downs and Mt Young 1:250,000 sheets. All subdivisions of the Exploration Series data (i.e. Geology, Geophysics, Geochemistry, Drilling and Mineral Occurrences) have been examined and used in the selection of target areas for exploration.

5. CURRENT EXPLORATION PROGRAMME

Work commenced in July 1988 following the granting of 11 of the Exploration Licences on 13/7/1988. The initial activity was as follows:

- Liaison with pastoralists in the area.
- Contact with the NT Aboriginal Sacred Sites Authority to determine locations of registered and recorded sites.
- Research of open-file exploration reports held at the NT Department of Mines and Energy Library in Darwin.
- Generating of remote sensing imagery (Landsat Thematic Mapper) of the Mantangula and Tawallah Range areas at 1:100,000 scale. A report on this work entitled "Landsat T.M. Imagery from the McArthur Basin, Northern Territory, Australia" by E. Swarbrick and Associates, has already been submitted to the Department of Mines & Energy.
- Commencement of compilation of geological interpretation maps at 1:100,000 scale, using all available geological data from published and unpublished sources (this compilation will continue throughout the project with updating of maps as further data become available).
- Redigitising of BMR aeromagnetic survey data for the Walhallow and Bauhinia Downs areas and interpretation of the results (Figures 40 & 41.).

When all available information had been reviewed target areas were selected for field evaluation. Twenty-two areas were chosen, based on favourable geology, geophysics and/or geochemistry. The reasons for selection for each of these areas and the results of the exploration completed at each location are discussed in Section 7.

Field work commenced in early August and consisted of an initial reconnaissance phase followed by both ground-based and helicopter-assisted mapping and sampling programmes.

6. GEOCHEMISTRY

One thousand and fifty eight samples were collected during the field programme, comprising 119 composite rock chip samples, 151 stream sediment samples and 788 soil samples. Stream sediments and soils were sieved in the field through 2mm mesh. All samples were analysed for Cu, Pb, Zn and Au with most rock chip samples also analysed for Ba.

The analyses were carried out by Classic Comlabs Ltd in Darwin with the following techniques and detection limits:

<u>Element</u>	<u>Detection Limit</u> <u>(ppm)</u>	<u>Method</u>
Cu	2	AAS1 (Perchloric acid digest)
Pb	5	" "
Zn	2	" "
Au	0.001	AAS10. (Aqua regia leach with graphite furnace AAS finish)
Ba	10	XRF1 (Pressed powder technique)

All results are presented in Appendix I and are plotted with sample numbers on on all odd numbered Figures between 3 and 39.

7.1 HAMMERS

(See Figures 2 & 3.)

LOCATION: SE corner of Mantangula 1:100,000 sheet 2-3km NE of the Nathan River Road.

HOST ROCKS: Interpreted Barney Creek Fm.

STRUCTURAL SETTING: Adjacent to a major N-S Fault ("Hammers Fault") near a NW-SE Fault intersection.

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 9 - 255 ppm.	Cu 13 - 99 ppm.	Cu 5 - 24 ppm.
Pb 240 - 1620 ppm.	Pb <5 - 205 ppm.	Pb <5 - 41 ppm.
Zn 285 - 3940 ppm.	Zn 7 - 260 ppm.	Zn 3 - 34 ppm.
Ba 135 - 2500 ppm.		
Au all <0.01 ppm.	Au <1 - 4 ppb.	Au <1 - 2 ppb.
Total 6 samples	Total 1 line of 19 samples	Total 11 samples

ADDITIONAL COMMENTS: Large (500x20m) discontinuous zone of laminated gossanous Barney Creek Fm in an excellent structural setting. Good geochemistry.

7.2 CLARKE CREEK

(See figures 4 & 5.)

LOCATION: Centre of Batten 1:100,000 sheet
at the SE corner of the Tawallah
Range

HOST ROCKS: Interpreted Barney Creek Fm

STRUCTURAL SETTING: Close to the Tawallah Fault at
the intersection of the Sawtooth
and Clarke Faults

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 15 - 110 ppm.		Cu 5 - 29 ppm.
Pb 9 - 210 ppm.	not	Pb <5 - 13 ppm.
Zn 27 - 455 ppm.		Zn 4 - 22 ppm.
Ba 195 ppm. - 1.4%	done	
Au all <0.01 ppm.		Au <1 - 2 ppb.
Total 5 samples		Total 12 samples

ADDITIONAL COMMENTS: Large (300x50m) zone of gossan and
Fe-rich breccia in an excellent
structural setting at the inter-
section of 3 major faults. Dips
up to 70°. High Ba results.

7.3 YALCO

(See figures 6 & 7.)

LOCATION: NE corner of Batten 1:100,000
sheet on Yalco Creek

HOST ROCKS: Barney Creek Fm

STRUCTURAL SETTING: 2-3km west of the Emu Fault Zone
along the Yalco Fault

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 19 - 82 ppm.	Cu 4 - 29 ppm.	Cu 6 - 15 ppm.
Pb 12 - 25 ppm.	Pb <5 - 97 ppm.	Pb <5 - 18 ppm.
Zn 84 - 245 ppm.	Zn 4 - 61 ppm.	Zn 3 - 18 ppm.
Ba 230 - 260 ppm.		
Au <0.01 ppm.	Au <1 - 2 ppb.	Au <1 - 2 ppb.
Total 3 samples	Total 32 samples on 2 lines	Total 13 samples

ADDITIONAL COMMENTS: Very poor outcrop, one small hill
of Fe-rich breccia in NW of
prospect area. Excellent structural
setting.

7.4 "Y"

(See figures 8 & 9.)

LOCATION: South-central part of Batten
1:100,000 sheet

HOST ROCKS: Interpreted Barney Creek Fm

STRUCTURAL SETTING: At the intersection of the
Tawallah Graben, Hot Spring and
Mariner Faults

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 10 - 88 ppm.	Cu 3 - 275 ppm.	Cu 6 - 24 ppm.
Pb <5 - 26 ppm.	Pb <5 - 23 ppm.	Pb <5 - 9 ppm.
Zn 13 - 410 ppm.	Zn <2 - 58 ppm.	Zn 5 - 11 ppm.
Ba 40 - 7300 ppm.		
Au all <0.01 ppm.	Au <1 - 1 ppb.	Au <1 - 2 ppb.
Total 9 samples		Total 14 samples (includes samples from remote- sensing target 9")

ADDITIONAL COMMENTS: Large (800x30m) zone of gossan
and Fe-rich breccia. (Some
gossan is laminated and dips
70°W). The prospect is located
at the intersection of 3 major
faults close to a major basement
host at the western side of the
Barney Creek Sub-Basin.

7.5 MALLAPUNYAH SUB-BASIN

(See figures 10 & 11.)

LOCATION: Southern part of the Abner Range
1:100,000 sheet, 30km south of
Cape Crawford adjacent to
Tablelands Highway

HOST ROCKS: At the unconformity between
Reward Dolomite and Nathan Group
Balbirini Dolomite

STRUCTURAL SETTING: In a large, well developed
sub-basin between the
Mallapunyah, Cockatoo and Darcy
Faults

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 7 - 600 ppm.	Cu <2 - 105 ppm.	Cu 8 - 13 ppm.
Pb <5 - 1980 ppm.	Pb <5 - 285 ppm.	Pb 7 - 16 ppm.
Zn 39 - 3520 ppm.	Zn 4 - 200 ppm.	Zn 6 - 30 ppm.
Ba 75 - 4700 ppm.		
Au <1 - 2 ppb.	Au >1 - 3 ppb.	Au <1 - 2 ppb.
Total 19 samples	Total 103 samples on 6 lines	Total 12 samples

ADDITIONAL COMMENTS: A very large (2000x200m) zone of
strong Fe-enrichment, including
gossanous veined and brecciated
rocks, at a major unconformity.
Good geochemistry over a strike
length of 3-4km. Darcys Cu Mine
is located 2km NE of the
prospect.

Dips mainly flat (10-20°)
But locally steeper (50-60°)

7.6 KILGOUR RIVER

(See figures 12 & 13.)

LOCATION: South eastern part of the Abner Range 1:100,000 sheet 15km east of Mallapunyah Homestead

HOST ROCKS: Barney Creek Fm and Reward Dolomite

STRUCTURAL SETTING: Close to where the Mallapunyah and Abner Faults diverge at the southern end of the Abner Graben

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 8 - 770 ppm.	Cu 3 - 22 ppm.	Cu 7 - 31 ppm.
Pb 21 - 1620 ppm.	Pb <5 - 70 ppm.	Pb <5 -145 ppm.
Zn 46 - 860 ppm.	Zn 6 - 93 ppm.	Zn 7 - 35 ppm.
Ba 155 - 7600 ppm.		
Au all <0.01 ppm.	Au <1 - 2 ppb.	Au <1 - 2 ppb.
Total 9 samples	Total 11 samples	Total 9 samples

ADDITIONAL COMMENTS: Pods, veins and stratiform gossan zones extend over a strike length of 500-600m and a width of 100m. Complex folding of Barney Creek Fm with some overturned beds. Good geochemistry.

7.7 T1 (South)

(See figures 14 & 15.)

LOCATION: Centre of the Batten 1:100,000 sheet straddling the Billengarra-Borrooloola Road

HOST ROCKS: Mallapunyah Fm on west side of Tawallah Graben and Batten Sub-Group and Nathan Group rocks within and east of the graben

STRUCTURAL SETTING: At the intersection of the Tawallah Graben and a geophysically inferred major NW striking fault that passes through the HYC Zn-Pb-Ag deposit

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 7 - 700 ppm.	Cu 4 - 58 ppm.	Cu 5 - 11 ppm.
Pb 8 - 17 ppm.	Pb <5 - 23 ppm.	Pb all <5 ppm.
Zn 8 - 98 ppm.	Zn 2 - 47 ppm.	Zn 6 - 10 ppm.
Ba 125 - 490 ppm.		
Au all <0.01 ppm.	Au <1 - 8 ppb.	Au <1 - 2 ppb.
Total 4 samples	Total 140 samples on 4 lines	Total 4 samples

ADDITIONAL COMMENTS:

A 10-20M wide ferruginous shale unit within the Mallapunyah Fm on the W side of the Tawallah Graben assayed 700 ppm Cu Units adjacent to the Tawallah Fault dip steeply (up 70°).

Poor outcrop over much of Prospect area.

Moderately anomalous Au in soil up 8ppb.

7.8 LITTLE CREEK SUB-BASIN

(See figures 16 to 21.)

LOCATION: NW part of the Abner Range
1:100,000 sheet

HOST ROCKS: Barney Creek Fm, Reward Dolomite. Barney Ckx Fm contains graded turbidite beds containing pyritic black shale shards and black laminated dolomite shales

STRUCTURAL SETTING: Straddles the NW trending Mallapunyah Fault Zone and a major sub-parallel fault zone 6km further north. Steep to overturned beds in some places

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 8 - 50 ppm.	Cu 4 - 44 ppm.	Cu 4 - 19 ppm.
Pb <5 - 61 ppm.	Pb <5 - 77 ppm.	Pb 8 - 29 ppm.
Zn 10 - 150 ppm.	Zn 4 - 89 ppm.	Zn 9 - 39 ppm.
Ba 490 - 5000 ppm.		
Au all <0.01 ppm.	Au <1 - 14 ppb.	Au <1 - 18 ppb.
Total 4 samples	Total 252 samples on 9 lines	Total 21 samples

ADDITIONAL COMMENTS: Small poddy gossans occur within Reward Dolomite over a 200 x 30m zone on the W. bank of Little Creek. Significant Au values from streams and soils in central part of prospect area.

7.9 DILLINGHAMS BORE

(See figures 22 & 23.)

LOCATION: South-central part of the Abner Range 1:100,000 sheet 1km east of the Tablelands Highway

HOST ROCKS: Barney Creek Fm

STRUCTURAL SETTING: At the intersection of the major N-S trending Darcy Fault and NW trending Cockatoo Fault

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 140 - 240 ppm.	Cu 6 - 16 ppm.	
Pb 8 - 11 ppm.	Pb 11 - 19 ppm.	
Zn 19 - 25 ppm.	Zn 7 - 20 ppm.	none
Ba 490 - 1280 ppm.		
Au both <0.01 ppm.	Au <1 - 2 ppb.	done
Total 2 samples	Total 42 samples on 2 lines	

ADDITIONAL COMMENTS: Generally poor outcrop. Fresh disseminated pyrite noted in dark grey laminated Barney Creek Fm near Dillinghams Bore. Moderate dips (40-50°). Tawallah Basement Block east of the Mallapunyah Fault contains abundant mafic volcanics.

7.10 T1 (North)

(See figures 24 & 25.)

LOCATION: Centre of Batten 1:100,000 sheet
9km north of the
Billengarra-Borrooloola road

HOST ROCKS: Mallapunyah Fm to the West of the
Tawallah Graben and Batten
Sub-Group, Nathan and Group rocks
within and east of the graben

STRUCTURAL SETTING: At the northern end of the
Tawallah Graben close to the SE
end of a Tawallah Group basement
host

GEOCHEMISTRY

ROCK CHIP			SOILS	STREAM SEDIMENTS
Cu	21	ppm.	Cu 3 - 11 ppm.	Cu 5 - 13 ppm.
Pb	38	ppm.	Pb <5 - 21 ppm.	Pb <5 - 13 ppm.
Zn	23	ppm.	Zn <2 - 13 ppm.	Zn 3 - 14 ppm.
Au	0.01	ppm.	Au <1 - 3 ppb.	Au <1 - 4 ppb.
1 sample			Total 52 samples on 2 lines	Total 15 samples

ADDITIONAL COMMENTS: Generally poor exposure in
prospect area. No gossans found
but maghaemitic ferricrete noted
in creeks. Weakly anomalous Au
in streams.

7.11 4 MILE LAGOON

(See figures 26 & 27.)

LOCATION: Extreme west of Batten 1:100,000 sheet

HOST ROCKS: Barney Creek Fm

STRUCTURAL SETTING: Adjacent to the N-S trending 4 Mile Lagoon Fault coincident with a thickening of the Barney Creek Fm

GEOCHEMISTRY

ROCK CHIP

Cu 11 - 67 ppm.
Pb <5 - 47 ppm.
Zn 68 - 245 ppm.
Ba 115 - 1100 ppm.
Au <0.01-0.03 ppm.

Total 6 samples

SOILS

Cu 12 - 105 ppm.
Pb 9 - 235 ppm.
Zn 12 - 86 ppm.
Au <1 - 3 ppb.

Total 9 samples
on 2 lines

STREAM SEDIMENTS

none

done

ADDITIONAL COMMENTS:

2 fairly large zones of regolithic Fe-rich breccia over a 300m x 80m zone. Ferruginous, laminated Barney Creek Fm sub-crops in area between Fe regolith outcrops. Moderate Pb and Au soil geochemistry.

7.12 TOOGANINIE SOUTH SUB-BASIN

(See figures 28 & 29.)

LOCATION: W side of Abner Range 1:100,000 sheet on the eastern side of Emmerugga Creek

HOST ROCKS: Barney Creek Fm

STRUCTURAL SETTING: In a sub-basin developed at the intersection of the NW trending Cockatoo Fault and the NE trending Yah Yah Fault

GEOCHEMISTRY

ROCK CHIP

SOILS

STREAM SEDIMENTS

	Cu 6 - 37 ppm.	Cu 6 - 31 ppm.
None	Pb <5 - 180 ppm.	Pb <5 - 125 ppm.
	Zn 8 - 45 ppm.	Zn 16 - 44 ppm.
done	Au <1 - 3 ppb.	Au <1 - 5 ppb.*

* Most Au results positive.

Total 37 samples on 2 lines

Total 13 samples including several from Tooganinie (N) Prospect

ADDITIONAL COMMENTS:

Well developed breccia units, graded beds and pink K tuff bands. Low to moderate bedding dips. Good Pb soil geochemistry and Pb and Au geochemistry but no gossans or Fe-rich zones noted during reconnaissance.

7.13 ABNER

(See figures 30 & 31.)

LOCATION: Centre of Abner Range 1:100,000
sheet 5.5km NE of Mallapunyah
Homestead

HOST ROCKS: Reward Dolomite, Barney Creek Fm

STRUCTURAL SETTING: At the intersection of the
Mallapunyah and two unnamed N-S
trending faults

GEOCHEMISTRY

ROCK CHIP			SOILS	STREAM SEDIMENTS
Cu	2200	ppm.		
Pb	22	ppm.	None	None
Zn	830	ppm.		
Ba	590	ppm.	done	done
Au	<0.01	ppm.		

Only 1 sample

ADDITIONAL COMMENTS: Small gossanous veins and pods
occur at or near the contact of
the Barney Creek Fm and Reward
Dolomite. 2 Cu occurrences occur
between 2 and 5km S along a major
N-S fault.

Good Cu and Zn rock chip
geochemistry.

7.14 MYSTERY SUB-BASIN

(including Mystery North Prospect)

(See figures 32 & 33.)

LOCATION: Centre of the Abner Range
1:100,000 sheet immediately West
of the Tablelands Highway

HOST ROCKS: Coxco Dolomite, Barney Creek Fm
and Reward Dolomite

STRUCTURAL SETTING: In a sub-basin developed between
the Abner Range and Tawallah
Faults

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 3 - 13 ppm.		Cu 2 - 39 ppm.
Pb all <5 ppm.	None	Pb <5 - 20 ppm.
Zn 24 - 54 ppm.		Zn 11 - 52 ppm.
Ba 145 - 6100 ppm.	done	
Au all <0.01 ppm.		Au <1 - 3 ppb.
Total 4 samples		Total 8 samples

ADDITIONAL COMMENTS: A zone of poddy gossans (largest
pod 10 x 3m) occur over a strike
length of about 250m at the
Mystery North Prospect. The
gossans contain well developed
marcasite nodule pseudomorphs but
have a low geochemical signature.

7.15 LEILA SUB-BASIN

(See figures 34 & 35.)

LOCATION: Central N of Abner Range
1:100,000 sheet

HOST ROCKS: Barney Creek Fm and Reward
Dolomite

STRUCTURAL SETTING: At the intersection of the major
NNW trending Hot Spring Fault and
a swarm of NNE faults that pass
through the HYC Sub-Basin

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 25 - 175 ppm.	Cu 5 - 14 ppm.	Cu 2 - 18 ppm.
Pb 7 - 580 ppm.	Pb <5 - 17 ppm.	Pb 8 - 32 ppm.
Zn 9 - 115 ppm.	Zn 5 - 12 ppm.	Zn 6 - 29 ppm.
Ba 110 - 640 ppm.		
Au all <0.01 ppm.	Au all <1 ppb.	Au all <1 ppb.
Total 5 samples	Total 19 samples	Total 16 samples

ADDITIONAL COMMENTS: 2 very small gossan pods (5 x 2m)
noted in Reward Dolomite on NE
side of Sub-basin. Weakly
ferruginous, well laminated,
dolomitic shale float common
along Hot Spring Fault 1-2km N of
Carpentaria Highway.

7.16 TOP SPRING

(See figures 36 & 37.)

LOCATION: Extreme S of Abner Range
1:100,000 sheet

HOST ROCKS: Barney Creek Fm

STRUCTURAL SETTING: Small sub-basin developed
adjacent to an unnamed NE
trending fault and a swarm of SE
trending faults

GEOCHEMISTRY

ROCK CHIP			SOILS	STREAM SEDIMENTS
Cu	48	ppm.		
Pb	<5	ppm.	None	None
Zn	24	ppm.		
Ba	520	ppm.	done	done
Au	<0.01	ppm.		

1 sample

ADDITIONAL COMMENTS: No gossanous or iron-rich zones
noted, minor K-tuff dips mainly
20-25° and in placed up to
60°.

7.17 DINGO CREEK

(See figures 38 & 39.)

LOCATION: SW of Abner Range 1:100,000 sheet

HOST ROCKS: Barney Creek Formation

STRUCTURAL SETTING: Small sub-basin between the Yah
Yah Fault and the Top Spring
Sub-Basin

GEOCHEMISTRY

ROCK CHIP			SOILS	STREAM SEDIMENTS
Cu	88	ppm.		
Pb	18	ppm.	None	None
Zn	13	ppm.		
Ba	860	ppm.	done	done
Au	<0.01	ppm.		

1 sample

ADDITIONAL COMMENTS: No ferruginous beds or gossanous
units, only low dips.

7.18 MARINER

(an ex C.E.C. and B.P. Pb Prospect)

LOCATION: NW corner of the Batten 1:100,000 sheet

HOST ROCKS: Tooganinie Fm
(dolomitic siltstones and shales including black shales)

STRUCTURAL SETTING: Adjacent to the N-S to NNW trending Mariner Fault with Tawallah Group basement to the west of the fault

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 115 ppm.	None done during present reconnaissance but extensive sampling by previous explorers showed Pb soil anomalies up to 2700 ppm. over a wide area.	
Pb 570 ppm.		
Zn 10 ppm.		
Ba 140 ppm.		
Au <0.01 ppm.		
Only 1 sample taken		

ADDITIONAL COMMENTS: B.P. discovered low-grade Pb mineralisation over a 6 km strike adjacent to the Mariner Fault within Tooganinie Fm black dolomitic shales dipping 30-40° W towards the fault. Mafic volcanics occur in the basement block and there is potential for Mt. Isa type Zn-Pb-Ag and Cu deposits.

7.19 JOHNSTONS

Cu-Pb
(an ex C.R.A. Prospect)

LOCATION: W part of the Batten 1:100,000 sheet on the S side of the Cape Crawford-Bauhinia Downs Road

HOST ROCKS: Tooganinie Fm dolomitic siltstones and shales

STRUCTURAL SETTING: Mineralisation developed along the NW trending Johnstons Fault and previously described as shear controlled

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 74 - 50 ppm. - 1.6%		
Pb 1.01 - 1.03%	None	None
Zn 27 - 99 ppm.		
Au both <0.01 ppm.	done	done

Total 2 samples

ADDITIONAL COMMENTS: CRA report 2-3m of 6.6% Cu, 1.75% Pb, 420 ppm Zn, 380 ppm Co, 370 ppm Ni and 79 ppm Ag from a shallow costean. Some of the mineralisation appears to be stratiform within thin dolomitic shale units.

7.20 HOT SPRING

LOCATION: On the extreme S edge of the Batten 1:100,000 sheet on Barney Creek

HOST ROCKS: Emmerugga Dolomite (ferruginous dolomitic shales)

STRUCTURAL SETTING: At the intersection of the NW trending Mariner Fault and NE trending Reward Fault

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 67 - 70 ppm.		
Pb 240 - 640 ppm.	None	None
Zn 305 - 405 ppm.		
Ba 280 - 380 ppm.	done	done
Au both <0.01 ppm.		

2 samples

ADDITIONAL COMMENTS: Steeply dipping lateritised, ferruginous Pb-Zn anomalous dolomitic shales outcrop poorly at the fault intersection.

7.21 TOOGANINIE NORTH SUB-BASIN

LOCATION: Extreme west of Abner Range
1:100,000 sheet on the E side of
Tooganinie Creek

HOST ROCKS: Barney Creek Formation containing
abundant pink K-tuff bands

STRUCTURAL SETTING: In a sub-basin developed at the
intersection of the NW trending
Cockatoo Fault and NE trending
Tooganinie Fault

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
Cu 83 - 86 ppm.		
Pb 12 - 28 ppm.	None	Refer to
Zn 73 - 175 ppm.		Tooganinie (5)
Ba 150 - 1040 ppm.	done	Prospect
Au both <0.01 ppm.		

ADDITIONAL COMMENTS: Small scattered gossanous nodules
within dark grey limited
dolomitic shales. Some slump
breccias. Small Cu working in
Emmerugga Dolomite just north of
prospect area.

7.22 MALLAPUNYAH FAULT

LOCATION: Central W part of Abner Range
1:100,000 sheet

HOST ROCKS: Tatoola Sandstone/Tooganinie Fm

STRUCTURAL SETTING: At the intersection of the major
NW trending Mallapunyah Fault and
several smaller N-S faults

GEOCHEMISTRY

ROCK CHIP	SOILS	STREAM SEDIMENTS
None done in present programme but up 3550 ppm. Cu and 35.3% Ba obtained by C.S.R. from an area 3KM to the SE	None done	None done

ADDITIONAL COMMENTS: A remote-sensing Fe anomaly.

Ferruginous Cretaceous cap rocks
noted over flat dipping Tatoola
Sandstone. C.S.R. obtained up to
3550 ppm. Cu and 35.3% Ba in
Emmerugga Dolomite along the
Mallapunyah Fault 3km to the SE.

8. CONCLUSIONS AND RECOMMENDATIONS

The selection of geologically favourable target areas has been an effective method for exploring this large project area and soil and rock chip sampling have proven to be the most useful methods for locating areas of anomalous metal values. A review of all results obtained during the programme suggests 6 main areas for follow-up in the 1989 field season. These are Hammers, Mallapunyah, T1 South, Yalco, "Y" Prospect and Clarke Creek.

The Hammers and Mallapunyah areas show highly anomalous base metal values for both rock and soil samples, while the T1 South area returned anomalous Cu in rock samples and Au in soil. At the "Y" prospect Zn and Ba values are anomalous in rocks and soil values are elevated for Zn and highly anomalous for Cu. Rock chip samples of manganiferous ironstone at Clarke Creek returned Ba values in excess of 1%. The Yalco prospect is considered to have an excellent geological setting but helicopter reconnaissance and sampling indicated that the area is largely covered by transported soil and will require sub-surface testing.

The following programme is recommended for the 1989 field season.

1. Detailed mapping and sampling of the 6 areas mentioned above, with follow-up drilling where appropriate.
2. Examination of all newly-released NTGS mapping of the northern ELs in preparation for a helicopter reconnaissance programme on the area north of 16° 30' S.
3. Continued evaluation of areas of known mineralisation and newly-generated target areas.

9. REFERENCES

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10. EXPENDITURE

<u>Expense Category</u>	<u>Total</u>
Accounting	3,000
Couriers/Freight	273
Insurance	692
Motor Vehicle Expenses	12,842
Field Equipment	6,094
Analyses	13,626
Geological Consulting	93,488
Petrology	152
Geophysics	5,640
Drafting/Printing	7,438
Tenement/Property Costs (Fees, Rents, Bonds)	20,585
Tenement Maintenance (Consultants)	486
Travel & Accommodation	18,513
Data Acquisition	1,735
Equipment Leases/Rentals	425
Camp Facilities & Supplies	4,936
Helicopter	23,287
Office Rent	250
Communications	1,706
Overheads/administration	31,506
Wages	320
TOTAL	\$ 246,994 =====

This expenditure is for the accounting period ending
30th April, 1989.

