

000

80-1482.

Prospect 603

044001

CSR LIMITED - MINERALS DIVISION
EXPLORATION GROUP

PROGRESS REPORT ON EXPLORATION
OF E.L. 11/78,
GEORGES RIVER PROSPECT
ST. HELENS DISTRICT, TASMANIA

EMR 69/80

OPEN FILE
MICROFILMED

REG.	CG	CC&M	D.S.M.E.
			Registrar
- 6 NOV 1980			E&I
ANSWERED			
DEPT. OF MINES			
REF. No.			

SYDNEY
~~August~~, 1980.

September

R.E. WILLIAMS

CONTENTS

	<u>PAGE NO.</u>
1. INTRODUCTION	1
2. SUMMARY AND RECOMMENDATIONS	2
2.1 Thureau's Lead	2
2.2 Mt. Pierson Granite	2
2.3 Mathinna Beds	4
2.4 Sundry	5
3. LOCATION AND ACCESS	6
4. PREVIOUS EXPLORATION	7
5. GEOLOGY	8
6. EXPLORATION CONCEPTS	9
6.1 Alluvial Cassiterite	9
6.2 Eluvial Cassiterite	9
6.3 Primary Cassiterite	9
6.4 Tungsten and Molybdenum	9
6.5 Copper, Silver, Lead and Zinc	10
6.6 Silver and Gold	10
7. EXPLORATION PROPOSED FOR 1979-80	11
7.1 Thureau's Lead	11
7.2 Johnson's Hill	11
7.3 Mt. Pierson Granite	11
7.4 Mathinna Beds	11
8. EXPLORATION COMPLETED 1979-80 FIELD SEASON	12
8.1 Thureau's Lead	12
8.2 Johnson's Hill	12
8.3 Mt. Pierson Granite	12
8.4 Mathinna Beds	13
8.5 Sundry	13
9. PROCEDURES	14

CONTENTS (Continued)PAGE NO.

10.	RESULTS OF EXPLORATION PROGRAMMES 1979/80	15
	10.1 Thureau's Lead	15
	10.2 Mt. Pierson Granite	16
	10.3 Mathinna Beds	20
	10.4 Sundry	21
11.	CONCLUSIONS	22
12.	PROPOSED WORK PROGRAMME - 1980/81	23
13.	REFERENCES	25

APPENDICES

- I DEPT. OF MINES, TASMANIA, TECHNICAL REPORT NO. 12.
GEOLOGICAL INVESTIGATION AND RESULTS OF DRILLING
FOR TIN ADJACENT TO GEORGES RIVER (D.J. JENNINGS,
1968). pp 19-24.
- II SAMPLE DATA SHEETS : SOIL, STREAM SEDIMENT AND ROCK
SAMPLING 1979-80.
- III SAMPLE DATA SHEETS : GEOPHOTO STREAM SEDIMENT
SAMPLING PROGRAMME.

LIST OF ILLUSTRATIONS

<u>FIGURES</u>		<u>FACING PAGE NO.</u>
1	LOCATION MAP, E.L. 11/78, GEORGES RIVER, TASMANIA	6
2	CLIO HILL GREISEN ZONE	17
3	FERNTREE HILL AREA : SOIL SAMPLE RESULTS	20
4	FERNTREE HILL AREA, ROCK SAMPLE LOCATIONS AND ASSAYS	21
 <u>TABLES</u>		
1	CALCULATED CONCENTRATIONS OF TIN IN PPM OF A2 HORIZON SOILS DEVELOPED OVER VARIOUS GRANITE UNITS.	18
2	TIN CONTENT IN PPM OF VARIOUS GRANITE UNITS	19
 <u>PLANS (IN POCKET)</u>		 <u>SCALE</u>
<u>DWG NO.</u>		
K554-1	GEOLOGY, E.L. 11/78, GEORGES RIVER PROSPECT PROSPECT, TASMANIA	1:25,000
K554-2	SAMPLE LOCATIONS, E.L. 11/78, GEORGES RIVER PROSPECT, TASMANIA	1:25,000
K554-5	STREAM SEDIMENT SAMPLE LOCATIONS, CSR 1978-80, GEOPHOTO 1969-70.	1:25,000

KEYWORDS

TASMANIA
MINERALISATION
WOLFRAM
ORIENTATION
GEOCHEMISTRY
DRAINAGE
1980
BSK 55-4

EXPLORATION
TIN
GEOLOGY
ALLUVIAL
GREISEN
SAMPLING
ASSAY
PANNING

006

044007

1. INTRODUCTION

Exploration Licence 11/78 was granted to CSR Limited in September, 1978. Exploration completed during the 1978/79 field season is described by Hall (1979). The purpose of this report is to document exploration undertaken during the 1979/80 field season,

The primary exploration targets have been alluvial and hard rock tin deposits.

2. SUMMARY AND RECOMMENDATIONS

Exploration of E.L. 11/78, Georges River Prospect, was continued by CSR Limited during 1979-80. Several single point stream sediment anomalies were located and these warrant follow-up sampling. One greisen zone with weak tin mineralisation was located within the Mt. Pierson Granite.

2.1 Thureaus Lead

A previously unknown report by the Mines Dept. of test drilling upstream from Boggy Creek further downgraded the potential of Thureaus Lead. Consequently the drilling recommended by Hall (op cit) was not carried out. Geological examination suggests the tin in the area of Thureaus Lead has been recovered from the superficial quartz sands overlying the bedded and partly lithified clay-rich sands forming Thureaus Lead. It is suggested that these quartz-rich sands and the contained cassiterite have resulted from the erosion of the Mt. Pierson Granite during the current weathering cycle.

Further exploration of Thureaus Lead is not recommended.

2.2 Mt. Pierson Granite

2.2.1 Stream Sediment Sampling

A limited number of samples were collected from streams draining the Mt. Pierson Granite on the north side of the Georges River. Two samples (A80803 @ 190 ppm Sn and A80845 @ 30 ppm Sn) are considered anomalous. Follow up stream sediment sampling is required prior to the 1980-81 field season.

2.2.2 Soil Sampling

As stated previously the Mt. Pierson Granite is considered to be the source of the alluvial tin in

/....

the Thureaus Lead area. The lack of any recorded primary tin mineralisation other than the Priory workings, as sources for the alluvial tin prompted an investigation to determine if the Mt. Pierson Granite had a higher than usual background tin content. Bulk rock sampling was considered impractical and the process of panning a 12 kg sample of A₂ horizon soil to 25-50 grams of concentrate for analyses by XRF was adopted. Assuming a standard sample weight of 12 kg and knowing the weight of the panned concentrate the grade of the A₂ soil can be calculated.

Although the results from this programme were treated subjectively, it is clear that at least certain areas of the Mt. Pierson Granite have a higher tin content than the other granite units sampled. However, comparison with the few published analyses and with the -20 mesh soil samples suggests a major amount of the contained tin is being lost during the panning process. The orientation work with the -20 mesh soil sampling at the Ferntree Hill Area suggests that sampling of both the A₂ and C horizons is adequate and that bulk soil sampling and panning to a concentrate is less effective as well as being more time consuming.

2.2.3 Greisen Zone

Two greisen zones, Clio Hill and Ferntree Hill, were located during 1979-80.

Rock chip sampling of the weak greisen zone near the old Clio Hill alluvial tin workings suggests very little associated Sn (maximum assay 125 ppm). No further work is recommended on this greisen zone.

The greisen zone at Ferntree Hill was located by examining the headwaters of the Derwent and Carters Creeks which drain the north and south sides of a small topographic saddle at Ferntree Hill. The maximum tin value in greisens from this area was 730 ppm. An orientation soil sample traverse was sampled over the saddle area (grid line 542100 m N).

Further assessment, if greisen tin mineralisation is considered a suitable target, would require drilling of either a traverse of angled percussion drill holes or an angled diamond drill hole.

It is concluded that similar greisen zones with weak tin mineralisation are the more likely sources of tin within the Mt. Pierson Granite. Results from the soil sampling at Ferntree Hill indicate that further greisen zones, in areas of residual soils, could be located by soil sample traverses using either the A₂ or C horizons.

The justification in exploration for greisen zones should be assessed in regard to the probable tonnes and grades likely with such styles of mineralisation.

2.3 Mathinna Beds

The main target within the Mathinna Beds has been for a repetition of the nearby Great Pyramid quartz vein stockwork tin mineralisation.

The gaps existing in the stream sediment sampling programmes previously completed by CSR (1978-79) and Geophoto (1969-70) were sampled. Several anomalies were located with the more interesting being A80603 (50 ppm W) and A80682 (35 ppm Sn).

010

All stream sediment sampling by CSR and Geophoto has been compiled onto one plan (DWG No. K554-**5**) and the relevant sample data sheets are included as Appendices II and III of this report.

Several anomalies require follow up sampling and it is recommended that this be completed before the 1980-81 field season.

2.4 Sundry

A limited number of stream sediment samples were collected in the remainder of the E.L. to complete the sample coverage. No anomalies were located.

The two Geophoto radiometric anomalies programmed for investigation in 1979-80 were not traversed due to the non-arrival of the scintillometer. It is still recommended that this be undertaken when possible.

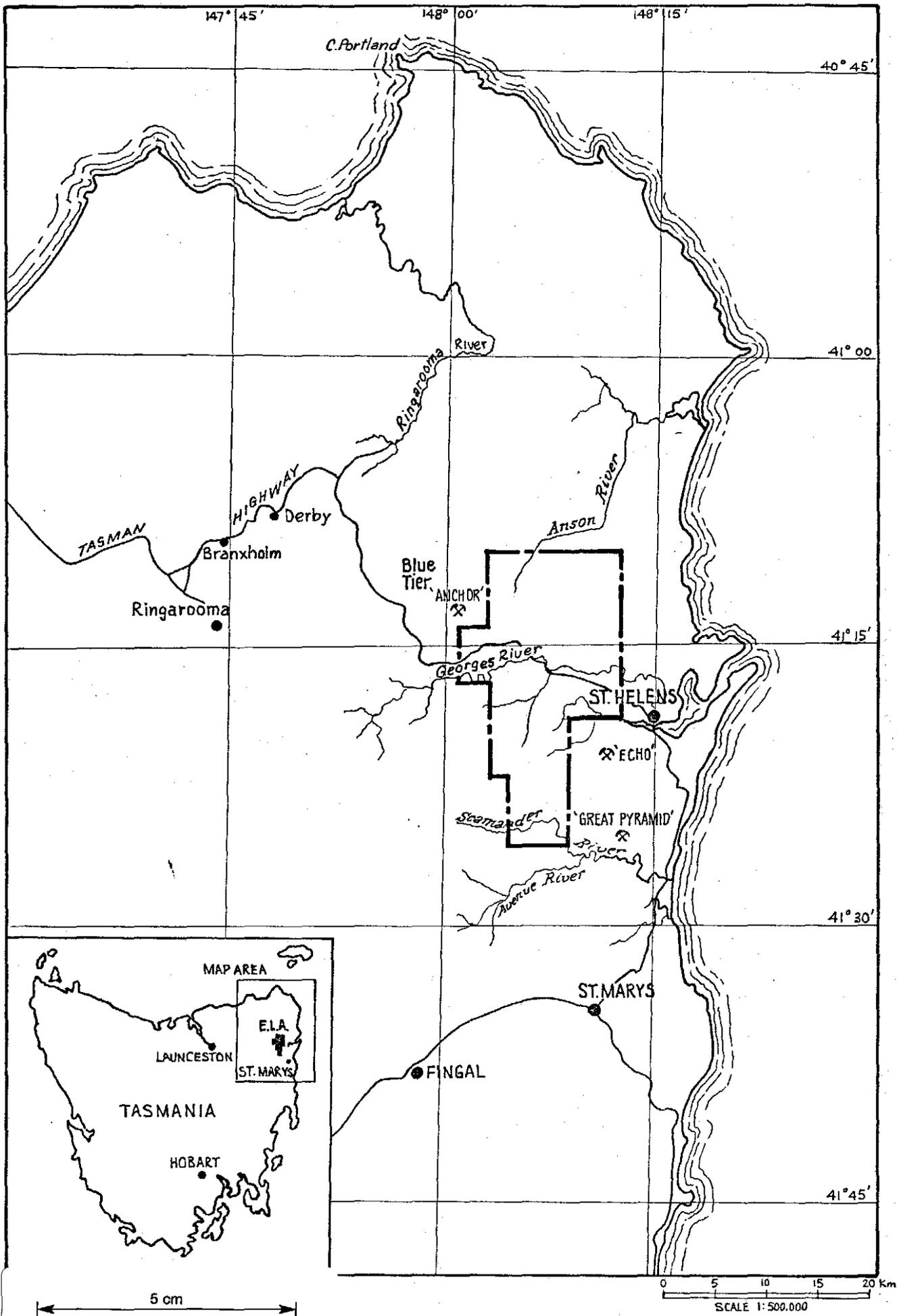


FIG. 1. LOCATION MAP-GEORGES RIVER E.L.11/78 TAS.

012

3. LOCATION & ACCESS

Figure 1 indicates the location of E.L. 11/78. A full description of the location of and access within E.L. 11/78 is given by Hall (op cit).

The only change in the access situation during 1979/80 has been the construction of an access track by the Forestry Commission from Hogans Road eastwards into the southern end of the E.L. This track follows the ridge on the northern side of Horrible Hollow Gully eastwards to the Scamander River (see DWG No. K554-1).

013

044014

4. PREVIOUS EXPLORATION

Hall (op cit) has fully documented previous exploration in the area.

Discussions held with the Director of Mines disclosed that although the Siamese Tin Syndicate Ltd. had carried out extensive exploitation and exploration of the alluvial tin deposits in the area in the 1930's, the Mines Department had virtually none of the data resulting from this activity. It is understood that the data, which was stored in Asia (Singapore?) was destroyed during World War II.

014

5. GEOLOGY

E.L. 11/78 covers granitic rocks of part of the Blue Tier Batholith which is a post-kinematic granite complex. The complex covers 1,800 km² of N.E. Tasmania (Groves, et al, 1977). The Upper Devonian complex intrudes Lower Silurian Mathinna Beds, which comprise a thick sequence of thin bedded sandstone, siltstone and mudstone.

Many different phases are recognised within the batholith. A general trend from early basic granodiorite intrusives (featuring hypersthene and hornblende) through to granite adamellite intrusives is observed. This trend culminates in a series of granite/adamellite intrusives featuring muscovite and greisen.

Hall (op cit) provides a full description of the geology of E.L. 11/78. DWG. No. K554-1 presents the geology of the area at 1:25,000 scale.

Virtually no differences were noted with the existing geological mapping during the 1979/80 field work. Geological observation was limited to that undertaken in conjunction with geochemical sampling and investigations of mineralised zones.

6. EXPLORATION CONCEPTS

6.1 Alluvial Cassiterite

Approximately 1,800 tonnes of alluvial tin has been recovered from the youthful drainage in the Goshen-St. Helens area. A major part of this production has been from relatively thin, low grade quartz sands deposited over Thureaus Lead. This "Lead" is an infilling of the former course of the Georges River.

Hall (op cit) examined most of the areas of possible alluvial tin mineralisation without locating any significant tin concentrations. Hall concluded that the only potential, although small, remained in Thureau's Lead.

6.2 Eluvial Cassiterite

Although not documented as such, eluvial cassiterite has been recovered in small quantities from skeletal soils developed over the Mt. Pierson Granite in the Saxelby Creek area.

6.3 Primary Cassiterite

Two types of primary cassiterite mineralisation occur in the district :-

- (a) Quartz cassiterite veins form a stockwork deposit at the Great Pyramid to the S.E. of E.L. 11/78. This mineralisation is hosted by the Mathinna Beds.
- (b) Greisenous zones ± quartz cassiterite veins.

Although alluvial tin has been mined in E.L. 11/78, very few sources of primary tin have been documented, e.g. Priory (quartz-cassiterite veins).

6.4 Tungsten and Molybdenum

Quartz veins with tungsten and minor molybdenum, which occur immediately S.E. of the E.L. are considered to

/.....

be related to the granite intrusives. A small potential is considered to exist for the location of quartz vein stockwork deposits of W and Mo within E.L. 11/78.

6.5 Copper, Silver, Lead and Zinc

No potential is considered to exist for the location of significant Cu, Ag, Pb or Zn mineralisation.

6.6 Silver and Gold

Although considered potential targets by Hall (op cit), examination of descriptions of the gold lodes to the west of the E.L. indicates that the quartz gold veins mined previously can not be considered as realistic targets for CSR Limited.

7. EXPLORATION PROPOSED FOR 1979-80

Hall (op cit) suggested the following exploration after completion of the 1978/79 programme.

7.1 Thureau's Lead

Further testing of the tin potential of the palaeochannel was suggested upstream from Boggy Creek.

7.2 Johnson's Hill

Although the geology of this area was considered interesting no further work was recommended.

7.3 Mt. Pierson Granite

In an attempt to locate a possible source for the alluvial tin, Hall grid sampled an area centred over Moonlight Marsh. Rock chip analyses indicated that minor tin occurs in silicified granite breccia, fine grained granite and in quartz tourmaline veining. Hall concluded that "this programme established that vertical veins and breccia diastemes are located in the Mt. Pierson Granite". He recommended a detailed stream sediment survey and rock chip sampling of altered rocks.

7.4 Mathinna Beds

Hall recommended that the density of stream sediment sampling be increased and that heavy mineral samples be taken for each major drainage.

7.5 Sundry

Additional work suggested was :-

- (a) follow up of Geophoto radiometric anomalies "G" and "U".
- (b) orientation studies of the Hogans Track Goldfield occurrences in order that all areas of Mathinna Beds be evaluated for Hogans Track type gold deposits".