MCARTHUR RIVER BASIN SAMPLE RESULTS

- NUMERICAL ORDER -

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Al	Cu	Pb	Zn	Ba
T1(S)	BATTEN			7751	STREAM	-0.001	12	31	39	
T1(S)	BATTEN			7752	STREAM	-0.001	7	12	7	
LEILA S.B.	ABNER			7753	STREAM	-0.001	17	16	29	
LEILA S.B.	ABNER			7754	STREAM	-0.001	10	13	7	
LEILA S.B.	ABNER			7755	STREAM	-0.001	15	13	6	
LEILA S.B.	ABNER			7756	STREAM	-0.001	13	12	3	
LEILA S.B.	ABNER			7757	STREAM	-0.001	11	17	10	
LEILA S.B.	ABNER			7758	STREAM	-0.001	13	21	12	
LEILA S.B.	ABNER			7759	STREAM	-0.001	14	12	10	
LEILA S.B.	ABNER			7760	STREAM	-0.001	14	32	6	
LEILA S.B.	ABNER			7761	STREAM	-0.001	17	19	22	
LEILA S.B.	ABNER			7762	STREAM	-0.001	11	12	7	
LEILA S.B.	ABNER			7763	STREAM	-0.001	12	17	9	
LEILA S.B.	ABNER			7764	STREAM	-0.001	7	3	3	
LEILA S.B.	ABNER			7765	STREAM	-0.001	7	3	10	
LEILA S.B.	ABNER			7766	STREAM	-0.001	-2	10	14	
LEILA S.B.	ABNER			7767	STREAM	-0.001	6	10	17	
LEILA S.B.	ABNER			7768	STREAM	-0.001	-2	-5	5	
MYSTERY S.B.	ABNER			7769	STREAM	-0.001	11	10	11	
MYSTERY S.B.	ABNER			7770	STREAM	-0.001	39	10	10	
MYSTERY S.B.	ABNER			7771	STREAM	-0.001	18	20	52	
MYSTERY S.B.	ABNER			7772	STREAM	-0.001	2	7	14	
MYSTERY S.B.	ABNER			7773	STREAM	0.003	6	10	13	
MYSTERY S.B.	ABNER			7774	STREAM	-0.001	7	-5	17	
MYSTERY S.B.	ABNER			7775	STREAM	-0.001	-2	-5	11	
MYSTERY S.B.	ABNER			7776	STREAM	-0.001	14	16	33	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7777	SOIL	0.003	12	24	10	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7778	SOIL	0.002	16	20	21	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7779	SOIL	-0.001	17	36	14	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7780	SOIL	0.002	5	-5	13	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7781	SOIL	0.001	11	18	14	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7782	SOIL	-0.001	9	15	12	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7783	SOIL	-0.001	11	14	16	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7784	SOIL	0.001	9	17	11	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7785	SOIL	-0.001	3	16	11	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7786	SOIL	-0.001	3	12	9	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7787	SOIL	-0.001	11	20	19	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7788	SOIL	-0.001	11	17	13	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7789	SOIL	0.001	3	10	18	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7790	SOIL	-0.001	14	20	12	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7791	SOIL	-0.001	14	19	17	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7792	SOIL	-0.001	11	17	12	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7793	SOIL	0.001	12	15	15	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7794	SOIL	-0.001	14	30	13	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7795	SOIL	-0.001	19	31	10	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7796	SOIL	-0.001	13	30	3	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7797	SOIL	-0.001	12	32	9	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7798	SOIL	-0.001	16	41	12	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7799	SOIL	-0.001	10	13	2	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7800	SOIL	0.002	11	10	13	
LITTLE CREEK SUB-BASIN	ABNER		LCS2	7801	SOIL	0.002	6	9	25	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7802	SOIL	-0.001	11	13	22	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7803	SOIL	-0.001	12	22	20	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7804	SOIL	-0.001	17	30	25	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7805	SOIL	0.003	15	21	13	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7806	SOIL	0.014	9	13	30	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7807	SOIL	0.010	2	13	9	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7808	SOIL	0.008	14	16	12	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7809	SOIL	0.005	15	19	33	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7810	SOIL	0.004	15	19	22	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7811	SOIL	0.003	13	15	20	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7812	SOIL	0.003	11	13	16	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7813	SOIL	0.003	17	13	13	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7814	SOIL	0.002	19	23	3	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7815	SOIL	0.002	16	21	14	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7816	SOIL	0.002	20	41	33	
LITTLE CREEK SUB-BASIN	ABNER		LCS3	7817	SOIL	0.003	13	22	7	
KILGOUR RIVER	ABNER			7818	STREAM	0.002	31	60	26	
KILGOUR RIVER	ABNER			7819	STREAM	0.002	26	41	34	
KILGOUR RIVER	ABNER			7820	STREAM	0.001	19	28	23	
KILGOUR RIVER	ABNER			7821	STREAM	0.001	14	30	21	
KILGOUR RIVER	ABNER			7822	STREAM	0.001	24	145	34	
KILGOUR RIVER	ABNER			7823	STREAM	-0.001	3	-5	7	
KILGOUR RIVER	ABNER			7824	STREAM	0.001	14	10	16	
KILGOUR RIVER	ABNER			7825	STREAM	-0.001	7	-5	2	
KILGOUR RIVER	ABNER			7826	STREAM	-0.001	11	7	12	
KILGOUR RIVER	ABNER			7827	SOIL	-0.001	22	23	36	
KILGOUR RIVER	ABNER			7828	SOIL	-0.001	22	70	26	
KILGOUR RIVER	ABNER			7829	SOIL	-0.001	21	6	6	
KILGOUR RIVER	ABNER			7830	SOIL	0.001	10	-5	12	
KILGOUR RIVER	ABNER			7831	SOIL	-0.001	9	-5	41	
KILGOUR RIVER	ABNER			7832	SOIL	0.002	12	-5	14	
KILGOUR RIVER	ABNER			7833	SOIL	-0.001	2	27	93	
KILGOUR RIVER	ABNER			7834	SOIL	-0.001	3	14	31	
KILGOUR RIVER	ABNER			7835	SOIL	-0.001	7	10	24	
KILGOUR RIVER	ABNER			7836	SOIL	-0.001	14	19	63	
KILGOUR RIVER	ABNER			7837	SOIL	-0.001	7	-5	2	
KILGOUR RIVER	ABNER			7838	STREAM	-0.001	10	-5	14	
KILGOUR RIVER	ABNER			7839	STREAM	-0.001	2	-5	14	
KILGOUR RIVER	ABNER			7840	STREAM	-0.001	17	11	23	
KILGOUR RIVER	ABNER			7841	STREAM	-0.001	11	-5	14	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
MALAPUNYAH SUB-BASIN	ABNER			7342	STREAM	0.002	21	13	21	
MALAPUNYAH SUB-BASIN	ABNER			7343	STREAM	0.002	17	13	41	
MALAPUNYAH SUB-BASIN	ABNER			7344	STREAM	0.003	20	15	26	
TOOGANINIE SUB-BASIN	ABNER			7345	STREAM	-0.001	14	32	16	
TOOGANINIE SUB-BASIN	ABNER			7346	STREAM	0.001	20	10	32	
TOOGANINIE SUB-BASIN	ABNER			7347	STREAM	0.005	8	-5	18	
TOOGANINIE SUB-BASIN	ABNER			7348	STREAM	0.004	26	32	33	
TOOGANINIE SUB-BASIN	ABNER			7349	STREAM	0.002	22	29	39	
TOOGANINIE SUB-BASIN	ABNER			7350	STREAM	0.001	9	14	17	
TOOGANINIE SUB-BASIN	ABNER			7351	STREAM	0.002	31	125	38	
TOOGANINIE SUB-BASIN	ABNER			7352	STREAM	0.005	19	44	44	
TOOGANINIE SUB-BASIN	ABNER			7353	STREAM	0.005	6	9	33	
TOOGANINIE SUB-BASIN	ABNER			7354	STREAM	0.004	27	23	29	
TOOGANINIE SUB-BASIN	ABNER			7355	STREAM	0.005	17	9	29	
TOOGANINIE SUB-BASIN	ABNER			7356	STREAM	0.003	20	15	33	
TOOGANINIE SUB-BASIN	ABNER			7357	STREAM	0.002	21	10	29	
DINGO CREEK SUB-BASIN	ABNER			7358	STREAM	0.001	9	3	21	
DINGO CREEK SUB-BASIN	ABNER			7359	STREAM	0.001	16	9	7	
DINGO CREEK SUB-BASIN	ABNER			7360	STREAM	-0.001	13	6	6	
MALAPUNYAH SUB-BASIN	ABNER			7361	STREAM	-0.001	7	9	14	
MALAPUNYAH SUB-BASIN	ABNER			7362	STREAM	0.001	9	11	17	
MALAPUNYAH SUB-BASIN	ABNER			7363	STREAM	-0.001	9	9	17	
MALAPUNYAH SUB-BASIN	ABNER			7364	STREAM	-0.001	3	10	17	
MALAPUNYAH SUB-BASIN	ABNER			7365	STREAM	-0.001	11	15	30	
MALAPUNYAH SUB-BASIN	ABNER			7366	STREAM	-0.001	9	12	21	
MALAPUNYAH SUB-BASIN	ABNER			7367	STREAM	-0.001	9	3	7	
MALAPUNYAH SUB-BASIN	ABNER			7368	STREAM	-0.001	11	7	6	
Y	ABNER			7369	STREAM	0.001	2	9	14	
CLARKE CREEK	BATTEN			7370	STREAM	0.001	16	9	22	
T1(N)	BATTEN			7371	STREAM	-0.001	7	3	7	
YALCO	BATTEN			7372	STREAM	0.002	3	3	5	
YALCO	BATTEN			7373	STREAM	0.002	6	-5	5	
YALCO	BATTEN			7374	STREAM	-0.001	3	2	4	
LITTLE CREEK SUB-BASIN	ABNER			7375	SOIL	-0.001	16	12	14	
LITTLE CREEK SUB-BASIN	ABNER			7376	SOIL	0.002	9	9	15	
LITTLE CREEK SUB-BASIN	ABNER			7377	SOIL	0.002	12	22	12	
LITTLE CREEK SUB-BASIN	ABNER			7378	SOIL	-0.001	17	25	11	
LITTLE CREEK SUB-BASIN	ABNER			7379	SOIL	0.004	16	25	16	
LITTLE CREEK SUB-BASIN	ABNER			7380	SOIL	0.001	12	16	12	
LITTLE CREEK SUB-BASIN	ABNER			7381	SOIL	-0.001	15	20	17	
LITTLE CREEK SUB-BASIN	ABNER			7382	SOIL	0.002	22	34	37	
LITTLE CREEK SUB-BASIN	ABNER			7383	SOIL	0.001	12	12	10	
LITTLE CREEK SUB-BASIN	ABNER			7384	SOIL	-0.001	12	13	17	
LITTLE CREEK SUB-BASIN	ABNER			7385	SOIL	0.002	10	14	12	
YALCO	BATTEN			7386	STREAM	0.001	3	-5	3	
YALCO	BATTEN			7387	STREAM	-0.001	6	-5	3	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
YALCO	BATTEN			7888	STREAM	0.001	7	-5	5	
YALCO	BATTEN			7889	STREAM	0.002	13	6	11	
YALCO	BATTEN			7890	STREAM	0.001	9	-5	2	
YALCO	BATTEN			7891	STREAM	0.002	3	6	13	
YALCO	BATTEN			7892	STREAM	0.001	9	-5	5	
YALCO	BATTEN			7893	STREAM	0.001	12	9	6	
YALCO	BATTEN			7894	STREAM	0.002	15	11	15	
YALCO	BATTEN			7895	STREAM	0.002	9	6	11	
T1(N)	BATTEN			7896	STREAM	-0.001	9	-5	7	
T1(N)	BATTEN			7897	STREAM	-0.001	5	-5	3	
T1(N)	BATTEN			7898	STREAM	0.001	6	-5	3	
T1(N)	BATTEN			7899	STREAM	0.002	6	-5	4	
T1(N)	BATTEN			7900	STREAM	0.004	9	9	14	
T1(N)	BATTEN			7901	STREAM	-0.001	9	-5	6	
T1(N)	BATTEN			7902	STREAM	-0.001	9	-5	2	
T1(N)	BATTEN			7903	STREAM	-0.001	7	-5	6	
T1(S)	BATTEN			7904	STREAM	0.001	3	-5	6	
T1(S)	BATTEN			7905	STREAM	0.002	5	-5	10	
T1(S)	BATTEN			7906	STREAM	-0.001	11	-5	9	
T1(S)	BATTEN			7907	STREAM	0.001	9	-5	7	
"9" ANOMALY	BATTEN			7908	STREAM	0.002	3	-5	10	
"9" ANOMALY	BATTEN			7909	STREAM	0.001	6	-5	5	
"9" ANOMALY	BATTEN			7910	STREAM	-0.001	9	-5	10	
"9" ANOMALY	BATTEN			7911	STREAM	0.002	6	-5	3	
"9" ANOMALY	BATTEN			7912	STREAM	-0.001	11	-5	3	
HAMMERS	MANTANGULA			7913	STREAM	-0.001	12	6	9	
HAMMERS	MANTANGULA			7914	STREAM	0.001	16	-5	13	
HAMMERS	MANTANGULA			7915	STREAM	-0.001	20	9	34	
HAMMERS	MANTANGULA			7916	STREAM	0.002	10	-5	10	
HAMMERS	MANTANGULA			7917	STREAM	-0.001	5	-5	16	
HAMMERS	MANTANGULA			7918	STREAM	0.002	7	-5	6	
CLARKE CREEK	BATTEN			7919	STREAM	0.003	3	-5	3	
CLARKE CREEK	BATTEN			7920	STREAM	0.002	7	-5	6	
CLARKE CREEK	BATTEN			7921	STREAM	0.001	11	13	12	
CLARKE CREEK	BATTEN			7922	STREAM	-0.001	5	2	3	
CLARKE CREEK	BATTEN			7923	STREAM	-0.001	9	7	6	
CLARKE CREEK	BATTEN			7924	STREAM	0.001	3	9	5	
CLARKE CREEK	BATTEN			7925	STREAM	-0.001	7	7	3	
CLARKE CREEK	BATTEN			7926	STREAM	-0.001	6	-5	4	
CLARKE CREEK	BATTEN			7927	STREAM	-0.001	10	-5	13	
CLARKE CREEK	BATTEN			7928	STREAM	-0.001	3	-5	5	
CLARKE CREEK	BATTEN			7929	STREAM	-0.001	29	7	14	
LITTLE CREEK S.B.	ABNER		LCS1	7951	SOIL	0.002	12	25	3	
LITTLE CREEK S.B.	ABNER		LCS1	7952	SOIL	0.002	10	33	7	
LITTLE CREEK S.B.	ABNER		LCS1	7953	SOIL	0.002	11	30	3	
LITTLE CREEK S.B.	ABNER		LCS1	7954	SOIL	0.002	13	19	3	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	As
LITTLE CREEK S.B.	ABNER		LCS1	7955	SOIL	0.002	10	30	5	
LITTLE CREEK S.B.	ABNER		LCS1	7956	SOIL	0.002	11	23	5	
LITTLE CREEK S.B.	ABNER		LCS1	7957	SOIL	0.001	12	18	6	
LITTLE CREEK S.B.	ABNER		LCS1	7958	SOIL	0.001	13	17	9	
LITTLE CREEK S.B.	ABNER		LCS1	7959	SOIL	0.001	10	15	7	
LITTLE CREEK S.B.	ABNER		LCS1	7960	SOIL	0.001	8	17	6	
LITTLE CREEK S.B.	ABNER		LCS1	7961	SOIL	0.001	8	16	4	
LITTLE CREEK S.B.	ABNER		LCS1	7962	SOIL	0.004	10	19	5	
LITTLE CREEK S.B.	ABNER		LCS1	7963	SOIL	0.003	11	24	9	
LITTLE CREEK S.B.	ABNER		LCS1	7964	SOIL	0.002	10	19	3	
LITTLE CREEK S.B.	ABNER		LCS1	7965	SOIL	0.001	11	24	7	
LITTLE CREEK S.B.	ABNER		LCS1	7966	SOIL	0.014	10	21	5	
LITTLE CREEK S.B.	ABNER		LCS1	7967	SOIL	0.002	9	22	6	
LITTLE CREEK S.B.	ABNER		LCS1	7968	SOIL	0.002	11	23	5	
LITTLE CREEK S.B.	ABNER		LCS1	7969	SOIL	-0.001	10	16	5	
LITTLE CREEK S.B.	ABNER		LCS1	7970	SOIL	-0.001	11	23	10	
LITTLE CREEK S.B.	ABNER		LCS1	7971	SOIL	0.001	10	16	7	
LITTLE CREEK S.B.	ABNER		LCS1	7972	SOIL	-0.001	17	34	12	
LITTLE CREEK S.B.	ABNER		LCS1	7973	SOIL	0.001	13	36	4	
LITTLE CREEK S.B.	ABNER		LCS1	7974	SOIL	-0.001	10	34	6	
LITTLE CREEK S.B.	ABNER		LCS1	7975	SOIL	-0.001	9	16	6	
LITTLE CREEK S.B.	ABNER		LCS1	7976	SOIL	-0.001	9	19	6	
LITTLE CREEK S.B.	ABNER		LCS1	7977	SOIL	-0.001	10	17	7	
LITTLE CREEK S.B.	ABNER		LCS1	7978	SOIL	-0.001	13	36	7	
LITTLE CREEK S.B.	ABNER		LCS1	7979	SOIL	-0.001	11	39	9	
LITTLE CREEK S.B.	ABNER		LCS1	7980	SOIL	-0.001	13	31	12	
LITTLE CREEK S.B.	ABNER		LCS1	7981	SOIL	0.02	11	29	10	
LITTLE CREEK S.B.	ABNER		LCS1	7982	SOIL	0.002	12	25	13	
LITTLE CREEK S.B.	ABNER		LCS1	7983	SOIL	0.003	10	11	7	
LITTLE CREEK S.B.	ABNER		LCS1	7984	SOIL	-0.001	12	20	14	
LITTLE CREEK S.B.	ABNER		LCS5	7985	SOIL	0.008	9	23	7	
LITTLE CREEK S.B.	ABNER		LCS5	7986	SOIL	-0.001	9	37	11	
LITTLE CREEK S.B.	ABNER		LCS5	7987	SOIL	0.002	11	70	21	
LITTLE CREEK S.B.	ABNER		LCS5	7988	SOIL	0.001	16	53	23	
LITTLE CREEK S.B.	ABNER		LCS5	7989	SOIL	0.001	12	77	29	
LITTLE CREEK S.B.	ABNER		LCS5	7990	SOIL	-0.001	14	53	3	
LITTLE CREEK S.B.	ABNER		LCS5	7991	SOIL	-0.001	11	42	7	
LITTLE CREEK S.B.	ABNER		LCS5	7992	SOIL	-0.001	9	31	6	
LITTLE CREEK S.B.	ABNER		LCS5	7993	SOIL	-0.001	11	32	9	
LITTLE CREEK S.B.	ABNER		LCS5	7994	SOIL	0.001	12	31	7	
LITTLE CREEK S.B.	ABNER		LCS5	7995	SOIL	-0.001	18	53	3	
LITTLE CREEK S.B.	ABNER		LCS5	7996	SOIL	0.001	19	33	20	
LITTLE CREEK S.B.	ABNER		LCS5	7997	SOIL	-0.001	13	30	16	
LITTLE CREEK S.B.	ABNER		LCS5	7998	SOIL	-0.001	15	52	16	
LITTLE CREEK S.B.	ABNER		LCS5	7999	SOIL	-0.001	12	46	20	
LITTLE CREEK S.B.	ABNER		LCS5	8000	SOIL	-0.001	6	17	10	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
YALCO	BATTEN	EAST		3001	SOIL	-0.001	17	20	9	
YALCO	BATTEN	EAST		3002	SOIL	-0.001	12	12	8	
YALCO	BATTEN	EAST		3003	SOIL	-0.001	28	45	24	
YALCO	BATTEN	EAST		3004	SOIL	-0.001	3	-5	4	
YALCO	BATTEN	EAST		3005	SOIL	-0.001	13	20	16	
YALCO	BATTEN	EAST		3006	SOIL	-0.001	18	14	24	
YALCO	BATTEN	EAST		3007	SOIL	-0.001	10	10	8	
YALCO	BATTEN	EAST		3008	SOIL	-0.001	11	11	10	
YALCO	BATTEN	EAST		3009	SOIL	-0.001	12	13	7	
YALCO	BATTEN	EAST		3010	SOIL	0.002	17	25	14	
YALCO	BATTEN	EAST		3011	SOIL	0.002	25	65	21	
YALCO	BATTEN	EAST		3012	SOIL	0.002	25	97	21	
YALCO	BATTEN	EAST		3013	SOIL	0.001	7	13	7	
YALCO	BATTEN	EAST		3014	SOIL	-0.001	3	15	7	
YALCO	BATTEN	EAST		3015	SOIL	-0.001	11	11	14	
YALCO	BATTEN	EAST		3016	SOIL	0.002	15	12	13	
YALCO	BATTEN	EAST		3017	SOIL	0.002	27	15	44	
YALCO	BATTEN	WEST		3018	SOIL	-0.001	20	22	49	
YALCO	BATTEN	WEST		3019	SOIL	-0.001	20	32	44	
YALCO	BATTEN	WEST		3020	SOIL	0.001	11	13	61	
YALCO	BATTEN	WEST		3021	SOIL	-0.001	3	11	3	
YALCO	BATTEN	WEST		3022	SOIL	-0.001	11	21	32	
YALCO	BATTEN	WEST		3023	SOIL	-0.001	9	13	36	
YALCO	BATTEN	WEST		3024	SOIL	-0.001	8	11	26	
YALCO	BATTEN	WEST		3025	SOIL	-0.001	7	15	6	
YALCO	BATTEN	WEST		3026	SOIL	-0.001	5	7	5	
YALCO	BATTEN	WEST		3027	SOIL	-0.001	4	-5	4	
YALCO	BATTEN	WEST		3028	SOIL	-0.001	18	7	9	
YALCO	BATTEN	WEST		3029	SOIL	-0.001	21	20	49	
YALCO	BATTEN	WEST		3030	SOIL	-0.001	4	-5	2	
YALCO	BATTEN	WEST		3031	SOIL	-0.001	13	14	11	
YALCO	BATTEN	WEST		3032	SOIL	-0.001	10	17	3	
T1(N)	BATTEN			3033	SOIL	-0.001	4	-5	2	
T1(N)	BATTEN			3034	SOIL	-0.001	6	3	7	
T1(N)	BATTEN			3035	SOIL	-0.001	10	-5	6	
T1(N)	BATTEN			3036	SOIL	-0.001	5	-5	3	
T1(N)	BATTEN			3037	SOIL	-0.001	5	-5	3	
T1(N)	BATTEN			3038	SOIL	-0.001	12	10	4	
T1(N)	BATTEN			3039	SOIL	-0.001	3	5	5	
T1(N)	BATTEN			3040	SOIL	-0.001	6	-5	3	
T1(N)	BATTEN			3041	SOIL	-0.001	7	9	3	
T1(N)	BATTEN			3042	SOIL	-0.001	7	12	4	
T1(N)	BATTEN			3043	SOIL	-0.001	5	9	3	
T1(N)	BATTEN			3044	SOIL	0.001	9	12	5	
T1(N)	BATTEN			3045	SOIL	-0.001	5	9	3	
T1(N)	BATTEN			3046	SOIL	-0.001	7	7	8	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Al	Cu	Pb	Zn	Ba
T1(N)	BATTEN			3059	SOIL	-0.001	5	21	6	
T1(N)	BATTEN			3060	SOIL	0.002	6	21	6	
T1(N)	BATTEN			3061	SOIL	-0.001	7	19	7	
T1(N)	BATTEN			3062	SOIL	-0.001	5	21	7	
T1(N)	BATTEN			3063	SOIL	-0.001	5	12	6	
T1(N)	BATTEN			3064	SOIL	-0.001	3	-5	3	
T1(N)	BATTEN			3065	SOIL	-0.001	3	-5	2	
T1(N)	BATTEN			3066	SOIL	-0.001	3	-5	2	
T1(N)	BATTEN			3067	SOIL	-0.001	4	-5	4	
T1(N)	BATTEN			3068	SOIL	-0.001	10	12	2	
T1(N)	BATTEN			3069	SOIL	-0.001	11	9	4	
T1(N)	BATTEN			3070	SOIL	-0.001	3	6	6	
T1(N)	BATTEN			3071	SOIL	0.001	6	-5	2	
T1(N)	BATTEN			3072	SOIL	-0.001	6	-5	-2	
T1(N)	BATTEN			3073	SOIL	-0.001	6	-5	4	
T1(N)	BATTEN			3074	SOIL	-0.001	6	-5	3	
T1(N)	BATTEN			3075	SOIL	-0.001	5	-5	2	
T1(N)	BATTEN			3076	SOIL	0.001	7	9	5	
T1(N)	BATTEN			3077	SOIL	-0.001	6	7	4	
T1(N)	BATTEN			3078	SOIL	0.002	6	7	4	
T1(N)	BATTEN			3079	SOIL	-0.001	3	7	7	
T1(N)	BATTEN			3080	SOIL	0.001	5	-5	-2	
T1(N)	BATTEN			3081	SOIL	-0.001	7	-5	6	
T1(N)	BATTEN			3082	SOIL	-0.001	7	10	5	
T1(N)	BATTEN			3083	SOIL	0.001	4	-5	2	
T1(N)	BATTEN			3084	SOIL	-0.001	9	16	2	
TOOGANINIE S.B. SOUTH	ABNER			3085	SOIL	0.002	9	15	36	
TOOGANINIE S.B. SOUTH	ABNER			3086	SOIL	0.002	30	15	15	
TOOGANINIE S.B. SOUTH	ABNER			3087	SOIL	0.002	37	13	21	
TOOGANINIE S.B. SOUTH	ABNER			3088	SOIL	-0.001	26	15	16	
TOOGANINIE S.B. SOUTH	ABNER			3089	SOIL	0.002	25	12	21	
TOOGANINIE S.B. SOUTH	ABNER			3090	SOIL	0.003	13	-5	23	
TOOGANINIE S.B. SOUTH	ABNER			3091	SOIL	0.002	9	6	21	
TOOGANINIE S.B. SOUTH	ABNER			3092	SOIL	0.002	14	14	9	
TOOGANINIE S.B. SOUTH	ABNER			3093	SOIL	0.001	20	12	3	
TOOGANINIE S.B. SOUTH	ABNER			3094	SOIL	0.001	11	7	3	
TOOGANINIE S.B. SOUTH	ABNER			3095	SOIL	0.001	15	16	55	
TOOGANINIE S.B. SOUTH	ABNER			3096	SOIL	-0.001	36	10	12	
TOOGANINIE S.B. SOUTH	ABNER			3097	SOIL	0.001	11	13	12	
TOOGANINIE S.B. SOUTH	ABNER			3098	SOIL	0.001	10	13	21	
TOOGANINIE S.B. SOUTH	ABNER			3099	SOIL	0.001	7	10	15	
TOOGANINIE S.B. SOUTH	ABNER			3100	SOIL	-0.001	10	15	22	
MALAPUNYAH	ABNER		GL6	3101	SOIL	-0.001	9	23	21	
MALAPUNYAH	ABNER		GL6	3102	SOIL	-0.001	6	17	13	
MALAPUNYAH	ABNER		GL6	3103	SOIL	-0.001	6	13	13	
MALAPUNYAH	ABNER		GL6	3104	SOIL	-0.001	32	40	160	
MALAPUNYAH	ABNER		GL6	3105	SOIL	-0.001	14	22	50	
MALAPUNYAH	ABNER		GL6	3106	SOIL	-0.001	12	24	41	

McARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	As	Cu	Pb	Zn	Ba
MALAPUNYAH	ABNER		GL6	3107	SOIL	-0.001	56	76	140	
MALAPUNYAH	ABNER		GL6	3108	SOIL	0.002	16	44	56	
MALAPUNYAH	ABNER		GL6	3109	SOIL	-0.001	55	24	200	
MALAPUNYAH	ABNER		GL6	3110	SOIL	-0.001	39	34	50	
MALAPUNYAH	ABNER		GL6	3111	SOIL	-0.001	34	72	46	
MALAPUNYAH	ABNER		GL6	3112	SOIL	-0.001	33	55	47	
MALAPUNYAH	ABNER		GL6	3113	SOIL	-0.001	32	61	21	
MALAPUNYAH	ABNER		GL6	3114	SOIL	-0.001	36	44	17	
MALAPUNYAH	ABNER		GL6	3115	SOIL	-0.001	9	37	37	
MALAPUNYAH	ABNER		GL6	3116	SOIL	-0.001	23	36	24	
MALAPUNYAH	ABNER		GL6	3117	SOIL	-0.001	27	120	16	
MALAPUNYAH	ABNER		GL6	3118	SOIL	-0.001	15	96	10	
MALAPUNYAH	ABNER		GL6	3119	SOIL	0.002	23	52	12	
MALAPUNYAH	ABNER		GL6	3120	SOIL	-0.001	24	75	10	
MALAPUNYAH	ABNER		GL6	3121	SOIL	-0.001	13	29	39	
DILLINGHAMS BORE	ABNER		GL1	3122	SOIL	-0.001	7	12	6	
DILLINGHAMS BORE	ABNER		GL1	3123	SOIL	0.002	11	14	10	
DILLINGHAMS BORE	ABNER		GL1	3124	SOIL	0.001	11	13	14	
DILLINGHAMS BORE	ABNER		GL1	3125	SOIL	-0.001	12	16	2	
DILLINGHAMS BORE	ABNER		GL1	3126	SOIL	0.002	16	16	20	
DILLINGHAMS BORE	ABNER		GL1	3127	SOIL	-0.001	11	14	17	
DILLINGHAMS BORE	ABNER		GL1	3128	SOIL	-0.001	11	15	16	
DILLINGHAMS BORE	ABNER		GL1	3129	SOIL	-0.001	3	14	13	
DILLINGHAMS BORE	ABNER		GL1	3130	SOIL	-0.001	9	16	16	
DILLINGHAMS BORE	ABNER		GL1	3131	SOIL	-0.001	10	15	12	
DILLINGHAMS BORE	ABNER		GL1	3132	SOIL	-0.001	16	14	13	
DILLINGHAMS BORE	ABNER		GL1	3133	SOIL	-0.001	13	13	12	
DILLINGHAMS BORE	ABNER		GL1	3134	SOIL	-0.001	7	11	10	
DILLINGHAMS BORE	ABNER		GL1	3135	SOIL	-0.001	7	12	3	
DILLINGHAMS BORE	ABNER		GL1	3136	SOIL	-0.001	6	13	9	
DILLINGHAMS BORE	ABNER		GL1	3137	SOIL	-0.001	6	15	7	
DILLINGHAMS BORE	ABNER		GL1	3138	SOIL	-0.001	11	15	7	
DILLINGHAMS BORE	ABNER		GL1	3139	SOIL	-0.001	11	12	11	
DILLINGHAMS BORE	ABNER		GL1	3140	SOIL	-0.001	15	19	3	
DILLINGHAMS BORE	ABNER		GL1	3141	SOIL	-0.001	13	19	12	
DILLINGHAMS BORE	ABNER		GL1	3142	SOIL	-0.001	12	13	7	
DILLINGHAMS BORE	ABNER		GL2	3143	SOIL	-0.001	7	11	10	
DILLINGHAMS BORE	ABNER		GL2	3144	SOIL	-0.001	9	13	14	
DILLINGHAMS BORE	ABNER		GL2	3145	SOIL	-0.001	3	13	10	
DILLINGHAMS BORE	ABNER		GL2	3146	SOIL	-0.001	3	21	3	
DILLINGHAMS BORE	ABNER		GL2	3147	SOIL	0.002	9	16	7	
DILLINGHAMS BORE	ABNER		GL2	3148	SOIL	0.003	7	12	11	
DILLINGHAMS BORE	ABNER		GL2	3149	SOIL	-0.001	7	10	2	
DILLINGHAMS BORE	ABNER		GL2	3150	SOIL	-0.001	7	10	7	
DILLINGHAMS BORE	ABNER		GL2	3151	SOIL	0.002	6	10	7	
DILLINGHAMS BORE	ABNER		GL2	3152	SOIL	0.002	5	14	14	
DILLINGHAMS BORE	ABNER		GL2	3153	SOIL	-0.001	14	23	17	
DILLINGHAMS BORE	ABNER		GL2	3154	SOIL	0.001	15	16	25	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Ag	Cu	Pb	Zn	Ba
DILLINGHAMS BORE	ABNER		GL2	2155	SOIL	0.001	3	13	9	
DILLINGHAMS BORE	ABNER		GL2	2156	SOIL	-0.001	7	10	2	
DILLINGHAMS BORE	ABNER		GL2	2157	SOIL	-0.001	7	7	2	
DILLINGHAMS BORE	ABNER		GL2	2152	SOIL	0.011	7	10	2	
DILLINGHAMS BORE	ABNER		GL2	2159	SOIL	-0.001	3	7	5	
DILLINGHAMS BORE	ABNER		GL2	2160	SOIL	-0.001	4	-5	4	
DILLINGHAMS BORE	ABNER		GL2	2161	SOIL	-0.001	4	7	4	
DILLINGHAMS BORE	ABNER		GL2	2162	SOIL	-0.001	5	3	5	
DILLINGHAMS BORE	ABNER		GL2	2163	SOIL	-0.001	5	10	5	
LITTLE CREEK S.B.	ABNER		LCS9	2164	SOIL	-0.001	15	30	16	
LITTLE CREEK S.B.	ABNER		LCS9	2165	SOIL	0.002	16	29	15	
LITTLE CREEK S.B.	ABNER		LCS9	2166	SOIL	-0.001	14	22	12	
LITTLE CREEK S.B.	ABNER		LCS9	2167	SOIL	-0.001	17	12	17	
LITTLE CREEK S.B.	ABNER		LCS9	2163	SOIL	-0.001	11	25	62	
LITTLE CREEK S.B.	ABNER		LCS9	2169	SOIL	-0.001	14	21	12	
LITTLE CREEK S.B.	ABNER		CSL9	2170	SOIL	-0.001	11	27	12	
LITTLE CREEK S.B.	ABNER		QLS9	2171	SOIL	-0.001	16	31	11	
LITTLE CREEK S.B.	ABNER		LCS9	2172	SOIL	-0.001	16	62	12	
LITTLE CREEK S.B.	ABNER		LCS9	2173	SOIL	-0.001	12	60	20	
LITTLE CREEK S.B.	ABNER		LCS9	2174	SOIL	-0.001	12	26	3	
LITTLE CREEK S.B.	ABNER		LCS9	2175	SOIL	-0.001	9	14	7	
LITTLE CREEK S.B.	ABNER		LCS9	2176	SOIL	0.001	12	24	11	
LITTLE CREEK S.B.	ABNER		LCS9	2177	SOIL	0.007	14	-5	16	
LITTLE CREEK S.B.	ABNER		LCS9	2173	SOIL	-0.001	4	9	10	
LITTLE CREEK S.B.	ABNER		LCS9	2179	SOIL	0.003	5	9	19	
LITTLE CREEK S.B.	ABNER		LCS9	2180	SOIL	0.002	5	11	11	
LITTLE CREEK S.B.	ABNER		LCS9	2181	SOIL	0.002	5	9	9	
LITTLE CREEK S.B.	ABNER		LCS9	2182	SOIL	0.001	5	11	14	
LITTLE CREEK S.B.	ABNER		LCS9	2183	SOIL	-0.001	4	11	14	
LITTLE CREEK S.B.	ABNER		LCS9	2184	SOIL	-0.001	6	3	12	
LITTLE CREEK S.B.	ABNER		LCS2	2125	SOIL	-0.001	13	24	11	
LITTLE CREEK S.B.	ABNER		LCS2	2136	SOIL	-0.001	11	23	3	
LITTLE CREEK S.B.	ABNER		LCS2	2137	SOIL	0.003	12	19	7	
LITTLE CREEK S.B.	ABNER		LCS2	2133	SOIL	-0.001	12	21	9	
LITTLE CREEK S.B.	ABNER		LCS2	2139	SOIL	0.003	11	35	17	
LITTLE CREEK S.B.	ABNER		LCS2	2190	SOIL	-0.001	13	33	12	
LITTLE CREEK S.B.	ABNER		LCS2	2191	SOIL	-0.001	10	10	9	
LITTLE CREEK S.B.	ABNER		LCS2	2192	SOIL	-0.001	12	15	11	
LITTLE CREEK S.B.	ABNER		LCS2	2193	SOIL	-0.001	14	25	12	
LITTLE CREEK S.B.	ABNER		LCS2	2194	SOIL	-0.001	12	19	29	
LITTLE CREEK S.B.	ABNER		LCS2	2195	SOIL	0.001	11	15	15	
LITTLE CREEK S.B.	ABNER		LCS2	2196	SOIL	-0.001	14	19	15	
LITTLE CREEK S.B.	ABNER		LCS2	2197	SOIL	-0.001	14	14	15	
LITTLE CREEK S.B.	ABNER		LCS2	2192	SOIL	0.002	12	15	14	
LITTLE CREEK S.B.	ABNER		LCS2	2199	SOIL	0.002	25	71	20	
LITTLE CREEK S.B.	ABNER		LCS2	3200	SOIL	-0.001	12	26	11	
LITTLE CREEK S.B.	ABNER			2201	STREAM	-0.001	9	21	31	
LITTLE CREEK S.B.	ABNER			3202	STREAM	-0.001	2	22	32	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
LITTLE CREEK S.B.	ABNER			3203	STREAM	0.002	4	22	34	
LITTLE CREEK S.B.	ABNER			3204	STREAM	0.015	16	25	29	
LITTLE CREEK S.B.	ABNER			3205	STREAM	0.012	16	25	28	
LITTLE CREEK S.B.	ABNER			3206	STREAM	0.012	15	23	29	
LITTLE CREEK S.B.	ABNER			3207	STREAM	0.009	13	26	31	
LITTLE CREEK S.B.	ABNER			3208	STREAM	0.002	19	29	37	
LITTLE CREEK S.B.	ABNER			3209	STREAM	0.001	11	28	24	
LITTLE CREEK S.B.	ABNER			3210	STREAM	-0.001	17	20	39	
LITTLE CREEK S.B.	ABNER			3211	STREAM	0.003	16	15	27	
T1(N)	BATTEN			3212	SOIL	-0.001	13	7	12	
T1(N)	BATTEN			3213	SOIL	-0.001	13	13	15	
T1(N)	BATTEN			3214	SOIL	-0.001	6	-5	5	
T1(N)	BATTEN			3215	SOIL	0.001	9	13	9	
T1(N)	BATTEN			3216	SOIL	0.001	13	11	13	
T1(N)	BATTEN			3217	SOIL	-0.001	13	9	10	
T1(N)	BATTEN			3218	SOIL	-0.001	3	7	6	
T1(N)	BATTEN			3219	SOIL	-0.001	9	10	6	
MALAPUNYAH SUB-BASIN	ABNER			3220	SOIL	0.002	12	12	21	
MALAPUNYAH SUB-BASIN	ABNER			3221	SOIL	0.002	9	16	18	
MALAPUNYAH SUB-BASIN	ABNER			3222	SOIL	0.002	13	3	21	
MALAPUNYAH SUB-BASIN	ABNER			3223	SOIL	0.001	3	11	14	
MALAPUNYAH S.B.	ABNER			3224	STREAM	-0.001	11	6	6	
T1(S)	BATTEN			3277	SOIL	0.001	3	10	3	
T1(S)	BATTEN			3278	SOIL	0.001	5	-5	6	
T1(S)	BATTEN			3279	SOIL	0.001	5	-5	6	
T1(S)	BATTEN			3280	SOIL	0.003	5	-5	6	
T1(S)	BATTEN			3281	SOIL	0.002	4	-5	4	
T1(S)	BATTEN			3282	SOIL	0.001	5	-5	3	
T1(S)	BATTEN			3283	SOIL	-0.001	2	-5	5	
T1(S)	BATTEN			3284	SOIL	0.002	7	-5	4	
T1(S)	BATTEN			3285	SOIL	-0.001	5	6	4	
T1(S)	BATTEN			3286	SOIL	0.001	7	6	4	
T1(S)	BATTEN			3287	SOIL	0.002	5	10	5	
T1(S)	BATTEN			3288	SOIL	0.002	6	-5	2	
T1(S)	BATTEN			3289	SOIL	0.001	6	2	15	
T1(S)	BATTEN			3290	SOIL	-0.001	7	2	3	
T1(S)	BATTEN			3291	SOIL	-0.001	7	6	3	
T1(S)	BATTEN			3292	SOIL	0.001	5	-5	4	
T1(S)	BATTEN			3293	SOIL	-0.001	7	9	5	
T1(S)	BATTEN			3294	SOIL	-0.001	5	20	3	
T1(S)	BATTEN			3295	SOIL	-0.001	5	7	2	
T1(S)	BATTEN			3296	SOIL	0.002	6	7	5	
T1(S)	BATTEN			3297	SOIL	0.002	4	-5	2	
T1(S)	BATTEN			3298	SOIL	0.001	4	-5	3	
T1(S)	BATTEN			3299	SOIL	-0.001	6	7	4	
T1(S)	BATTEN			3300	SOIL	0.001	26	17	6	
T1(S)	BATTEN			3301	SOIL	-0.001	10	12	4	
T1(S)	BATTEN			3302	SOIL	0.001	9	9	4	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
T1(S)	BATTEN			3303	SOIL	-0.001	9	10	5	
T1(S)	BATTEN			3304	SOIL	-0.001	8	10	5	
T1(S)	BATTEN			3305	SOIL	-0.001	13	10	4	
T1(S)	BATTEN			3306	SOIL	-0.001	21	10	5	
T1(S)	BATTEN			3307	SOIL	-0.001	24	10	3	
T1(S)	BATTEN			3308	SOIL	-0.001	19	7	3	
T1(S)	BATTEN			3309	SOIL	-0.001	10	-5	2	
T1(S)	BATTEN			3310	SOIL	0.001	15	6	4	
T1(S)	BATTEN			3311	SOIL	-0.001	30	13	4	
T1(S)	BATTEN			3312	SOIL	-0.001	10	-5	3	
T1(S)	BATTEN			3313	SOIL	0.001	10	2	4	
T1(S)	BATTEN			3314	SOIL	-0.001	3	7	4	
T1(S)	BATTEN			3315	SOIL	-0.001	3	9	4	
T1(S)	BATTEN			3316	SOIL	-0.001	9	11	4	
T1(S)	BATTEN			3317	SOIL	-0.001	3	9	5	
T1(S)	BATTEN			3318	SOIL	-0.001	7	7	2	
T1(S)	BATTEN			3319	SOIL	-0.001	3	9	2	
T1(S)	BATTEN			3320	SOIL	-0.001	3	10	3	
T1(S)	BATTEN			3321	SOIL	-0.001	6	10	2	
T1(S)	BATTEN			3322	SOIL	-0.001	3	16	4	
T1(S)	BATTEN			3323	SOIL	0.002	9	17	2	
T1(S)	BATTEN			3324	SOIL	0.002	3	-5	-2	
T1(S)	BATTEN			3325	SOIL	0.001	4	-5	-2	
T1(S)	BATTEN			3326	SOIL	-0.001	6	-5	2	
T1(S)	BATTEN			3327	SOIL	-0.001	4	-5	2	
T1(S)	BATTEN			3328	SOIL	-0.001	4	-5	-2	
T1(S)	BATTEN			3329	SOIL	-0.001	2	-5	-2	
T1(S)	BATTEN			3330	SOIL	-0.001	2	-5	-2	
T1(S)	BATTEN			3331	SOIL	-0.001	5	-5	5	
T1(S)	BATTEN			3332	SOIL	-0.001	2	-5	-2	
T1(S)	BATTEN			3333	SOIL	-0.001	3	-5	-2	
T1(S)	BATTEN			3334	SOIL	-0.001	3	-5	-2	
T1(S)	BATTEN			3335	SOIL	-0.001	3	-5	-2	
T1(S)	BATTEN			3336	SOIL	0.001	3	6	7	
T1(S)	BATTEN			3337	SOIL	-0.001	3	-5	6	
T1(S)	BATTEN			3338	SOIL	-0.001	4	2	7	
T1(S)	BATTEN			3339	SOIL	0.001	5	7	3	
T1(S)	BATTEN			3340	SOIL	-0.001	14	3	3	
T1(S)	BATTEN			3341	SOIL	-0.001	56	20	13	
T1(S)	BATTEN			3342	SOIL	0.003	40	15	12	
T1(S)	BATTEN			3343	SOIL	-0.001	40	13	16	
T1(S)	BATTEN			3344	SOIL	-0.001	11	9	3	
T1(S)	BATTEN			3345	SOIL	-0.001	21	7	12	
T1(S)	BATTEN			3346	SOIL	-0.001	17	2	3	
T1(S)	BATTEN			3347	SOIL	-0.001	30	14	11	
T1(S)	BATTEN			3348	SOIL	-0.001	23	15	10	
T1(S)	BATTEN			3349	SOIL	-0.001	25	3	47	
T1(S)	BATTEN			3350	SOIL	-0.001	23	-5	11	

MCANTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
T1(S)	BATTEN			3351	SOIL	-0.001	12	-5	3	
T1(S)	BATTEN			3352	SOIL	-0.001	25	6	16	
T1(S)	BATTEN			3353	SOIL	-0.001	23	9	23	
T1(S)	BATTEN			3354	SOIL	-0.001	29	2	2	
T1(S)	BATTEN			3355	SOIL	-0.001	53	17	10	
T1(S)	BATTEN			3356	SOIL	0.002	20	10	1	
T1(S)	BATTEN			3357	SOIL	-0.001	27	15	7	
T1(S)	BATTEN			3358	SOIL	0.001	12	2	6	
T1(S)	BATTEN			3359	SOIL	0.001	23	14	2	
T1(S)	BATTEN			3360	SOIL	-0.001	47	13	12	
T1(S)	BATTEN			3361	SOIL	-0.001	36	14	10	
T1(S)	BATTEN			3362	SOIL	-0.001	36	14	10	
T1(S)	BATTEN			3363	SOIL	-0.001	23	11	11	
T1(S)	BATTEN			3364	SOIL	0.002	21	14	11	
T1(S)	BATTEN			3365	SOIL	0.002	20	10	11	
T1(S)	BATTEN			3366	SOIL	0.001	21	12	10	
T1(S)	BATTEN			3367	SOIL	-0.001	20	13	12	
T1(S)	BATTEN			3368	SOIL	0.001	24	10	15	
T1(S)	BATTEN			3369	SOIL	-0.001	3	9	7	
T1(S)	BATTEN			3370	SOIL	-0.001	3	7	3	
T1(S)	BATTEN			3371	SOIL	-0.001	3	-5	7	
T1(S)	BATTEN			3372	SOIL	-0.001	2	-5	7	
T1(S)	BATTEN			3373	SOIL	-0.001	4	-5	7	
T1(S)	BATTEN			3374	SOIL	-0.001	12	11	7	
T1(S)	BATTEN			3375	SOIL	-0.001	4	6	4	
T1(S)	BATTEN			3376	SOIL	-0.001	4	6	6	
T1(S)	BATTEN			3377	SOIL	-0.001	5	7	9	
T1(S)	BATTEN			3378	SOIL	0.002	11	14	10	
T1(S)	BATTEN			3379	SOIL	-0.001	8	6	3	
T1(S)	BATTEN			3380	SOIL	-0.001	7	6	7	
T1(S)	BATTEN			3381	SOIL	-0.001	14	16	9	
T1(S)	BATTEN			3382	SOIL	-0.001	16	23	3	
T1(S)	BATTEN			3383	SOIL	-0.001	15	13	11	
T1(S)	BATTEN			3384	SOIL	-0.001	15	12	9	
T1(S)	BATTEN			3385	SOIL	-0.001	19	5	12	
T1(S)	BATTEN			3386	SOIL	-0.001	14	9	16	
T1(S)	BATTEN			3387	SOIL	-0.001	9	9	11	
T1(S)	BATTEN			3388	SOIL	0.001	6	7	7	
T1(S)	BATTEN			3389	SOIL	-0.001	15	20	16	
T1(S)	BATTEN			3390	SOIL	-0.001	6	-5	11	
T1(S)	BATTEN			3391	SOIL	-0.001	10	10	3	
T1(S)	BATTEN			3392	SOIL	-0.001	13	10	12	
T1(S)	BATTEN			3393	SOIL	-0.001	14	3	13	
T1(S)	BATTEN			3394	SOIL	-0.001	10	3	12	
T1(S)	BATTEN			3395	SOIL	-0.001	9	10	14	
T1(S)	BATTEN			3396	SOIL	-0.001	9	12	13	
T1(S)	BATTEN			3397	SOIL	-0.001	7	11	14	
T1(S)	BATTEN			3398	SOIL	-0.001	9	6	14	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Al	Cu	Pb	Zn	Ba
T1(S)	BATTEN			3399	SOIL	0.001	7	3	6	
T1(S)	BATTEN			3400	SOIL	0.001	6	2	9	
T1(S)	BATTEN			3401	SOIL	-0.001	6	6	10	
T1(S)	BATTEN			3402	SOIL	-0.001	6	6	6	
T1(S)	BATTEN			3403	SOIL	-0.001	3	3	12	
T1(S)	BATTEN			3404	SOIL	-0.001	3	2	10	
T1(S)	BATTEN			3405	SOIL	0.003	3	9	10	
T1(S)	BATTEN			3406	SOIL	-0.001	6	3	12	
T1(S)	BATTEN			3407	SOIL	-0.001	6	3	13	
T1(S)	BATTEN			3408	SOIL	-0.001	10	11	13	
T1(S)	BATTEN			3409	SOIL	-0.001	14	9	32	
T1(S)	BATTEN			3410	SOIL	-0.001	13	8	23	
T1(S)	BATTEN			3411	SOIL	-0.001	7	7	13	
T1(S)	BATTEN			3412	SOIL	0.001	12	3	19	
T1(S)	BATTEN			3413	SOIL	-0.001	3	10	14	
T1(S)	BATTEN			3414	SOIL	-0.001	6	3	10	
T1(S)	BATTEN			3416	SOIL	-0.001	3	-5	6	
T1(S)	BATTEN			3417	SOIL	-0.001	5	-5	3	
MALAPUNYAH	ABNER		GL1	3418	SOIL	-0.001	50	64	105	
MALAPUNYAH	ABNER		GL1	3419	SOIL	-0.001	41	100	130	
MALAPUNYAH	ABNER		GL1	3420	SOIL	0.002	22	42	32	
MALAPUNYAH	ABNER		GL1	3421	SOIL	0.001	36	71	35	
MALAPUNYAH	ABNER		GL1	3422	SOIL	-0.001	44	58	25	
MALAPUNYAH	ABNER		GL1	3423	SOIL	-0.001	39	48	25	
MALAPUNYAH	ABNER		GL1	3424	SOIL	-0.001	15	13	17	
MALAPUNYAH	ABNER		GL1	3425	SOIL	0.002	19	13	19	
MALAPUNYAH	ABNER		GL1	3426	SOIL	0.001	29	29	31	
MALAPUNYAH	ABNER		GL1	3427	SOIL	-0.001	14	23	23	
MALAPUNYAH	ABNER		GL1	3428	SOIL	-0.001	13	13	42	
MALAPUNYAH	ABNER		GL1	3429	SOIL	0.001	37	13	35	
MALAPUNYAH	ABNER		GL1	3430	SOIL	-0.001	27	39	38	
MALAPUNYAH	ABNER		GL1	3431	SOIL	-0.001	19	37	70	
MALAPUNYAH	ABNER		GL1	3432	SOIL	-0.001	12	13	27	
MALAPUNYAH	ABNER		GL2	3433	SOIL	0.002	14	13	13	
MALAPUNYAH	ABNER		GL2	3434	SOIL	-0.001	23	16	24	
MALAPUNYAH	ABNER		GL2	3435	SOIL	0.001	27	26	17	
MALAPUNYAH	ABNER		GL2	3436	SOIL	-0.001	13	27	31	
MALAPUNYAH	ABNER		GL2	3437	SOIL	-0.001	53	69	135	
MALAPUNYAH	ABNER		GL2	3438	SOIL	0.003	31	40	46	
MALAPUNYAH	ABNER		GL2	3439	SOIL	0.001	33	33	170	
MALAPUNYAH	ABNER		GL2	3440	SOIL	-0.001	20	46	17	
MALAPUNYAH	ABNER		GL2	3441	SOIL	0.001	23	49	15	
MALAPUNYAH	ABNER		GL2	3442	SOIL	0.003	24	35	14	
MALAPUNYAH	ABNER		GL2	3443	SOIL	-0.001	36	51	22	
MALAPUNYAH	ABNER		GL2	3444	SOIL	0.001	16	20	52	
MALAPUNYAH	ABNER		GL2	3445	SOIL	0.002	12	16	23	
MALAPUNYAH	ABNER		GL2	3446	SOIL	0.001	9	14	16	
MALAPUNYAH	ABNER		GL2	3447	SOIL	0.001	11	19	35	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
MALAPUNYAH	ABNER		GL2	3443	SOIL	0.002	11	11	24	
MALAPUNYAH	ABNER		GL2	3449	SOIL	0.003	15	12	27	
MALAPUNYAH	ABNER		GL5	3451	SOIL	-0.001	10	12	27	
MALAPUNYAH	ABNER		GL5	3452	SOIL	-0.001	12	19	39	
MALAPUNYAH	ABNER		GL3	3453	SOIL	0.001	7	9	13	
MALAPUNYAH	ABNER		GL3	3454	SOIL	0.002	7	9	15	
MALAPUNYAH	ABNER		GL3	3455	SOIL	-0.001	7	3	23	
MALAPUNYAH	ABNER		GL3	3456	SOIL	-0.001	17	36	165	
MALAPUNYAH	ABNER		GL3	3457	SOIL	0.001	7	3	27	
MALAPUNYAH	ABNER		GL3	3458	SOIL	-0.001	3	10	41	
MALAPUNYAH	ABNER		GL3	3459	SOIL	0.001	13	13	17	
MALAPUNYAH	ABNER		GL3	3460	SOIL	0.001	15	12	15	
MALAPUNYAH	ABNER		GL3	3461	SOIL	0.002	22	21	10	
MALAPUNYAH	ABNER		GL3	3462	SOIL	-0.001	7	7	19	
MALAPUNYAH	ABNER		GL3	3463	SOIL	0.001	50	21	10	
MALAPUNYAH	ABNER		GL3	3464	SOIL	0.002	30	9	9	
MALAPUNYAH	ABNER		GL3	3465	SOIL	0.001	63	57	14	
MALAPUNYAH	ABNER		GL3	3466	SOIL	0.002	79	75	22	
MALAPUNYAH	ABNER		GL3	3467	SOIL	0.001	39	285	23	
MALAPUNYAH	ABNER		GL3	3468	SOIL	0.002	77	21	12	
MALAPUNYAH	ABNER		GL3	3469	SOIL	0.001	105	21	9	
MALAPUNYAH	ABNER		GL4	3470	SOIL	0.001	7	8	9	
MALAPUNYAH	ABNER		GL4	3471	SOIL	0.001	11	12	11	
MALAPUNYAH	ABNER		GL4	3472	SOIL	0.001	10	13	10	
MALAPUNYAH	ABNER		GL4	3473	SOIL	0.001	12	9	10	
MALAPUNYAH	ABNER		GL4	3474	SOIL	0.001	11	-5	11	
MALAPUNYAH	ABNER		GL4	3475	SOIL	0.001	9	7	9	
MALAPUNYAH	ABNER		GL4	3476	SOIL	-0.001	3	13	11	
MALAPUNYAH	ABNER		GL4	3477	SOIL	0.001	9	11	3	
MALAPUNYAH	ABNER		GL4	3478	SOIL	-0.001	7	19	14	
MALAPUNYAH	ABNER		GL4	3479	SOIL	0.003	9	23	24	
MALAPUNYAH	ABNER		GL4	3480	SOIL	-0.001	19	21	16	
MALAPUNYAH	ABNER		GL5	3481	SOIL	-0.001	5	6	9	
MALAPUNYAH	ABNER		GL5	3482	SOIL	-0.001	5	-5	9	
MALAPUNYAH	ABNER		GL5	3483	SOIL	-0.001	7	19	5	
MALAPUNYAH	ABNER		GL5	3484	SOIL	-0.001	6	3	4	
MALAPUNYAH	ABNER		GL5	3485	SOIL	-0.001	3	11	6	
MALAPUNYAH	ABNER		GL5	3486	SOIL	-0.001	7	10	4	
MALAPUNYAH	ABNER		GL5	3487	SOIL	-0.001	14	29	21	
MALAPUNYAH	ABNER		GL5	3488	SOIL	-0.001	5	12	9	
MALAPUNYAH	ABNER		GL5	3489	SOIL	-0.001	-2	-5	6	
MALAPUNYAH	ABNER		GL5	3490	SOIL	-0.001	9	6	7	
MALAPUNYAH	ABNER		GL5	3491	SOIL	-0.001	6	6	6	
MALAPUNYAH	ABNER		GL5	3492	SOIL	-0.001	7	6	5	
MALAPUNYAH	ABNER		GL5	3493	SOIL	-0.001	17	25	7	
MALAPUNYAH	ABNER		GL5	3494	SOIL	-0.001	13	29	5	
MALAPUNYAH	ABNER		GL5	3495	SOIL	-0.001	9	24	4	
MALAPUNYAH	ABNER		GL5	3496	SOIL	-0.001	9	20	16	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
MALAPUNYAH	ABNER		GL5	3497	SOIL	-0.001	3	19	16	
MALAPUNYAH	ABNER		GL5	3498	SOIL	-0.001	7	13	21	
MALAPUNYAH	ABNER		GL5	3499	SOIL	-0.001	5	13	47	
MALAPUNYAH	ABNER		GL5	3500	SOIL	-0.001	4	10	10	
HAMMERS	MANTANGULA			3501	SOIL	-0.001	4	-5	12	
HAMMERS	MANTANGULA			3502	STREAM	-0.001	4	-5	7	
HAMMERS	MANTANGULA			3503	STREAM	-0.001	9	-5	5	
HAMMERS	MANTANGULA			3504	STREAM	0.001	3	-5	3	
HAMMERS	MANTANGULA			3505	STREAM	-0.001	24	41	5	
Y	BATTEN			3506	STREAM	0.001	9	-5	3	
Y	BATTEN			3507	STREAM	0.001	9	-5	-2	
Y	BATTEN			3508	STREAM	-0.001	3	-5	-2	
Y	BATTEN			3509	STREAM	-0.001	10	6	5	
Y	BATTEN			3510	STREAM	-0.001	7	-5	11	
Y	BATTEN			3511	STREAM	0.002	11	-5	6	
Y	BATTEN			3512	STREAM	-0.001	11	-5	6	
Y	BATTEN			3513	STREAM	-0.001	7	-5	3	
LITTLE CREEK S.B.	ABNER			3514	STREAM	0.001	6	10	12	
LITTLE CREEK S.B.	ABNER			3515	STREAM	0.001	3	11	9	
LITTLE CREEK S.B.	ABNER			3516	STREAM	0.001	10	12	9	
LITTLE CREEK S.B.	ABNER			3517	STREAM	0.001	12	11	19	
LITTLE CREEK S.B.	ABNER			3518	STREAM	0.001	14	12	16	
LITTLE CREEK S.B.	ABNER			3519	STREAM	-0.001	12	3	14	
LITTLE CREEK S.B.	ABNER			3520	STREAM	-0.001	13	13	16	
LITTLE CREEK S.B.	ABNER			3521	STREAM	-0.001	13	14	10	
LITTLE CREEK S.B.	ABNER			3522	STREAM	0.001	15	13	18	
LITTLE CREEK S.B.	ABNER			3523	STREAM	0.001	10	13	17	
LITTLE CREEK S.B.	ABNER			3524	STREAM	-0.001	20	14	14	
HAMMERS	MANTANGULA			3551	SOIL	-0.001	13	-5	7	
HAMMERS	MANTANGULA			3552	SOIL	-0.001	14	3	10	
HAMMERS	MANTANGULA			3553	SOIL	-0.001	18	9	13	
HAMMERS	MANTANGULA			3554	SOIL	-0.001	33	21	54	
HAMMERS	MANTANGULA			3555	SOIL	-0.001	59	39	99	
HAMMERS	MANTANGULA			3556	SOIL	-0.001	31	34	33	
HAMMERS	MANTANGULA			3557	SOIL	-0.001	30	30	115	
HAMMERS	MANTANGULA			3558	SOIL	-0.001	20	21	13	
HAMMERS	MANTANGULA			3559	SOIL	0.002	23	38	76	
HAMMERS	MANTANGULA			3560	SOIL	-0.001	53	99	33	
HAMMERS	MANTANGULA			3561	SOIL	0.003	99	135	115	
HAMMERS	MANTANGULA			3562	SOIL	-0.001	44	99	70	
HAMMERS	MANTANGULA			3563	SOIL	-0.001	56	135	53	
HAMMERS	MANTANGULA			3564	SOIL	0.004	54	120	37	
HAMMERS	MANTANGULA			3565	SOIL	-0.001	47	93	37	
HAMMERS	MANTANGULA			3572	SOIL	-0.001	26	50	16	
HAMMERS	MANTANGULA			3573	SOIL	0.002	29	70	21	
HAMMERS	MANTANGULA			3574	SOIL	-0.001	60	205	115	
HAMMERS	MANTANGULA			3575	SOIL	-0.001	71	200	260	
4 MILE LAGOON	BATTEN			3576	SOIL	-0.001	12	13	12	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
4 MILE LAGOON	BATTEN			3577	SOIL	0.003	32	235	72	
4 MILE LAGOON	BATTEN			3578	SOIL	0.002	73	91	36	
4 MILE LAGOON	BATTEN			3579	SOIL	0.002	20	91	26	
4 MILE LAGOON	BATTEN			3580	SOIL	-0.001	105	62	35	
4 MILE LAGOON	BATTEN			3581	SOIL	-0.001	21	30	42	
4 MILE LAGOON	BATTEN			3582	SOIL	-0.001	13	9	20	
4 MILE LAGOON	BATTEN			3583	SOIL	0.001	21	34	25	
4 MILE LAGOON	BATTEN			3584	SOIL	-0.001	22	17	25	
Y	BATTEN			3585	SOIL	0.001	34	22	26	
Y	BATTEN			3586	SOIL	0.001	6	-5	9	
Y	BATTEN			3587	SOIL	-0.001	3	7	25	
Y	BATTEN			3588	SOIL	-0.001	13	7	29	
Y	BATTEN			3589	SOIL	-0.001	2	23	29	
Y	BATTEN			3590	SOIL	0.001	9	10	15	
Y	BATTEN			3591	SOIL	0.001	6	9	10	
Y	BATTEN			3592	SOIL	-0.001	5	3	25	
Y	BATTEN			3593	SOIL	-0.001	5	9	19	
Y	BATTEN			3594	SOIL	-0.001	6	-5	6	
Y	BATTEN			3595	SOIL	-0.001	4	-5	4	
LITTLE CREEK S.B.	ABNER		LCS6	3601	SOIL	0.002	4	10	10	
LITTLE CREEK S.B.	ABNER		LCS6	3602	SOIL	-0.001	12	23	7	
LITTLE CREEK S.B.	ABNER		LCS6	3603	SOIL	0.001	14	24	10	
LITTLE CREEK S.B.	ABNER		LCS6	3604	SOIL	-0.001	17	32	11	
LITTLE CREEK S.B.	ABNER		LCS6	3605	SOIL	-0.001	16	37	14	
LITTLE CREEK S.B.	ABNER		LCS6	3606	SOIL	-0.001	13	38	11	
LITTLE CREEK S.B.	ABNER		LCS6	3607	SOIL	-0.001	14	33	7	
LITTLE CREEK S.B.	ABNER		LCS6	3608	SOIL	-0.001	13	33	12	
LITTLE CREEK S.B.	ABNER		LCS6	3609	SOIL	-0.001	11	24	7	
LITTLE CREEK S.B.	ABNER		LCS6	3610	SOIL	0.002	9	14	4	
LITTLE CREEK S.B.	ABNER		LCS6	3611	SOIL	0.002	3	19	4	
LITTLE CREEK S.B.	ABNER		LCS6	3612	SOIL	-0.001	13	23	3	
LITTLE CREEK S.B.	ABNER		LCS6	3613	SOIL	-0.001	14	43	7	
LITTLE CREEK S.B.	ABNER		LCS6	3614	SOIL	-0.001	11	23	4	
LITTLE CREEK S.B.	ABNER		LCS6	3615	SOIL	-0.001	10	27	6	
LITTLE CREEK S.B.	ABNER		LCS6	3616	SOIL	-0.001	12	33	6	
LITTLE CREEK S.B.	ABNER		LCS6	3617	SOIL	0.001	14	33	3	
LITTLE CREEK S.B.	ABNER		LCS6	3618	SOIL	0.002	19	34	9	
LITTLE CREEK S.B.	ABNER		LCS6	3619	SOIL	0.002	11	31	7	
LITTLE CREEK S.B.	ABNER		LCS6	3620	SOIL	-0.001	17	24	11	
LITTLE CREEK S.B.	ABNER		LCS6	3621	SOIL	-0.001	16	21	3	
LITTLE CREEK S.B.	ABNER		LCS6	3622	SOIL	-0.001	15	36	10	
LITTLE CREEK S.B.	ABNER		LCS6	3623	SOIL	-0.001	12	27	3	
LITTLE CREEK S.B.	ABNER		LCS6	3624	SOIL	-0.001	15	27	14	
LITTLE CREEK S.B.	ABNER		LCS6	3625	SOIL	-0.001	11	17	15	
LITTLE CREEK S.B.	ABNER		LCS6	3626	SOIL	0.001	10	13	7	
LITTLE CREEK S.B.	ABNER		LCS6	3627	SOIL	-0.001	9	13	7	
LITTLE CREEK S.B.	ABNER		LCS6	3628	SOIL	0.005	7	13	3	
LITTLE CREEK S.B.	ABNER		LCS6	3629	SOIL	0.001	3	13	13	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
LITTLE CREEK S.B.	ABNER		LCS6	3630	SOIL	-0.001	10	24	10	
LITTLE CREEK S.B.	ABNER		LCS6	3631	SOIL	0.002	17	26	12	
LITTLE CREEK S.B.	ABNER		LCS6	3632	SOIL	0.001	12	17	19	
LITTLE CREEK S.B.	ABNER		LCS6	3633	SOIL	-0.001	11	23	17	
LITTLE CREEK S.B.	ABNER		LCS6	3634	SOIL	-0.001	11	17	20	
LITTLE CREEK S.B.	ABNER		LCS6	3635	SOIL	-0.001	11	34	16	
LITTLE CREEK S.B.	ABNER		LCS6	3636	SOIL	-0.001	17	74	34	
LITTLE CREEK S.B.	ABNER		LCS6	3637	SOIL	0.007	15	32	15	
LITTLE CREEK S.B.	ABNER		LCS6	3638	SOIL	0.002	15	27	16	
LITTLE CREEK S.B.	ABNER		LCS6	3639	SOIL	0.002	11	21	11	
LITTLE CREEK S.B.	ABNER		LCS6	3640	SOIL	0.002	12	25	67	
LITTLE CREEK S.B.	ABNER		LCS6	3641	SOIL	0.002	12	15	21	
LITTLE CREEK S.B.	ABNER		LCS6	3642	SOIL	0.002	11	14	17	
LITTLE CREEK S.B.	ABNER		LCS8	3651	SOIL	-0.001	12	20	14	
LITTLE CREEK S.B.	ABNER		LCS8	3652	SOIL	-0.001	13	31	23	
LITTLE CREEK S.B.	ABNER		LCS8	3653	SOIL	0.001	19	47	20	
LITTLE CREEK S.B.	ABNER		LCS8	3654	SOIL	0.002	19	47	24	
LITTLE CREEK S.B.	ABNER		LCS8	3655	SOIL	0.002	9	12	19	
LITTLE CREEK S.B.	ABNER		LCS8	3656	SOIL	0.002	17	39	21	
LITTLE CREEK S.B.	ABNER		LCS8	3657	SOIL	0.001	19	41	19	
LITTLE CREEK S.B.	ABNER		LCS8	3658	SOIL	-0.001	7	9	12	
LITTLE CREEK S.B.	ABNER		LCS8	3659	SOIL	-0.001	13	28	12	
LITTLE CREEK S.B.	ABNER		LCS8	3660	SOIL	-0.001	12	11	19	
LITTLE CREEK S.B.	ABNER		LCS8	3661	SOIL	-0.001	12	18	13	
LITTLE CREEK S.B.	ABNER		LCS8	3662	SOIL	0.002	10	13	17	
LITTLE CREEK S.B.	ABNER		LCS8	3663	SOIL	-0.001	13	33	23	
LITTLE CREEK S.B.	ABNER		LCS8	3664	SOIL	-0.001	10	43	16	
LITTLE CREEK S.B.	ABNER		LCS8	3665	SOIL	-0.001	13	24	22	
LITTLE CREEK S.B.	ABNER		LCS8	3666	SOIL	-0.001	12	18	16	
LITTLE CREEK S.B.	ABNER		LCS8	3667	SOIL	-0.001	11	24	17	
LITTLE CREEK S.B.	ABNER		LCS8	3668	SOIL	0.006	11	14	19	
LITTLE CREEK S.B.	ABNER		LCS8	3669	SOIL	0.001	11	15	17	
LITTLE CREEK S.B.	ABNER		LCS8	3670	SOIL	0.001	11	15	12	
LITTLE CREEK S.B.	ABNER		LCS8	3671	SOIL	-0.001	8	11	16	
LITTLE CREEK S.B.	ABNER		LCS8	3672	SOIL	-0.001	5	13	11	
LITTLE CREEK S.B.	ABNER		LCS8	3673	SOIL	-0.001	5	-5	13	
LITTLE CREEK S.B.	ABNER		LCS8	3674	SOIL	-0.001	6	9	10	
LITTLE CREEK S.B.	ABNER		LCS8	3675	SOIL	-0.001	12	20	11	
LITTLE CREEK S.B.	ABNER		LCS8	3676	SOIL	-0.001	23	90	11	
LITTLE CREEK S.B.	ABNER		LCS8	3677	SOIL	-0.001	14	18	15	
LITTLE CREEK S.B.	ABNER		LCS8	3678	SOIL	0.002	44	38	13	
LITTLE CREEK S.B.	ABNER		LCS8	3679	SOIL	-0.001	14	16	12	
LITTLE CREEK S.B.	ABNER		LCS8	3680	SOIL	-0.001	12	21	12	
LITTLE CREEK S.B.	ABNER		LCS8	3681	SOIL	-0.001	12	26	7	
LITTLE CREEK S.B.	ABNER		LCS8	3682	SOIL	-0.001	19	32	9	
LITTLE CREEK S.B.	ABNER		LCS8	3683	SOIL	0.003	12	23	9	
LITTLE CREEK S.B.	ABNER		LCS8	3684	SOIL	-0.001	16	27	8	
LITTLE CREEK S.B.	ABNER		LCS8	3685	SOIL	-0.001	11	28	7	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Al	Cu	Pb	Zn	Ba
LITTLE CREEK S.B.	ABNER		LCS7	3686	SOIL	-0.001	10	15	13	
LITTLE CREEK S.B.	ABNER		LCS7	3687	SOIL	-0.001	7	13	8	
LITTLE CREEK S.B.	ABNER		LCS7	3688	SOIL	-0.001	10	6	7	
LITTLE CREEK S.B.	ABNER		LCS7	3689	SOIL	-0.001	12	17	11	
LITTLE CREEK S.B.	ABNER		LCS7	3690	SOIL	-0.001	12	16	16	
LITTLE CREEK S.B.	ABNER		LCS7	3691	SOIL	-0.001	11	22	15	
LITTLE CREEK S.B.	ABNER		LCS7	3692	SOIL	-0.001	3	12	20	
LITTLE CREEK S.B.	ABNER		LCS7	3693	SOIL	0.003	9	16	19	
LITTLE CREEK S.B.	ABNER		LCS7	3694	SOIL	0.001	10	7	14	
LITTLE CREEK S.B.	ABNER		LCS7	3695	SOIL	-0.001	8	11	21	
LITTLE CREEK S.B.	ABNER		LCS7	3696	SOIL	-0.001	3	6	29	
LITTLE CREEK S.B.	ABNER		LCS7	3697	SOIL	-0.001	5	6	22	
LITTLE CREEK S.B.	ABNER		LCS7	3698	SOIL	-0.001	6	9	12	
LITTLE CREEK S.B.	ABNER		LCS7	3699	SOIL	0.002	10	23	15	
LITTLE CREEK S.B.	ABNER		LCS7	3700	SOIL	0.001	11	24	15	
LITTLE CREEK S.B.	ABNER		LCS7	3701	SOIL	0.001	11	22	13	
LITTLE CREEK S.B.	ABNER		LCS7	3702	SOIL	0.002	11	24	18	
LITTLE CREEK S.B.	ABNER		LCS7	3703	SOIL	-0.001	12	12	18	
LITTLE CREEK S.B.	ABNER		LCS7	3704	SOIL	-0.001	9	22	14	
LITTLE CREEK S.B.	ABNER		LCS7	3705	SOIL	0.002	9	19	9	
LITTLE CREEK S.B.	ABNER		LCS7	3706	SOIL	0.002	9	18	22	
LITTLE CREEK S.B.	ABNER		LCS7	3707	SOIL	0.001	11	24	17	
LITTLE CREEK S.B.	ABNER		LCS7	3708	SOIL	0.001	12	33	10	
LITTLE CREEK S.B.	ABNER		LCS7	3709	SOIL	0.001	16	43	9	
LITTLE CREEK S.B.	ABNER		LCS7	3710	SOIL	-0.001	16	38	9	
LITTLE CREEK S.B.	ABNER		LCS7	3711	SOIL	-0.001	11	30	11	
LITTLE CREEK S.B.	ABNER		LCS7	3712	SOIL	0.001	9	18	9	
LITTLE CREEK S.B.	ABNER		LCS7	3713	SOIL	-0.001	5	9	3	
LITTLE CREEK S.B.	ABNER		LCS7	3714	SOIL	-0.001	7	12	4	
LITTLE CREEK S.B.	ABNER		LCS7	3715	SOIL	-0.001	7	24	5	
LITTLE CREEK S.B.	ABNER		LCS7	3716	SOIL	-0.001	7	34	8	
LITTLE CREEK S.B.	ABNER		LCS7	3717	SOIL	-0.001	8	20	6	
LITTLE CREEK S.B.	ABNER		LCS7	3718	SOIL	-0.001	8	20	7	
LITTLE CREEK S.B.	ABNER		LCS7	3719	SOIL	0.002	8	22	7	
LITTLE CREEK S.B.	ABNER		LCS7	3720	SOIL	0.001	9	13	12	
LITTLE CREEK S.B.	ABNER		LCS7	3721	SOIL	-0.001	9	15	9	
LITTLE CREEK S.B.	ABNER		LCS7	3722	SOIL	-0.001	10	14	10	
LITTLE CREEK S.B.	ABNER		LCS7	3723	SOIL	-0.001	9	14	7	
LITTLE CREEK S.B.	ABNER		LCS7	3724	SOIL	0.002	11	46	13	
LITTLE CREEK S.B.	ABNER		LCS7	3725	SOIL	0.002	6	24	10	
LITTLE CREEK S.B.	ABNER		LCS7	3726	SOIL	0.001	22	43	53	
LITTLE CREEK S.B.	ABNER		LCS7	3727	SOIL	0.002	14	9	19	
LITTLE CREEK S.B.	ABNER		LCS7	3728	SOIL	-0.001	9	10	24	
LITTLE CREEK S.B.	ABNER		LCS7	3729	SOIL	-0.001	8	17	18	
LITTLE CREEK S.B.	ABNER		LCS7	3730	SOIL	0.001	10	31	14	
LITTLE CREEK S.B.	ABNER		LCS7	3731	SOIL	-0.001	13	69	11	
TOOGANINIE S.B. SOUTH	ABNER			3732	SOIL	0.001	31	18	15	
TOOGANINIE S.B. SOUTH	ABNER			3733	SOIL	-0.001	30	18	12	