018

8. EXPLORATION COMPLETED 1979-80 FIELD SEASON

8.1 Thureau's Lead

The drilling recommended by Hall was not undertaken. Examination of additional data at the Mines Dept. located further drilling results which reduced the untested length of Thureau's Lead (see Section 10.1).

Limited geological investigations of the occurrence of cassiterite within Thureau's Lead were carried out as discussed in section 10.1 of this report.

8.2 Johnson's Hill

Except for two bulk soil samples collected for comparative purposes, no work was undertaken on this area.

8.3 Mt. Pierson Granite

Approximately 50% of the exploration effort was directed at the tin potential of the Mt. Pierson Granite. The following work was undertaken :-

- (a) Stream sediment samples were collected from drainages which had (i) not been sampled by Geophoto or CSR, and (ii) had not been worked for alluvial tin.
- (b) A programme of bulk soil sampling was undertaken to investigate the source of the alluvial tin and to determine the variation in the primary tin concentration in soils developed over the Mt. Pierson Granite and the other granite units in E.L. 11/78.
- (c) A grid based rock chip sampling programme was completed over a greisen zone discovered near the Clio Hill alluvial tin workings.
- (d) A greisenous zone in the Ferntree Hill area was located, rock chip sampled and used as an orientation area for soil sampling techniques.

8.4 Mathinna Beds

Stream sediment sampling of all the areas of Mathinna Beds within the E.L. was completed. Heavy mineral concentrates from each drainage basin were not collected as previous work by Hall suggested that conventional stream sediment sampling is an adequate technique.

8.5 Sundry

Follow-up of the Geophoto radiometric anomalies was not undertaken due to the non arrival of the scintillometer.

The Hogans Track type gold mineralisation was not investigated as it is not considered a viable target for CSR Limited.

9. PROCEDURES

Sample numbering was undertaken using the "A" series ticket books with samples collected during the 1979/80 field season being numbered between A80501 and A80847. Where possible Australian Metric Grid Co-ordinates were used to locate sample points.

The bulk soil samples which were collected and panned to a concentrate were treated as follows :-

- (a) Sample volume collected in a 2 gallon plastic bucket (average weight tested at 12 kg of soil).
- (b) Sample panned to 20-50 gm of concentrate.
- (c) Sample dried and weighed.
- (d) Analysed by XRF.
- (e) Calculation of crude concentration of Sn in bulk soil by the following method :-

$$\text{ppm Sn} = \frac{1,000,000}{y} \times (X \times Z)$$

where y = wt. of bulk soil sample

x = wt. % Sn in panned concentrate

z = wt. in grams of dried panned concentrate.

Analytical methods used were :-

- (a) Cu, Pb, Zn, Ag, Bi, Cd, Mo - digestion with HC10_4 @ 220°C , determination by A.A.S.
- (b) Sn, W by XRF.

All analyses were completed by Australian Laboratory Services Pty. Ltd.

10. RESULTS OF EXPLORATION PROGRAMMES 1979/8010.1 Thureau's Lead

Examination and sampling of previous workings suggests that the cassiterite recovered from Thureau's Lead was in the superficial quartz sand cover rather than in the bedded and partly lithified clay-rich sands exposed by sluicing activities. It is assumed that the sluicing down into these sediments was necessary to provide channels in which to operate sluice boxes and to dispose of the tailings. The clay-rich sands were apparently referred to as "marine bottom" by the alluvial miners.

Two samples collected from the "marine bottom" in the sluiced channels of the Argonaut Mine were panned to a concentrate. Back calculation from the analyses suggests low tin concentrations, viz. A80793 = 7.5 ppm Sn; A80794 = 0.62 ppm Sn. A sample of white quartz sand collected from east of the Argonaut workings (A80795) back calculated to 26.44 ppm Sn suggesting the cassiterite was in this superficial sand cover.

Hall (op cit) suggested that the bimodal appearance of the cassiterite, viz. fine black grains and coarser ruby-red grains is due to the former being derived from reworking of the sediments of Thureau's Lead and the latter being recently contributed from nearby source rocks. Observations during panning of numerous 12 kg bulk soil samples suggest that the majority of the cassiterite is fine grained and black. Coarser grained ruby-red cassiterite was rarely noted even on the traverse line at Ferntree Hill.

The superficial quartz sand over Thureau's Lead could have two sources :-

- (a) reworking of the sediments of Thureau's Lead;
- or (b) erosion of the surrounding granites during current weathering cycle.

The latter is considered to be the major source of the quartz sand and hence the cassiterite, but it is impossible to refute that reworking of Thureau's Lead could have been significant.

During 1979/80 a report on an additional two drill traverses further west on Thureau's Lead was located. This report by Jennings and Braithwaite is included as Appendix I of this report. The results of this drilling should be treated with caution as :-

- (a) an auger drill was used.
- (b) many holes did not reach basement (granite).
- and (c) there appears to have been minimal geological supervision or any logging of the drill cuttings.

Hall (op cit) suggested drill testing of the palaeo-channel upstream of previous drilling and it is undoubtedly the only way to discount the possibility of deep lead tin. However, the total failure of all previous drilling downstream to locate any tin at depth suggests the chances of a deep lead tin deposit are very slender.

The only basis for recommending drilling would be to prove the negative case.

10.2 Mt. Pierson Granite

10.2.1 Soil Sampling

Exploration during 1979/80 did not include any search for alluvial tin. It is noted that one bulk soil sample (A80727) contains a back calculated tin content of 41 ppm. The area from which this sample was collected may have some potential for the location of a small resource of alluvial tin.

Although the source of the alluvial tin recovered from the Groom River was probably the Anchor

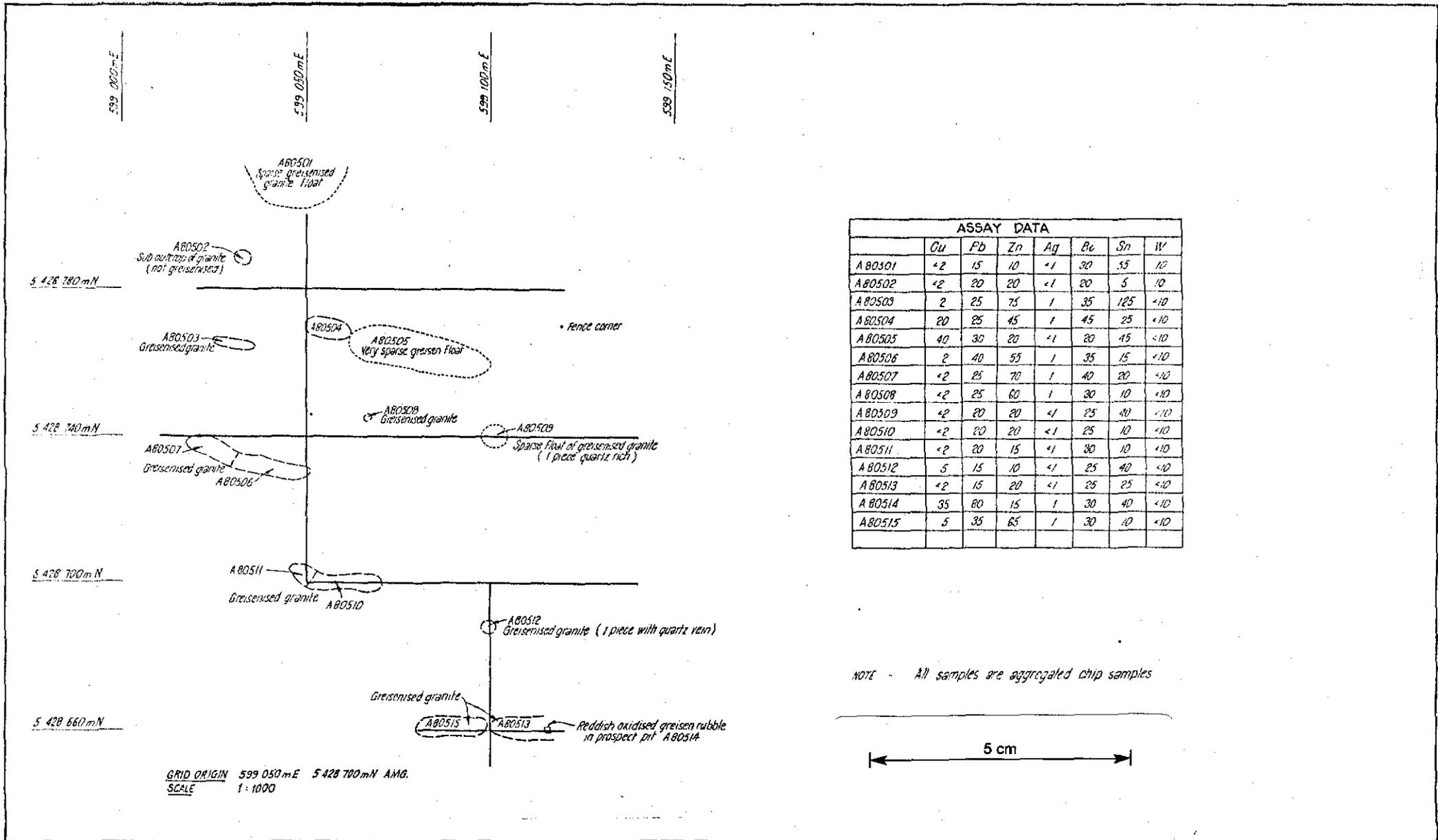


FIG. 2. CLIO HILL GREISEN ZONE - GEOLOGICAL PLAN WITH SAMPLE DATA - E.L.11/78 GEORGES RIVER TAS.

Mine, the Mr. Pierson Granite is considered to have been the source of tin mined from the superficial cover sands over Thureau's Lead. Quartz-cassiterite veins at the Priory mine are the only recorded tin occurrences in the Mt. Pierson Granite.

The extent of alluvial workings in the first order stream channels suggests that tin is actively being shed during erosion of the Mt. Pierson Granite rather than being derived by reworking of a previous soil cover.

Exploration by Hall (op cit) in the Moonlight Marsh area suggested possible sources for the tin from:-

- (a) quartz-tourmaline veining.
- (b) aplitic granite.

During 1979/80 several possible sources for the tin being shed by the Mt. Pierson Granite were considered. These were :-

- (a) Quartz veins
- (b) Aplite veins
- (c) Tourmaline veins
- (d) Greisen zones
- (e) The Mt. Pierson Granite itself.

During the initial inspection of the E.L. a greisenous zone was located near the Clio Hill alluvial workings. This was subsequently gridded and rock chip sampled (see Figure 2). Only trace tin (maximum 125 ppm Sn) was present in this greisen and it is not considered to warrant further investigation.

Examination of rock fragments within the sluiced areas reveals a relatively high proportion of quartz, tourmaline and fresh aplite which is not surprising as these minerals and rocks would be less easily weathered than the Mt. Pierson Granite. Although

TABLE 1

GRANITE	NO. OF SAMPLES	AVERAGE	RANGE	COMMENT
Johnsons Hill (Lottah Sheet)	2	0.075	0.05-0.10	-
Poimena Pluton	1	-	0.06	-
Constables Creek	12	0.23	0.02-0.96	Obvious mineralisation omitted.
Mt. Pierson	16	1.75	0.08-5.06	Obvious mineralisation omitted.
Mt. Pierson	4	0.025	0.03-0.02	Area remote from alluvial tin mineralisation.

CALCULATED CONCENTRATIONS OF TIN IN PPM OF A₂ HORIZON SOILS DEVELOPED OVER VARIOUS GRANITE UNITS.

these types of veining do carry minor tin values, e.g. a tourmaline vein sampled at Ferntree Hill carried 265 ppm Sn, they can not be considered as the major sources of the alluvial tin.

In order to test the possibility that the Mt. Pierson Granite had a high background tin content, the programme of bulk soil sampling was undertaken. Bulk soil sampling was considered as an impractical method of assessing the background value to the Mt. Pierson Granite. Examination of the soil profile adjacent to outcrops of Mt. Pierson Granite revealed a thin quartz sand (A2 horizon) overlying clay rich decomposed granite (C horizon). The procedure of taking a 2 gallon plastic bucket of quartz sand (nominal weight 12 kg) and panning it back to 25-50 gm for analyses by XRF was adopted. By selecting sample sites where the sand was almost certainly residual from weathering of the Mt. Pierson Granite, e.g. skeletal sand adjacent to granite outcrops, it was hoped that a meaningful assessment of the relative variation of the tin backgrounds could be made. In theory the tin content of the quartz sand should be significantly higher than the parent granite. It was expected that tin concentrations would be low and thus to upgrade the analytical precision the 12 kg samples were panned to 25-50 gm of concentrate. This technique has been successful in enabling comparisons to be made but comparison with the results of conventional soil sampling at Ferntree Hill are a complicating factor.

Table 1 shows the results of the bulk soil sampling programme. The data for the Mt. Pierson and Constables Creek Granites have been modified by omitting values that reflect obvious mineralisation.

Although the use of heavy mineral concentrates overcomes the analytical problems, the calculated

TABLE 2

GRANITE	NO. OF SAMPLES	AVERAGE	RANGE
Poimena Pluton	1	-	12
Constables Creek	2	6	9-3
Mt. Pierson	1	-	9

TIN CONTENT IN PPM OF VARIOUS GRANITE UNITS.

SOURCE : GROVES, ET AL (1977)

concentrations are much lower than the parent rock shown in Table 2. Several explanations are possible :-

- (a) the cassiterite is very fine grained and is being lost during panning.
- (b) the cassiterite is enclosed in quartz grains (unlikely) and is being lost during panning.
- (c) the calculation of Sn concentration is creating major errors due to :-
 - i) coarse material discarded at commencement of panning - not considered a significant effect on actual sample weight.
 - ii) weight of sample used is wet weight - not considered significant.

The same problem occurs when comparing the calculated bulk soil values with the -20 mesh soil samples. Table 3 gives the results for the Ferntree Hill grid line sampling. Why the soil sample values are several times greater is once again best explained by the loss of significant tin during panning due to the small grain size. The duplicate heavy mineral concentrates indicate that the results are reproduceable.

Although the results should be treated with caution as tin is being lost during sample preparation, it is a reasonable conclusion that the Mt. Pierson Granite, although having a highly variable tin content, has significant areas of higher than normal tin contents and could be shedding sufficient tin to explain the occurrence of alluvial tin concentrations.

One of the early samples in the bulk soil sampling programme was collected on the saddle between Derwent Creek and Carters Creek at Ferntree Hill. Both creeks, which have been worked for alluvial tin, have

north-south trends and it was thus decided to try and locate a source for the tin. Sample A80709 collected in the centre of the saddle dividing the two creeks containing coarse cassiterite.

Subsequently an E-W grid line was pegged over the saddle and bulk soils, including six duplicates, and A₂ and C horizon - 20 mesh soil samples collected. The analytical results for this sampling are shown on Figure 3.

The only constructive conclusion to be drawn from the comparison of results in Figure 3 is that conventional soil sampling is more effective than the bulk soil sampling undertaken.

Inspection of the sluiced areas of the headwaters of Carters and Derwent Creeks located greisenised granite in both areas. The analyses for rock samples collected from these areas are present in Figure 4. Although only weakly mineralised it is reasonable to assume that the greisen is the source of the alluvial tin worked in both creeks.

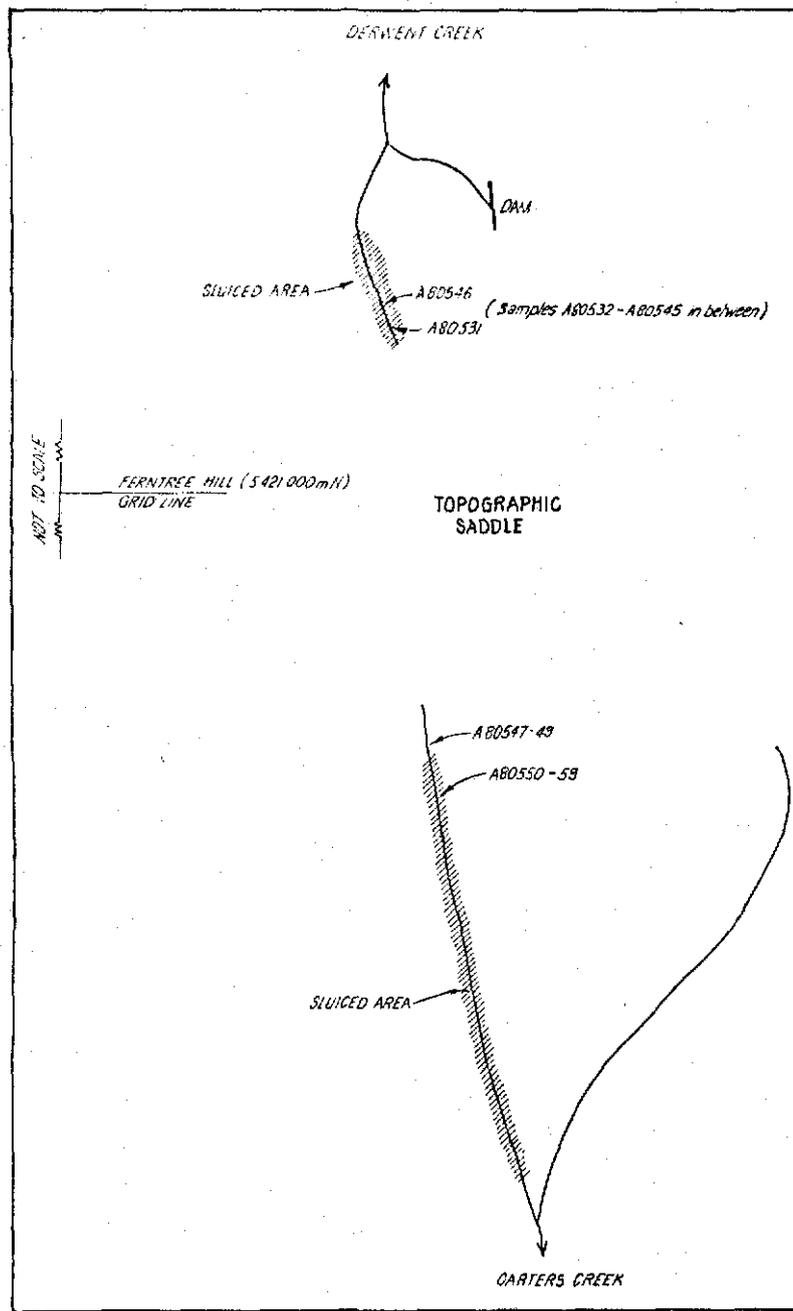
10.2.2 Stream Sediment Sampling

A limited number of samples were collected from streams draining the Mt. Pierson Granite on the north side of the Georges River. One sample (A80803) contained 190 ppm Sn in the -20 mesh fraction and requires follow-up check sampling. The only other result considered anomalous is sample No. A80845 with 30 ppm Sn.