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
TOOGANINIE S.B. SOUTH	ABNER			3734	SOIL	-0.001	21	17	12	
TOOGANINIE S.B. SOUTH	ABNER			3735	SOIL	-0.001	38	180	30	
TOOGANINIE S.B. SOUTH	ABNER			3736	SOIL	-0.001	20	48	18	
TOOGANINIE S.B. SOUTH	ABNER			3737	SOIL	-0.001	19	45	16	
TOOGANINIE S.B. SOUTH	ABNER			3738	SOIL	-0.001	19	31	17	
TOOGANINIE S.B. SOUTH	ABNER			3739	SOIL	0.001	19	32	15	
TOOGANINIE S.B. SOUTH	ABNER			3740	SOIL	-0.001	22	31	24	
TOOGANINIE S.B. SOUTH	ABNER			3741	SOIL	-0.001	19	29	17	
TOOGANINIE S.B. SOUTH	ABNER			3742	SOIL	-0.001	25	17	18	
TOOGANINIE S.B. SOUTH	ABNER			3743	SOIL	-0.001	24	15	18	
TOOGANINIE S.B. SOUTH	ABNER			3744	SOIL	-0.001	5	7	13	
TOOGANINIE S.B. SOUTH	ABNER			3745	SOIL	-0.001	13	18	11	
TOOGANINIE S.B. SOUTH	ABNER			3746	SOIL	-0.001	3	6	9	
TOOGANINIE S.B. SOUTH	ABNER			3747	SOIL	-0.001	6	6	3	
TOOGANINIE S.B. SOUTH	ABNER			3748	SOIL	-0.001	14	15	45	
TOOGANINIE S.B. SOUTH	ABNER			3749	SOIL	-0.001	15	26	20	
TOOGANINIE S.B. SOUTH	ABNER			2750	SOIL	-0.001	12	19	17	
TOOGANINIE S.B. SOUTH	ABNER			2751	SOIL	-0.001	23	18	18	
TOOGANINIE S.B. SOUTH	ABNER			3752	SOIL	-0.001	5	8	9	
LEILA	ABNER	LS1		2753	SOIL	-0.001	8	7	12	
LEILA	ABNER	LS1		2754	SOIL	-0.001	6	6	8	
LEILA	ABNER	LS1		2755	SOIL	-0.001	11	17	7	
LEILA	ABNER	LS1		2756	SOIL	-0.001	11	12	5	
LEILA	ABNER	LS1		2757	SOIL	-0.001	7	6	4	
LEILA	ABNER	LS1		2758	SOIL	-0.001	8	7	5	
LEILA	ABNER	LS1		2759	SOIL	-0.001	5	-5	4	
LEILA	ABNER	LS1		2760	SOIL	-0.001	6	-5	5	
LEILA	ABNER	LS1		2761	SOIL	-0.001	7	6	5	
LEILA	ABNER	LS1		2762	SOIL	-0.001	11	17	9	
LEILA	ABNER	LS1		2763	SOIL	-0.001	10	11	7	
LEILA	ABNER	LS1		2764	SOIL	-0.001	9	12	6	
LEILA	ABNER	LS1		2765	SOIL	-0.001	9	11	7	
LEILA	ABNER	LS1		2766	SOIL	-0.001	14	15	8	
LEILA	ABNER	LS1		2767	SOIL	-0.001	7	9	3	
LEILA	ABNER	LS1		2768	SOIL	-0.001	9	10	3	
LEILA	ABNER	LS1		2769	SOIL	-0.001	7	-5	3	
LEILA	ABNER	LS1		2770	SOIL	-0.001	7	8	5	
Y	BATTEN	YS1		2771	SOIL	-0.001	11	10	6	
Y	BATTEN	YS1		2774	SOIL	0.001	275	7	5	
Y	BATTEN	YS1		2775	SOIL	-0.001	3	-5	3	
Y	BATTEN	YS1		2776	SOIL	-0.001	3	-5	2	
Y	BATTEN	YS2		2777	SOIL	-0.001	11	7	7	
Y	BATTEN	YS2		2778	SOIL	-0.001	21	9	30	
Y	BATTEN	YS2		2779	SOIL	-0.001	5	-5	5	
Y	BATTEN	YS2		2780	SOIL	-0.001	6	-5	4	
Y	BATTEN	YS2		2781	SOIL	-0.001	3	-5	11	
Y	BATTEN	YS2		2782	SOIL	-0.001	5	-5	12	
Y	BATTEN	YS2		2783	SOIL	-0.001	7	23	58	

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
Y	BATTEN		YS2	3734	SOIL	-0.001	5	7	16	
Y	BATTEN		YS2	3735	SOIL	-0.001	7	-5	11	
Y	BATTEN		YS2	3736	SOIL	-0.001	5	-5	3	
Y	BATTEN		YS2	3737	SOIL	-0.001	6	-5	10	
Y	BATTEN		YS2	3738	SOIL	-0.001	4	-5	3	
Y	BATTEN		YS2	3739	SOIL	-0.001	6	-5	15	
Y	BATTEN		YS2	3790	SOIL	-0.001	3	-5	-2	
Y	BATTEN		YS2	3791	SOIL	-0.001	3	-5	-2	
Y	BATTEN		YS2	3792	SOIL	-0.001	4	-5	2	
Y	BATTEN		YS2	3793	SOIL	-0.001	4	-5	2	
LITTLE CREEK S.B.	ABNER		LCS5	9251	SOIL	-0.001	9	17	3	
LITTLE CREEK S.B.	ABNER		LCS5	9252	SOIL	0.001	14	20	11	
LITTLE CREEK S.B.	ABNER		LCS5	9253	SOIL	-0.001	18	35	10	
LITTLE CREEK S.B.	ABNER		LCS5	9254	SOIL	-0.001	13	22	3	
LITTLE CREEK S.B.	ABNER		LCS5	9255	SOIL	-0.001	11	23	9	
LITTLE CREEK S.B.	ABNER		LCS5	9256	SOIL	-0.001	12	65	9	
LITTLE CREEK S.B.	ABNER		LCS5	9257	SOIL	-0.001	14	27	9	
LITTLE CREEK S.B.	ABNER		LCS5	9258	SOIL	-0.001	12	22	10	
LITTLE CREEK S.B.	ABNER		LCS5	9259	SOIL	-0.001	11	30	10	
LITTLE CREEK S.B.	ABNER		LCS5	9260	SOIL	0.002	14	36	8	
LITTLE CREEK S.B.	ABNER		LCS5	9261	SOIL	-0.001	17	55	22	
LITTLE CREEK S.B.	ABNER		LCS5	9262	SOIL	-0.001	11	38	8	
LITTLE CREEK S.B.	ABNER		LCS5	9263	SOIL	0.003	13	39	6	
LITTLE CREEK S.B.	ABNER		LCS5	9264	SOIL	-0.003	12	20	10	
LITTLE CREEK S.B.	ABNER		LCS5	9265	SOIL	0.002	15	24	16	
LITTLE CREEK S.B.	ABNER		LCS5	9266	SOIL	0.004	13	15	15	
LITTLE CREEK S.B.	ABNER		LCS5	9267	SOIL	0.002	11	17	8	
LITTLE CREEK S.B.	ABNER		LCS5	9268	SOIL	0.001	15	26	11	
LITTLE CREEK S.B.	ABNER		LCS5	9269	SOIL	-0.001	11	34	13	
LITTLE CREEK S.B.	ABNER		LCS5	9270	SOIL	0.003	19	25	12	
LITTLE CREEK S.B.	ABNER		LCS5	9271	SOIL	0.002	15	21	9	
LITTLE CREEK S.B.	ABNER		LCS5	9272	SOIL	0.001	13	13	9	
LITTLE CREEK S.B.	ABNER		LCS5	9273	SOIL	0.001	15	28	12	
LITTLE CREEK S.B.	ABNER		LCS5	9274	SOIL	0.019	12	26	12	
LITTLE CREEK S.B.	ABNER		LCS5	9275	SOIL	0.003	15	36	10	
LITTLE CREEK S.B.	ABNER		LCS5	9276	SOIL	0.003	13	27	13	
LITTLE CREEK S.B.	ABNER		LCS5	9277	SOIL	0.002	14	31	13	
LITTLE CREEK S.B.	ABNER		LCS5	9278	SOIL	0.001	15	24	9	
LITTLE CREEK S.B.	ABNER		LCS5	9279	SOIL	0.002	12	15	15	
LITTLE CREEK S.B.	ABNER		LCS5	9280	SOIL	0.002	41	23	19	
MYSTERY MINE	ABNER			9501	ROCK	-0.01	8	-5	13	30
MYSTERY MINE	ABNER			9502	ROCK	-0.01	7	-5	15	75
MYSTERY S.B.	ABNER			9503	ROCK	-0.01	6	-5	62	820
MYSTERY S.B.	ABNER			9504	ROCK	-0.01	-2	-5	15	230
MALAPUNYAH CENTRAL	ABNER			9505	ROCK	-0.01	260	165	320	320
MALAPUNYAH CENTRAL	ABNER			9506	ROCK	-0.01	130	240	950	175
MALAPUNYAH CENTRAL	ABNER			9507	ROCK	-0.01	94	360	110	115
MALAPUNYAH CENTRAL	ABNER			9508	ROCK	-0.01	220	350	1130	360

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Al	Cu	Pb	Zn	Ba
MALAPUNYAH CENTRAL	ABNER	SOUTH		9509	ROCK	-0.01	75	300	890	1200
MALAPUNYAH CENTRAL	ABNER			9510	ROCK	0.02	64	130	830	390
MALAPUNYAH CENTRAL	ABNER			9511	ROCK	-0.01	21	150	260	115
MALAPUNYAH CENTRAL	ABNER			9512	ROCK	-0.01	100	40	1360	5200
MALAPUNYAH CENTRAL	ABNER			9513	ROCK	-0.01	225	75	550	420
MALAPUNYAH CENTRAL	ABNER			9514	ROCK	-0.01	42	130	240	150
MALAPUNYAH CENTRAL	ABNER			9515	ROCK	-0.01	490	11	1660	2500
MALAPUNYAH CENTRAL	ABNER			9516	ROCK	-0.01	1140	41	1320	540
MALAPUNYAH CENTRAL	ABNER			9517	ROCK	-0.01	39	22	1480	560
MALAPUNYAH CENTRAL	ABNER			9518	ROCK	-0.01	34	61	760	45
MYSTERY	ABNER			9519	ROCK	-0.01	13	-5	77	6100
MYSTERY	ABNER			9520	ROCK	-0.01	3	-5	54	240
MYSTERY	ABNER			9521	ROCK	-0.01	5	-5	52	145
MYSTERY	ABNER			9522	ROCK	-0.01	3	-5	24	520
DARCY SOUTH	ABNER			9523	ROCK	-0.01	13	11	175	3050
DARCY'S MINE	ABNER			9524	ROCK	-0.01	4.56%	1060	640	210
DILLINGHAMS BORE	ABNER			9525	ROCK	-0.01	240	11	25	1260
DILLINGHAMS BORE	ABNER			9526	ROCK	-0.01	140	3	19	1280
LITTLE CREEK S.B.	ABNER			9527	ROCK	-0.01	21	61	19	710
4 MILE LAGOON	BATTEN			9528	ROCK	-0.01	11	11	200	410
4 MILE LAGOON	BATTEN			9529	ROCK	0.03	13	14	245	410
4 MILE LAGOON	BATTEN			9530	ROCK	-0.01	14	28	93	115
4 MILE LAGOON	BATTEN			9531	ROCK	-0.01	15	47	80	670
4 MILE LAGOON	BATTEN			9532	ROCK	-0.01	67	32	68	420
BAUHINIA	BAUHINIA DOW			9533	ROCK	-0.01	39	46	580	4100
E CREEK	MANTANGULA			9534	ROCK	-0.01	670	295	290	110
E CREEK	MANTANGULA			9535	ROCK	-0.01	430	57	115	120
E CREEK	MANTANGULA			9536	ROCK	-0.01	340	345	155	195
NE HAMMERS	MANTANGULA			9537	ROCK	-0.01	9	365	415	135
NE HAMMERS	MANTANGULA			9538	ROCK	-0.01	68	475	1340	250
MALAPUNYAH S.B.	ABNER			9539	ROCK	-0.01	15	24	16	650
4 MILE LAGOON	BATTEN			9540	ROCK	-0.01	20	-5	165	1100
NE HAMMERS	MANTANGULA			9541	ROCK	-0.01	10	620	800	195
KILGOUR RIVER	ABNER			9542	ROCK	-0.01	12	41	300	155
KILGOUR RIVER	ABNER			9543	ROCK	-0.01	8	32	210	340
KILGOUR RIVER	ABNER			9544	ROCK	-0.01	53	53	360	7600
KILGOUR RIVER	ABNER			9545	ROCK	-0.01	18	30	155	220
KILGOUR RIVER	ABNER			9546	ROCK	-0.01	20	21	77	250
KILGOUR RIVER	ABNER			9547	ROCK	-0.01	8	24	300	1240
KILGOUR RIVER	ABNER			9548	ROCK	-0.01	770	1620	46	210
KILGOUR RIVER	ABNER			9549	ROCK	-0.01	145	1220	295	590
KILGOUR RIVER	ABNER			9550	ROCK	-0.01	170	1520	195	310
LITTLE CREEK S.B.	ABNER			9551	ROCK	-0.01	9	-5	15	490
LITTLE CREEK S.B.	ABNER			9552	ROCK	-0.01	50	16	150	5000
LITTLE CREEK S.B.	ABNER			9553	ROCK	-0.01	8	-5	10	150
T1(N)	BATTEN			9554	ROCK	0.01	21	38	23	1080
T1(S)	BATTEN			9555	ROCK	-0.01	22	8	3	310
T1(S)	BATTEN			9556	ROCK	-0.01	36	12	54	490

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
T1(S)	BATTEN			9557	ROCK	-0.01	16	11	98	440
MALAPUNYAH S.B.	ABNER			9558	ROCK	-0.01	7	48	520	310
MALAPUNYAH S.B.	ABNER			9559	ROCK	-0.01	600	1980	3520	4700
MALAPUNYAH S.B.	ABNER			9560	ROCK	-0.01	77	27	990	2100
MALAPUNYAH S.B.	ABNER			9561	ROCK	-0.01	50	35	980	1060
YALCO	BATTEN			9562	ROCK	-0.01	19	25	245	155
DILLINGHAM'S BORE	ABNER			9563	ROCK	-0.001	3	-5	3	
Y	BATTEN			9651	ROCK	-0.01	13	9	215	120
Y	BATTEN			9652	ROCK	-0.01	16	26	225	310
Y	BATTEN			9653	ROCK	-0.01	32	6	175	120
JOHNSTONS	BATTEN			9654	ROCK	0.08	24.4%	310	225	130
T1(S)	BATTEN			9655	ROCK	-0.01	700	17	24	125
ABNER	ABNER			9656	ROCK	-0.01	2200	22	330	590
TOOGANINIE	ABNER			9657	ROCK	-0.01	86	28	73	150
TOOGANINIE	ABNER			9658	ROCK	-0.01	93	12	175	1040
DINGO CREEK	ABNER			9659	ROCK	-0.01	33	18	13	360
TOP SPRINGS	ABNER			9660	ROCK	-0.01	48	-5	24	520
MALAPUNYAH	ABNER	WEST		9661	ROCK	-0.01	38	-5	39	200
Y	BATTEN			9662	ROCK	-0.01	79	-5	410	145
Y	BATTEN			9663	ROCK	-0.01	57	-5	290	80
Y	BATTEN			9664	ROCK	-0.01	36	-5	295	40
Y	BATTEN			9665	ROCK	-0.01	10	-5	87	890
Y	BATTEN			9666	ROCK	-0.01	24	9	160	7300
Y	BATTEN			9667	ROCK	-0.01	41	7	64	1060
YALCO	BATTEN			9668	ROCK	-0.01	32	12	105	1440
YALCO	BATTEN			9669	ROCK	-0.01	82	12	84	230
CLARKE CREEK	BATTEN			9670	ROCK	-0.01	15	12	140	260
CLARKE CREEK	BATTEN			9671	ROCK	-0.01	41	16	92	195
SAWTOOTH	BATTEN			9672	ROCK	-0.01	12	110	33	440
JOHNSTONS	BATTEN			9673	ROCK	-0.01	1.6%	1.01%	27	180
JOHNSTONS	BATTEN			9674	ROCK	-0.01	7450	1.03%	99	400
MARINER	BATTEN			9675	ROCK	-0.01	115	570	10	140
GORDON'S C.	TAWALLAH RAN			9676	ROCK	-0.01	5850	255	12	35
BAUHINIA	BAUHINIA DOW			9677	ROCK	-0.01	60	110	540	230
NE HAMMERS	MANTANGULA			9678	ROCK	-0.01	135	1620	1400	290
NE HAMMERS	MANTANGULA			9679	ROCK	-0.01	24	240	3940	2500
LEILA 1ST	ABNER			9680	ROCK	-0.01	7	35	19	50
LEILA 1ST	ABNER			9681	ROCK	-0.01	63	43	22	530
4 MILE LAGOON	BATTEN			9682	ROCK	-0.01	74	45	58	2900
TAWALLAH	BATTEN			9683	ROCK	-0.01	36	22	13	2350
NE HAMMERS	MANTANGULA			9684	ROCK	-0.01	255	35	285	2050
WICKENS HILL	BORROLOOLA			9635	ROCK	-0.01	48	4880	1.26%	105
REWARD	BORROLOOLA			9686	ROCK	-0.01	1940	1.31%	820	65
REWARD	BORROLOOLA			9687	ROCK	-0.01	310	9600	165	30
HOT SPRINGS	BATTEN			9688	ROCK	-0.01	70	640	405	320
HOT SPRINGS	BATTEN			9689	ROCK	-0.01	67	240	305	280
WICKENS HILL	BORROLOOLA			9690	ROCK	-0.01	36	1380	8850	100
CLARKE CREEK	BATTEN			9691	ROCK	-0.01	110	190	455	1.4%

MCARTHUR RIVER BASIN SAMPLE RESULTS

TARGET AREA	MAP SHEET	CO-ORDINATES	TRAVERSE	SAMPLE No.	TYPE	Au	Cu	Pb	Zn	Ba
CLARKE CREEK	BATTEN			9692	ROCK	-0.01	26	210	165	9600
CLARKE CREEK	BATTEN			9693	ROCK	-0.01	23	9	51	4600
NW MALAPUNYAH S.B.	ABNER			9694	ROCK	0.032	285	-5	6	
YAH YAH Cu MINE	ABNER			9695	ROCK	-0.001	5.72	394	394	
3 MILE WATERHOLE	ABNER			9696	ROCK	-0.001	49	48	23	
CARABIRINI MINE	ABNER			9697	ROCK	-0.001	234	60	13	
2 WAY BORE	ABNER			9698	ROCK	0.001	38	-5	98	
CARABIRINI	BORROLOOLA			9701	ROCK	-0.01	55	48	76	75
CARABIRINI	BORROLOOLA			9702	ROCK	-0.01	75	85	12	1400
LEILA	ABNER			9703	ROCK	-0.01	175	580	115	145
LEILA	ABNER			9704	ROCK	-0.01	22	96	9	110
LEILA S.B.	ABNER			9705	ROCK	-0.01	155	12	72	640
LEILA S.B.	ABNER			9706	ROCK	-0.01	25	7	26	510
LEILA S.B.	ABNER			9707	ROCK	-0.01	49	205	77	490
MYSTERY S.B.	ABNER			9708	ROCK	-0.01	7	6	98	3600

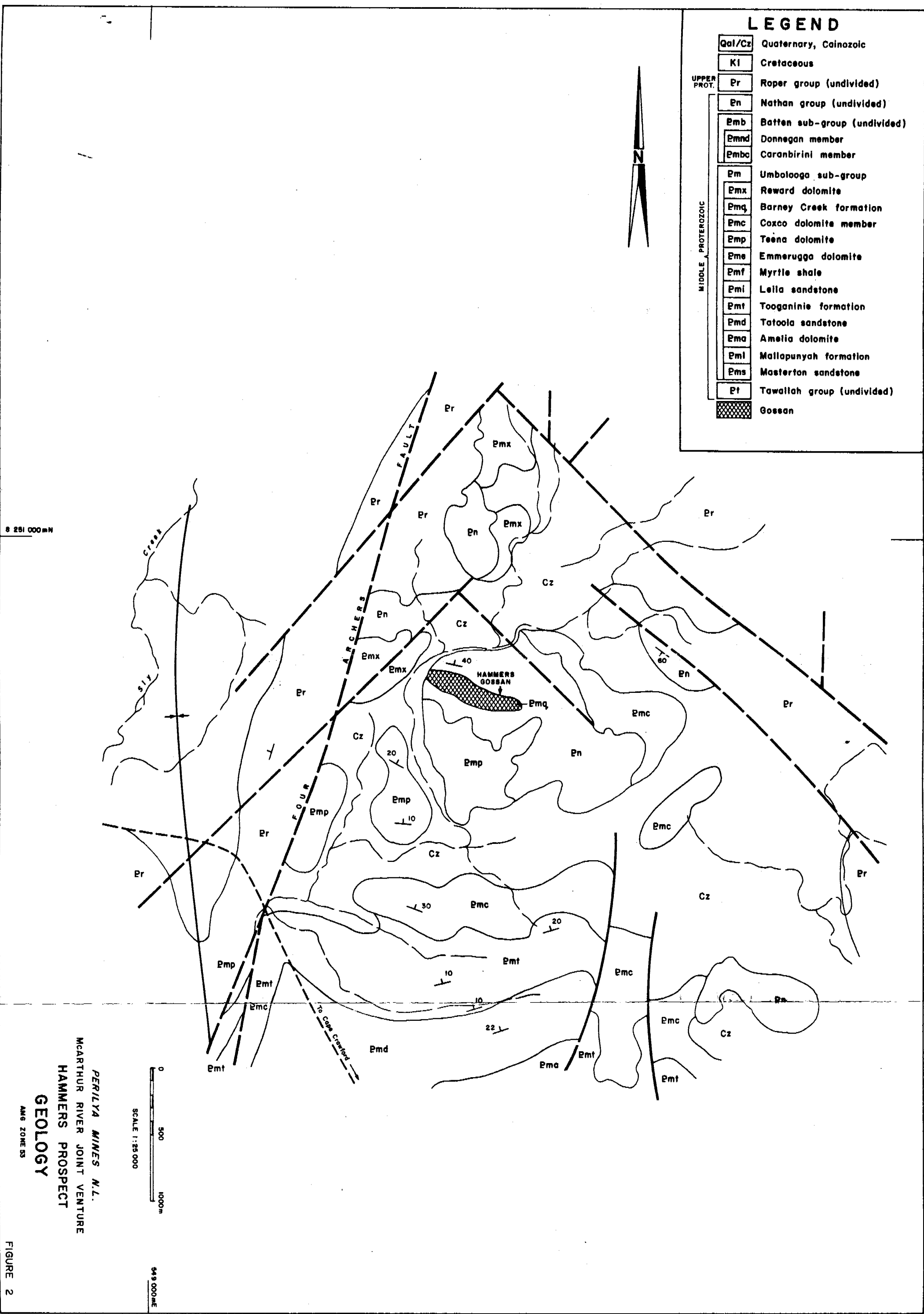


FIGURE 2

LEGEND

SAMPLE
NUMBER

Au RESULT
IN PPB

9655 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba)
RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



549 000mE

8 251 000mN

8504 □ 8, 5, 3, <1

8503 □ 9, 5, 5, <1

8501
□ 4, 5, 12, <1

7918
7, 5, 6, 2 □

7916 □
10, 5, 10, 2

7917 □
5, 5, 16, <1

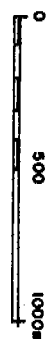
8502
□ 4, 5, 7, <1

9541
10, 620, 800, 195, <1 Δ 9537 = 9, 365, 415, 135, <1
Δ 9538 = 68, 475, 1340, 250, <1

9678 9679
185, 1620, 1400, 290, <1 Δ 24, 240, 3940, 2500, <1

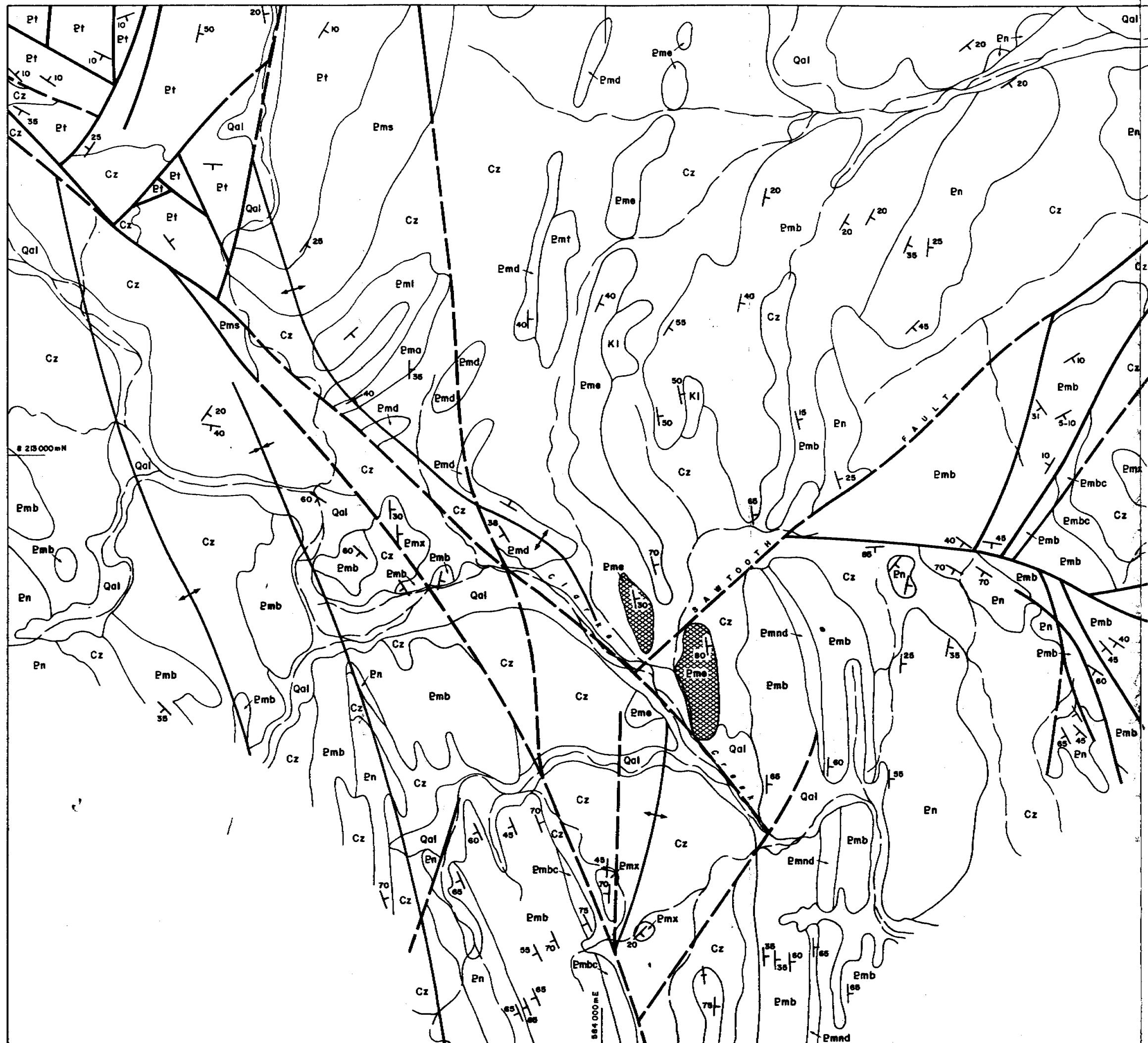
8505 □ 24, 41, 5, <1
8575 □ 71, 200, 260, <1
8574 □ 60, 205, 115, <1
8573 □ 29, 70, 21, 2
8572 □ 26, 50, 18, <1
8565 □ 47, 93, 37, <1
8564 □ 54, 120, 37, 4
8563 □ 56, 135, 53, <1
8562 □ 44, 99, 70, <1
8561 □ 99, 138, 115, 3
8560 □ 58, 99, 88, <1
8559 □ 28, 58, 76, 2
8558 □ 20, 21, 18, <1
8557 □ 50, 80, 115, <1
8556 □ 31, 34, 33, <1
8555 □ 59, 89, 29, <1
8554 □ 38, 21, 54, <1
8553 □ 18, 9, 13, <1
8552 □ 14, 8, 10, <1
8551 □ 13, <5, 7, <1
7914 □ 16, <5, 13, 1
9684 Δ 225, 35, 285, 2050, <1
7915 □ 20, 9, 34, <1

7913 □
12, 6, 9, <1



SCALE 1:25000
MAG ZONE 53

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
HAMMERS PROSPECT
GEOCHEMISTRY OVERLAY



LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Emnd	Donnegan member
Embc	Caranbirini member
MIDDLE PROTEROZOIC	
Pm	Umbolooga sub-group
Pmx	Reward dolomite
Emq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Leila sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan



0 500 1000 m
SCALE 1:25 000

PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
CLARKE CREEK PROSPECT
GEOLOGY

AM6 ZONE 53

LEGEND

SAMPLE NUMBER Au RESULT IN PPB

9655 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba)
RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



0 500 1000 m

SCALE 1:25 000
AMG ZONE 53

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
CLARKE CREEK PROSPECT
GEOCHEMISTRY OVERLAY

FIGURE 5

7926 □ 6, <5, 4, <1

7925 □ 7, 7, 8, <1

7970 □ 16, 9, 22, 1

213 000 mN

7924 □ 8, 9, 5, 1

7929 □ 29, 7, 14, <1

9692 Δ 26, 210, 165, 9600, <10
7928 □ 8, <5, 5, <1
9693 Δ 23, 9, 51, 4600, <10
5, 8, 8, <1
9, 7, 6, <1
7923 □
9670 Δ 41, 16, 92, 195, <10
15, 12, 140, 260, 10
9694 Δ 110, 190, 455, 1.4%, <10
7921 □ 11, 13, 12, 1
7920 □ 7, <5, 6, 2

7919 □ 8, <5, 3, 3

584 000 mE

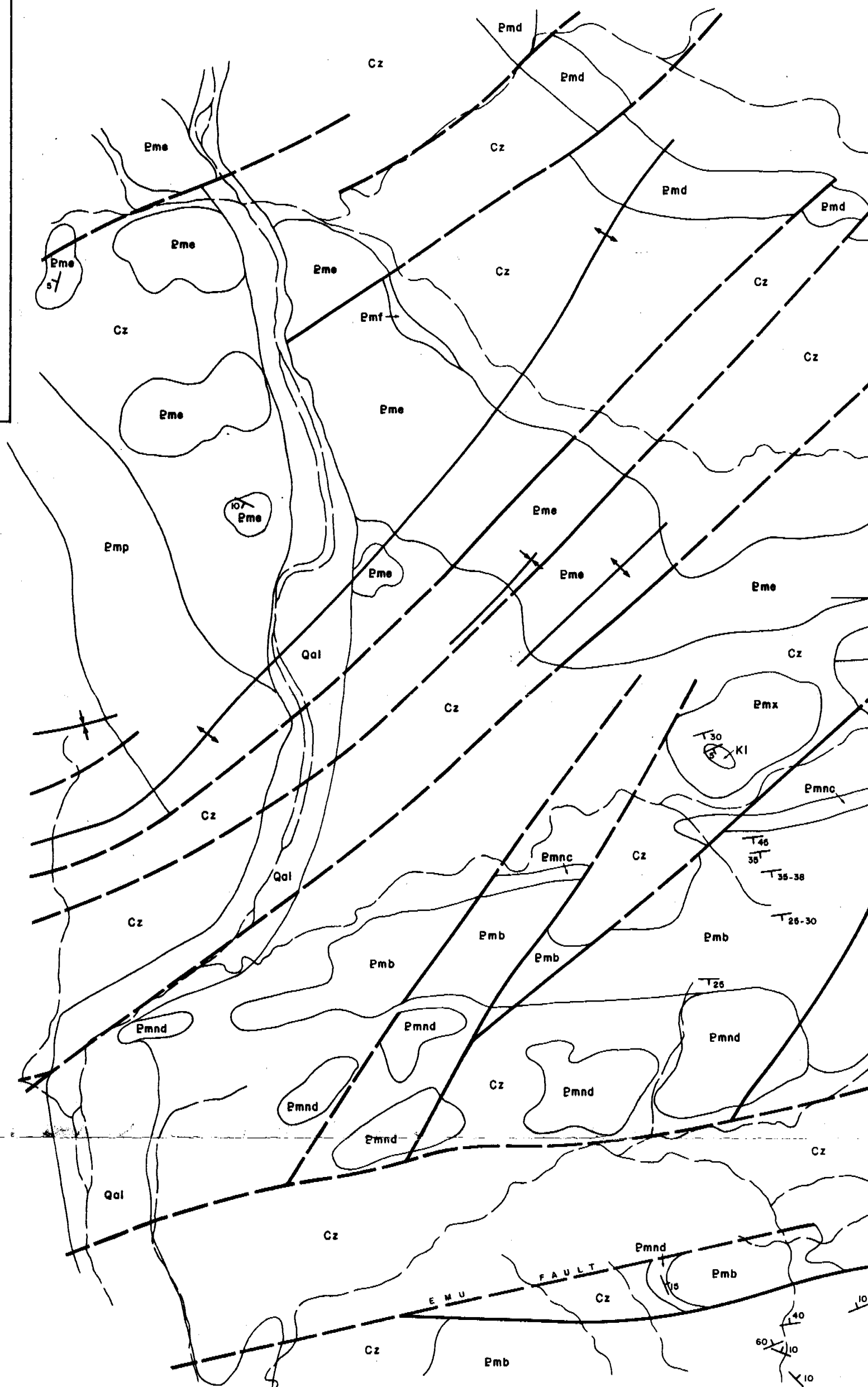
LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Pmnd	Donnegan member
Pmbo	Caranbirini member
Pm	Umboloaga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Lella sandstone
Pmt	Tooganina formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan

UPPER PROT.

MIDDLE PROTEROZOIC

601 000 ME



0 500 1000m
SCALE 1:25 000

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
YALCO PROSPECT
GEOLOGY
AMB ZONE 53

LEGEND

SAMPLE
NUMBER

Au RESULT
IN PPB

700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba)
RESULTS IN PPM

- △ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



7886 □ 8, <5, 5, <1

7887 □ 6, <5, 3, <1

7874 □
8, 8, 4, <1

7873 □
6, <5, 5, 2

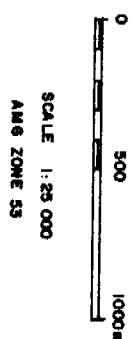
801 000 ME

8017 ○ 27, 15, 44, 2
8016 ○ 15, 12, 13, 2
8015 ○ 11, 11, 14, <1
8014 ○ 8, 15, 7, <1
8013 ○ 7, 13, 7, 1
8012 ○ 25, 97, 21, 2
8011 ○ 25, 65, 21, 2
8010 ○ 17, 25, 14, 2 △ 9569
82, 12, 84, 230, <10
8009 ○ 12, 13, 7, <1
8008 ○ 11, 11, 10, <1
8007 ○ 10, 10, 6, <1
8006 ○ 16, 14, 24, <1
8005 ○ 15, 20, 16, 1
8004 ○ 8, <5, 4, <1
8003 ○ 29, 45, 24, <1
8002 ○ 12, 12, 6, <1
8001 ○ 17, 20, 9, <1

□ 7872
8, 8, 5, 2

7888 □ 7, <5, 5, 1

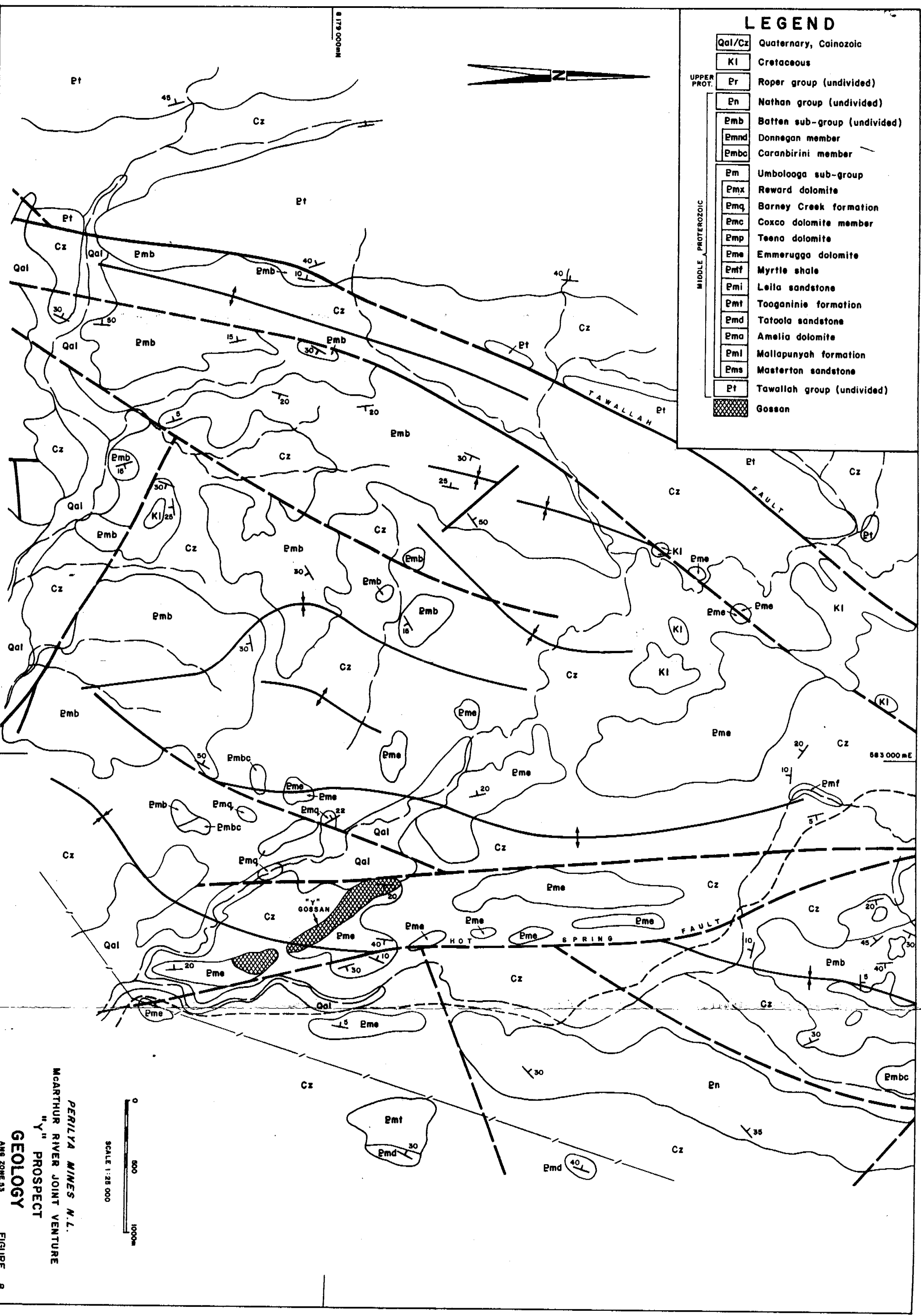
PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
YALCO PROSPECT
GEOCHEMISTRY OVERLAY



8 179 000m

LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Pmnd	Donnegan member
Pmbc	Caranbirini member
MIDDLE PROT.	
Pm	Umbalooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Leila sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masteron sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan



PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
"Y" PROSPECT
GEOLOGY
Area Zone 93
FIGURE 8

LEGEND

**SAMPLE
NUMBER** → 9999 Δ 700, 17, 24, 125, <10

**Au RESULT
IN PPB** →

**Cu, Pb, Zn, (8α)
RESULTS IN PPM** →

Δ ROCK CHIP SAMPLE
 □ STREAM SEDIMENT SAMPLE
 ○ SOIL SAMPLE



7912 □ 11, < 5, 8, < 1

7910 ☐ 9, < 5, 10, < 1

7909 ☐
6, <5, 5, 1

7910 ☐ 7, <5, 6, 2

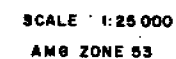
303 000 ME

$9681 \triangle 18, 9, 215, 120, <10$
 $9682 \triangle 79, <5, 410, 145, <10$
 $9683 \triangle 57, <5, 290, 80, <10$

$9653 \triangle 32, 6, 175, 120, <10$

$9652 \triangle 16, 26, 225, 310, <10$
 $9652 \triangle 36, <5, 3, 296, 40, <10$
 $9666 \triangle 8685$
 $9685 \triangle 10, <6, 890, <10$
 $9686 \triangle 8591, 6, 9, 10, 1$
 $9687 \triangle 8566$
 $9688 \triangle 245, 160, 7300, <10$
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 $9874 \triangle$

8224 □ 11, 6, 6, <1



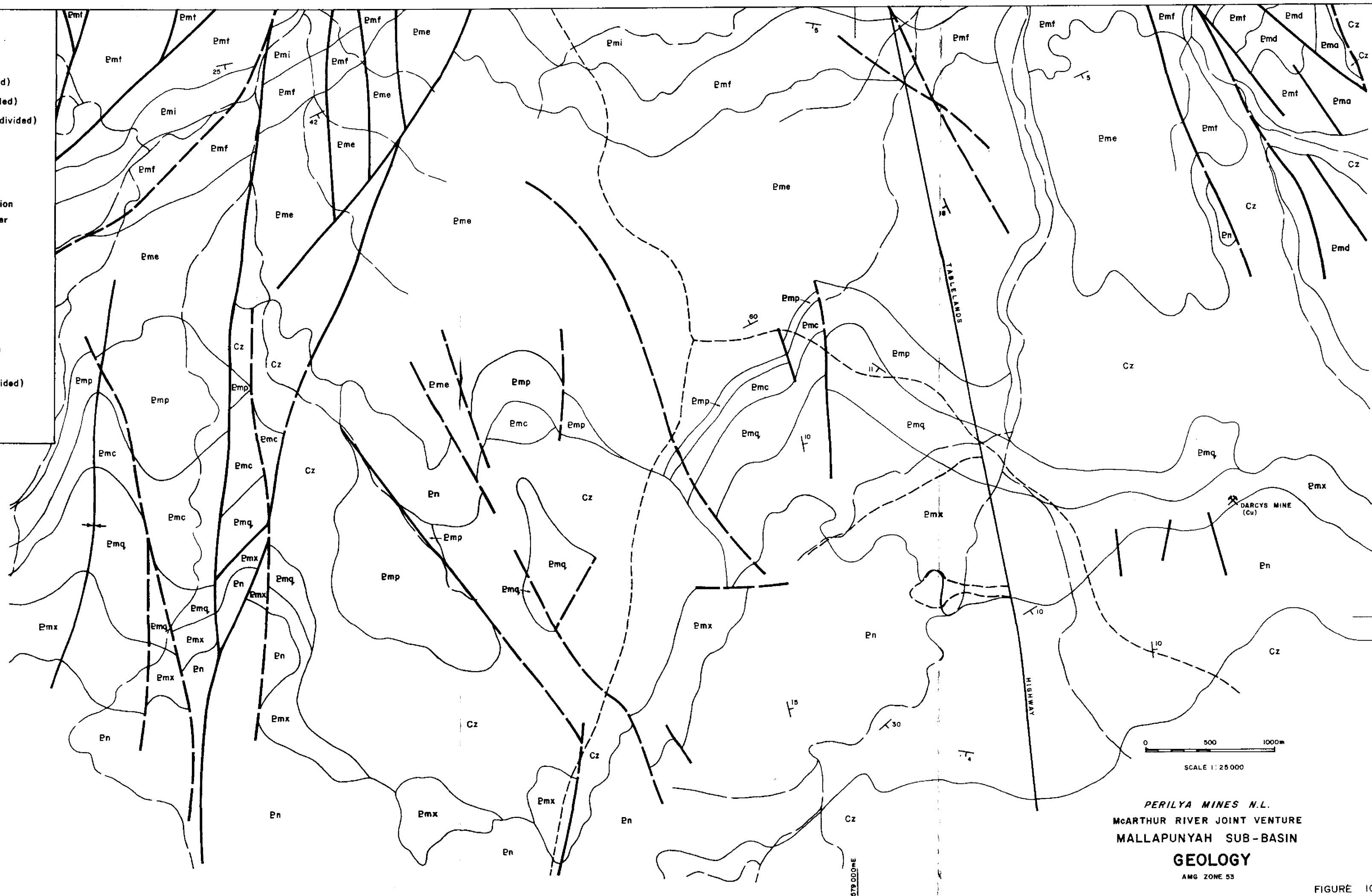
PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
"Y" PROSPECT
GEOCHEMISTRY OVERLAY

LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Pmd	Donnegan member
Pmbc	Coranbirini member
Pm	Umbolooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Leila sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masteron sandstone
Pt	Tawallah group (undivided)
	Gossan

UPPER
PROT.