10.3 Mathinna Beds

10.3.1 Stream Sediment Sampling

The gaps existing in previous stream sediment coverage of the Mathinna Beds were sampled. Sample



HEADWATERS - DERWENT CREEK

ASSAY DATA								
	Cu	Pb	Zn	Ag	Bt	Sn	W	
A 80531	2	15	30	2	30	5	<10	Weathered granite
A 80532	5	10	80	1	15	10	<10	Fresh aplite in above
A 80533	2	10	20	1	15	70	10	"
A 80534	2	10	25	1	25	100	<10	Aplite float - micas are greisenous
A 80535	2	15	20	1	15	15	10	Weathered granite
A 80536	2	15	25	1	20	20	10	Weathered greisenous granite
A 80537	2	10	25	1	20	30	<10	"
A 80538	2	15	25	<1	25	35	10	Less weathered greisenous granite
A 80539	<2	10	20	<1	15	25	<10	"
A 80540	<2	15	15	1	30	65	10	"
A 80541	5	15	30	<1	25	185	<10	"
A 80542	2	10	10	<1	15	30	<10	Weakly oxidised biotite granite
A 80543	<2	10	15	1	15	35	<10	Foot of weakly oxidised greisenous granite with tourmaline vein
A 80544	2	10	15	1	25	20	<10	"
A 80545	2	10	10	<1	20	35	<10	"
A 80546	2	10	30	<1	15	265	<10	Fragment of tourmaline vein

HEADWATERS - CARTERS CREEK

ASSAY DATA								
	Cu	Pb	Zn	Ag	Bt	Sn	W	
A 80547	20	15	80	1	35	415	20	Weakly greisenous granite from bedrock at head of Sluced creek
A 80548	15	15	75	1	40	315	10	"
A 80549	10	10	80	1	35	810	20	"
A 80550	5	15	55	1	30	135	<10	Greisenous granite from spoil dump 20m south of above
A 80551	5	15	70	1	25	220	10	"
A 80552	2	15	45	1	20	255	<10	"
A 80553	DUPLICATE OF A 80552 - RETAINED							
A 80554	5	15	50	1	20	260	10	"
A 80555	5	15	70	<1	20	55	10	Aplite, greisenous granite from spoil dump as above
A 80556	DUPLICATE OF A 80555 - RETAINED							
A 80557	2	15	20	1	25	730	<10	Greisenous granite with tourmaline vein location as above
A 80558	5	20	30	1	30	370	20	"
A 80559	2	15	40	1	25	365	20	"

FIG. 4. FERNTREE HILL AREA - PEGGED GRID LINE & ROCK SAMPLE LOCATIONS - E.L. 11/78 GEORGES RIVER TAS.

044032

collection rate was low as in most cases the gaps existed due to the difficult access to the sample points. The following anomalous results are noted :-

Sample No. A80603 - 50 ppm W
A80682 - 35 ppm Sn.

The stream sediment data has not been subjected to statistical treatment due to the generally low level of metal concentrations recorded. Anomalous values have been selected by visual estimation.

DWG No. K554- includes only that sampling undertaken by CSR Ltd. since 1978. Extensive sampling of most of E.L. 11/78 was completed by Geophoto Resources who held the area in the early 1970's. DWG No. K554- is a compilation of all known stream sediment sampling undertaken by CSR and Geophoto. The sampling undertaken by CSR and Geophoto. The sample data sheets for these samples are included as Appendices II and III.

10.3.2 Rock Sampling

Fine, lace like, quartz veining in one area was sampled as it had a similar appearance to the quartz veining at the Great Pyramid tin prospect. No tin mineralisation was detected.

Most of the quartz veining in the Mathinna Beds has been prospected in the past as evidenced by numerous pits and trenches. Although this activity was undoubtedly directed at the search for quartz-gold mineralisation, it is unlikely that other mineralisation would have been ignored.

10.4 Sundry

A limited number of stream sediment samples were collected in the remainder of the E.L. to complete the stream sediment coverage. No anomalous results were recorded.

11. CONCLUSIONS

Exploration during 1979/80 established the following :-

- (a) Stream sediment sampling was completed over the area and a small number of anomalies which require follow-up sampling.
- (b) A bulk soil sampling method was utilised to ascertain that the Mt. Pierson Granite has a higher background tin content than the other granites.
- (c) A weakly tin mineralised greisenised granite was located in one area shedding cassiterite within the Mt. Pierson Granite.
- (d) The potential for tin deposits within Thureau's Lead has been further downgraded.
- (e) Conventional soil sampling techniques are much more efficient than the bulk soil sampling method tested during the 1979/80 programme.

034

12. PROPOSED WORK PROGRAMME - 1980/81

The following work programme is based on results obtained during 1979/80 and work proposed for 1979/80 but not completed.

12.1 Anomalous stream sediment results. The limited number of anomalies should be followed up with more closely spaced stream sediment sampling as, at the present sample density, all the more interesting anomalies are single sample points. This sampling should be completed before the 1980/81 field season.

12.2 The extent and grade of the greisen zone at Ferntree Hill should be subjected to further assessment. If, as is likely, the greisen zone continues both north and south under the beds of Derwent and Carter's Creeks soil sampling is obviously an impractical method of defining the extent. It is possible that a first phase in assessing this greisen zone would be to either :-

(a) drill a line of angled percussion drill holes along grid line 5421000 m N.

or (b) to drill an angled diamond drill hole under the same zone.

12.3 The Geophoto radiometric anomalies should be investigated by ground traversing with a scintillometer.

12.4 If it is considered justifiable on economic grounds (tonnes and grade) to explore for further greisen zones then the following factors should be considered.

(a) Mining of the Anchor greisen deposit to the west of the E.L. was carried out at a grade estimated at 0.2% Sn during the same time as alluvial mining in the Goshen-St. Helens area. As there are no records of greisen zones being recognised in the Mt. Pierson granite during

/.....

035

this time it is probably fortuitous the greisen was located at Ferntree Hill. It is difficult to believe that the alluvial miners would not have recognised and investigated any greisen zones uncovered during sluicing operations.

- (b) The soil sampling completed on grid line 542100 m N at Ferntree Hill established that conventional soil sampling using the -20 mesh fraction is an effective technique in this environment.

Based on the above considerations a suggested approach for the location of additional greisen zones could be to select soil sample traverse lines by :-

- .. a lineament interpretation;
- .. consideration of source zones based on creeks which have been worked for alluvial tin;
- .. definition of areas of residual soil from areas of transported soil.

A regular grid layout would not be the best approach. A suggested sampling method could consist of selecting taverses, not necessarily straight lines, using enlarged aerial photographs for location purposes, and traversing and sampling in the one pass. Based on the Ferntree Hill test line the A₂ horizon proved an effective sampling medium and is certainly less time-consuming to sample than the C horizon. The sample spacing would be somewhat dependent on the budget situation as the chemical analyses would be a major cost component.

13. REFERENCES

- .. GROVES, D.I., ^cCOKER, T.D. and JENNINGS, D.J. (1977)
The Blue Tier Batholith.
Dept. of Mines Tas. Geol. Surv. Bull. 55.
- .. HALL, G.C. (1979).
Exploration of E.L. 11/78, Georges River Prospect,
St. Helens District, Tasmania.
Unpubl. Rep. CSR Limited (EMR 86/79)

J37

044038

APPENDIX I

DEPT. OF MINES, TASMANIA, TECHNICAL REPORT NO. 12.
GEOLOGICAL INVESTIGATION AND RESULTS OF DRILLING
FOR TIN ADJACENT TO GEORGES RIVER
(D.J. JENNINGS, 1968 - pp 19-24)

U38

CONCLUSIONS

The magnitude of the anomalies in this area is much less than elsewhere in the Savage River area, implying much less ore is present or that it is very much deeper or of lower grade. Little drilling could be recommended on the present results although two holes are suggested on fig. 5.

Bibliography

EADIE, E. N., 1962.—Savage River geophysical surveys, Tasmania 1960-61. *Rec. Bur. Min. Resour. Aust.*, 1962, - 6 (unpub.).

1963.—Long Plains magnetic survey, Tasmania 1961-62. *Rec. Bur. Min. Resour. Aust.*, 1963, - 52 (unpub.).

SEDMICK, E. C. E., 1961.—Savage River Magnetic Survey, Tasmania, 1960. *Rec. Bur. Min. Resour. Aust.*, 1961, - 135 (unpub.).

URQUHART, G., 1966.—Magnetite Deposits of the Savage River-Rocky River Region. *Bull. Geol. Surv. Tasm.*, No. 48.

3. GEOLOGICAL INVESTIGATION AND RESULTS OF DRILLING FOR TIN, ADJACENT TO THE GEORGE RIVER

by D. J. Jennings

Appendix by J. B. Braithwaite

INTRODUCTION

The area investigated lies 6 miles NW of St Helens and consists of a low lying tract in the valley of the George River between the hilly terrain S of the Tasman Highway and the river some 0.5 mile to the N. Vegetation is restricted to patches of sparse bush and swampy heathland. The youthful course of the George River is incised in granite and the river crosses a series of rock bars in a channel which reaches 20 feet in depth.

To the E a large area of ground has been stripped to a false bottom by removal of 10 to 15 feet of overburden in the course of sluicing for tin. Substantial open pits occur in the NE of the block. The area has been held by a succession of lessees since 1918 but the most recent workings are those of the old Goshen Tin Mine which operated between 1940 and 1948. Elsewhere in the area evidence of past small-scale tin working is common, in particular along the minor creeks draining N into the present George River. Prospecting pits, water races and tailings dumps are numerous. Three or four major water races traverse the area, two of which have been indicated on the sketch map. They are generally in a

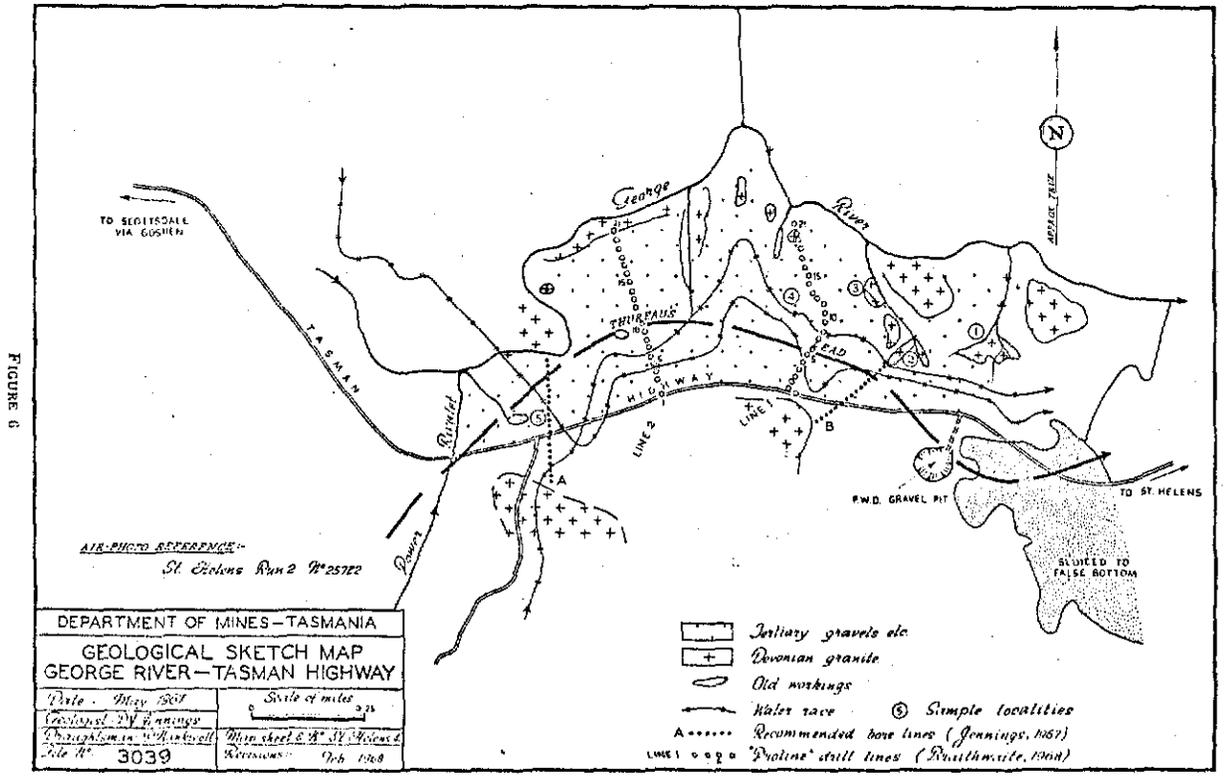


FIGURE 6

5 cm

040

good state of repair, although currently dry. Recent road reconstruction has, however, disrupted most of them. The largest has been tapped in several places to provide water for small tin prospects lower on the block. The deepest race is incised 16 to 20 feet towards the eastern end. The wooden pipes of the inverted syphon over the George River have been burnt-out on the southern bank.

The ancient course of the George River which probably ran from W to E across the block has been transferred to the present diagram from the map accompanying the account of Thureau's Lead (Jack, 1963, p. 64).

All land both S of the George River and W of Power Rivulet is privately owned, but Crown land extends downstream to the E for some two miles. Water could be provided without difficulty by pumping from the George River, but would compete with St Helens water supply for this source. Old workings could be dammed to form settling ponds for tailings, but again the inevitable discolouration of the George River would be unacceptable in the water supply for St Helens.

GEOLOGY

The bedrock of the area is Devonian granite of the coarse biotite-bearing variety, and carries a varying amount of overburden in the form of river sediments and alluvium. It probably ranges in age from Tertiary to Recent. Some of the low hills S of the road are composed of granite, but rock exposures are wide-spaced, and apparent minor depressions between hills could conceal considerable depths of sediment. The easternmost hill exposes no granite, but a capping of coarse quartz gravel exceeding 10 feet in depth is indicated in a recent P.W.D. road-materials quarry.

N of the road granite is exposed sporadically along the course of the river and in the floors and tail races of many of the old tin workings. In the NE of the area granite hills stand between the present course of the George River and the inferred course of Thureau's Lead. Across the river to the N the terrain is apparently composed of granite.

The Tertiary sediments are mainly uniform quartz sand and grit derived directly from the granite, but occasional impersistent pebble bands occur throughout the succession and some workings expose a basal pebble wash. The only large pebble deposit recognised is that in the P.W.D. quarry S of the road, but an E-W zone parallel to and N of the road carries a float of small pebbles, presumably a lag deposit overlying the lead.

CONCLUSIONS

In the report on the boring of the lower reaches of Thureau's Lead, Jack suggests that successful workings on the lead were in the superficial zones of enrichment due to surface reworking of sediments, that is concentration as late-stage lag deposits. No economic deep-seated zones were located. This could be equally true at the present level, but need not be, the present site being some one mile further upstream in the lead than the previous most westerly drilling by the Mines Department, which reached 150 feet

in depth. Periodically depositional conditions may have prevailed in the lower reaches of the old river, while erosional conditions (with possibilities of tin concentration) occurred contemporaneously upstream.

Apart from the possibilities of a major lead, with basal, intermediate or superficial zones of tin enrichment, small prospects have been worked to a false bottom (in the W) or to a basal wash horizon on granite bedrock (in the E). An attempt must be made to establish why these operations ceased.

RECOMMENDATIONS

A line of holes should be drilled on a N-S line between granite exposures towards the western end of the block, to indicate channel profile and assess tin values (line A). If anything of interest results a second drill line should be located further E on a NE-SW line between other granite exposures (line B) (See sketch map, fig. 6).

Suitable old working faces in the pits should be cleaned down and basal and intermediate wash horizons sampled, as should surface shows of "birds-eye" gravels.

SAMPLING RESULTS

Since submission of the above report a Proline Auger drilling programme and limited surface sampling have been completed. Lack of worthwhile tin values in the lead downstream prompted a shallow reconnaissance test programme, information and results of which appear as Appendix I by J. B. Braithwaite.

The possibility of Thureau's Lead passing through the area, nature of the hard substrata reached by the auger, and the possibility of better values at depth, remain in doubt.

Eight samples were collected and panned in a traverse across the area (localities (1) to (5)). The sample from locality (4) was surface gravel and the remainder were wash horizons exposed in abandoned workings. Good prospects were obtained from locality (1) with values between one and two pounds per cubic yard and a poor prospect was gained from locality (3). Only 'trace' or 'nil' values were obtained elsewhere.

References

JACK, R., 1963.—Thureau's Deep Lead, St Helens. *Tech. Rep. Dep. Min. Tasm.*, 8, 63-71.

Appendix I

POWER RIVULET AREA—ST HELENS

The area in question is immediately E of Power Rivulet and extends from the main road to the George River and covers approximately 350 acres. A final check on possible economic tin values was required before alienation of the area.

042

ECONOMIC AND GENERAL GEOLOGY

The area has been extensively prospected by miners in the past and scattered workings show where economic values were found. It was assumed that prospectors would have investigated all the likely spots as indicated by the present topography so this campaign consisted of two lines of bores across the widest part of the area and ignoring any surface features.

The drill used was the Proline auger capable of drilling a 4½-inch hole to sixty feet in soft to medium ground. The whole sample from each hole was washed in a cradle and a final panned concentrate weighed and examined by the Mineralogist.

All holes were taken to a full depth to which the augers would safely penetrate and the nature of the bottom shown in the results is the drillers' interpretation only.

RESULTS

Bore No.	LINE 1		LINE 2	
	Depth in Feet	Bottom	Depth in Feet	Bottom
1	5	Clay	6	'Granite'
2	33	"	9	"
3	25	"	6	"
4	29	"	28	Clay
5	33	"	15	"
6			6	'Granite'
7	27		6	"
8			6	"
9	15	'Granite'	3	"
10	30	"	3	"
11	42	"	3	"
12	19	Clay	6	"
13	30	"?	6	"
14	19	'Granite'	6	"
15	21	"	6	"
16	12	"	6	"
17	12	"	6	"
18	8	"	9	"
19	18	"	6	"
20	9	"	6	"
21	12	"	3	"
22	9	"	15	"

VALUES

All bores showed traces of tin but no economic values. The greatest recoveries were from Bores 11 and 12 on Line 1 which each gave approximately ½ oz of concentrates but the concentrates were only 5% cassiterite; this represents a maximum value of ¼ oz per cubic yard.

The drill recovered a complete sample except immediately above the clay in some holes. Where there is water on top of the clay there is a tendency for a slurry to form which will not come up on the flights. The method by which only one sample is made over the whole depth speeds things up and if tin is found further holes can always be drilled to determine the horizon.

043

044044

The present drilling combined with the old work in the area would indicate that no economic deposits of tin remain in the area.

The positions of proline bore holes are marked on the accompanying geological sketch map (Jennings, 1967).

4. ROYAL GEORGE TIN MINE CORNWALL COAL COMPANY

by A. J. Noldart

GENERAL

From August 1966, until February 1967, Geologist G. Urquhart carried out a detailed examination of the Royal George Tin Mine, Royal George, and its surroundings. Investigations included geological mapping, surface and underground; diamond drilling recommendations; and core logging and sampling advice for the owners, Cornwall Coal Company.

By February, all geological mapping and underground sampling had been completed; diamond drill holes C.C.C.1 to C.C.C.7 inclusive had been completed and sampled; C.C.C.9 completed and partly sampled; and C.C.C.8 and C.C.C.10 were drilling ahead.

An interim report, with plans and sections, was prepared and copies forwarded to the Cornwall Coal Company. No ore reserves were calculated at that time.

After February, supervision of the programme was taken over by the writer. Diamond drill holes C.C.C.8 and C.C.C.10 were completed and sampled; longitudinal projection 2966/55 of the ore body (Urquhart, Jan. 1967) was revised, and ore reserves calculated.

Other plans and sections are currently being revised and brought up to date.

ORE RESERVES

Ore reserves for the ore body are based on floor assays from the No. 2 mine level and diamond drill intersections by Cornwall Coal Company (1966-67), B.H.P. (1957), and Ridgeway (1954). A conversion factor of 13.5 cubic feet/ton was used throughout.

The reserves were calculated in a series of triangles in order to determine significant variations in ore body size and grade. Individual reserve blocks are shown on revised longitudinal section 2956 (fig. 7).

APPENDIX II

SAMPLE DATA SHEETS
SOIL, STREAM SEDIMENT AND ROCK
SAMPLING 1979-80

M stream sediment

R rock chip

HM heavy mineral

S soil

See also 82-1683

CSR LIMITED SAMPLE DATA SHEET



045

AREA GEORGES RIVER ELI/28 PROSPECT NUMBER 603
 STATE TAS LOCATION _____
 SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER REW/SJH

LABORATORY REPORT NO. _____
 ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE -- M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chips
 R - Rock
 Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	TEMPERATURE IN MICROHRS	CHEMICAL ANALYSES (ppm)										W.	SUMMARY DESCRIPTION	AMG LOCATION	
			Cu	Pb	Zn	As	Pi	Cl	Mn	Sn	E#	N#				
80841	M	-80	2	10	5	<1	25	1	2						593330	5435900
		-20+80										<5	<10			
42	M	-80	5	30	15	1	30	1	2						593430	5436370
		-20+80										<5	10			
43	M	-80	2	10	10	<1	25	1	5						593500	5436440
		-20+80										<5	<10			
44	M	-80	2	15	5	<1	25	1	2						593760	5436890
		-20+80										<5	<10			
45	M	-80	2	15	5	<1	30	1	2						594070	5438120
		-20+80										30	10			
46	M	-80	5	20	10	<1	30	1	2						594470	5436320
		-20+80										10	10			
47	M	-80	2	15	5	<1	20	1	5						594470	5436380
		-20+80										<5	<10			

044040

046

CSR LIMITED SAMPLE DATA SHEET



AHFA GEORGES RIVER EL11/78 PROSPECT NUMBER 603
STATE TAS LOCATION _____ SHEET _____

DATE SAMPLED JAN 1980
SAMPLER REV / STM

LABORATORY REPORT NO. _____
ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Core/mud, S - Soil
SA - Soil Auger, RC - Drill Core, RP - Percussion Chips
R - Rock
ANALYSES: Please state element
ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	DEPTH (m)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION DATA BASE NOS.	A.M.C. LOCATION		
			Cu	Pb	Zn	Ag	Bi	Cd	Mn	Se	E/W	N/A					
A 80826	M	-80 -20+80	<2	20	5	<1	25	<1	2							592700	5440400
27	M	-80 -20+80	<2	15	5	<1	30	1	5							592750	5440640
28	M	-80 -20+80	2	15	10	1	25	<1	5							593780	5439320
29	M	-80 -20+80	2	15	10	<1	20	<1	5							593620	5438740
30	M	-80 -20+80	2	10	10	1	25	<1	2							594880	5440080
31	M	-80 -20+80	2	10	5	1	25	1	2							594850	5440000
32	M	-80 -20+80	2	15	5	1	20	<1	5							596110	5440440
33	M	-80 -20+80	7	10	10	1	20	1	5				5833			594680	5432120
34	M	-80 -20+80	5	20	10	<1	25	1	2				5834			594610	5431800
35	M	-80 -20+80	2	25	10	1	25	1	5				5835			594420	5431150
36	M	-80 -20+80	20	40	80	2	35	1	5				5836			594010	5430710
37	M	-80 -20+80	2	10	5	1	20	1	5							589940	5429340
38	M	-80 -20+80	2	25	20	1	35	1	5							590440	5429460
39	M	-80 -20+80	2	10	5	1	30	<1	5				5839			594430	5429780
40	M	-80 -20+80	10	20	20	<1	30	1	5				5840			591330	5430950

044047

CSR LIMITED SAMPLE DATA SHEET



047

AREA GEORGES RIVER ELH/78 PROSPECT NUMBER 603
 STATE TAS LOCATION _____ SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER REW SJH

LABORATORY REPORT NO. _____
 ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creekbed, S - Soil, SA - Soil Auger, RC - Drill Core, RP - Percussion Chips, R - Rock
 ANALYSES: _____
 ADDITIONAL _____
 Please state element

SAMPLE NUMBER	SAMPLE TYPE	DEPTH (m)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	AMC. LOCATION	
			Ca	Pb	Zn	Ag	Bi	Cd	Mn	Sr	E/W	N/B				
A 803.11	M		5	10	10	<1	25	1	40	51%	30	Sample Wt 33.76 gm. FERN TREE HILL GRID LINE 12 Kgs A ₂ soil → ~50 gm. Many db. kernels - some tin → 14.35 ppm Sn	593160	5421000		
	M	12	2	10	5	<1	20	1	30	55%	30	Sample Wt 41.63 gm. ditto sample type → 19.08 ppm Sn	593300	5421000		
	M	13										ditto sample type	593300	5421000		
	M	14	2	10	10	<1	20	1	35	2.07%	100	Sample Wt 23.91 gm. → 41.24 ppm Sn ditto sample type	593260	5421000		
	M	15										ditto sample type	593260	5421000		
	M	16	-80 -20+80	10	45	20	1	30	2	5		<5	10		597490	5433940
	M	17	-80 -20+80	5	50	15	1	30	1	5		<5	20		597540	5434440
	M	18	-80 -20+80	2	20	2	<1	20	1	5		<5	<10		596740	5435230
	M	19	-80 -20+80	<2	20	2	<1	20	1	5		<5	<10		596750	5434860
	M	20	-80 -20+80	2	20	5	<1	20	1	5		<5	10		596800	5434640
	M	21	-80 -20+80	2	20	10	<1	25	1	5		<5	10		596850	5434690
	M	22	-80 -20+80	2	25	10	1	40	<1	10		<5	<10		596340	5435440
	M	23	-80 -20+80	<2	15	5	1	30	<1	5		<5	<10		593210	5438820
	M	24	-80 -20+80	<2	20	5	<1	15	1	5		<5	<10		593140	5438780
	M	25	-80 -20+80	<2	15	5	1	25	1	5		<5	10		592710	5440460

044045

CSR LIMITED SAMPLE DATA SHEET



048

AHCA GEORGES RIVER EL11/78 PROSPECT NUMBER 603
 STATE TAS LOCATION _____
 SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER REV. SJH

LABORATORY REPORT NO. C 153
 ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil, SA - Soil Auger, RC - Drill Core, RP - Percussion Chips
 ANALYSES: R - Rock, Please state element
 ADDITIONAL _____

SAMPLE NUMBER	STATE	DEPTH (m)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	A.M.C. LOCATION	
			Cu	Pb	Zn	Ag	Bi	Cl	Mo	Se					E#	N#
A 80796	HM		5	10	5	<1					20	0.39%	<10	12kg A ₂ seal ⇒ ~50gms - one Contabley Creek granite (?) (NO %) Coarse cementite visible - minor dk leaves Sample wt = 42.01 gm ⇒ 13.50 ppm Sn ditto sample type	597960	5425820
97	HM		10	10	5	1				20	0.33%	<10	Sample wt = 35.05 gm ⇒ 6.71 ppm Sn	598040	5425800	
98	HM		2	10	5	<1	30	1	10	0.18%	20	Sample wt 40.04 gm. FERN TREE HILL GRID LINE 12 kg A ₂ seal ⇒ ~50gms trace dk leaves ⇒ 6.00 ppm	593320	5421000		
99	HM		2	15	5	<1	25	1	5	0.26%	30	Sample wt 25.53 gm ditto sample type ⇒ 5.53 ppm	593360	5421000		
800	HM		2	15	10	<1	25	1	5	1.03%	60	Sample wt 20.63 gm. ditto sample type - coarse tin visible 17-20 ppm.	593200	5421000		
01	M	-80 -20+80	5	30	30	1	25	1	2		15	30	80801 5801	598550	5432250	
02	M	-80 -20+80	2	20	10	1	15	1	2		<5	10	80802 5802	598180	5432520	
03	M	-80 -20+80	2	20	5	1	5	1	2		190	10	80803 5803	598050	5432680	
04	M	-80 -20+80	2	25	5	1	10	1	2		<5	<10	80804 5804	597980	5433010	
05	M	-80 -20+80	2	25	5	<1	5	1	2		15	<10	80805 5805	597830	5432860	
06	M	-80 -20+80	2	20	5	<1	<5	1	5		<5	<10	80806 5806	597540	5433310	
07	M	-80 -20+80	<2	20	2	<1	25	1	5		<5	<10		597620	5433380	
08	S		10	10	5	<1			10	1.00	<10	A ₂ bag and FERN TREE HILL 80808 5808	593300	5421000		
09	S		5	10	5	<1			5	2.15	<10	ditto	593260	5421000		
10	M	-80 -20+80	5	40	20	1	20	1	5		<5	10		597560	5433960	

044049

CSR LIMITED SAMPLE DATA SHEET



049

AREA GEORGES RIVER ELI/78 PROSPECT NUMBER 603
 STATE TA LOCATION _____ SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER REV SJH

LABORATORY REPORT NO. C 153 - AL3
 ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chips
 R - Rock
 Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	CHEMICAL ANALYSES (ppm)										SUMMARY DESCRIPTION	AML LOCATION		
		Cu	Pb	Zn	Ag	Mo	Se	N	Sample lot gms	E/W	N/E				
A 80781	S	5	15	5	<1	10	50	<10				ditto sample type	A ₂ longon	593080	5421000
82	S	10	20	10	<1	10	30	<10				" " "	C longon	593080	5421000
83	S	5	10	5	1	10	370	<10				" " "	A ₂ longon	593280	5421000
84	S	10	10	10	1	10	255	<10				" " "	C longon	593280	5421000
85	S	5	10	5	<1	10	125	<10				" " "	A ₂ longon	593320	5421000
86	S	5	10	5	<1	5	110	<10				" " "	C longon	593320	5421000
87	S	10	10	5	<1	10	85	<10				" " "	A ₂ longon	593360	5421000
88	S	5	15	5	1	10	55	<10				" " "	C longon	593360	5421000
89	S	5	10	10	<1	10	60	<10				" " "	A ₂ longon	593400	5421000
90	S	10	15	5	1	10	30	<10				" " "	C longon	593400	5421000
91	HM	5	10	5	1	10	400	<10	55.53	12 Kp	A ₂ soil → ~50 gms	→ 1.95 ppm Sn		594880	5427210
92	HM	10	15	10	1	20	345	30	37.36		ditto sample type	→ 1.07 ppm Sn		594810	5427540
93	HM	10	15	5	<1	10	0.13%	<10	69.36		" " "	Argonait Mine workings - wash zone in placed area - clay rich g/gose wash - high energy environment?		597590	5426100
94	HM	5	15	5	1	20	165	<10	45.38		ditto " "	7.5 ppm Sn ditto location but offer zone. 0.62 ppm Sn		597590	5426100
95	HM	5	15	5	1	10	0.53%	<10	59.88		ditto " "	White g/g sand core - also this what was placed by Argonait area - obvious Sn in leaches → 26.44 ppm Sn		598630	5425750

044050

CSR LIMITED SAMPLE DATA SHEET



050

AIRFA GEDALES RIVER
STATE TAS LOCATION _____

PROSPECT NUMBER 603
1:100,000 SHEET _____

DATE SAMPLED JAN 1980
SAMPLER REW 5TH

LABORATORY REPORT NO. C153 - ALS PTY LTD
ANALYTICAL METHOD Ca, Pb, Zn, Ag, Mo - AAS - (D)
Sn, Ni - XRF - 1A

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
Please state element

ADDITIONAL _____

SAMPLE NUMBER	DATE	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	AMB. LOCATION	
		Cu	Pb	Zn	Ag	SAMPLE WEIGHT	Cd	Mo	Sn	EM#	N#				
A 80766	HM	5	80	10		127.10		20	0.10%	<10	12 kg A ₂ soil → 50 grms; trace - minor db. leaves → 2.26 ppm Sn	597170	5427720		
67	HM	5	15	10		142.59		10	3.95	<10	ditto sample type considerable db. leaves → 1.40 ppm Sn	597420	5427810		
68	HM	10	10	5		144.73		15	0.87%	<10	FERN TREE HILL GRID 8 kg → ~50 grms. → 49.64 ppm "C" HORIZON clay → minor leaves	593280	5421000		
69	HM	5	10	5		160.57		20	2.15	<10	12 kg A ₂ soil (?) (Johnson Hill granite) → ~50 grms; trace db. leaves → 0.10 ppm Sn	587090	5433980		
70	HM	10	15	10		131.08		20	2.55	<10	" " " " " " → 0.05 ppm Sn	588010	5433770		
71	HM	10	10	5		172.50		10	1.37%	20	FERN TREE HILL GRID LINE → 82.77 ppm Sn 12 kg A ₂ soil → ~50 grms major tree leaves	593280	5421000		
72	HM	10	5	5		154.74		20	0.55%	<10	ditto sample type (1/2 qty of tin in above sample) → 25.09 ppm Sn	593240	5421000		
73	S	10	15	10		1		10	2.55	<10	FERN TREE HILL GRID LINE - AUGER SOIL SAMPLE A ₂ HORIZON - 9 1/2 oz sand	593240	5421000		
74	S	5	15	15		1		5	1.95	<10	ditto but clay rich "C horizon"	593240	5421000		
75	S	10	10	20		1		2	1.40	<10	ditto but A ₂ horizon	593200	5421000		
76	S	5	15	10		1		10	1.35	<10	ditto but C horizon	593200	5421000		
77	S	5	10	5		1		10	1.10	<10	ditto but A ₂ horizon	593160	5421000		
78	S	5	10	10		1		10	1.00	<10	ditto but C horizon	593160	5421000		
79	S	5	10	5		1		10	0.50	<10	ditto but A ₂ horizon	593120	5421000		
80	S	5	10	5		1		10	0.45	<10	ditto but C horizon	593120	5421000		

TCA 740

CSR LIMITED - SAMPLE DATA SHEET



Nº A0221 + C153 - ALS P1420

AREA GEORGE RIVER EL11/21
STATE TAS LOCATION _____

PROSPECT NUMBER 603
1:100,000 SHEET _____

DATE SAMPLED DEC/JAN 80
SAMPLER REV 5TH

LABORATORY REPORT NO. _____
ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - _____
M - Creek mud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
Please state element

ADDITIONAL _____

051

SAMPLE NUMBER	SAMPLE TYPE	APERTURE (mm) / DIAMETER (microns)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	AMC LOCATION			
			Cu	Pb	Zn	Ag	Bi	Cd	Mn	Sn	DATA	BASE NOS.			E/W	N/E		
A 80751	M	-80 -20+80	20	35	70	1	20	1	5								591760	5414730
52	M	-80 -20+80	10	25	60	1	25	2	2								591780	5414670
53	M	-80 -20+80	15	20	50	1	20	2	2								592000	5413890
54	M	-80 -20+80	10	20	65	1	20	1	2								592020	5413840
55	M	-80 -20+80	10	25	50	1	25	1	2								592270	5413780
56	M	-80 -20+80	15	30	50	1	25	1	5								592320	5413780
57	M	-80 -20+80	10	25	30	1	20	1	5								591160	5413960
58	M	-80 -20+80	2	15	20	<1	20	1	2					5758			589240	5439770
59	M	-80 -20+80	<2	10	15	<1	20	<1	2					5759			589480	5439650
60	M	-80 -20+80	<2	15	15	<1	20	1	2					5760			589750	5439280
61	HM		5	10	10	<1	37.41 9%		20	0.15%	<10	12kg Az soil → ~50gms	FERNTREE HILL GRID LINE				592660	5412060
													moist dark leaves → 4.67 ppm Sn				593120	5421000
62	HM		10	10	15		25.42		20	0.13%	<10	ditto sample type	moist dark leaves				592340	5412740
													→ 2.75 ppm Sn				593080	5421000
63	HM		10	10	10	<1	48.55		150	0.11%	<10	" " " "	" " " "				5904	5421000
													→ 4.45 ppm				593040	5421000
64	HM		5	10	10		152.22		10	8.85	<10	" "	trace leaves				593400	5421000
													→ 3.76 ppm					
65	HM		5	10	5	<1	62.52		20	7.90	<10	" "	trace leaves				593360	5421000
													→ 4.12 ppm					

044052

CSR LIMITED SAMPLE DATA SHEET



052

AREA GEORGES RIVER
STATE TAS LOCATION _____

PROSPECT NUMBER 603
SHEET _____

DATE SAMPLED JAN 80
SAMPLER REN.