MIDDLE PROTEROZOIC



PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
MALLAPUNYAH SUB-BASIN
GEOLOGY
AMG ZONE 53

LEGEND

SAMPLE NUMBER
9655 Δ 700, 17, 24, 125, <10
Au RESULT IN PPB
Cu, Pb, Zn, (Ba) RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



7866 □ 9, 12, 21, <1
11, 15, 30, <1 □ 7865
7843 □ 17, 13, 41, 2

7844 □ 20, 15, 26, 3

9, 8, 7, <1 □ 7867

7868 □ 11, 7, 6, <1

9661 Δ 38, <5, 39, 200, <1

8500 ○ 4, 10, 10, <1
8499 ○ 5, 13, 47, <1
8498 ○ 7, 13, 21, <1
8497 ○ 8, 19, 16, <1
8496 ○ 9, 20, 16, <1
8495 ○ 9, 24, 4, <1
8494 ○ 13, 29, 5, <1
8493 ○ 17, 25, 7, <1
8492 ○ 7, 6, 5, <1
8491 ○ 6, 6, 6, <1
8490 ○ 9, 6, 7, <1
8489 ○ <2, <5, 6, <1
8488 ○ 5, 12, 9, <1
8487 ○ 14, 29, 21, <1
8486 ○ 7, 10, 4, <1
8485 ○ 8, 11, 6, <1
8484 ○ 6, 8, 4, <1
8483 ○ 7, 19, 5, <1
8482 ○ 5, 5, 9, <1
8481 ○ 5, 6, 9, <1

7869 □ 8, 9, 14, 1

77, 27, 990, 2100, <1 = 9560

8480 ○ 19, 21, 16, <1
8479 ○ 9, 23, 24, 3
8478 ○ 7, 19, 14, <1
8477 ○ 9, 11, 8, 1
8476 ○ 8, 13, 11, <1
8475 ○ 9, 7, 9, 1
8474 ○ 11, <5, 11, 1
8473 ○ 12, 9, 10, 1
8472 ○ 10, 15, 10, 1
8471 ○ 11, 12, 11, 1
8470 ○ 7, 8, 9, 1

50, 35, 980, 1060, <1 = 9561

8469 ○ 105, 21, 9, 1
8468 ○ 77, 21, 12, 2
8467 ○ 39, 285, 28, 1
8466 ○ 79, 75, 22, 2
8465 ○ 63, 57, 14, 1
8464 ○ 30, 9, 9, 2
8463 ○ 50, 21, 10, 1
8462 ○ 7, 7, 19, <1
8461 ○ 22, 21, 10, 2
8460 ○ 15, 12, 15, 1
8459 ○ 13, 13, 17, 1
8458 ○ 8, 10, 41, <1
8457 ○ 7, 8, 27, 1
8456 ○ 17, 36, 165, <1
8455 ○ 7, 8, 28, <1
8454 ○ 7, 9, 15, 2
8453 ○ 7, 9, 18, 1
8452 ○ 12, 19, 39, <1
8451 ○ 10, 12, 27, <1

13, 29, 39, <1 ○ 8121
24, 75, 10, <1 ○ 8120
23, 52, 12, 2 ○ 8119
15, 96, 10, <1 ○ 8118
17, 120, 16, <1 ○ 8117
28, 36, 24, <1 ○ 8116
9, 37, 37, <1 ○ 8115
36, 44, 17, <1 ○ 8114
32, 61, 21, <1 ○ 8113
33, 55, 47, <1 ○ 8112
34, 72, 46, <1 ○ 8111
39, 34, 50, <1 ○ 8110
55, 24, 200, <1 ○ 8109
16, 44, 56, 2 ○ 8108
56, 76, 140, <1 ○ 8107
12, 24, 41, <1 ○ 8106
14, 28, 50, <1 ○ 8105
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100, 40, 1360, 5200, <1 = 9512
225, 75, 590, 420, <1 = 9513
48, 130, 240, 150, <1 = 9514
490, 11, 1660, 2500, <1 = 9515
1140, 41, 1820, 540, <1 = 9516
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8103 ○ 6, 13, 13, <1
8102 ○ 6, 17, 13, <1
8101 ○ 9, 23, 21, <1

9505 = 260, 165, 880, 320, <1
9506 = 130, 240, 950, 175, <1
9507 = 94, 360, 110, 115, <1
9508 = 220, 350, 1180, 360, <1
9509 = 75, 300, 890, 1200, <1
9510 = 64, 130, 830, 390, 2
9511 = 21, 150, 260, 115, <1

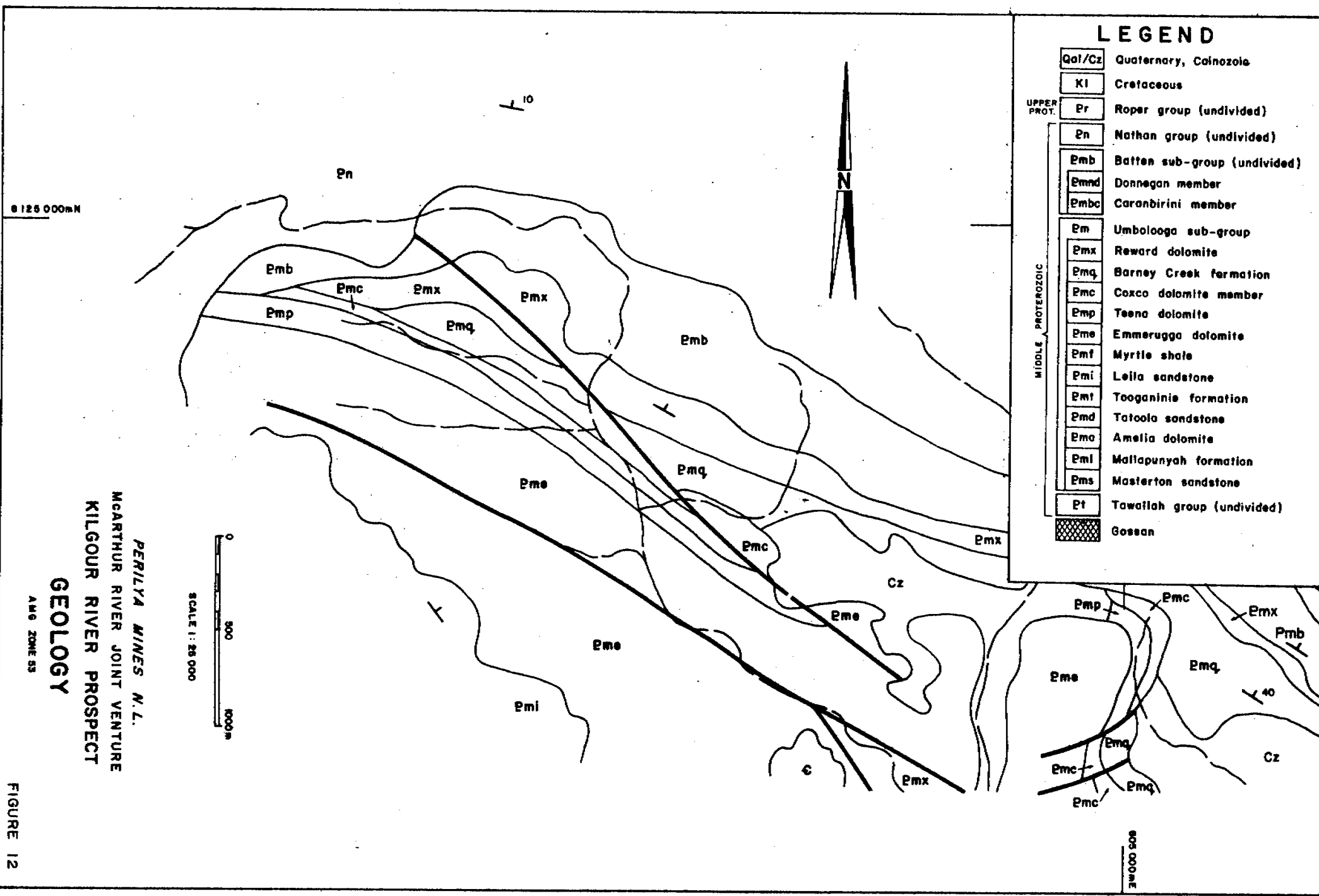
8432 ○ 12, 18, 27, <1
8431 ○ 19, 37, 70, <1
8430 ○ 27, 39, 38, <1
8429 ○ 37, 13, 35, 1
8428 ○ 13, 13, 42, <1
8427 ○ 14, 23, 23, <1
8426 ○ 29, 29, 81, 1
8425 ○ 19, 18, 19, 2
8424 ○ 15, 13, 17, <1
8423 ○ 39, 48, 25, <1
8422 ○ 44, 58, 25, <1
8421 ○ 36, 71, 35, 1
8420 ○ 22, 42, 32, 2
8419 ○ 41, 100, 130, <1
8418 = 50, 64, 105, <1
9559 = 600, 1980, 3520, 4700, <1

9524 Δ 4.65%, 1060, 640, 210, <1
9523 Δ 13, 11, 175, 3050, <1

15, 18, 27, 3 = 8449 ○ 7, 9, 14, <1
11, 11, 24, 2 = 8448 ○ 7861
8447 ○ 11, 19, 35, 1
8446 ○ 9, 14, 16, 1
8445 ○ 12, 16, 23, 2
8444 ○ 16, 20, 52, 1
8443 ○ 36, 51, 22, <1
8442 ○ 24, 35, 14, 3
8441 ○ 23, 49, 15, 1
8440 ○ 20, 46, 17, <1
8439 ○ 83, 83, 170, 1
8438 ○ 31, 40, 46, 3
8437 ○ 53, 69, 135, <1
8436 ○ 18, 27, 31, <1
8435 ○ 27, 26, 17, 1
8434 ○ 28, 46, 24, <1
8433 ○ 14, 13, 18, 2

0 500 1000 m
SCALE 1:25 000
AMG ZONE 53

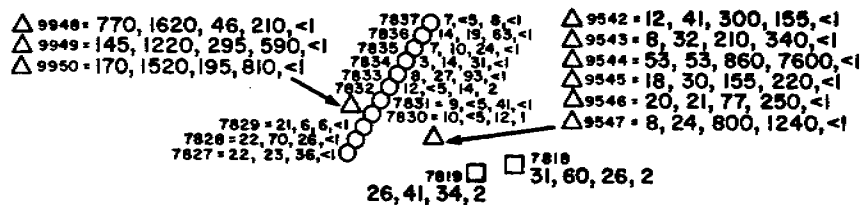
PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
MALLAPUNYAH SUB-BASIN
GEOCHEMISTRY OVERLAY



8 125 000 mN

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
KILGOUR RIVER PROSPECT
GEOCHEMISTRY OVERLAY

SCALE 1:25 000
AMG ZONE 53



LEGEND

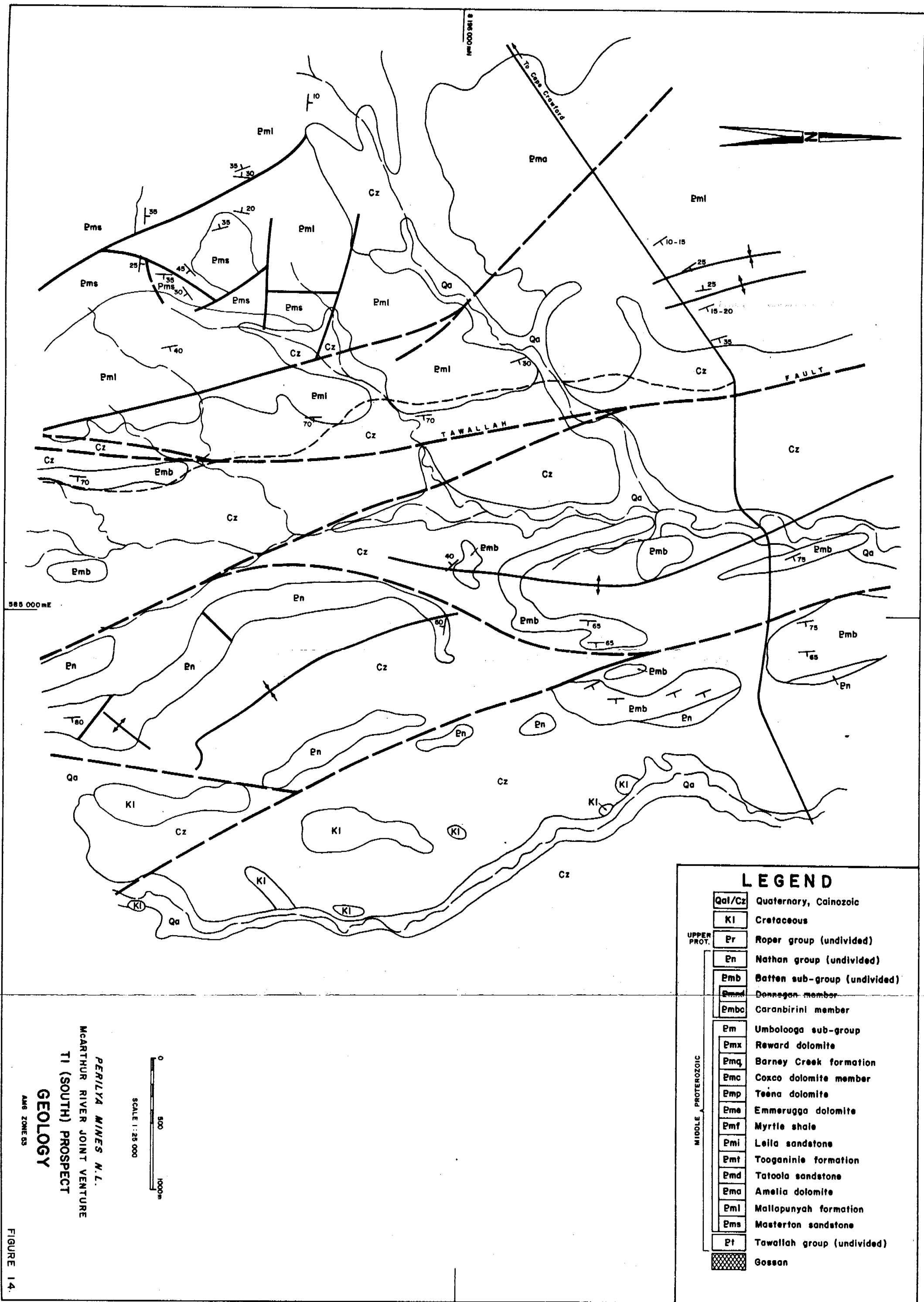
SAMPLE NUMBER
 9955 △ 700, 17, 24, 125, <10
 Au RESULT IN PPB
 Cu, Pb, Zn, (Ba)
 RESULTS IN PPM

- △ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE

7821 □ 14, 30, 21, 1

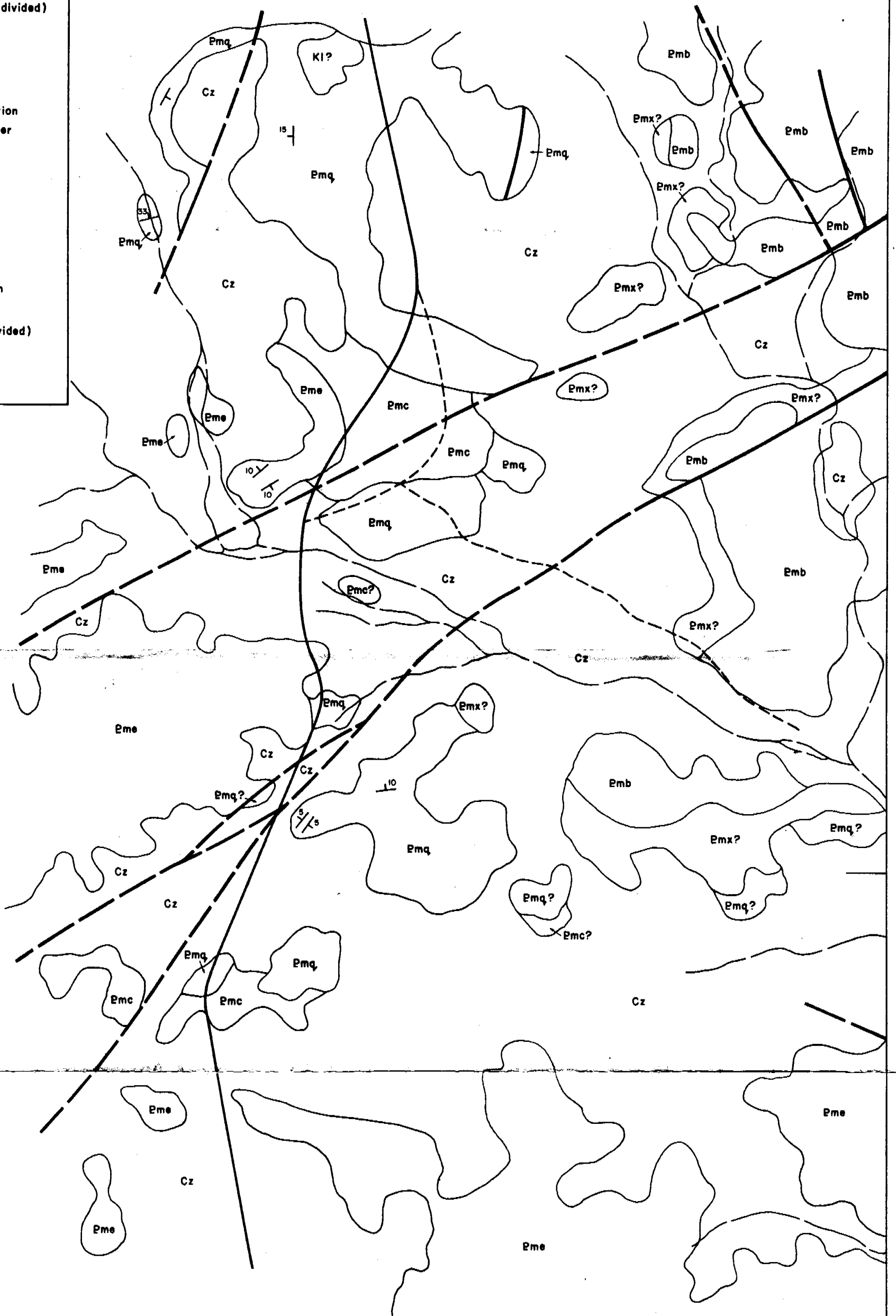
7822 □ 24, 145, 34, 1

805 000 mE



LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Pmnd	Donnegan member
Pmbc	Caranbirini member
MIDDLE PROTEROZOIC	
Pm	Umbolooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Lella sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masteron sandstone
Pt	Tawallah group (undivided)
Gossan	



PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
LITTLE CREEK SUB-BASIN
GEOLOGY
ANG ZONE 55

SCALE 1:25 000
500
1000m

LEGEND

SAMPLE NUMBER
 Au RESULT IN PPB
 700, 17, 24, 125, <10
 Cu, Pb, Zn, (Ba)
 RESULTS IN PPM

- △ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



8184 ○ 6, 8, 12, <1
 8183 ○ 4, 11, 14, <1
 8182 ○ 5, 11, 14, 1
 8181 ○ 5, 9, 9, 2
 8180 ○ 5, 11, 11, 2
 8179 ○ 5, 9, 19, 3
 8178 ○ 4, 9, 10, <1
 8177 ○ 14, <5, 16, 7
 8176 ○ 12, 24, 11, 1
 8175 ○ 9, 14, 7, <1
 8174 ○ 12, 26, 8, <1
 8173 ○ 12, 60, 20, <1
 8172 ○ 16, 62, 18, <1
 8171 ○ 16, 31, 11, <1
 8170 ○ 11, 27, 12, <1
 8169 ○ 14, 21, 18, <1
 8168 ○ 11, 25, 62, <1
 8167 ○ 17, 18, 17, <1
 8166 ○ 14, 22, 12, <1
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 8164 ○ 15, 30, 16, <1

8685 ○ 11, 28, 7, <1
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 8681 ○ 12, 26, 7, <1
 8680 ○ 12, 21, 12, <1
 8679 ○ 14, 16, 12, <1
 8678 ○ 44, 38, 13, 2
 8677 ○ 14, 18, 15, <1
 8676 ○ 23, 90, 11, <1
 8675 ○ 12, 20, 11, <1
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 8669 ○ 11, 15, 17, 1
 8668 ○ 11, 14, 19, 6
 8667 ○ 11, 24, 17, <1
 8666 ○ 12, 18, 16, <1
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 8197 ○ 14, 14, 15, <1
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 8190 ○ 13, 33, 12, <1
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 8188 ○ 12, 21, 9, <1
 8187 ○ 12, 19, 7, 3
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 8729 ○ 8, 17, 18, <1
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 8726 ○ 22, 43, 53, 1
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 8703 ○ 12, 12, 18, <1
 8702 ○ 11, 24, 18, 2
 8701 ○ 11, 22, 13, 1
 8700 ○ 11, 24, 15, 1
 8699 ○ 10, 23, 15, 2
 8698 ○ 6, 9, 12, <1
 8697 ○ 5, 6, 22, <1
 8696 ○ 8, 6, 29, <1
 8695 ○ 8, 11, 21, <1
 8694 ○ 10, 7, 14, 1
 8693 ○ 9, 16, 19, 3
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 8691 ○ 11, 22, 15, <1
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 8688 ○ 10, 6, 7, <1
 8687 ○ 7, 13, 8, <1
 8686 ○ 10, 15, 13, <1

570 000 mE

PERILYA MINES N.L.
 MCARTHUR RIVER JOINT VENTURE
 LITTLE CREEK SUB-BASIN
 GEOCHEMISTRY OVERLAY

0 500 1000 m
 SCALE 1:25 000
 AMG ZONE 55



LEGEND

Qal/Cz	Quaternary, Cainozoic
KI	Cretaceous
UPPER PROT. Pr	Roper group (undivided)
En	Nathan group (undivided)
Emb	Batten sub-group (undivided)
Emnd	Donnegan member
Embc	Caranbirini member
Em	Umbolooga sub-group
Emx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Leila sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan

0 500 1000m

SCALE 1:25 000

LEGEND

SAMPLE NUMBER Au RESULT IN PPB

9855 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba) RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



8 160 000 mm

8524 □ 20, 14, 14, <1

8523 □ 10, 13, 17, 1

8520 □ 13, 13, 16, <1

8522 □ 15, 13, 18, 1

8521 □ 13, 14, 10, <1

8519 □ 12, 8, 14, <1

8518 □ 14, 12, 16, 1

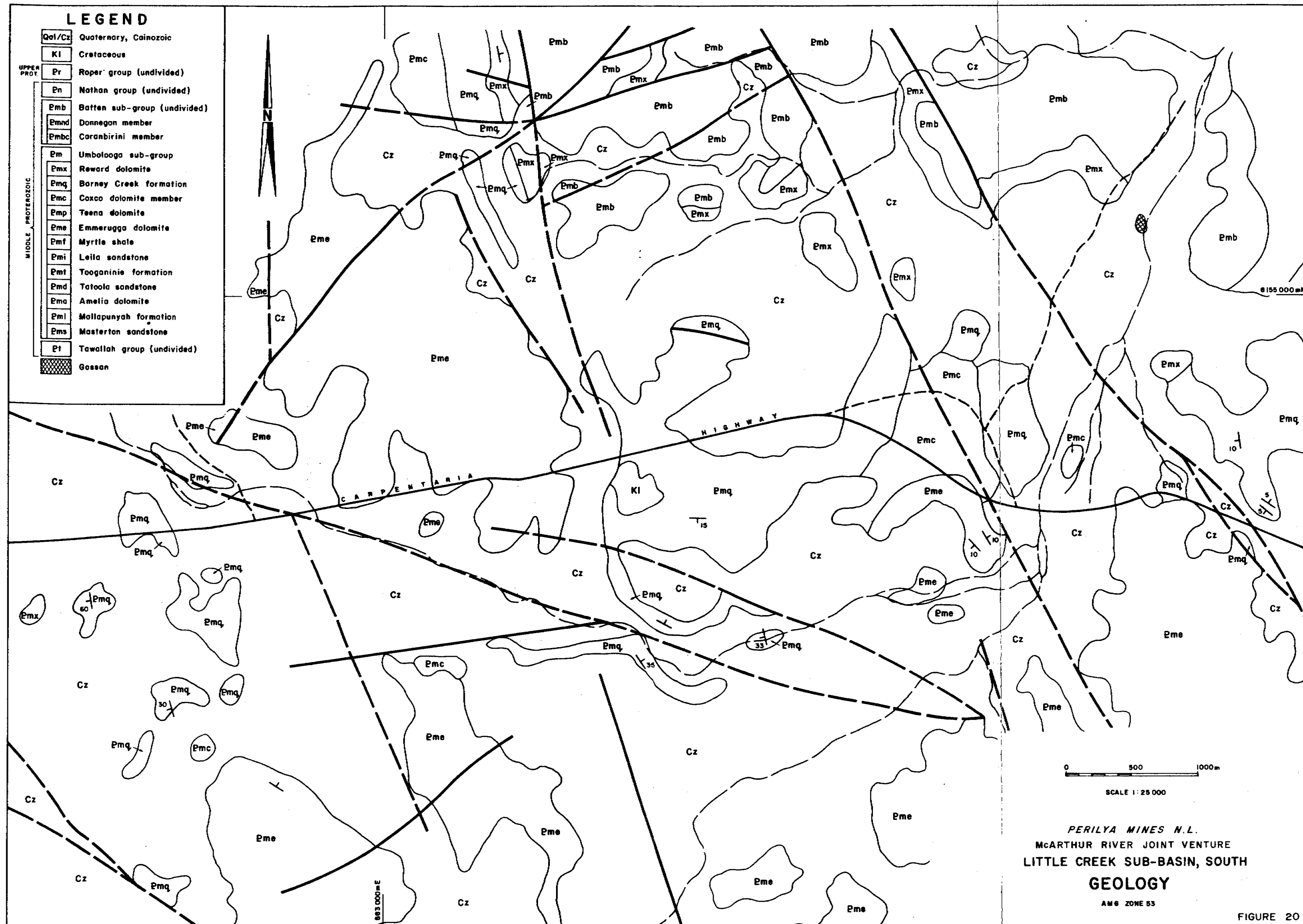
0 500 1000 m

SCALE 1:25 000
AM 6 ZONE 53

PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
LITTLE CREEK SUB-BASIN (NORTH)
GEOCHEMISTRY OVERLAY

LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
En	Nathan group (undivided)
Emb	Batten sub-group (undivided)
Emnd	Donnegon member
Embc	Caranbirini member
MIDDLE PROTEROZOIC	
Em	Umbolooga sub-group
Emx	Reward dolomite
Emq	Barney Creek formation
Emc	Coxco dolomite member
Emp	Teena dolomite
Eme	Emmerugga dolomite
Emf	Myrtle shale
Emi	Leila sandstone
Emt	Tooganinie formation
Emd	Tatoola sandstone
Emg	Amelia dolomite
Eml	Mallapunyah formation
Emh	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan



PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
LITTLE CREEK SUB-BASIN, SOUTH
GEOLOGY
AM 6 ZONE 53

LEGEND

SAMPLE NUMBER
Au RESULT IN PPB
Cu, Pb, Zn, (Ba) RESULTS IN PPM

- △ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



7951 ○ 12, 25, 8, 2
7952 ○ 10, 33, 7, 2
11, 30, 8, 2 = 7953
13, 19, 8, 2 = 7954
7955 ○ 10, 30, 5, 2
7956 ○ 11, 23, 5, 2
7957 ○ 12, 18, 6, 1
7958 ○ 13, 17, 9, 1
7959 ○ 10, 15, 7, 1
7960 ○ 8, 17, 6, 1
7961 ○ 8, 16, 4, 1
7962 ○ 10, 19, 5, 4
7963 ○ 11, 24, 9, 3
7964 ○ 10, 19, 8, 2
7965 ○ 11, 24, 7, 1
7966 ○ 10, 21, 5, 14
7967 ○ 9, 22, 6, 2
7968 ○ 11, 23, 5, 2
7969 ○ 10, 16, 5, <1
7970 ○ 11, 28, 10, <1
7971 ○ 10, 16, 7, 1
7972 ○ 17, 34, 12, <1
7973 ○ 13, 36, 4, 1
7974 ○ 10, 34, 6, <1
7975 ○ 9, 16, 6, <1
7976 ○ 9, 19, 6, <1
7977 ○ 10, 17, 7, <1
7978 ○ 13, 36, 7, <1
7979 ○ 11, 39, 9, <1
7980 ○ 13, 31, 12, <1
7981 ○ 11, 29, 10, 20
7982 ○ 12, 25, 13, 2
7983 ○ 10, 11, 7, 3
7984 ○ 12, 20, 14, <1

7777 ○ 12, 24, 10, 3
7778 ○ 16, 20, 21, 2
7779 ○ 17, 36, 14, <1
7780 ○ 5, <5, 13, 2
7781 ○ 11, 18, 14, 1
7782 ○ 9, 15, 12, <1
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7785 ○ 8, 16, 11, <1
7786 ○ 8, 18, 9, <1
7787 ○ 11, 20, 19, <1
7788 ○ 11, 17, 13, <1
7789 ○ 8, 10, 18, 1
7790 ○ 14, 20, 12, <1
7791 ○ 14, 19, 17, <1
7792 ○ 11, 17, 12, <1
7793 ○ 12, 15, 15, 1
7794 ○ 14, 30, 13, <1
7795 ○ 19, 31, 10, <1
7796 ○ 13, 30, 8, <1
7797 ○ 12, 32, 9, <1
7798 ○ 16, 41, 12, <1
7799 ○ 10, 13, 8, <1
7800 ○ 11, 10, 13, 2
7801 ○ 6, 9, 25, 2

7802 ○ 11, 13, 22, <1
7803 ○ 12, 22, 20, <1
7804 ○ 17, 30, 25, <1
7805 ○ 15, 21, 18, 8
7806 ○ 9, 13, 30, 14
7807 ○ 8, 18, 9, 10
7808 ○ 14, 16, 12, 8
7809 ○ 15, 19, 33, 5
7810 ○ 15, 19, 22, 4
7811 ○ 13, 15, 20, 3
7812 ○ 11, 13, 16, 3
7813 ○ 17, 18, 13, 3
7814 ○ 19, 23, 8, 2
7815 ○ 16, 21, 14, 2
7816 ○ 20, 41, 33, 2
7817 ○ 13, 22, 7, 3

7875 ○ 16, 18, 14, <1
7876 ○ 9, 9, 15, 2
7877 ○ 18, 22, 12, 2
7878 ○ 17, 25, 11, <1
7879 ○ 16, 25, 16, 4
7880 ○ 12, 16, 12, 1
7881 ○ 15, 20, 17, <1
7882 ○ 22, 34, 37, 2
7883 ○ 12, 12, 10, 1
7884 ○ 12, 18, 17, <1
7885 ○ 10, 14, 18, 2

9553 △
8, <5, 10, 150, <10

8000 ○ 6, 17, 12, <1
7999 ○ 12, 46, 20, <1
7998 ○ 15, 58, 16, <1
7997 ○ 13, 30, 16, <1
7996 ○ 19, 38, 20, 1
7995 ○ 18, 53, 8, <1
7994 ○ 12, 31, 7, 1
7993 ○ 11, 32, 9, <1
7992 ○ 9, 31, 6, <1
7991 ○ 11, 42, 7, <1
7990 ○ 14, 53, 8, <1
7989 ○ 12, 77, 29, 1
7988 ○ 16, 53, 28, 1
7987 ○ 11, 70, 21, 2
7986 ○ 9, 37, 11, <1
7985 ○ 9, 28, 7, 8
9251 ○ 9, 17, 8, <1
9252 ○ 14, 20, 11, 1
9253 ○ 18, 35, 10, <1
9254 ○ 13, 22, 8, <1
9255 ○ 11, 23, 9, <1
9256 ○ 12, 65, 9, <1
9257 ○ 14, 27, 9, <1
9258 ○ 12, 22, 10, <1
9259 ○ 11, 30, 10, <1
9260 ○ 14, 36, 8, 2
9261 ○ 17, 55, 22, <1
9262 ○ 11, 38, 8, 1
9263 ○ 13, 39, 6, 3
9264 ○ 12, 20, 10, 3
9265 ○ 15, 24, 16, 2
9266 ○ 13, 15, 15, 4
9267 ○ 11, 17, 8, 2
9268 ○ 15, 26, 11, 1
9269 ○ 11, 34, 13, <1
9270 ○ 19, 25, 12, 3
9271 ○ 15, 21, 9, 2
9272 ○ 13, 18, 9, 1
9273 ○ 15, 28, 12, 1
9274 ○ 12, 26, 12, 19
9275 ○ 15, 36, 10, 3
9276 ○ 13, 27, 18, 3
9277 ○ 14, 31, 13, 2
9278 ○ 15, 24, 9, 1
9279 ○ 12, 15, 15, 2
9280 ○ 41, 23, 19, 2