LABORATORY REPORT NO. C153 - ALS, Pty Ltd
ANALYTICAL METHOD Cu Pb Zn Ag Mo - AAS - W
Sn W - XRF - IA

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
SA - Soil Auger, TIC - Drill Core,
RP - Percussion Chips
R - Rock
ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	DEPTH (cm)	APERTURE (mm)	CHEMICAL ANALYSES (ppm)							Sample wt. gms	SUMMARY DESCRIPTION	AMG. LOCATION	
			Cu	Pb	Zn	Ag	Mo	Sn	W			E/W	N/E
A 80746 ND			10	10	5	< 1	15	2.21%	40	40.44	FERNTREE HILL GRID LINE 12 kg Ag soil → 50 gms moderate calcareous → 74.47 ppm Sn	593280	5421000
47 HM			10	10	15	< 1	20	0.25%	< 10	23.00	ditto sample type → 4.79 ppm Sn	593320	5421000
48 HM			5	10	5	< 1	20	0.36%	< 10	68.99	ditto sample type moderate calcareous → 20.55 ppm Sn	593290	5421000
49 HM			5	10	5	< 1	20	0.44%	< 10	40.37	ditto sample type " " " → 14.80 ppm Sn	593200	5421000
50 HM			2	10	5	< 1	20	0.32%	< 10	50.07	" " " " dk leaves → 13.35 ppm	593160	5421000

044053

CSR LIMITED SAMPLE DATA SHEET



053

AREA GEORGE'S RIVER ELIHT PROSPECT NUMBER 603
 STATE TAS LOCATION _____ SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER REW STM

LABORATORY REPORT NO. C153-ALS
 ANALYTICAL METHOD Cu Pb Zn Ag Mo - AAS - 0
Sn W - XRF - 1A

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chips
 R - Rock
 ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	APPROXIMATE DEPTH (METERS)	CHEMICAL ANALYSES (ppm)										Sample wt. gms	SUMMARY DESCRIPTION	AMG. LOCATION	
			Cu	Pb	Zn	Ag	Mo	Sn	W	ED#	N#					
A 80731	HM		5	5	5	1	15	105	<10	46.67	12 kg Ag soil passed to ~ 50gms	→ 0.40 ppm Sn	597420	542254C		
32	HM		10	10	5	1	15	30	<10	50.20	ditto sample type	virtually no leaves	→ 0.125 ppm Sn	597080	542157C	
33	HM		5	10	10	1	15	65	<10	99.97	" "	nil leaves	→ 0.27 ppm Sn	596960	541791C	
34	HM		5	10	5	<1	20	10	40	21.57	" "	nil leaves	→ 0.018 ppm Sn	596310	541754C	
35	HM		5	5	5	<1	15	100	200	56.06	" "	minor leaves	→ 0.46 ppm Sn	596340	541837C	
36	HM		2	10	5	1	20	255	30	92.70	" "	minor leaves (magnolia / laurel?)	→ 0.91 ppm Sn	594110	541802C	
37	HM		5	10	10	1	15	85	<10	43.79	" "	trace leaves	→ 0.31 ppm Sn	593720	542100C	
38	HM		2	5	5	<1	15	0.1%	<10	55.24	" "		→ 5.06 ppm Sn	593680	542104C	
39	HM		5	5	5	<1	10	5.65	<10	59.98	" "	minor content	→ 2.30 ppm Sn	596120	542476C	
40	HM		10	130	50	1	10	5.5%	390	6.77	MC 64M/77 4 gals (24 kg) of creek wash being sliced.		596430	542600C		
											- 50% of leaves are camellia	→ 71-63 ppm Sn				
												15.82				
41	HM		5	105	40	1	10	7.17%	500	6.77	ditto - coarse wash zone at base of post slicing.		596430	542600C		
												→ 40-45 ppm Sn				
												20.22				
42	HM		5	10	5	<1	10	65	<10	65.77	12 kg of stream bed	→ 500 gms	→ 0.35 ppm Sn	595260	542794C	
43	HM		10	5	5	1	15	40	<10	40.65	12 kg Ag soil	→ ~ 50gms	- trace dark leaves	→ 0.13 ppm Sn	592760	541786C
											ditto sample type		considerable leaves	→ 0.11 ppm Sn	592510	541666C
45	HM		5	15	10	<1	15	5.15	<10	52.13	" "		base camellia	→ 2.24 ppm Sn	593850	542157C

044054

CSR LIMITED SAMPLE DATA SHEET



054

AREA GEORGES RIVER EL11/78 PROSPECT NUMBER 603
 STATE TAS LOCATION _____ SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER RAW. S.H

LABORATORY REPORT NO. ALS. C153
 ANALYTICAL METHOD Cu, Pb, Zn, Ag, Mo - AAS - 1
Sn, W XRF - 1A

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chips
 R - Rock
 ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	DEPTH (m)	CHEMICAL ANALYSES (ppm)									SUMMARY DESCRIPTION	AMC LOCATION	
		Cu	Pb	Zn	Ag	Mo	Sn	W	NE Sample gun	E#		N#	
A 80716	HM	5	10	10	1	10	0.15	<10	28.99	12 kg A ₂ soil panned to ~50gms → 3.75 ppm Sn	597080	542550C	
17	HM	5	10	10	1	15	3.70	<10	19.91	diff sample type. - fine leaves → 0.61 ppm Sn	593770	542523C	
18	HM	2	15	10	1	10	1.75	<10	25.36	" " - trace leaves → 0.37 ppm Sn	592700	542210C	
19	HM	5	5	5	<1	10	5	<10	45.01	" " - trace leaves → 0.019 ppm Sn	591630	541859C	
20	HM	2	10	5	<1	10	10	<10	91.13	" " - trace leaves → 0.03 ppm Sn	590870	542277C	
21	HM	10	20	20	1	10	10	<10	70.28	" " " " → 0.06 ppm Sn	589020	542252C	
22	HM	5	10	10	1	10	35	<10	37.88	" " fine leaves → 0.11 ppm Sn	594770	542831C	
23	HM	5	15	5	1	10	105	110	69.09	" " v. fine leaves → 0.60 ppm Sn	595050	542581C	
24	HM	5	25	10	<1	15	5	30	54.62	" " v. fine leaves → 0.023 ppm Sn	590790	542843C	
25	HM	10	15	30	1	20	5	<10	44.38	" " " " → 0.018 ppm Sn	589800	542720C	
26	HM	5	15	5	1	15	5	<10	71.72	" " " " → 0.03 ppm Sn	590440	542701C	
27	HM	10	10	5	<1	15	1.55	190	32.01	" " " " → 41.34 ppm Sn	593010	542900C	
28	HM	2	10	45	1	15	0.15	<10	32.92	" " " " → 3.56 ppm Sn	593460	542000C	
29	HM	2	10	5	<1	10	190	<10	60.48	" " " " → 0.96 ppm Sn	592680	541870C	
30	HM	5	10	5	1	20	70	<10	30.43	" " trace affluents → 0.178 ppm Sn	597220	542238C	

044055

CSR LIMITED SAMPLE DATA SHEET



055

AREA GEORGES RIVER EC 11/78
STATE TAS LOCATION _____

PROSPECT NUMBER 603
SHEET _____

DATE SAMPLED JAN 1980
SAMPLER REW/SUH

LABORATORY REPORT NO. C153-ALS PTY LTD
ANALYTICAL METHOD Cu, Pb, Zn, Ag, Mo - AAS
Sn, Ni - XRF-1A

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
SA - Soil Auger, IC - Drill Core,
RP - Percussion Chips
R - Rock
ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	DEPTH (m)	CHEMICAL ANALYSES (ppm)								SUMMARY DESCRIPTION	AMC LOCATION	
		Cu	Pb	Zn	Ag	Mo	Sn	W	SAMPLE Wt (gms)		EN#	N#
80701HM		10	10	10	1	20	1.80	<10	25.72	12 Kgs of A ₂ HORIZON SOIL PANNED ~ 50gms. - 9/3 but trace low: on Rillalake → 4072 ppm Sn	597480	5424490
02HM		10	10	15	1	40	1.25%	30	9.59	ditto sample - more tin present - rusty red + fine black → 9.98 ppm Sn	597580	5424500
03HM		10	10	15	1	30	0.29	<10	8.49	ditto sample type: → 2.05 ppm Sn	597650	5424590
04HM		2	10	10	1	10	4.20	<10	51.71	ditto sample type: thin soil - mainly kaolin. → 1.80 ppm Sn	597340	5424580
05HM		2	10	10	1	20	7.20	<10	16.73	" " trace tin → 1.00 ppm Sn	593770	5423390
06HM		2	10	10	1	10	6.95	<10	28.13	" " sand from sandpit → 1.63 ppm Sn	593740	5423490
07HM		10	10	25	1	20	0.23	<10	10.58	" " : from granite % area upslope from water race PWD sandpit - Big Creek → 2.02 ppm Sn	595880	5427760
08HM		5	15	15	1	10	0.24	<10	24.49	" " : piled sand in sandpit → 4.90 ppm Sn	595980	5427860
09HM		5	10	5	<1	20	0.41	760	29.66	" " : minor trace tin → 10.13 ppm Sn	593110	5420940
10HM		5	5	5	1	10	8.70	<10	32.66	" " " → 2.37 ppm Sn	593340	5420970
11HM		5	10	5	1	10	15	<10	23.97	" " : from soil amongst % of Conistables Creek granite - leaves look like element only. → 0.03 ppm Sn	591590	5417650
12HM		10	15	10	1	20	80	<10	15.53	" " " → 0.10 ppm Sn	591890	5416620
13HM		5	10	10	<1	15	0.19	<10	32.00	" " - very fine leaves → 5.06 ppm Sn	593360	5420790
14HM		5	10	10	1	20	0.37	50	19.59	" " " → 6.04 ppm Sn	593410	5420850
15HM		5	10	10	1	10	35	<10	28.94	" " " → 0.089 ppm Sn	594310	5424800

044056

CSR LIMITED SAMPLE DATA SHEET



056

AHCA GEORGES RIVER EL 11/78 PROSPECT NUMBER 603
 STATE TAS LOCATION _____ SHEET _____

DATE SAMPLED DEC/5AN 1980
 SAMPLER REW / SJH.

LABORATORY REPORT NO. _____
 ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chips
 R - Rock
 ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	APERTURE (mm) OR (MICROSI)	CHEMICAL ANALYSES (ppm)										W	DATA BASE NO.	SUMMARY DESCRIPTION	AMG LOCATION	
			Ca	Pb	Zn	Ag	Bi	Cd	Mn	Se	ENR	N#					
A 80691	M	-80	2	15	15	<1	10	<1	2				5691		592540	543335C	
		-20+80										10	<10				
92	M	-80	2	10	10	<1	15	<1	2				5692		592780	543413C	
		-20+80										<5	<10				
93	M	-80	5	20	45	1	15	<1	2				5693		591300	541632C	
		-20+80										<5	<10				
94	M	-80	2	10	15	<1	10	1	2						591230	541646C	
		-20+80										<5	<10				
95	M	-80	2	10	15	1	15	<1	2						590600	541631C	
		-20+80										<5	10				
96	M	-80	2	10	15	1	5	<1	<2						590080	541633C	
		-20+80										<5	<10				
97	M	-80	10	30	50	1	15	<1	2						590490	541585C	
		-20+80										<5	<10				
98	M	-80	15	40	55	1	10	1	2						590530	541579C	
		-20+80										<5	10				
99	M	-80	15	30	60	1	10	1	5				5699		591510	541529C	
		-20+80										5	<10				
A 80700	M	-80	5	20	45	1	15	1	2				5700		591710	541563C	
		-20+80										<5	<10				

044057

CSR LIMITED SAMPLE DATA SHEET



AREA GEORGES RIVER EL 11/78 PROSPECT NUMBER 603
 STATE TAS LOCATION _____ SHEET _____

DATE SAMPLED DEC/JAN 1980
 SAMPLER _____

LABORATORY REPORT NO. _____
 ANALYTICAL METHOD _____

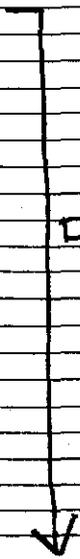
NOTATIONS: SAMPLE TYPE — M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chips
 R - Rock
 ANALYSES: Please state element

ADDITIONAL _____

057

SAMPLE NUMBER	SAMPLE TYPE	DEPTH (m)	CHEMICAL ANALYSES (ppm)										SUMMARY DESCRIPTION	AMG LOCATION			
			Ca	Pb	Zn	Ag	Bi	Cl	Mo	Su	W	EM		NIS			
A 80676	M	-80 -20+80	2	20	15	1	20	1								595020	541280
77	M	-80 -20+80	2	20	10	1	20	1								595370	5412520
75	M	-80 -20+80	10	25	30	1	10	1	10							595200	5413670
74	M	-80 -20+80	10	35	30	1	10	1	10							594900	5413800
80	M	-80 -20+80	2	15	20	1	15	<1	5							594900	5414280
81	M	-80 -20+80	2	20	25	1	5	1	10							594800	5414240
82	M	-80 -20+80	10	45	45	1	10	2	5							594800	5414300
83	M	-80 -20+80	15	50	45	1	20	1	10							594970	5414500
84	M	-80 -20+80	5	35	50	1	10	2	5							594350	5414540
85	M	-80 -20+80	10	35	50	1	10	1	<2							594080	5414880
86	M	-80 -20+80	<2	15	20	<1	5	1	5							588380	5434900
87	M	-80 -20+80	5	20	20	1	15	1	2							588800	5434620
88	M	-80 -20+80	2	15	20	<1	15	<1	5							589790	5439930
89	M	-80 -20+80	5	10	10	<1	10	<1	2							589850	5439850
90	M	-80 -20+80	2	15	15	<1	15	<1	5							589250	5440920

DATA BASE NOS 5684-5690



044058

CSR LIMITED SAMPLE DATA SHEET



059

AREA GEORGES RIVER EL 11/78
STATE TAS LOCATION _____

PROSPECT NUMBER 603
1:100,000 SHEET _____

DATE SAMPLED _____
SAMPLER _____

LABORATORY REPORT NO. _____
ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	DEPTH (meters)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	AMG LOCATION		
			Ca	Pb	Zn	Ag	Bi	Cl	Mn	Sn	EN	N#					
A 80146	M	-80 -20+80	5	20	95	1	25	1								589820	5415000
													10	-10		592320	5414870
A7	M	-80 -20+80	5	20	45	1	25	1								592090	5414300
													5	20		592540	5414140
48	M	-80 -20+80	5	25	45	3	25	1								592760	5414560
													5	10			
49	M	-80 -20+80	2	20	35	1	15	1								593160	5414740
													10	30			
50	M	-80 -20+80	5	25	45	1	25	1								593360	5415100
													5	10			
51	M	-80 -20+80	5	25	55	1	35	2								589520	5420720
													5	10			
52	M	-80 -20+80	2	15	95	1	20	1								589400	5420700
													10	20			
* 53	M	-80 -20+80	20	30	115	1	30	2							5653	589310	5411670
													5	20			
* 54	M	-80 -20+80	5	25	75	1	25	1							5654	589620	5411360
													5	10			
* 55	M	-80 -20+80	10	25	80	1	20	1							5655	589580	5411300
													-5	10			
56	M	-80 -20+80	10	25	80	1	20	1								590560	5412500
													5	20			
57	M	-80 -20+80	5	15	50	1	15	1								590550	5412530
													-5	20			
58	M	-80 -20+80	5	20	70	1	25	1								591010	5412530
													-5	-10			
59	M	-80 -20+80	5	25	95	1	25	1								591400	5412340
													10	10			
60	M	-80 -20+80	5	20	50	1	15	1								592060	5412180
													10	-10			

044060

CSR LIMITED SAMPLE DATA SHEET



AREA GEORGE RIVER ELLI/28 PROSPECT NUMBER 603
 STATE TAS LOCATION _____
 SHEET _____

DATE SAMPLED JAN 1980
 SAMPLER REW/SJH

LABORATORY REPORT NO. _____
 ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
 SA - Soil Auger, RC - Drill Core,
 RP - Percussion Chipt
 R - Rock
 ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	DEPTH (m)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	A.M.C. LOCATION		
			Cu	Pb	Zn	Ag	Bi	Cd	Mn	Sn	E/W	N/E					
A 8063.1	M	-8.0	5	15	35	1	15	1								590.100	542.4260
		-20+80										10	10				
32	M	-8.0	5	15	35	1	20	1								589.800	542.4190
		-20+80										5	20				
33	M	-8.0	2	15	35	1	15	1								589.600	542.4200
		-20+80										15	20				
34	M	-8.0	-2	15	10	-1	15	-1								590.000	542.5860
		-20+80										10	30				
35	M	-8.0	5	25	10	-1	25	1								590.500	541.8760
		-20+80										5	30				
36	M	-8.0	5	20	15	1	25	1								590.420	541.8900
		-20+80										5	30				
37	M	-8.0	-2	10	15	-1	15	1								590.400	541.9200
		-20+80										5	20				
38	M	-8.0	2	10	20	1	15	1								590.120	541.9300
		-20+80										5	30				
39	M	-8.0	-2	15	30	-1	20	1								590.080	541.9580
		-20+80										10	10				
40	M	-8.0	-2	20	45	1	20	1								589.480	541.9740
		-20+80										10	10				
41	M	-8.0	2	15	45	1	20	1								589.700	541.9900
		-20+80										-5	10				
42	M	-8.0	2	20	65	1	25	1								589.840	542.0120
		-20+80										15	-10				
43	M	-8.0	2	10	20	-1	15	1								589.770	542.0180
		-20+80										15	30				
44	M	-8.0	5	15	20	1	20	1								592.650	541.5640
		-20+80										5	30				
45	M	-8.0	10	25	75	1	30	1								592.740	541.5280
		-20+80										5	10				

DATE TABLE NO. / 5644
 / 5645

04A061

CSR LIMITED SAMPLE DATA SHEET



061

AREA GEDDES RIVER EL11/78
STATE TAS LOCATION _____

PROSPECT NUMBER 603
1:100,000 SHEET _____

DATE SAMPLED JAN 1980
SAMPLER REW.

LABORATORY REPORT NO. _____
ANALYTICAL METHOD _____

NOTATIONS: SAMPLE TYPE - M - Creek/mud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
ANALYSES: Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	DEPTH (METERS / FEET)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	AMG - LOCATION		
			Cu	Pb	Zn	Ag	Bi	Cd	Mo	Sn	ENR	N/R					
A 30616	M	-80 -20+80	2	25	15	1	25	1							Stream < 1 m wide	590310	5425410
17	M	-80 -20+80	2	15	20	1	25	1							" 2m "	590440	5425440
18	M	-80 -20+80	2	10	45	-1	20	1								592420	5427040
19	M	-80 -20+80	15	35	65	2	60	3								592520	5431700
20	M	-80 -20+80	2	20	60	1	35	2								593320	5432400
21	M	-80 -20+80	5	20	45	1	30	2								593200	5432400
22	M	-80 -20+80	2	5	15	-1	15	1								593060	5432060
23	M	-80 -20+80	-2	10	15	-1	15	1								592850	5431910
24	M	-80 -20+80	2	10	20	1	15	1								592050	5431240
25	M	-80 -20+80	5	15	20	1	15	1								591230	5417200
26	M	-80 -20+80	5	15	50	1	25	1								591110	5417160
27	M	-80 -20+80	5	15	25	1	20	1								590940	5417190
28	M	-80 -20+80	5	15	45	1	25	2								590570	5417420
29	M	-80 -20+80	-2	10	30	-1	15	1								590680	5417850
30	M	-80 -20+80	-2	10	30	1	15	1								590300	5418060

DATA BASE NOS 5619-5626

044062

CSR LIMITED SAMPLE DATA SHEET



062

AREA GEORGE RIVER
STATE MS LOCATION EL 1/75

PROSPECT NUMBER 603
1:100,000 SHEET

DATE SAMPLED DEC 79
SAMPLER

LABORATORY REPORT NO.
ANALYTICAL METHOD

NOTATIONS: SAMPLE TYPE - M - Creek mud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
ANALYSES: Please state element

ADDITIONAL

AML

SAMPLE NUMBER	DEPTH (FEET)	APPROXIMATE DEPTH (MICROINCHES)	CHEMICAL ANALYSES (ppm)								W	SUMMARY DESCRIPTION	LOCATION			
			Cu	Pb	Zn	Ag	Bi	Cl	Mo	Sn			E#	N#		
A	8.00	M	-80	15	15	15	1	25	1			5	-10	Creek < 1 m wide	594370	543330
	-20+80															
C.1	8.00	M	-80	20	10	25	1	25	1			10	-10	Stream < 1/2 m wide	594310	543350
	-20+80															
C.3	8.00	M	-80	65	20	50	1	30	1			5	50	Stream - broad base - no defined bed.	594260	5434050
	-20+80															
C.4	8.00	M	-80	10	15	45	1	20	1			15	-10		594430	5433400
	-20+80															
C.5	8.00	M	-80	25	20	60	1	35	2			-5	-10	Swampy	594700	5434180
	-20+80															
C.6	8.00	M	-80	5	15	20	1	20	1			5	-10	Swampy	594830	5434140
	-20+80															
C.7	8.00	M	-80	2	15	15	1	25	1			15	-10		595420	5434600
	-20+80															
C.8	8.00	M	-80	5	20	35	1	15	1			-5	10	DATE (BASE NO) 5608	594750	5432450
	-20+80															
C.9	8.00	M	-80	2	10	25	1	20	1			-5	-10	5609	594600	5432260
	-20+80													5'		
C.10	8.00	M	-80	2	15	15	1	15	1			15	30	Poor stream - virtually a soil sample 5610	594180	5431480
	-20+80															
C.11	8.00	M	-80	2	15	30	1	15	1			-5	10	Poor stream - vegetated gully	587480	5428740
	-20+80															
C.12	8.00	M	-80	2	15	15	1	15	1			15	30	" " " "	587700	5428750
	-20+80															
C.13	8.00	M	-80	2	15	35	1	25	1			10	-10	Well defined stream	587850	5428340
	-20+80															
C.14	8.00	M	-80	5	15	35	1	25	1			-5	10	" "	588020	5428960
	-20+80															
C.15	8.00	M	-80	2	15	25	1	25	1			15	-10	" "	588850	5429450
	-20+80															

044063

CSR LIMITED SAMPLE DATA SHEET



063

AREA GEORGES RIVER
STATE TAS LOCATION _____

PROSPECT NUMBER 603
1:100,000 SHEET _____

DATE SAMPLED JAN '80
SAMPLER REW.

LABORATORY REPORT NO. ALS. 8005
ANALYTICAL METHOD Cu Pb Zn Ag Bi Cl Mo - AAS
Sr. W. XRF

NOTATIONS: SAMPLE TYPE - M - Creekmud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
Please state element

ADDITIONAL _____

SAMPLE NUMBER	SAMPLE TYPE	ANALYSIS METHOD	CHEMICAL ANALYSES (ppm)									W	SUMMARY DESCRIPTION	LOCATION		
			Cu	Pb	Zn	Ag	Bi	Cl	Mo	Sr	E/W			N/S		
80546	R		2	10	30	<1	15				265	<10	FERNREE HILL CONT'D Fragment of tourmaline vein.			
547	R		20	15	80	1	35				415	20	FERNREE HILL SLICED CREEK 300m S of 5421000 NW pegged line Heavily gneissous granite from behind of head of sliced creek.			
548	R		15	15	75	1	40				315	10	ditto			
549	R		10	10	80	1	35				610	20	ditto			
550	R		5	15	55	1	30				195	<10	" " + 20m S - gneissous granite on waste rock dump			
551	R		5	15	70	1	35				200	10	" " "			
552	R		2	15	45	1	20				245	<10	" " "			
553	R												Some piece of sample as 552			
554	R		5	15	50	1	20				350	10	ditto location; gneissous granite			
555	R		5	15	70	<1	20				55	10	ditto; aplite			
556	R												ditto (same sample as 555)			
557	R		2	15	20	1	25				730	<10	ditto; gneissous granite with tourmaline vein			
558	R		5	20	50	1	30				370	20	" gneissous granite			
559	R		2	15	40	1	25				365	20	" " (same piece)			
550A	R															

044064

CSR LIMIT SAMPLE DATA SHEET



064

AREA GEORGES RIVER

PROSPECT NUMBER 603

DATE SAMPLED JAN 80

LABORATORY REPORT NO. _____

NOTATIONS: SAMPLE TYPE - M - Creek Mud, S - Soil
SA - Soil Auger, RC - Drill Core,
RP - Percussion Chips
R - Rock
Please state element

ADDITIONAL _____

STATE TAS. LOCATION _____

1:100,000 SHEET _____

SAMPLER RE.V.

ANALYTICAL METHOD _____

ANALYSES: _____

SAMPLE NUMBER	SAMPLE TYPE	ANALYSES (ppm)	CHEMICAL ANALYSES (ppm)										W	SUMMARY DESCRIPTION	LOCATION		
			Cu	Pb	Zn	Ag	Bi	Cd	Mn	Sn	E/W	N/S					
A 80524	R		<2	5	2	<1	15						<5	<10	dillo 80523		
525	R		<2	15	15	<1	20						10	30	MC 5W/77 - albite filled margin of 6" dyke exposed in weathered granite in "tailrace" of dam.		
526	R		<2	15	10	<1	25						<5	<10	dillo		
527	R		2	15	40	<1	30						<5	<10	MC 5W/77 N side of creek below tailrace - rotten pink coloured altered granite (biotite is greisenous)		
528	R		2	20	45	<1	20						10	<10	dillo		
529	R		2	15	70	<1	25						5	<10	dillo but fresher		
530	R		2	15	55	<1	30						10	<10	dillo 29 but biotite → greisen		
531	R		2	15	30	2	30						5	<10	FERN TREE HILL - SQUICED AREA 200m N of 5421 000m N pegged line - very rotten granite		
532	R		5	10	20	1	15						10	<10	dillo		
533	R		2	10	20	1	15						70	10	" full albite in above dillo		
534	R		2	10	25	1	25						100	<10	" " of albite float - near look greisenous		
535	R		2	15	20	1	15						15	10	" " Rotten granite		
536	R		2	15	25	1	20						20	10	" " Weathered greisenous granite		
537	R		2	10	25	1	20						30	-10	" " " "		
538	R		2	15	25	<1	25						35	10	" " less weathered greisenous granite		
539	R		<2	10	20	<1	15						25	<10	" " " "		
540	R		<2	15	15	1	30						65	10	" " " "		
541	R		5	15	30	<1	25						18.5	<10	" " " "		
542	R		2	10	10	<1	15						30	<10	" " wally or biotite granite		
543	R		<2	10	15	1	15						35	<10	" " float of wally greisenous granite with 1cm wide laminae in (25% or natural)		
544	R		2	10	15	1	25						20	<10	" " but less laminae		
545	R		2	10	10	<1	20						35	<10	" " " "		

044065

066

04400

APPENDIX III

SAMPLE DATA SHEETS

GEOPHOTO STREAM SEDIMENT SAMPLING PROGRAMME

167

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

Phone: 74 2055
 74 1062
 Cables: Exserv
 Perth

JAN 24 '69 3

Lab. Sheet No. 1676/9 Field Sheet No. 6745

SAMPLE	CU	PS	Z	AG	SH	TS
SH 1	5	10	10	BLD	BLD	25
SH 2	5	10	10	BLD	2	30
SH 3	5	60	20	BLD	BLD	25
SH 4	5	20	15	BLD	2	25
SH 5	10	50	20	BLD	BLD	25
SH 6	5	10	30	BLD	BLD	35
SH 7	5	20	40	BLD	4	10
SH 8	5	20	40	BLD	2	15
SH 9	5	20	20	BLD	2	BLD
SH 10	BLD	20	20	BLD	4	BLD
SH 11	5	20	15	BLD	BLD	BLD
SH 12	5	20	15	BLD	BLD	15
SH 13	5	50	20	BLD	4	10
SH 14	5	50	20	BLD	4	15
SH 15	10	20	20	BLD	4	BLD
SH 16	5	20	20	BLD	2	15
SH 17	5	20	20	BLD	2	BLD
SH 18	5	50	20	BLD	6	15
SH 19	5	20	15	BLD	4	15
SH 20	10	50	50	BLD	6	15
SH 21	5	15	50	BLD	6	20
SH 22	10	20	25	BLD	6	15
SH 23	5	20	15	BLD	4	15
SH 24	5	10	15	BLD	4	15
SH 25	5	10	50	BLD	8	15
SH 26	5	20	20	BLD	6	15
SH 27	5	15	15	BLD	6	BLD
SH 28	5	20	15	BLD	BLD	15
SH 29	5	20	20	BLD	BLD	20
SH 30	5	50	20	BLD	BLD	15
SH 31	5	20	50	BLD	BLD	15
SH 32	5	20	50	BLD	BLD	15
SH 33	5	20	40	BLD	2	20
SH 34	10	20	50	BLD	2	25
SH 35	5	20	50	BLD	BLD	25
SH 36	BLD	15	50	BLD	BLD	30
SH 37	10	20	20	BLD	BLD	25
SH 38	25	20	50	BLD	4	20
SH 39	5	30	50	BLD	4	20
SH 40	10	20	50	BLD	4	20
SH 41	10	20	50	BLD	4	20
SH 42	300	25	50	BLD	BLD	15
SH 43	15	30	50	BLD	4	20
SH 44	45	20	50	BLD	4	20
SH 45	5	20	50	BLD	2	25
SH 46	5	20	50	BLD	2	20
SH 47	BLD	20	50	BLD	BLD	20
SH 48	5	50	20	BLD	2	10
SH 49	5	20	20	BLD	6	10
SH 50	10	20	50	BLD	6	10
SH 51	15	15	50	BLD	6	20
SH 52	5	50	50	BLD	BLD	15
SH 53	15	50	50	BLD	4	15
NET	1015	1015	115	101	102	22

U68

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

JAN 24 '69 3

Phone: 74
74
Cables: E
F

Lab. Sheet No. 1626/10 Field Sheet No. 6744

SAMPLE	CU	PS	Z	AS	BI	MO
SH 53	5	20	30	L	2	15
SH 54	5	20	30	BLD	2	10
SH 55	10	40	25	BLD	2	15
SH 56	5	25	20	BLD	BLD	20
SH 57	5	20	15	BLD	4	20
METHOD						

U6

VIRUV

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

JAN 24 '69 2

74 10

Cables: Exsc
 Pert

Lab. Sheet No. 1644/1 Field Sheet No. 6747

SAMPLE	CU	PS	Zn	AG	BI	MO
SH 58	15	15	40	BLD	6	20
SH 59	65	30	30	BLD	18	15
SH 60	15	20	20	BLD	12	15
SH 61	10	10	15	BLD	6	10
SH 62	10	10	15	BLD	2	10
SH 63	5	10	10	BLD	6	10
SH 64	10	10	25	BLD	4	10
SH 65	10	10	15	BLD	4	10
SH 66	10	15	15	BLD	4	15
SH 67	5	20	20	BLD	4	15
SH 68	5	20	15	BLD	6	20
SH 69	10	45	25	BLD	4	10
SH 70	5	25	30	BLD	6	10
SH 71	25	15	30	BLD	12	10
SH 72	10	20	20	BLD	8	BLD
SH 73	10	25	30	BLD	12	10
SH 74	10	25	25	BLD	2	BLD
SH 75	5	25	20	BLD	12	10
SH 76	15	15	30	BLD	4	15
SH 77	20	10	30	BLD	6	15
SH 78	15	30	45	BLD	8	10
SH 79	10	25	25	BLD	12	15
SH 80	10	15	15	BLD	8	15
SH 81	5	10	10	BLD	10	10
SH 82	10	15	10	BLD	2	10
SH 83	10	10	20	BLD	8	10
SH 84	10	15	30	BLD	10	15
SH 85	10	20	15	BLD	BLD	15
SH 86	10	10	25	BLD	BLD	10
SH 87	20	10	100	BLD	6	15
SH 88	15	15	30	BLD	2	15
SH 89	10	20	10	BLD	12	10
SH 90	10	30	10	BLD	6	15
SH 91	5	25	15	BLD	6	15
SH 92	10	75	20	BLD	6	15
SH 93	5	30	25	BLD	6	15
SH 94	15	15	35	BLD	BLD	BLD
SH 95	15	15	10	BLD	4	15
SH 96	10	10	30	BLD	BLD	15
SH 97	10	15	35	BLD	4	15
SH 98	15	15	55	BLD	4	20
METHOD	101B	101B	101B	101B		

SAMPEY EXPLORATION SERVICES

237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE

No. OF COPIES

MAR 10 '69 2

Phone: 74 2088
74 1062

Cables: Exserv
Perth.