8513 ○ 8, 11, 9, 1
8601 ○ 4, 10, 10, 2
8602 ○ 12, 28, 7, <1
8603 ○ 14, 24, 10, 1
8604 ○ 17, 32, 11, <1
8605 ○ 16, 37, 14, <1
8606 ○ 13, 38, 11, <1
8607 ○ 14, 33, 7, <1
8608 ○ 13, 38, 12, <1
8609 ○ 11, 24, 7, <1
8610 ○ 9, 14, 4, 2
8611 ○ 8, 19, 4, 2
8612 ○ 13, 28, 8, <1
8613 ○ 14, 43, 7, <1
8614 ○ 11, 23, 4, <1
8615 ○ 10, 27, 6, <1
8616 ○ 12, 33, 6, <1
8617 ○ 14, 38, 8, 1
8618 ○ 19, 34, 9, 2
8619 ○ 11, 31, 7, 2
8620 ○ 17, 24, 11, <1
8621 ○ 16, 21, 8, <1
8622 ○ 15, 36, 10, <1
8623 ○ 12, 27, 8, <1
8624 ○ 15, 27, 14, <1
8625 ○ 11, 17, 15, <1
8626 ○ 10, 18, 7, 1
8627 ○ 9, 13, 7, <1
8628 ○ 7, 18, 3, 5
8629 ○ 8, 18, 13, 1
8630 ○ 10, 24, 10, 1
8631 ○ 17, 26, 12, 2
8632 ○ 12, 17, 19, 1
8633 ○ 11, 23, 17, <1
8634 ○ 11, 17, 20, <1
8635 ○ 11, 34, 16, <1
8636 ○ 17, 74, 34, <1
8637 ○ 15, 32, 15, 7
8638 ○ 15, 27, 16, 2
8639 ○ 11, 21, 11, 2
8640 ○ 12, 25, 67, 2
8641 ○ 12, 15, 21, 2
8642 ○ 11, 14, 17, 2

8210 □ 17, 20, 39, <1

8211 □ 16, 15, 27, 3

8517 □ 12, 11, 19, 1

8208 □ 19, 29, 37, 2

8516 □ 10, 12, 9, 1

8209 □ 11, 28, 24, 1

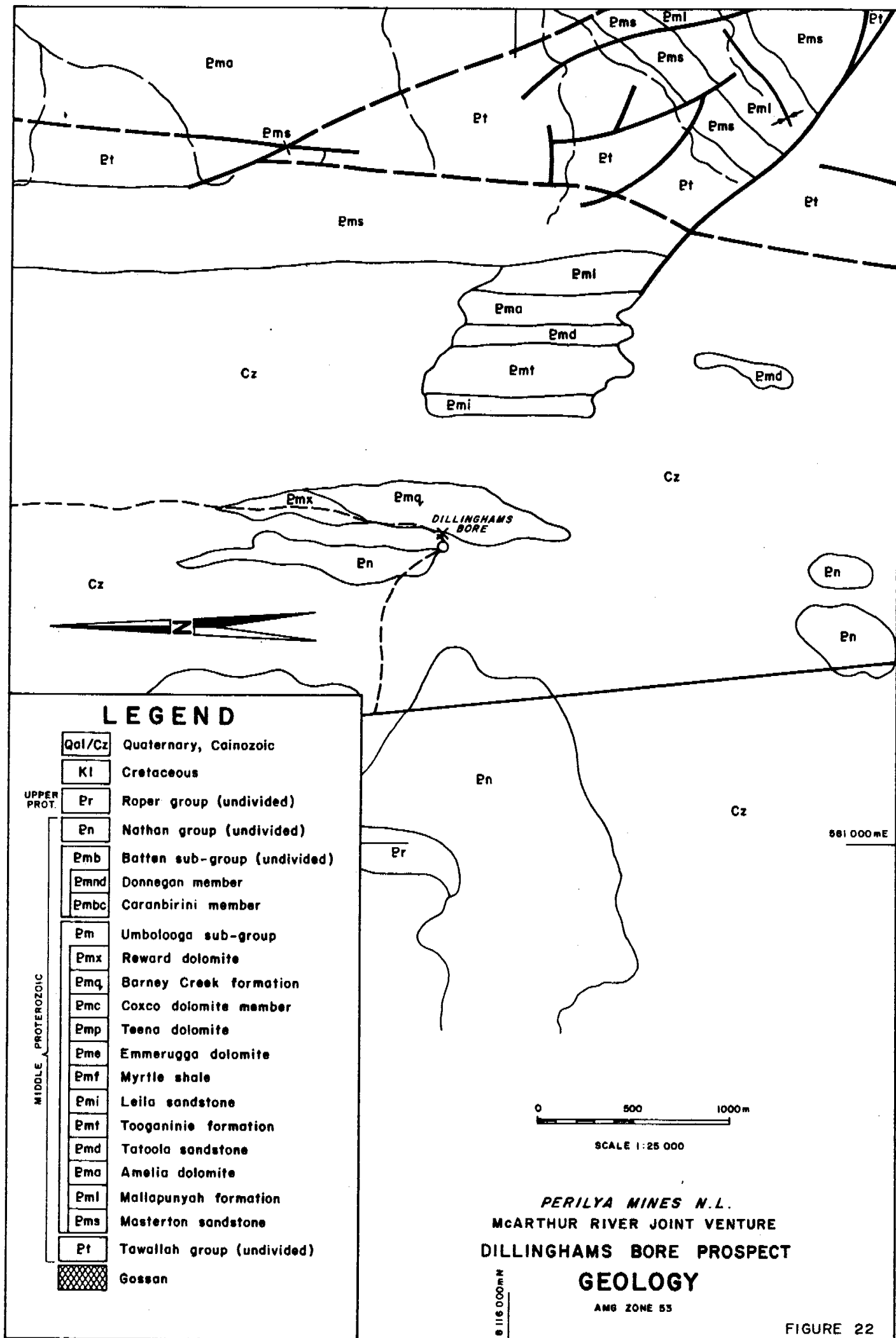
8203 □ 4, 22, 34, 8
9552 △
50, 16, 150, 5000, <10

9551 △
9, <5, 15, 490, <10
8514
6, 10, 12, 1
8202
8, 22, 32, <1
8201
9, 21, 31, <1

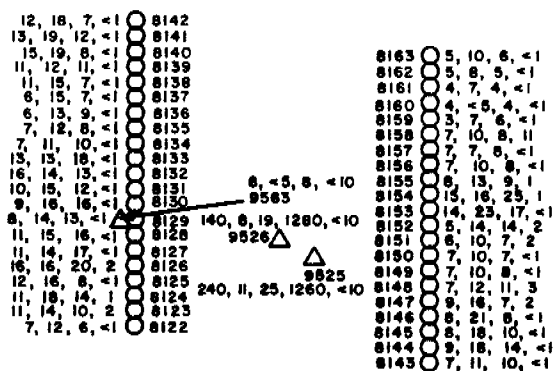
0 500 1000m

SCALE 1:25 000
AMG ZONE 53

PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
LITTLE CREEK SUB-BASIN, SOUTH
GEOCHEMISTRY OVERLAY



8 116 000m



LEGEND

SAMPLE
NUMBER

Au RESULT
IN PPB

9655 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba)
RESULTS IN PPM

Δ ROCK CHIP SAMPLE

□ STREAM SEDIMENT SAMPLE

○ SOIL SAMPLE

0 500 1000m

SCALE 1:25 000

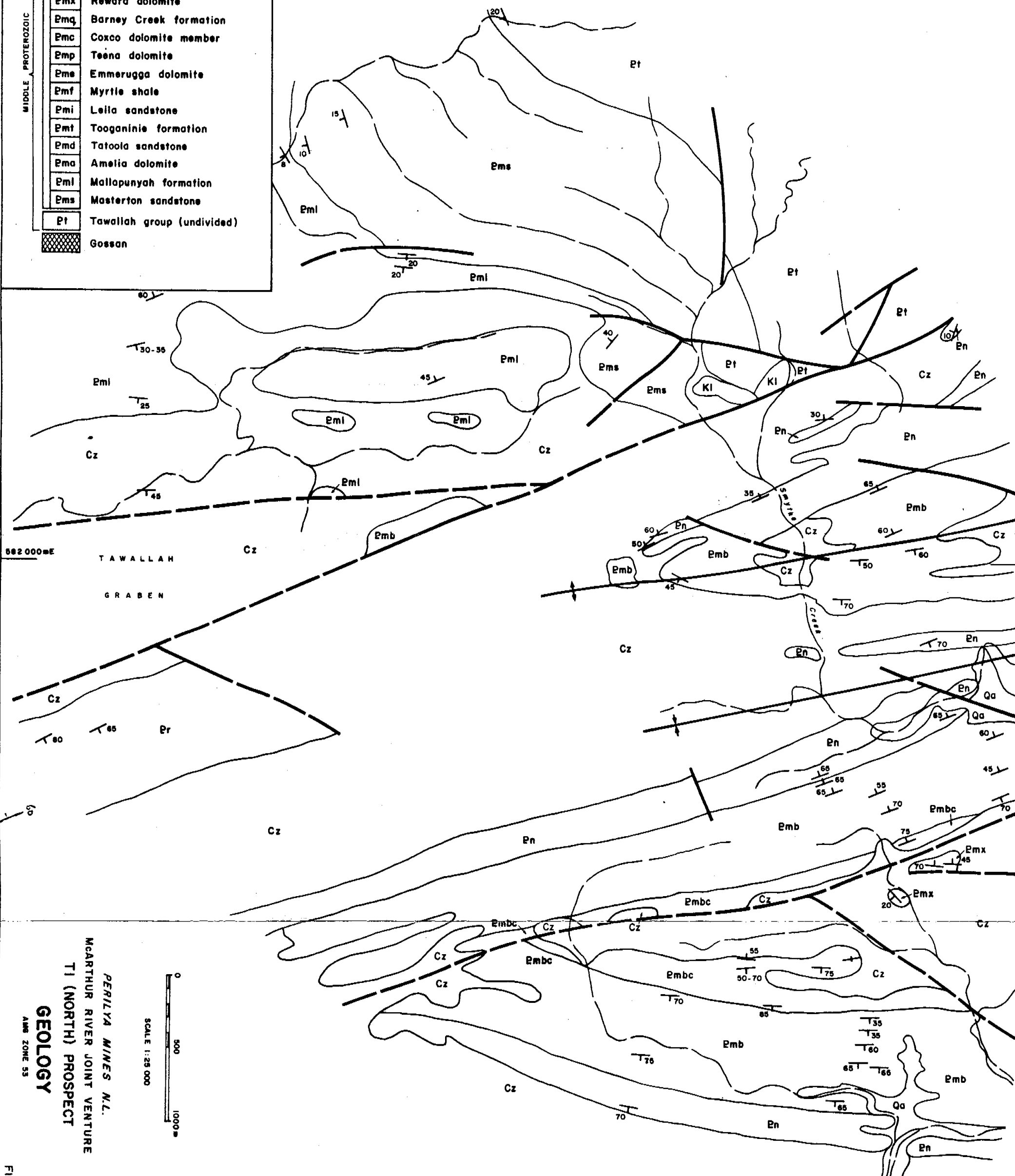
ANG ZONE 53

PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
DILLINGHAMS BORE PROSPECT
GEOCHEMISTRY OVERLAY

LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
En	Nathan group (undivided)
Emb	Batten sub-group (undivided)
Emnd	Donnegan member
Embc	Caranbirini member
MIDDLE PROTEROZOIC	
Pm	Umboloogo sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Lelia sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	

1:207 000 N.M.



SCALE 1:25 000
0 500 1000 M

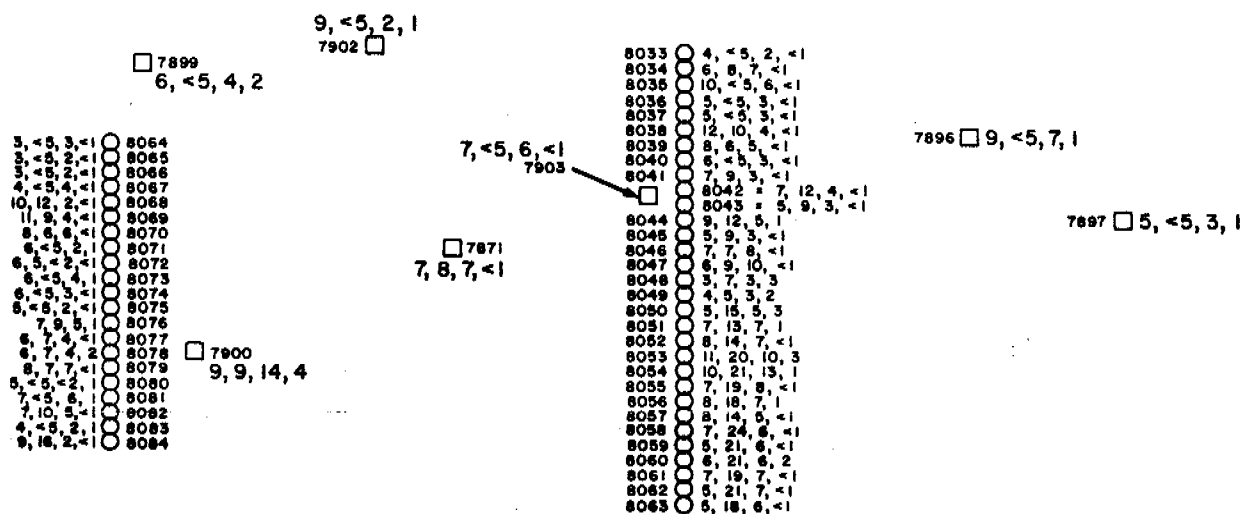
PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
T1 (NORTH) PROSPECT
AMZ ZONE 55
GEOLOGY

LEGEND

SAMPLE NUMBER
 Au RESULT IN PPB
 700, 17, 24, 125, <10
 Cu, Pb, Zn, (Ba) RESULTS IN PPM

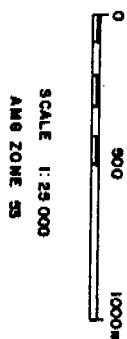
- △ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE

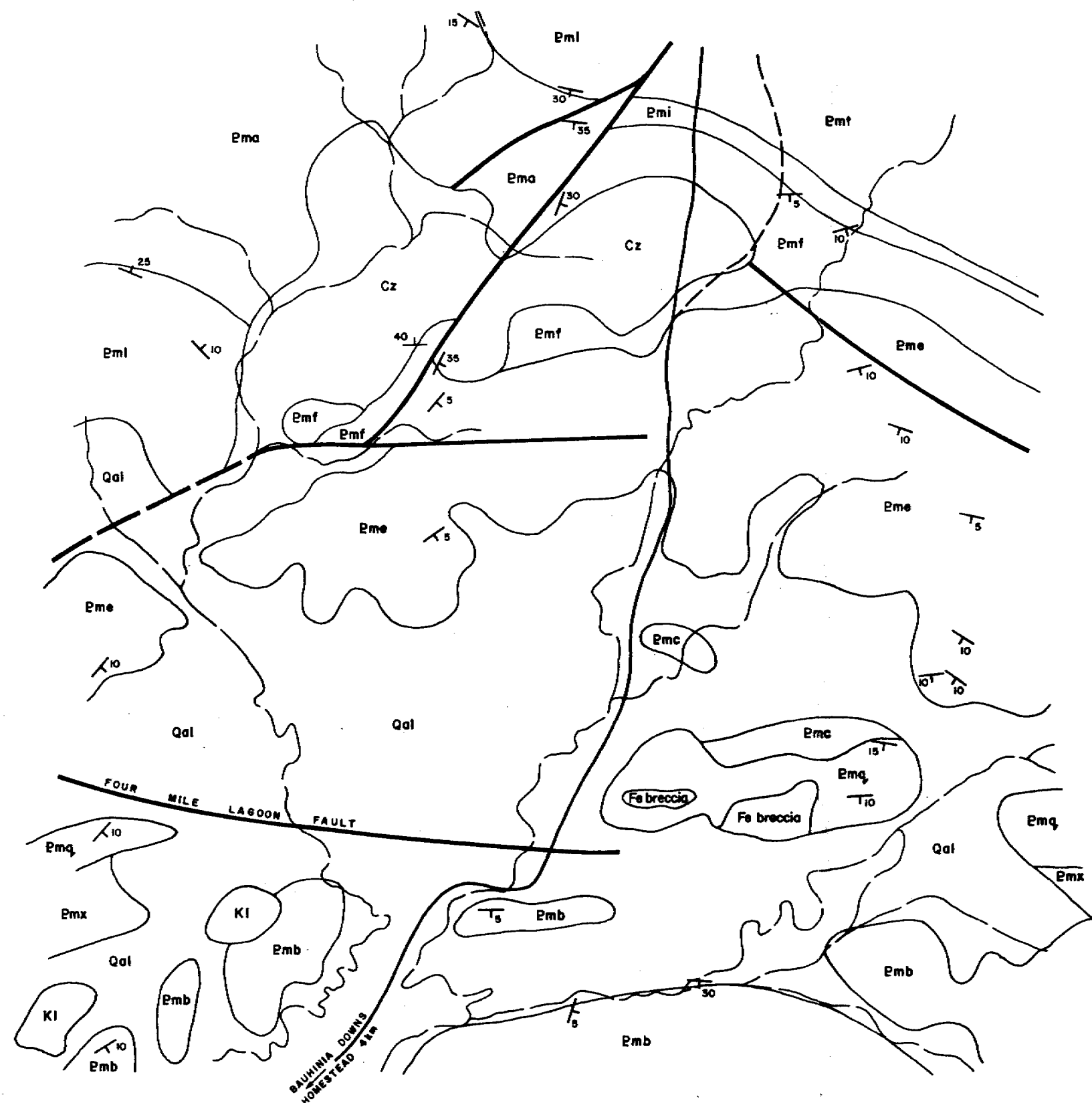
8 207 000 mN



582 000 mE

PERILYA MINES N.L.
 MCARTHUR RIVER JOINT VENTURE
 T1 (NORTH) PROSPECT
 GEOCHEMISTRY OVERLAY





LEGEND

Qal/Cz	Quaternary, Cainozoic
K1	Cretaceous
UPPER PROT. Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Emb	Batten sub-group (undivided)
Emnd	Donnegan member
Embc	Coranbirini member
Em	Umbalooga sub-group
Emx	Reward dolomite
Emq	Barney Creek formation
Emc	Coxco dolomite member
Emp	Teena dolomite
Eme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Leila sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan



0 500 1000m
SCALE 1:25 000

PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
FOUR MILE LAGOON PROSPECT
GEOLOGY
AMG ZONE 53

LEGEND

SAMPLE NUMBER
 Au RESULT IN PPB
 9555 Δ 700, 17, 24, 125, <10
 Cu, Pb, Zn, (Ba)
 RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE

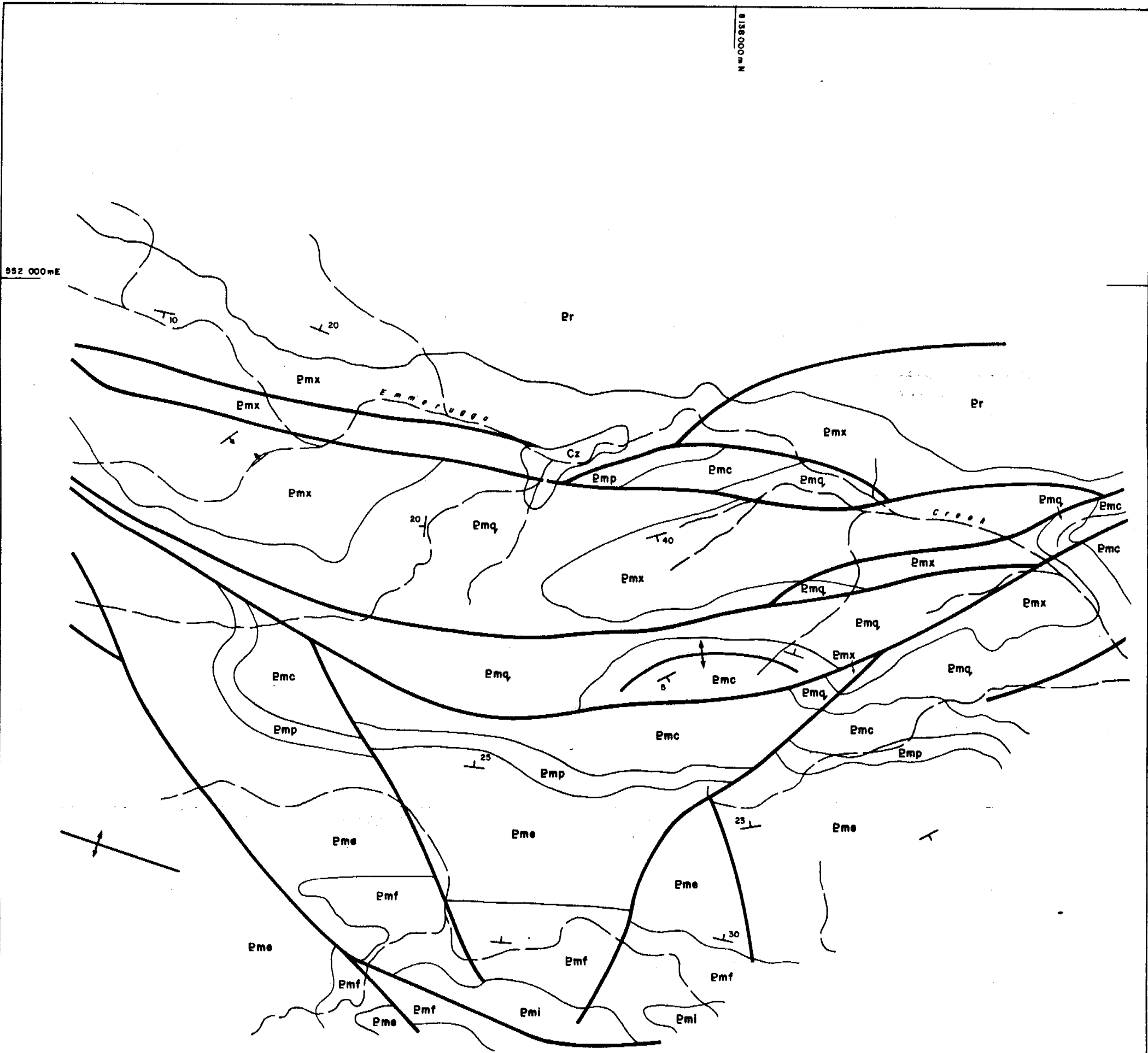
12, 18, 12, <1 = 8576
 32, 235, 72, 3 = 8577
 78, 91, 86, 2 = 8578
 20, 91, 26, 2 = 8579
 105, 62, 35, <1 = 8580
 81, 30, 42, <1 = 8581
 13, 9, 20, <1 = 8582
 21, 34, 25, 1 = 8583
 22, 17, 25, <1 = 8584
 34, 28, 26, 1 = 8585
 15, 47, 80, 670, <10
 9531
 13, 14, 245, 410, 30
 9529
 11, 11, 200, 410, <10
 9528
 14, 28, 93, 115, <10
 9530
 74, 45, 58, 2800, <10
 9582



0 500 1000m

SCALE 1:25000
 AMG ZONE 53

PERILYA MINES N.L.
 McARTHUR RIVER JOINT VENTURE
 FOUR MILE LAGOON PROSPECT
 GEOCHEMISTRY OVERLAY



LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT. Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Pmbd	Donnegan member
Pmbc	Caranbirini member
MIDDLE PROT. Pm	Umbolooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Lelia sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
G	Gossan

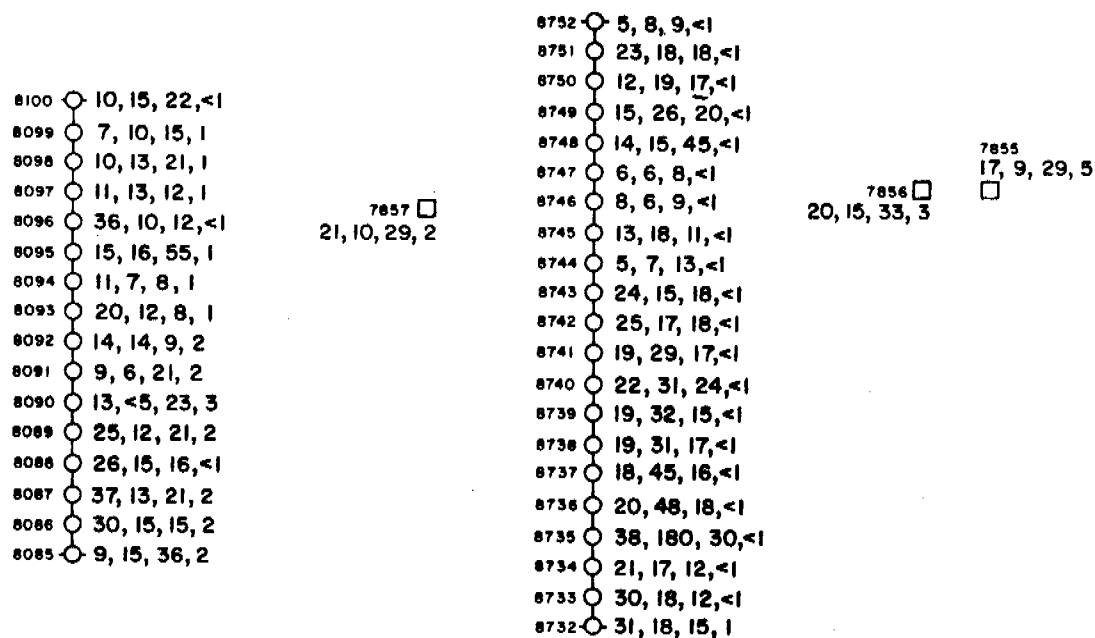
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SCALE 1:25 000



PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
TOOGANINIE SOUTH
GEOLOGY
ANG ZONE 55

8 136 000 m N

552 000 m E



LEGEND

SAMPLE NUMBER
↓
9855 Δ 700, 17, 24, 125, <10
↑ ↑ ↑ ↑
Cu, Pb, Zn, (Ba)
RESULTS IN PPM

Au RESULT IN PPB
↓
<10

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



SCALE 1:25000
MAG ZONE 85



PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
TOOGANINIE SOUTH
GEOCHEMISTRY OVERLAY