Lab. Sheet No. 1751/1

Field Sheet No. 6587

SAMPLE	CU	PB	ZN	AG	BI	MO
SH 99	5	20	50	BLD	2	10
SH 100	5	25	95	BLD	16	10
SH 101	20	25	45	BLD	BLD	10
SH 102	5	20	20	BLD	2	10
SH 103	5	20	15	BLD	BLD	10
SH 104	10	30	70	BLD	2	10
SH 105	5	20	40	BLD	2	10
SH 106	5	20	25	BLD	BLD	10
SH 107	5	20	40	BLD	2	10
SH 108	5	30	60	BLD	2	10
SH 109	10	15	45	BLD	4	10
SH 110	10	15	40	BLD	8	10
SH 111	5	15	25	BLD		
SH 112	5	15	25	BLD		
SH 113	5	10	30	BLD		
SH 114	5	20	35	BLD		
SH 115	5	20	45	BLD		
SH 116	BLD	15	30	BLD		
SH 117	5	10	15	BLD		
SH 118	5	20	25	BLD		
SH 119	5	15	10	BLD		
SH 120	5	15	15	BLD		
SH 121	5	10	20	BLD	2	10
SH 122	5	5	10	BLD	2	10
SH 123	10	10	135	BLD	6	10
SH 124	5	10	40	BLD	8	10
SH 125	25	10	20	BLD	4	10
SH 126	20	10	75	BLD		
SH 127	10	10	45	BLD	8	10
SH 128	10	5	20	BLD	4	20
SH 129	10	5	45	BLD	4	20
SH 130	5	5	10	BLD	2	10
SH 131	5	10	60	BLD	4	20
SH 132	5	10	10	BLD	2	20
SH 133	5	20	10	BLD	2	20
SH 134	5	20	10	BLD	6	20
SH 135	5	10	20	BLD	8	20
SH 136	10	10	45	BLD	10	20
SH 137	10	10	15	BLD	4	20
SH 138	5	15	10	BLD	4	20
SH 139	15	15	25	BLD	2	10
SH 140	10	15	55	BLD	10	10
SH 141	15	15	45	BLD	8	10
SH 142	10	15	45	BLD	6	20
SH 143	15	30	50	BLD	10	30
SH 144	10	25	60	BLD	8	30
SH 145	5	30	45	BLD	6	20
SH 146	15	30	25	BLD		
SH 147	5	10	35	BLD		
SH 148	5	10	40	BLD		
SH 149	5	10	35	BLD		
SH 150	5	10	35	BLD	6	10
METHOD	101B	101B	101B	101B	102	M02

071

044072

237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

MAR 10 '69 2

74 1062
Cables: Exserv
Perth.

Lab. Sheet No. 1751/2 Field Sheet No. 6238

SAMPLE	CU	PB	ZN	AG	BI	MO
SH 151	10	10	45	BLD	6	20
SH 152	10	10	25	BLD		
SH 153	10	10	25	BLD		
SH 154	10	10	40	BLD		
SH 155	10	10	45	BLD		
SH 156	5	10	25	BLD		
SH 157	5	5	20	BLD		
SH 158	10	10	120	BLD		
SH 159	50	10	25	BLD		
SH 160	30	10	25	BLD		
SH 161	5	10	10	BLD	2	10
SH 163	5	10	20	BLD	2	20
SH 164	BLD	10	15	BLD	4	20
SH 165	5	10	10	BLD	2	20
SH 167	5	5	10	BLD	BLD	20
SH 168	BLD	5	10	BLD	14	20
SH 169	5	5	5	BLD	2	40
SH 170	5	5	10	BLD	BLD	20
SH 171	5	5	15	BLD	2	20
SH 172	5	5	15	BLD	2	10
SH 173	5	5	50	BLD	2	20
SH 174	10	10	30	BLD	2	20
SH 175	15	5	25	BLD	2	20
SH 176	10	5	15	BLD	2	20
SH 177	5	5	10	BLD	2	BLD
SH 178	5	10	10	BLD	2	10
SH 179	5	5	10	BLD	2	10
SH 180	5	5	5	BLD		
SH 181	10	5	35	BLD		
SH 182	10	10	40	BLD		
SH 183	5	10	10	BLD		
SH 184	5	5	20	BLD		
SH 185	5	5	20	BLD		
SH 186	5	10	35	BLD		
SH 187	10	10	40	BLD		
SH 188	10	10	35	BLD		
SH 189	10	10	20	BLD		
SH 190	5	5	15	BLD	BLD	10
SH 191	5	5	35	BLD	2	10
SH 192	5	10	10	BLD	2	10
SH 193	5	5	10	BLD	2	10
SH 194	5	5	10	BLD	2	10
SH 195	5	5	25	BLD		
SH 196	5	10	20	BLD		
SH 197	BLD	20	50	BLD		
SH 198	BLD	20	65	BLD		
SH 199	5	20	50	BLD		
SH 200	5	10	15	BLD		
SH 201	5	10	25	BLD		
SH 202	5	20	50	BLD		
METHOD	101B	101B	101B	101B	102	MO2

072

044073

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE 10.07.69

Phone: 74 2088

74 1062

MAR 10 '69 2

Cables: Exserv
Perth.

Lab. Sheet No. 1751/3 Field Sheet No. 6537

SAMPLE	CU	PB	ZN	AG	BI	MO
SH 203	5	20	10	BLD		
SH 204	5	20	25	BLD		
SH 205	BLD	20	25	BLD		
SH 206	5	30	55	BLD		
SH 207	BLD	20	25	BLD		
SH 208	BLD	70	25	BLD		
METHWD	101B	101B	101B	101B	102	MO2
SH 209?						

073

044074

LABORATORY
HOUSE

GEOPHOTO RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 13116 Project No. E1 6/68

LAB. SHEET No. 30/1. Stream Sediments DATE 15th September, 1969.

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm			
S.H. 301	69-J-1	5	15	15	BLD			
S.H. 302	69-J-2	5	10	5	BLD			
S.H. 303	69-J-3	5	15	5	BLD			
S.H. 304	69-J-4	5	30	10	BLD			
S.H. 305	69-J-5	5	50	15	BLD			
S.H. 306	69-J-6	5	50	20	1			
S.H. 307	69-J-7	5	30	10	BLD			
S.H. 308	69-J-8	5	50	15	1			
S.H. 309	69-J-9	5	50	10	BLD			
S.H. 310	69-J-10	5	40	5	BLD			
S.H. 311	69-J-11	5	15	5	BLD			
S.H. 312	69-J-12	5	30	5	BLD			
S.H. 313	69-J-13	5	15	5	BLD			
S.H. 314	69-J-14	5	10	5	BLD			
S.H. 315	69-J-15	5	15	5	BLD			
S.H. 316	69-J-16	5	10	5	BLD			
S.H. 317	69-J-17	5	30	15	BLD			
S.H. 318	69-J-18	5	90	20	1			
S.H. 319	69-J-19	5	55	15	1			
S.H. 320	69-J-20	10	65	30	BLD			
S.H. 321	69-J-21	5	25	20	BLD			
S.H. 322	69-J-22	5	30	15	1			
S.H. 323	69-J-23	5	15	5	BLD			
S.H. 324	69-J-24	5	15	5	BLD			
S.H. 325	69-J-25	5	10	5	BLD			
S.H. 326	69-J-26	5	30	5	BLD			
S.H. 327	69-J-27	5	BLD	5	BLD			
S.H. 328	69-J-28	5	25	5	BLD			
S.H. 329	69-J-29	5	30	5	BLD			
S.H. 330	69-J-30	5	15	5	BLD			
S.H. 331	69-J-31	5	10	5	BLD			
S.H. 332	69-J-32	5	25	5	BLD			
S.H. 333	69-J-33	5	30	5	BLD			
S.H. 334	69-J-34	5	BLD	BLD	BLD			
S.H. 335	69-J-35	5	BLD	5	BLD			
S.H. 336	69-J-36	5	10	BLD	BLD			
S.H. 337	69-J-37	5	BLD	BLD	BLD			
S.H. 338	69-J-38	5	BLD	BLD	BLD			
S.H. 339	69-J-39	5	30	5	BLD			
S.H. 340	69-J-40	5	10	5	BLD			
S.H. 341	69-J-41	5	25	5	BLD			
S.H. 342	69-J-42	5	30	5	BLD			
S.H. 343	69-J-43	5	30	5	BLD			
S.H. 344	69-J-44	5	25	10	BLD			

METHODS: G.R.C. No. 1

B.L.D.: Below Limit of Detection.

Chief Chemist

074

044075

GEOPHOTO RESOURCES CONSULTANTS
 Milloquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 13117 Project No. EI 6/68

LAB. SHEET No. 28/1 Stream Sediments DATE 15th September, 1969.

SAMPLE No.	LAB. No.	Mo ppm	Bi ppm						
S.H. 301	69-J-45	10	10						
S.H. 302	69-J-46	10	5						
S.H. 303	69-J-47	10	5						
S.H. 304	69-J-48	BLD	BLD						
S.H. 305	69-J-49	BLD	10						
S.H. 306	69-J-50	BLD	10						
S.H. 307	69-J-51	10	10						
S.H. 308	69-J-52	10	10						
S.H. 309	69-J-53	BLD	10						
S.H. 310	69-J-54	10	15						
S.H. 311	69-J-55	10	BLD						
S.H. 312	69-J-56	BLD	10						
S.H. 313	69-J-57	10	15						
S.H. 314	69-J-58	10	10						
S.H. 315	69-J-59	BLD	10						
S.H. 316	69-J-60	BLD	10						
S.H. 317	69-J-61	BLD	10						
S.H. 318	69-J-62	BLD	15						
S.H. 319	69-J-63	10	10						
S.H. 320	69-J-64	10	10						
S.H. 321	69-J-65	10	10						
S.H. 322	69-J-66	20	15						
S.H. 323	69-J-67	20	10						
S.H. 324	69-J-68	10	10						
S.H. 325	69-J-69	10	10						
S.H. 326	69-J-70	BLD	10						
S.H. 327	69-J-71	10	10						
S.H. 328	69-J-72	BLD	10						
S.H. 329	69-J-73	10	10						
S.H. 330	69-J-74	BLD	10						
S.H. 331	69-J-75	20	5						
S.H. 332	69-J-76	20	10						
S.H. 333	69-J-77	20	10						
S.H. 334	69-J-78	30	10						
S.H. 335	69-J-79	10	10						
S.H. 336	69-J-80	20	10						
S.H. 337	69-J-81	10	10						
S.H. 338	69-J-82	BLD	10						
S.H. 339	69-J-83	10	10						
S.H. 340	69-J-84	10	10						
S.H. 341	69-J-85	10	10						
S.H. 342	69-J-86	20	10						
S.H. 343	69-J-87	10	10						
S.H. 344	69-J-88	BLD	10						

METHODS: G.R.C. No. 2

B.L.D: Below Limit of Detection.

Chief Chemist 

075

044076

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

MAR 12 '69 2

PHONE: 74 2000
 74 1062
 Cables: Exserv
 Perth.

Lab. Sheet No. 1759 / 1 Field Sheet No. 17226

SAMPLE	CU	PB	ZN	AG	BI	MO
US 1	30	45	125	BLD	10	BLD
US 2	40	60	140	BLD	5	10
US 3	40	65	160	BLD	10	10
US 4	45	40	20	BLD	5	10
US 5	90	220	600	BLD	10	10
US 6	80	170	500	BLD	15	10
US 7	30	80	100	BLD	5	10
US 8	35	55	130	BLD	10	10
US 10	50	110	110	BLD	15	10
US 11	50	70	160	BLD	5	10
US 12	60	65	160	BLD	5	BLD
US 13	70	50	90	BLD	10	10
US 14	60	40	70	BLD	BLD	10
US 15	50	30	35	BLD	BLD	10
US 16	25	30	50	BLD	5	10
US 17	25	35	95	BLD	5	BLD
US 18	30	30	55	BLD	5	BLD
US 19	30	30	60	BLD	5	BLD
US 20	30	25	20	BLD	BLD	BLD
US 21	30	25	15	BLD	BLD	BLD
US 22	35	35	35	BLD	BLD	BLD
US 23	20	30	45	BLD	BLD	BLD
US 25	20	30	30	BLD	5	BLD
US 26	25	25	40	BLD	10	BLD
US 29	35	30	45	BLD	5	BLD
US 30	30	30	45	BLD	5	BLD
US 31	35	30	30	BLD	BLD	10
US 32	35	50	30	BLD	5	10
US 33	35	40	35	BLD	10	10
US 37	30	30	45	BLD	10	BLD
US 39	30	25	40	BLD	5	BLD
US 40	30	30	40	BLD	5	BLD
US 43	30	60	125	BLD	5	BLD
US 44	40	55	55	BLD	10	BLD
US 45	30	35	40	BLD	10	BLD
US 46	30	65	85	BLD	BLD	BLD
US 48	40	80	30	BLD	BLD	10
US 49	50	70	160	BLD	5	BLD
US 53	55	55	105	BLD	5	BLD
US 54	60	45	70	BLD	BLD	10
US 55	50	35	50	BLD	BLD	BLD
US 56	35	35	90	BLD	5	BLD
US 57	60	35	90	BLD	20	BLD
US 58	65	35	85	BLD	5	10
METHOD	101B	101B	101B	101B	102	M02

076

044077

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE
MAR 12 '69 2
SAMPLES

Phone: 74 2083
74 1062
Cables: Exserv
Perth.

Lab. Sheet No. 1759/1 Field Sheet No. 17221

SAMPLE	CU	PB	ZN	AG	BI	MO
US 59	50	40	85	BLD	20	10
US 60	50	45	110	BLD	5	10
US 64	65	40	30	BLD	5	10
METHOD	101B	101B	101B	101B	102	M02

077

044078

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE	NO. OF DAYS
MAY 2 '69	3

Phone: 74 208
 74 106
 Cables: Exser
 Perth

Lab. Sheet No. 1841/3 Field Sheet No. 17240

-80-

SAMPLE	CU	PB	ZN	AG	BI	MO
U S 159	20	25	35	BLD	10	BLD
U S 160	15	40	70	BLD	15	20
U S 161	10	35	60	BLD	15	20
U S 162	15	30	25	BLD	15	BLD
U S 163	15	30	30	BLD	10	10
U S 164	20	45	60	BLD	20	30
U S 165	35	50	95	BLD	15	40
U S 166	40	35	40	BLD	15	20
U S 167	15	30	25	BLD	5	20
U S 168	10	25	20	BLD	5	40
U S 169	10	50	25	BLD	15	30
U S 170	5	20	15	BLD	5	40
U S 171	5	10	15	BLD	10	40
U S 172	5	15	35	BLD	10	30
U S 173	15	40	60	BLD	10	20
U S 174	15	35	40	BLD	10	20
U S 175	15	25	35	BLD	10	30
U S 176	15	20	55	BLD	10	20
U S 177	20	35	55	BLD	10	BLD
U S 178	20	25	55	BLD	10	20
U S 179	20	15	35	BLD	10	BLD
U S 180	20	20	110	BLD	5	BLD
U S 181	25	20	60	BLD	10	BLD
U S 182	20	25	35	BLD	5	BLD
U S 183	15	30	55	BLD	10	BLD
U S 184	15	30	35	BLD	15	BLD
U S 185	10	15	40	BLD	15	BLD
U S 186	10	30	35	BLD	10	BLD
U S 187	10	25	30	BLD	5	BLD
U S 188	10	20	25	BLD	5	10
U S 189	5	20	30	BLD	BLD	BLD
U S 190	10	15	20	BLD	5	20
U S 191	10	50	20	BLD	BLD	BLD
U S 192	15	25	20	BLD	5	BLD
U S 193	10	25	25	BLD	15	BLD
U S 194	5	30	25	BLD	10	BLD
U S 195	5	35	35	BLD	BLD	BLD
U S 196	20	45	55	BLD	BLD	20
U S 197	20	30	50	BLD	BLD	20
U S 198	25	40	50	BLD	BLD	40
U S 199	20	40	50	BLD	BLD	BLD
U S 200	15	40	50	BLD	BLD	20
U S 207	15	30	45	BLD	BLD	20
U S 208	10	25	60	BLD	BLD	20
U S 209	15	25	70	BLD	BLD	20
U S 210	20	20	60	BLD	BLD	20
U S 211	15	20	55	BLD	BLD	20
U S 212	5	20	60	BLD	BLD	20
U S 213	10	20	55	BLD	BLD	20
METHOD	101B	101B	101B	101B	102	102

075

044080

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE

Phone: 74 2088
74 1062

MAY 2 '69 3

Cables: Exserv
Perth.

Lab. Sheet No. 1841/4

Field Sheet No. 1724L

-20

SAMPLE	CU	PB	ZN	AG	BI	MO
U S 228	5	50	50	BLD	BLD	20
U S 229	20	40	40	BLD	BLD	20
U S 230	20	25	25	BLD	BLD	BLD
U S 231	10	30	35	BLD	25	BLD
U S 232	15	30	35	BLD	15	BLD
U S 233	10	25	25	BLD	15	20
METHOD	101B	101B	101B	101B	102	102

080

044081

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

No. OF COPIES
APR 1 '69 2

Phone: 74 2088
74 1062
Cables: Exserv
Perth.