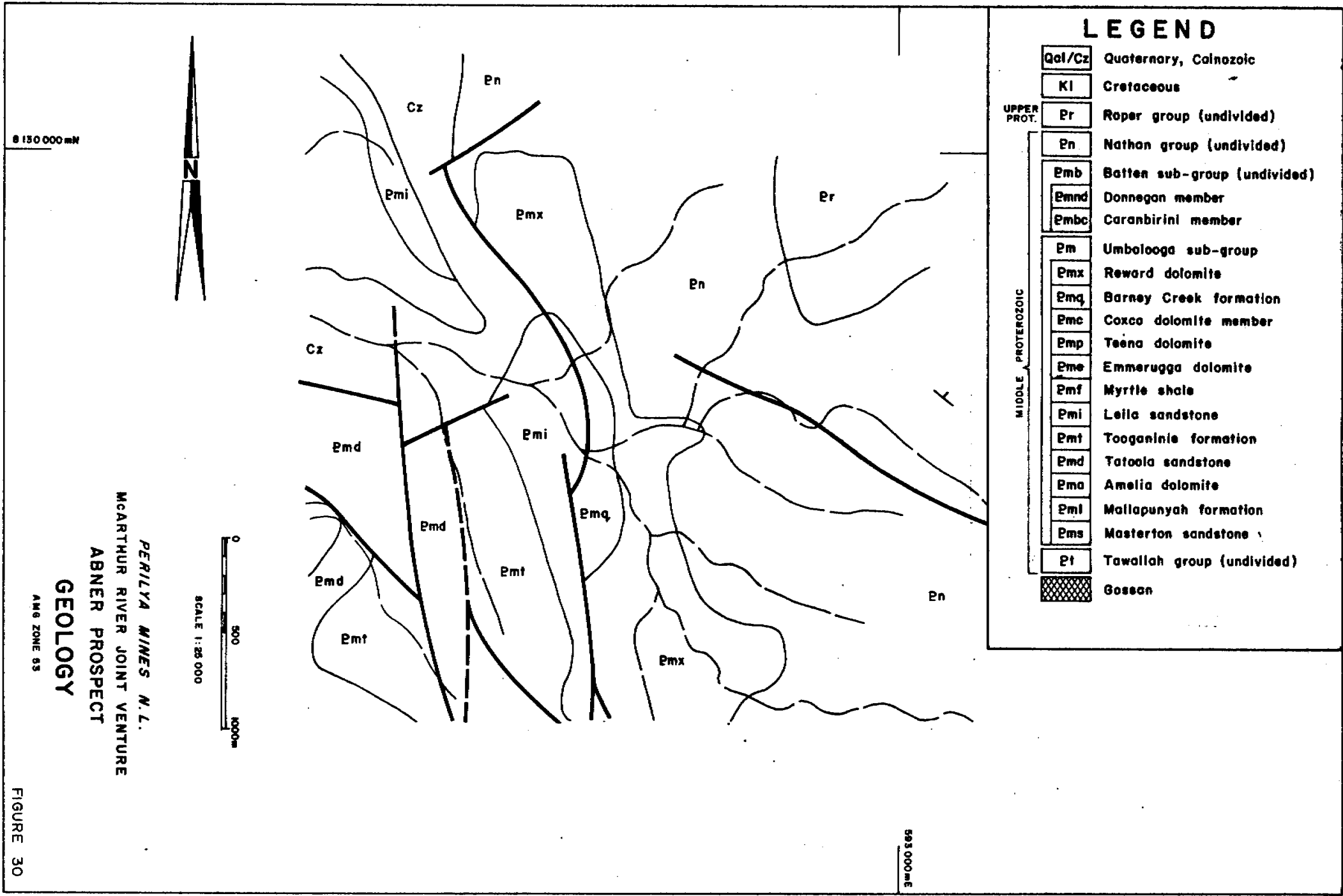


FIGURE 30

LEGEND

SAMPLE
NUMBER

Au RESULT
IN PPB

9655 Δ 700, 17, 24, 125, <10
Cu, Pb, Zn, (Ba)
RESULTS IN PPM

Δ ROCK CHIP SAMPLE

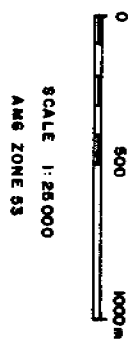
□ STREAM SEDIMENT SAMPLE

○ SOIL SAMPLE

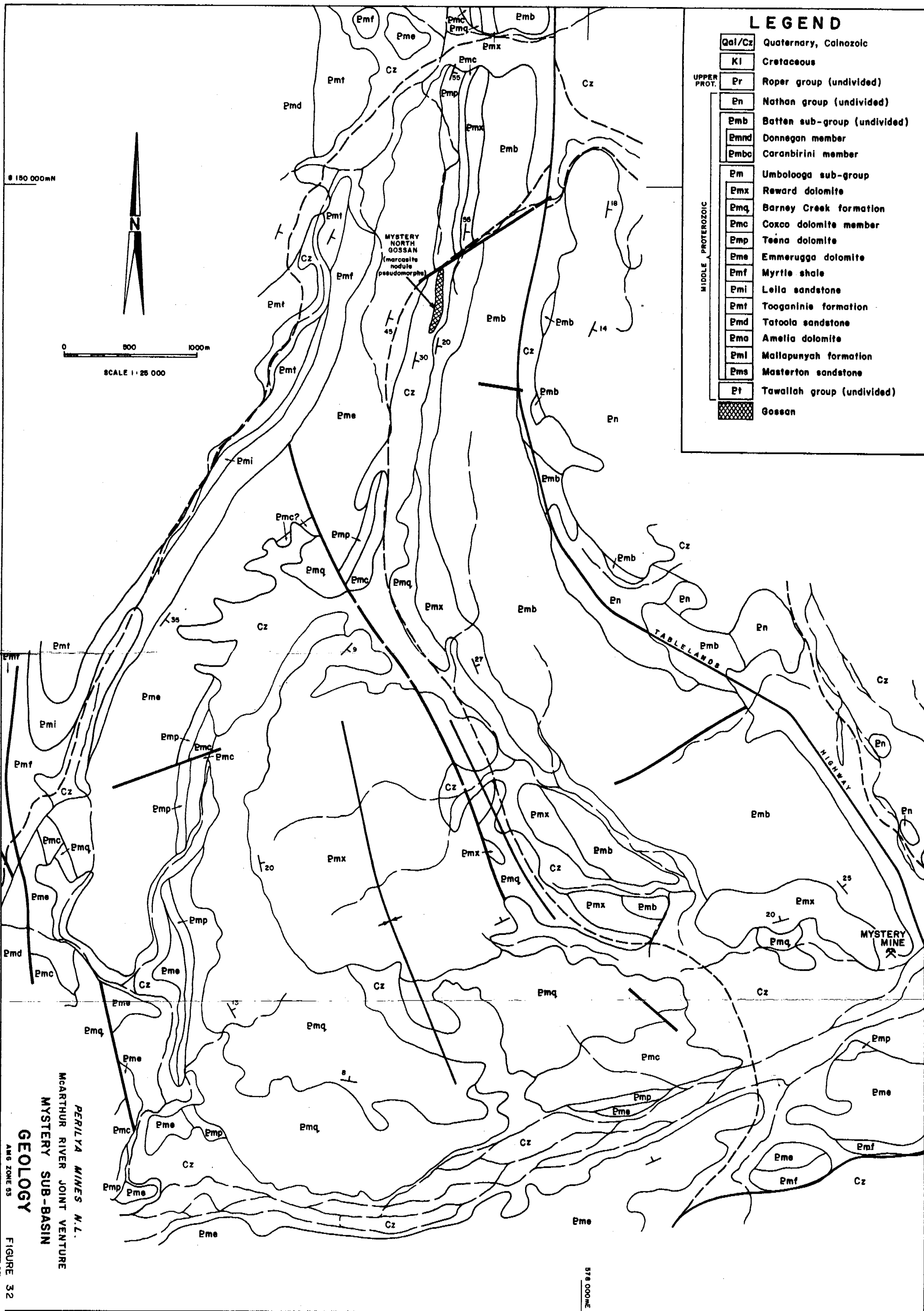
9656 Δ 2200, 22, 830, 590, <1

593 000 ME

8 130 000 MN



PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
ABNER PROSPECT
GEOCHEMISTRY OVERLAY



LEGEND

SAMPLE NUMBER Au RESULT IN PPB

9855 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba) RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE

8 150 000 MM



9504 Δ <2, <5, 15, 230, <1

7772 □ 2, 7, 14, <1
 9708 Δ 7, 6, 98, 3600, <10
 9519 Δ 13, <5, 77, 6100, <10
 9520 Δ 3, <5, 54, 240, <10
 9521 Δ 3, <5, 52, 145, <10
 9522 Δ 3, <5, 24, 520, <10

0 500 1000m

SCALE 1:25 000
 AMG ZONE 53

7773 □ 6, 10, 13, 3

7774 □ 7, <5, 17, <1

7775 □ <2, <5, 11, <1

7769 □ 11, 10, 11, <1

7770 □ 39, 10, 10, <1

6, <5, 62, 820, <10
 9503 Δ

ΔΔ
 9501 = 8, <5, 18, 80, <10
 9502 = 7, <5, 15, 75, <10

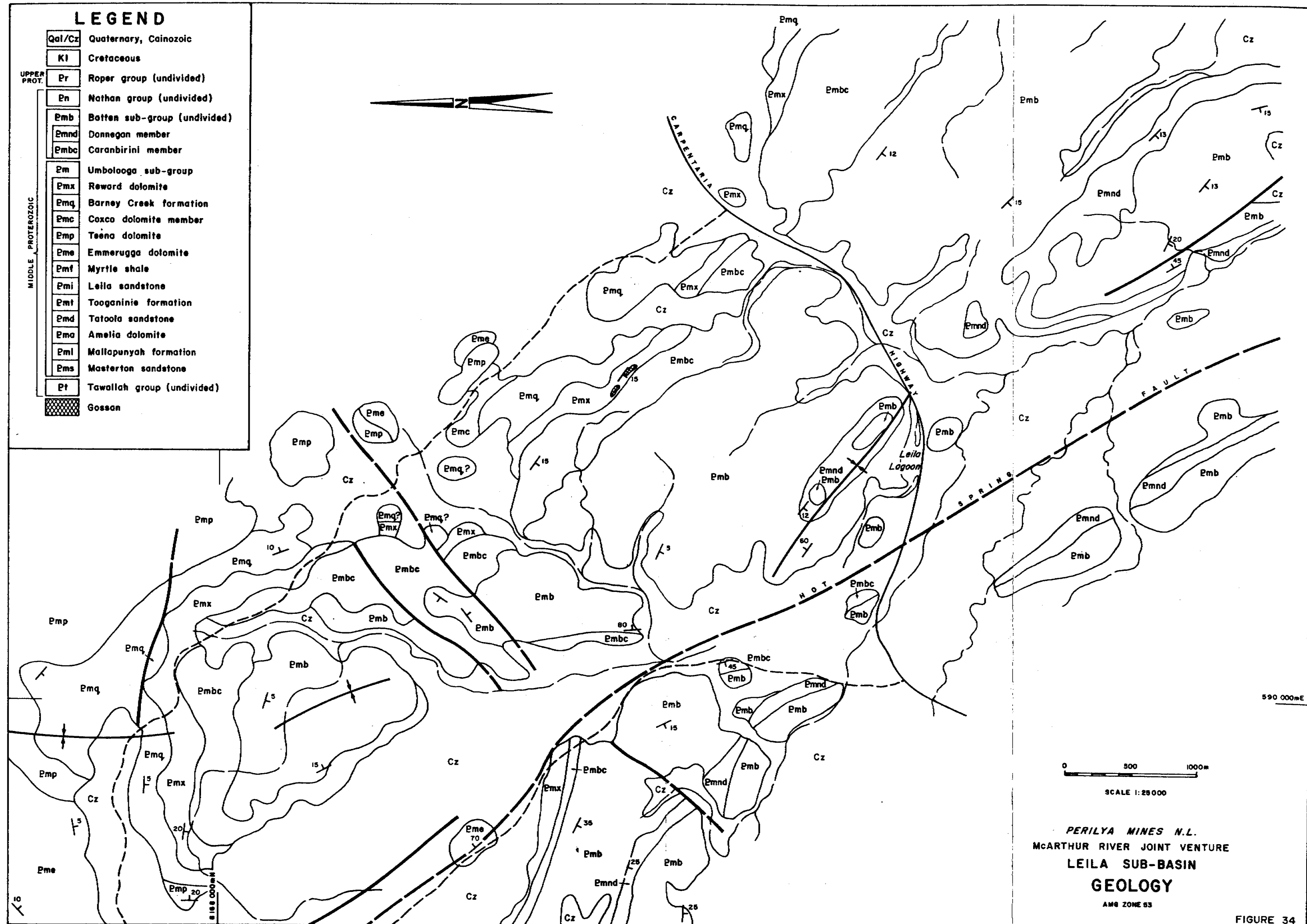
7776 □ 14, 16, 33, <1

7771 □ 18, 20, 52, <1

876 000 ME

LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
En	Nathan group (undivided)
Emb	Botten sub-group (undivided)
Emnd	Donnegan member
Embc	Caranbirini member
MIDDLE PROTEROZOIC	
Em	Umbolooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Leila sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	



0 500 1000m
SCALE 1:25000

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
LEILA SUB-BASIN
GEOLOGY
AMG ZONE 83

LEGEND

SAMPLE
NUMBER

Au RESULT
IN PPB

9655 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba)
RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



9706 Δ 25, 7, 26, 510, <10
9703 Δ 175, 580, 115, 145, <10
9705 Δ 155, 12, 72, 640, <10

7757 □ 11, 17, 10, <1

7755 □ 15, 13, 6, <1
7756 □ 13, 12, 8, <1

8771 ○ 11, 10, 6, <1
8770 ○ 7, 8, 5, <1
8769 ○ 7, 6, 3, <1
8768 ○ 9, 10, 3, <1
8767 ○ 7, 9, 3, <1
8766 ○ 14, 15, 8, <1
8765 ○ 9, 11, 7, <1
8764 ○ 9, 12, 6, <1
8763 ○ 10, 11, 7, <1
8762 ○ 11, 17, 9, <1
8761 ○ 7, 6, 5, <1
8760 ○ 6, <5, 5, <1
8759 ○ 8, <5, 4, <1
8758 ○ 8, 7, 3, <1
8757 ○ 7, 6, 4, <1
8756 ○ 11, 12, 5, <1
8755 ○ 11, 17, 7, <1
8754 ○ 8, 6, 8, <1
8753 ○ 8, 7, 12, <1

7762 □ 11, 12, 7, <1

7760 □ 14, 32, 6, <1

7761 □ 17, 19, 22, <1

9707 Δ 49, 205, 77, 490, <10

8 148 000 mN

7765 □ 7, 8, 10, <1

7763 □ 12, 17, 9, <1

7764 □ 7, 8, 8, <1

7766 □ <2, 10, 14, <1

7767 □ 6, 10, 17, <1

7754 □ 10, 18, 7, <1

7768 □ <2, <5, 5, <1

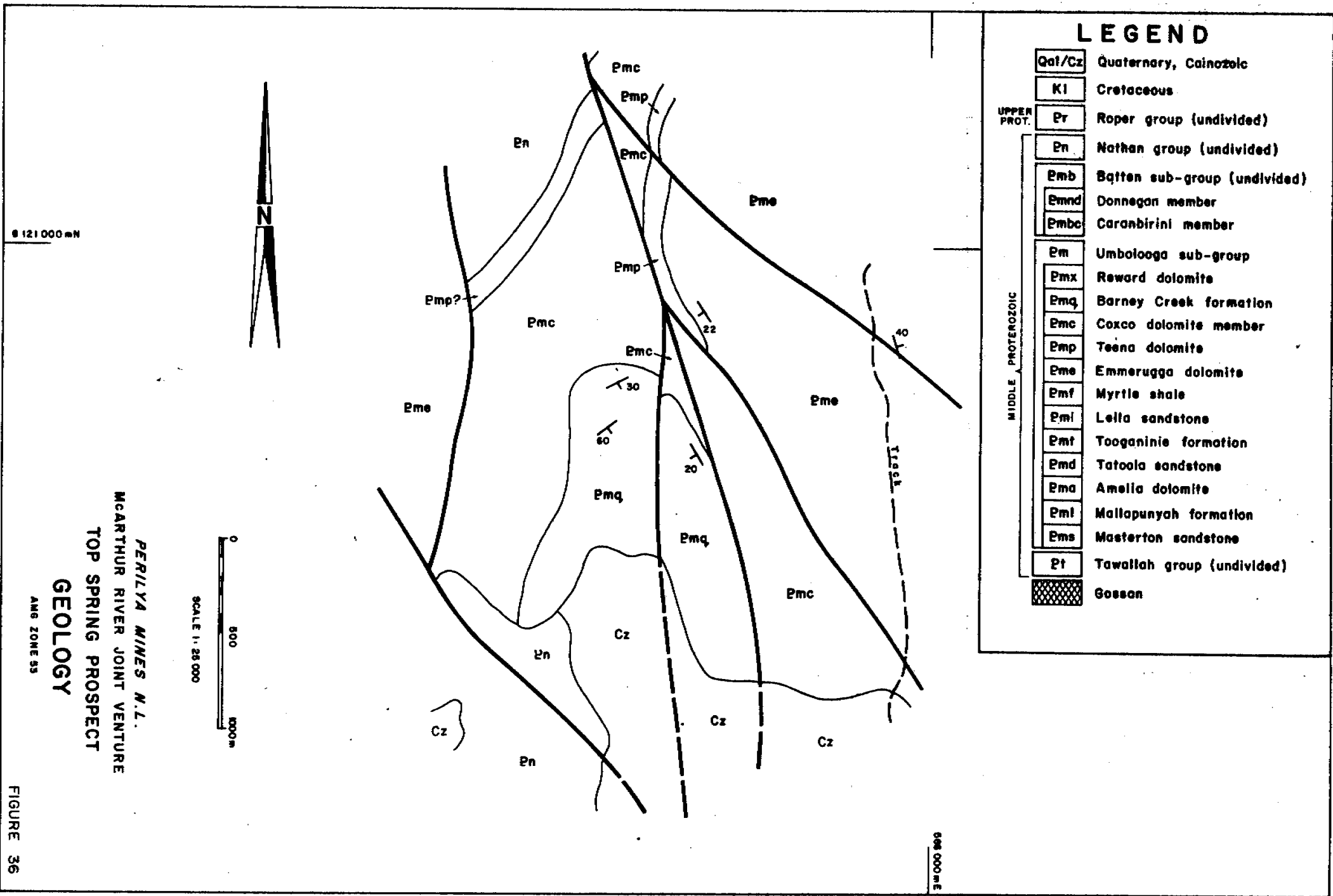
7753 □ 17, 16, 29, <1

590 000 mE

0 500 1000 m

SCALE 1:25 000
AM9 ZONE 53

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
LEILA SUB-BASIN
GEOCHEMISTRY OVERLAY



LEGEND

Qat/Cz	Quaternary, Cainozoic
KI	Cretaceous
UPPER PROT.	
Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Emnd	Donnegan member
Pmbc	Caranbirini member
MIDDLE PROTEROZOIC	
Pm	Umbolooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Lella sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
Gossan	Gossan

LEGEND

SAMPLE
NUMBER

Au RESULT
IN PPB

9655 Δ 700, 17, 24, 125, <10

Cu, Pb, Zn, (Ba)
RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE

9660 Δ 48, 5, 24, 520, <1



8121000 mN

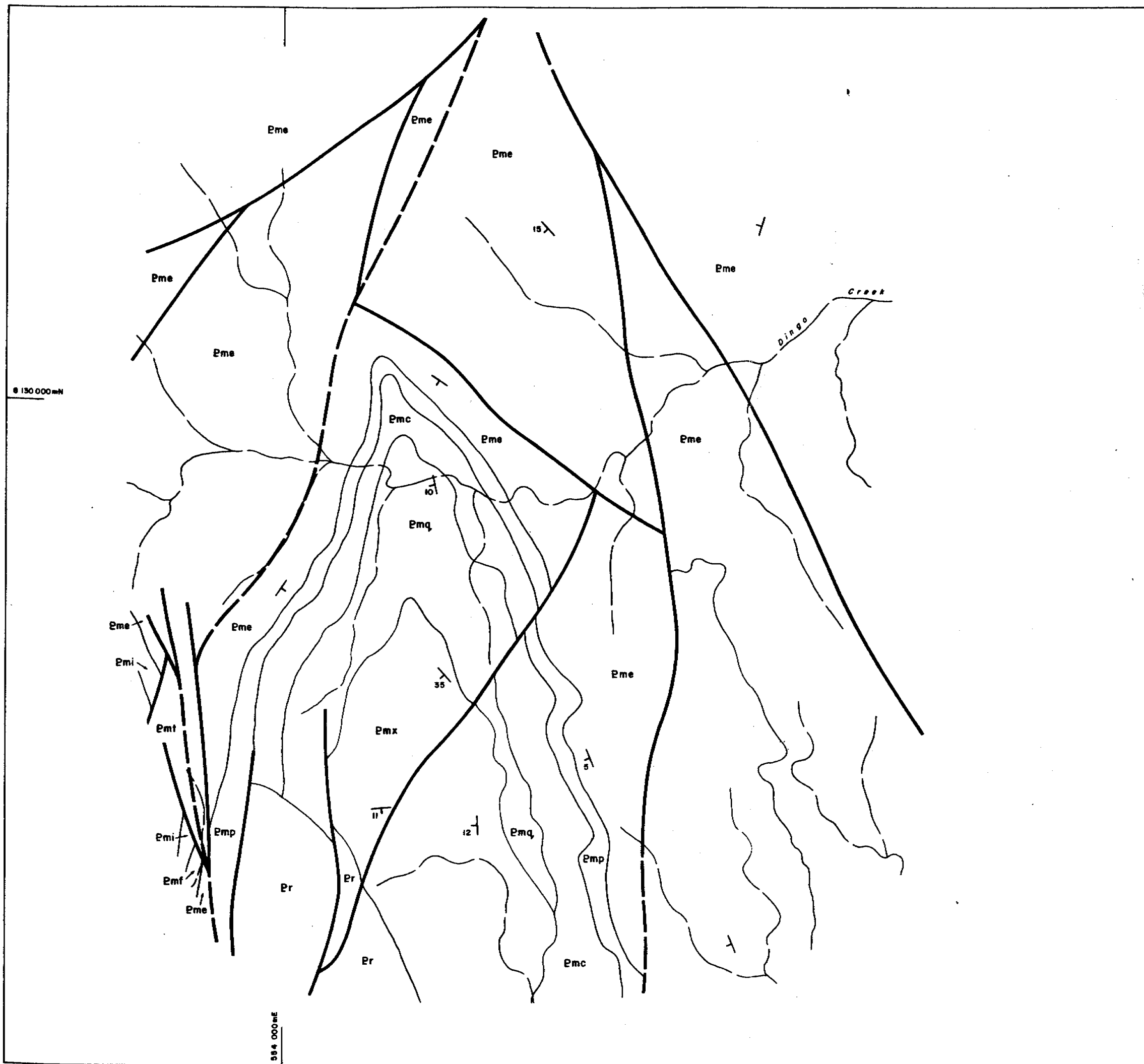


SCALE 1:25 000
ANG ZONE 55

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
TOP SPRING PROSPECT
GEOCHEMISTRY OVERLAY

556 000mE

FIGURE 37



LEGEND

Qal/Cz	Quaternary, Cainozoic
Kl	Cretaceous
UPPER PROT. Pr	Roper group (undivided)
Pn	Nathan group (undivided)
Pmb	Batten sub-group (undivided)
Pmnd	Donnegan member
Pmnc	Coranbirini member
Pm	Umbolooga sub-group
Pmx	Reward dolomite
Pmq	Barney Creek formation
Pmc	Coxco dolomite member
Pmp	Teena dolomite
Pme	Emmerugga dolomite
Pmf	Myrtle shale
Pmi	Lella sandstone
Pmt	Tooganinie formation
Pmd	Tatoola sandstone
Pma	Amelia dolomite
Pml	Mallapunyah formation
Pms	Masterton sandstone
Pt	Tawallah group (undivided)
G	Gossan

0 500 1000m

SCALE 1:25 000

PERILYA MINES N.L.
McARTHUR RIVER JOINT VENTURE
DINGO CREEK
GEOLOGY

AMG ZONE 53

FIGURE 38

LEGEND

SAMPLE NUMBER	Au RESULT IN PPB
9655 Δ	700, 17, 24, 125, <10
	Cu, Pb, Zn, (Ba) RESULTS IN PPM

- Δ ROCK CHIP SAMPLE
- STREAM SEDIMENT SAMPLE
- SOIL SAMPLE



6 130 000 mN

7860 □ 13, 6, 6, <1

9689 Δ 67, 240, 305, 280, <10

7859 □ 16, 9, 7, 1

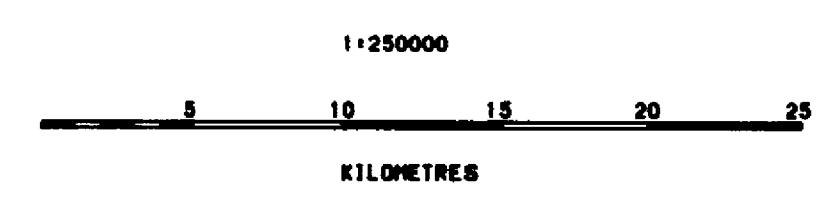
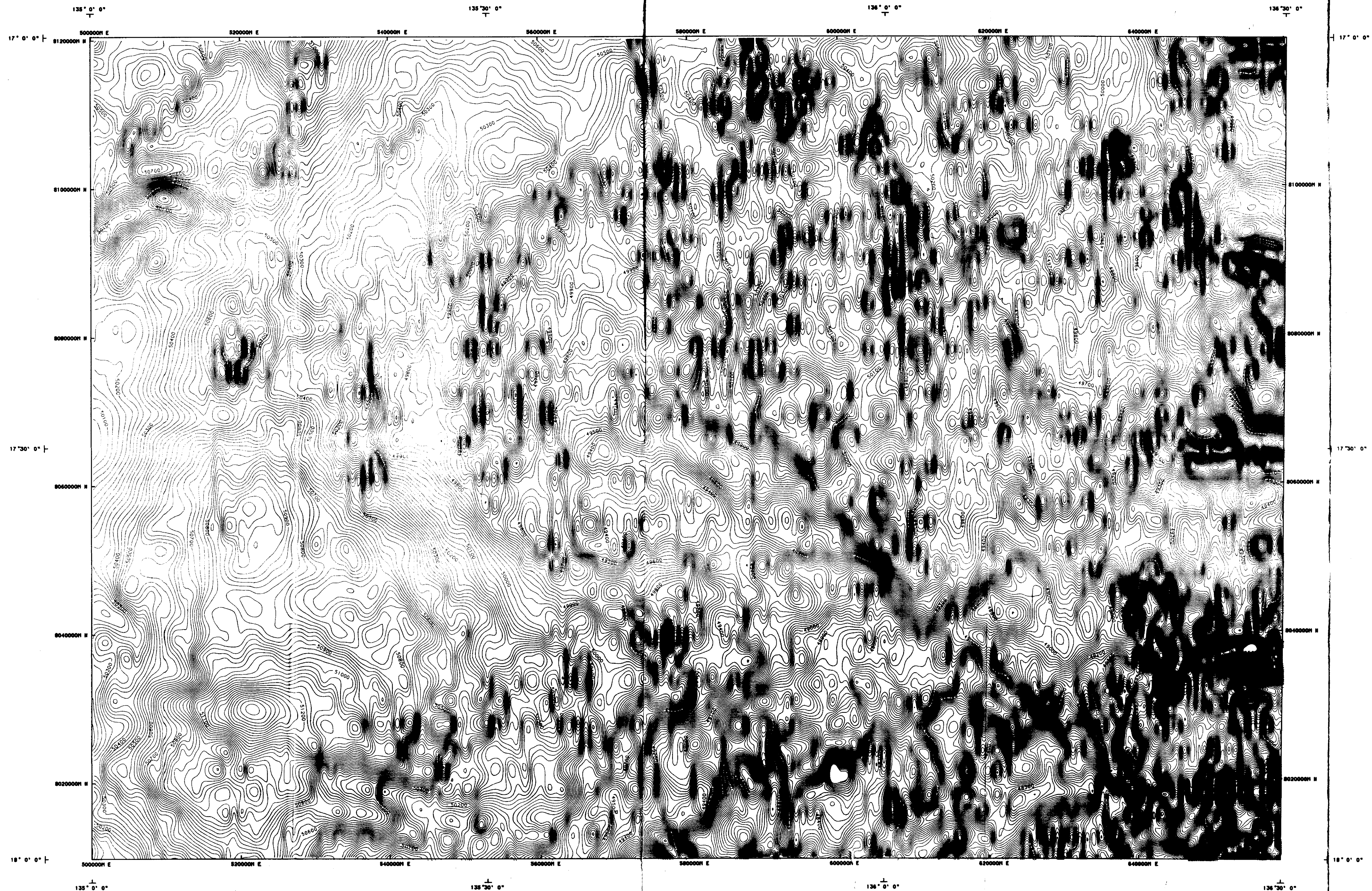
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SCALE 1:25 000
AMG ZONE 53

PERILYA MINES N.L.
MCARTHUR RIVER JOINT VENTURE
DINGO CREEK
GEOCHEMISTRY OVERLAY

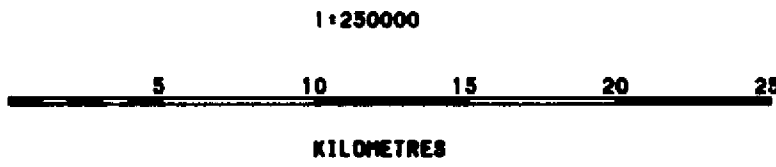
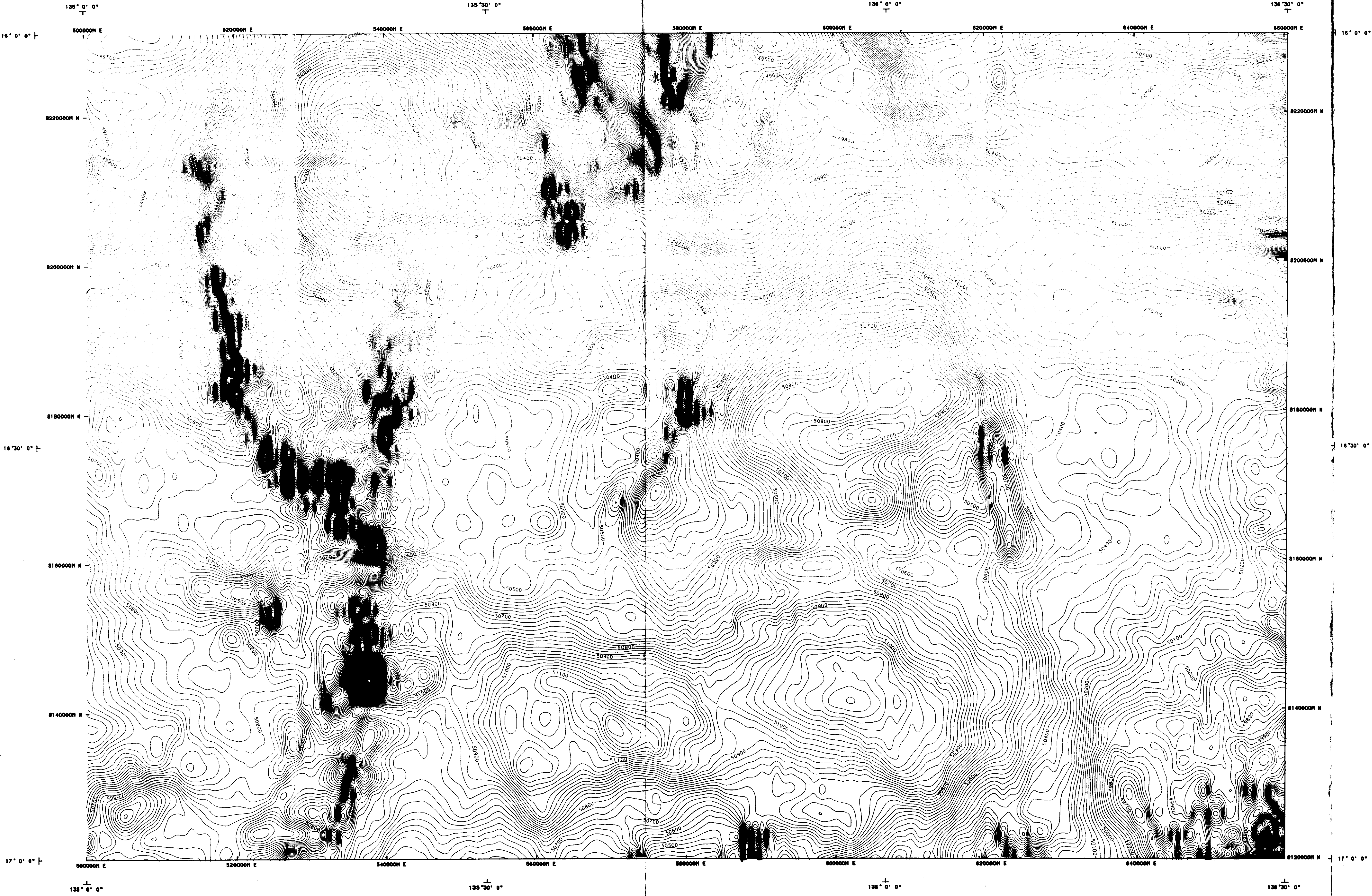
554 000 mE

WALLHALLOW



GSA Consultants	
TOTAL MAGNETIC INTENSITY	
Contour interval of 25 gamma	
Processed by:	
Technical Computer Systems Pty. Ltd.	
Craigh, S.A.	
GEOL:	REPORT NO.
DATE:	PLAN NO.

BAUHINIA DOWNS



GSA Consultants			
TOTAL MAGNETIC INTENSITY			
Contour interval of 25 gammae			
Processed by:			
Technical Computer Systems Pty. Ltd.			
Crafer, S.A.			
REOL:		REPORT NO.	
DRAWN:	DATE:	PLAN NO.	