Lab. Sheet No. 1795/7 Field Sheet No. 17235

-80

SAMPLE	CU	PB	ZN	AG	BI	MO
US 150	25	25	40	BLD	BLD	BLD
US 151	15	20	40	BLD	5	BLD
US 152	10	20	35	BLD	5	BLD
US 153	10	15	30	BLD	5	BLD
US 154	10	15	30	BLD	BLD	BLD
US 155	5	20	30	BLD	BLD	BLD
US 156	5	20	25	BLD	5	BLD
US 157	10	20	15	BLD	5	BLD
US 158	50	20	30	BLD	BLD	BLD
US 201	25	30	40	BLD	5	BLD
US 203	20	25	65	BLD	5	BLD
US 204	20	15	65	BLD	5	BLD
US 205	20	40	50	BLD	BLD	BLD
US 205A <i>make 206</i>	25	30	45	BLD	BLD	BLD
US 214	15	20	35	BLD	BLD	BLD
US 215	10	40	130	BLD	BLD	BLD
US 216	20	35	100	BLD	BLD	BLD
US 217	20	40	105	BLD	5	BLD
US 218	25	45	80	BLD	BLD	BLD
US 220	5	15	10	BLD	BLD	BLD
US 221	5	20	5	BLD	BLD	BLD
US 222	30	45	130	BLD	BLD	BLD
US 223	30	40	300	BLD	BLD	BLD
US 224	25	50	50	BLD	BLD	BLD
US 226	15	20	20	BLD	BLD	BLD
US 227	20	30	35	BLD	BLD	BLD
US 250	10	30	30	BLD	5	BLD
METHOD	101B	101B	101B	101B		

081

044082

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

LA.E
APR 1 '69 2
17234

7.
Cables:
80

Lab. Sheet No. 1795/6 Field Sheet No. 17234

SAMPLE	CU	PB	ZN	AG	BI	MO
US 99	90	45	70	BLD		BLD
US 100	50	30	20	BLD	BLD	BLD
US 101	50	25	20	BLD	BLD	BLD
US 102	40	40	60	BLD	BLD	BLD
US 103	45	30	55	BLD	BLD	BLD
US 104	20	25	40	BLD	BLD	BLD
US 105	INSUFFICIENT SAMPLE				BLD	BLD
US 106	60	40	20	BLD	BLD	BLD
US 107	35	30	20	BLD	BLD	BLD
US 108	55	30	55	BLD		
US 109	45	30	45	BLD	BLD	BLD
US 110	35	30	65	BLD		
US 111	30	25	15	BLD	BLD	BLD
US 112	40	30	45	BLD	BLD	BLD
US 113	45	30	50	BLD	BLD	BLD
US 114	70	30	50	BLD	BLD	BLD
US 115	100	30	50	BLD	BLD	BLD
US 116	70	30	55	BLD	BLD	BLD
US 117	40	40	20	BLD	BLD	BLD
US 118	40	30	20	BLD	BLD	BLD
US 119	35	30	20	BLD	5	BLD
US 120	10	25	35	BLD	5	BLD
US 121	15	20	35	BLD	BLD	BLD
US 122	15		45	BLD	5	BLD
US 123	15	30	55	BLD	5	BLD
US 124	INSUFFICIENT SAMPLE				5	BLD
US 125	15	30	55	BLD	5	BLD
US 126	10	25	50	BLD	5	BLD
US 127	10	15	15	BLD	BLD	BLD
US 127A	10	20	25	BLD	BLD	BLD
US 128	10	40	15	BLD	BLD	BLD
US 129	10	20	50	BLD	BLD	BLD
US 130	10	30	60	BLD	BLD	BLD
US 131	15	30	65	BLD	BLD	BLD
US 132	15	25	65	BLD	BLD	BLD
US 133	15	80	20	BLD	BLD	BLD
US 134	15	100	15	BLD	BLD	BLD
US 135	10	150	15	BLD	BLD	BLD
US 136	10	20	15	BLD	5	BLD
US 138	10	20	10	BLD	5	BLD
US 139	10	25	40	BLD	BLD	BLD
US 140	10	20	30	BLD	5	BLD
US 141	10	20	35	BLD	5	BLD
US 142	10	20	40	BLD	BLD	BLD
US 143	10	20	50	BLD	5	BLD
US 144	10	30	55	BLD	BLD	BLD
US 145	10	35	55	BLD	BLD	BLD
US 146	10	25	70	BLD	5	BLD
US 148	10	40	140	BLD	BLD	BLD
US 149	20	25	55	BLD	5	BLD
METHOD	101B	101B	101B	101B	102	MO2

U82

044083

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE **APR 1 '69** 2
 I.C. of C.A.L.L. phone: 74 206
 74 106
 Cables: Exser
 Perth

Lab. Sheet No. 1795/5 Field Sheet No. 11231 -80

SAMPLE	CU	PB	ZN	AG	BI	MO
US 97	5	25	35	BLD	BLD	BLD
US 24	5	25	30	BLD	BLD	BLD
US 27	10	25	30	BLD	BLD	BLD
US 28	5	40	75	BLD	BLD	BLD
US 34	10	25	15	BLD	BLD	BLD
US 35	5	30	40	BLD	BLD	BLD
US 36	10	35	45	BLD	BLD	BLD
US 38	10	20	35	BLD	BLD	BLD
US 41	10	30	20	BLD	BLD	BLD
US 41A	5	40	20	BLD	BLD	BLD
US 42	5	40	20	BLD	BLD	BLD
US 50	5	30	15	BLD	BLD	BLD
US 51	BLD	50	10	BLD	BLD	BLD
US 52	BLD	25	10	BLD	BLD	BLD
US 61	5	20	15	BLD	BLD	BLD
US 62	40	30	15	BLD	BLD	BLD
US 63	30	20	20	BLD	BLD	BLD
US 65	30	25	35	BLD	BLD	BLD
US 66	5		30	BLD	BLD	BLD
US 67	25	25	35	BLD	BLD	BLD
US 68	10	30	30	BLD	BLD	BLD
US 69	25	30	30	BLD	BLD	BLD
US 70	15	20	55	BLD	BLD	BLD
US 72	20	35	25	BLD	BLD	BLD
US 73	25	40	35	BLD	BLD	BLD
US 74	25	20	15	BLD	BLD	BLD
US 75	30	25	45	BLD	BLD	BLD
US 76	30	20	45	BLD	BLD	BLD
US 77	40	30	65	BLD	BLD	BLD
US 79	25	30	70	BLD	BLD	BLD
US 80	25	30	20	BLD	BLD	BLD
US 81	20	20	35	BLD	BLD	BLD
x US 82	25	20	40	BLD	BLD	BLD
US 83	20	25	35	BLD	BLD	BLD
US 84	10	20	25	BLD	BLD	BLD
US 85	10	25	25	BLD	BLD	BLD
US 86	25	20	50	BLD	BLD	BLD
US 87	20	30	45	BLD	BLD	BLD
US 88	25	25	10	BLD	BLD	BLD
US 89	30	30	10	BLD	BLD	BLD
US 90	30	150	115	BLD	BLD	BLD
US 91	50	70	80	BLD	BLD	BLD
US 92	90	45	70	BLD	BLD	BLD
US 93	40	30	55	BLD	BLD	BLD
US 94	50		60	BLD	BLD	BLD
US 95	70	50	40	BLD	5	BLD
US 96	75	40	70	BLD	BLD	BLD
US 97	120	70	240	BLD	BLD	BLD
US 98	120	60	125	BLD	BLD	BLD
METHOD	101B	101B	101B	101B	102	MO2

83

044084

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE

COPIES

MAR 12 '69 2

Phone: 74 2088
 74 1062
 Cables: Exserv
 Perth.

Lab. Sheet No. 1759/1 Field Sheet No. 17227

SAMPLE	CU	PB	ZN	AG	BI	MO
US 59	50	40	85	BLD	20	10
US 60	50	45	110	BLD	5	10
US 64	65	40	30	BLD	5	10
METHOD	101B	101B	101B	101B	102	M02

085

044085

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

JUN 13 '69 2

Phone: 74 205
 74 106:
 Cables: Exser
 Perth

Lab. Sheet No. 1948/1 Field Sheet No. 12733

Er-6/68

SAMPLE	CU	PB	ZN	AG	BI	MO
AB 1	10	10	50	BLD	BLD	BLD
AB 2	10	20	80	BLD	BLD	BLD
AB 3	15	25	75	BLD	BLD	BLD
AB 4	15	25	75	BLD	BLD	Insuf. smple
AB 5	20	25	75	BLD	INSUF.	sample
AB 6	25	30	80	BLD	BLD	BLD
AB 7	25	30	65	BLD	BLD	BLD
AB 8	30	30	80	BLD	5	BLD
AB 9	30	30	30	BLD	10	10
AB 10	30	30	70	BLD	BLD	BLD
AB 11	25	30	20	BLD	BLD	BLD
AB 12	20	25	20	BLD	BLD	BLD
AB 13	30	30	85	BLD	BLD	BLD
AB 14	35	30	70	BLD	BLD	BLD
AB 15	35	25	80	BLD	BLD	BLD
AB 16	40	25	80	BLD	BLD	BLD
AB 17	45	25	100	BLD	BLD	BLD
AB 18	40	30	20	BLD	BLD	BLD
AB 19	30	25	20	BLD	BLD	BLD
AB 20	25	25	20	BLD	15	BLD
AB 21	45	20	40	BLD	10	10
AB 22	60	35	40	BLD	5	10
AB 23	85	40	50	BLD	10	10
AB 24	80	45	40	BLD	5	10
AB 25	75	40	50	BLD	BLD	10
AB 26	60	40	55	BLD	BLD	BLD
AB 27	55	40	50	BLD	5	BLD
AB 28	60	35	45	BLD	10	BLD
AB 29	60	30	45	BLD	10	10
AB 30	80	30	55	BLD	20	10
AB 31	120	30	45	BLD	10	10
AB 32	100	35	50	BLD	10	10
AB 33	80	50	60	BLD	15	10
AB 34	65	65	55	BLD	15	10
AB 35	30	30	20	BLD	20	10
METHOD	101B	101B	101B	101B	102	M02

08b

044086

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE JUN 13 '69 ?

Phone: 7
7
Cables:

Lab. Sheet No. 1962/1 Field Sheet No. 12428
SCAMANDERU

Scama
-20
EL 6/6

SAMPLE	BI	MO
AB 1	BLD	BLD
AB 2	BLD	BLD
AB 3	BLD	BLD
AB 4	BLD	BLD
AB 5	BLD	<i>insufficient</i>
AB 6	BLD	<i>insufficient</i>
AB 7	BLD	BLD
AB 8	5	BLD
AB 9	10	10
AB 10	BLD	BLD
AB 11	BLD	BLD
AB 12	BLD	BLD
AB 13	BLD	10
AB 14	BLD	BLD
AB 15	BLD	BLD
AB 16	BLD	BLD
AB 17	BLD	3LD
AB 18	BLD	3LD
AB 19	BLD	BLD
AB 20	15	BLD
AB 21	10	10
AB 22	5	10
AB 23	10	10
AB 24	5	10
AB 25	BLD	10
AB 26	BLD	3LD
AB 27	5	BLD
AB 28	10	3LD
AB 29	10	10
AB 30	20	10
AB 31	10	10
AB 32	10	10
AB 33	15	10
AB 34	15	10
AB 35	20	10
METHOD	102	M02

087

044087

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE JUN 27 '69 No. OF COPIES 2
 Phone: 74 2088
 74 1062
 Cables: Exserv
 Perth.
 80

Lab. Sheet No. 2011/H Field Sheet No. 12735

SAMPLE	CU	PB	ZN	AG	BI	MO
AB 36	30	55	30	4	5	10
AB 37	50	45	35	4	20	10
AB 38	100	45	35	5	35	20
AB 39	95	50	50	5	20	20
AB 40	85	50	50	6	20	20
AB 41	85	60	50	5	15	20
AB 42	85	45	50	6	20	10
AB 43	85	40	50	5	25	20
AB 44	90	45	35	5	25	10
AB 45	85	30	35	5	15	10
AB 46	85	30	40	4	30	20
AB 47	55	30	15	3	25	20
AB 48	45	45	20	3	20	10
AB 49	45	20	30	3	10	BLD
AB 50	45	30	55	4	10	BLD
AB 51	40	20	20	4	10	BLD
AB 52	45	15	25	3	15	BLD
AB 53	75	45	35	3	20	BLD
AB 54	55	45	30	3	5	BLD
AB 55	55	30	40	3	10	BLD
AB 56	35	10	20	3	10	BLD
AB 57	50	15	25	3	5	BLD
AB 58	170	100	45	3	BLD	BLD
AB 59	140	45	50	3	10	BLD
AB 60	130	45	45	3	5	BLD
AB 61	120	40	45	3	5	BLD
AB 62	10	10	20	3	5	BLD
AB 63	60	30	30	3	15	BLD
AB 64	65	30	30	3	10	BLD
AB 65	65	30	40	3	15	BLD
AB 66	65	40	40	4	15	BLD
METHOD	101B	101B	101B	101B	102	MO2

06

044088

SAMPEY EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE No. OF PAGES
JUN 13 '69 2

Phone: 74 2033
74 1062
Cables: Exserv
Perth

Lab. Sheet No. 1962/2 Field Sheet No. 12730
K1-6/68 SCAMENDEP. -20-

SAMPLE					BI	MO
AB 36					5	10
AB 37					20	10
AB 38					35	20
AB 39					20	20
AB 40					20	20
AB 41					15	20
AB 42					20	10
AB 43					25	20
AB 44					25	10
AB 45					15	10
AB 46					30	20
AB 47					25	20
AB 48					20	10
AB 49					10	BLD
AB 50					10	BLD
AB 51					10	BLD
AB 52					15	BLD
AB 53					20	BLD
AB 54					5	BLD
AB 55					10	BLD
AB 56					10	BLD
AB 57					5	BLD
AB 58					BLD	BLD
AB 59					10	BLD
AB 60					5	BLD
AB 61					5	BLD
AB 62					5	BLD
AB 63					15	BLD
AB 64					10	BLD
AB 65					15	BLD
AB 66					15	BLD
METHOD					102	M02

089

044089

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE
 JUN 27 '69 2

Phone: 74 2085
 74 1062
 Cables: Exserv
 Perth.

Lab. Sheet No. 20115 Field Sheet No. 12751 -80

SAMPLE	CU	PB	ZN	AG	BI	MO
AB 67	40	30	45	5	BLD	20
AB 68	35	20	50	4	BLD	20
AB 69	35	20	40	5	BLD	10
AB 70	30	20	40	4	BLD	BLD
AB 71	30	25	40	4	BLD	BLD
AB 72	60	15	65	3	BLD	BLD
AB 73	60	40	70	5	BLD	BLD
AB 74	50	25	70	5	BLD	BLD
AB 75	30	30	60	5	5	BLD
AB 76	20	20	40	4	BLD	BLD
AB 77	20	30	45	4	BLD	BLD
AB 78	25	20	50	4	BLD	BLD
AB 79	20	20	55	4	BLD	BLD
AB 80	20	25	45	4	BLD	BLD
AB 81	15	20	40	4	BLD	BLD
AB 82	10	15	40	4	BLD	BLD
AB 83	15	20	40	4	BLD	BLD
AB 84	15	20	55	4	BLD	BLD
AB 85	20	30	70	5	BLD	BLD
AB 86	15	30	55	5	BLD	BLD
AB 87	20	35	85	5	5	BLD
AB 88	20	35	70	5	5	BLD
AB 89	25	35	70	5	5	BLD
AB 90	30	30	45	5	BLD	BLD
AB 91	30	30	45	5	BLD	BLD
AB 92	25	40	30	4	BLD	BLD
AB 93	20	30	30	4	BLD	BLD
AB 94	20	20	30	4	BLD	BLD
AB 95	15	20	25	4	BLD	BLD
AB 96	20	20	30	4	BLD	BLD
AB 97	25	20	30	4	10	BLD
AB 98	25	15	25	4	10	BLD
AB 99	20	15	25	3	BLD	BLD
AB 100	20	15	25	3	BLD	BLD
AB 101	20	10	25	3	5	BLD
AB 102	10	20	25	3	5	BLD
AB 103	5	25	30	3	BLD	BLD
AB 104	5	20	25	3	BLD	BLD
AB 105	10	25	25	4	BLD	BLD
AB 106	10	30	20	4	BLD	BLD
AB 107	10	25	30	4	5	BLD
AB 108	10	20	15	3	BLD	BLD
AB 109	10	20	25	3	BLD	BLD
AB 110	10	20	30	3	BLD	BLD
AB 111	10	15	35	3	BLD	BLD
AB 112	15	20	25	4	BLD	BLD
AB 113	15	20	30	3	BLD	BLD
AB 114	15	20	35	3	BLD	BLD
AB 115	15	20	20	4	5	BLD
AB 116	25	20	25	4	5	BLD
AB 117	25	15	25	4	5	BLD
AR 118	35	20	25	4	5	BLD
METHOD	101B	101B	101B	101B	102	MO2

030

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE No. OF COPIES Phone: 74 20

JUL 4 '69 2

74 10

Cables: Exsc
 Pert

Lab. Sheet No. 2011/1 Field Sheet No. 13732

-20

SAMPLE	CU	PB	ZN	AG	BI	MO
AB 67					BLD	20
AB 68					BLD	20
AD 69					BLD	10
AB 70					BLD	BLD
AB 71					BLD	BLD
AB 72					BLD	BLD
AB 73					BLD	BLD
AD 74					BLD	BLD
AD 75					5	BLD
AB 76					BLD	BLD
AD 77					BLD	BLD
AD 78					BLD	BLD
AD 79					BLD	BLD
AD 80					BLD	BLD
AD 81					BLD	BLD
AD 82					BLD	BLD
AD 83					BLD	BLD
AD 84					BLD	BLD
AD 85					BLD	BLD
AD 86					BLD	BLD
AD 87					BLD	BLD
AD 88					5	BLD
AD 89					5	BLD
AD 90					BLD	BLD
AD 91					BLD	BLD
AD 92					BLD	BLD
AD 93					BLD	BLD
AD 94					BLD	BLD
AD 95					BLD	BLD
AD 96					BLD	BLD
AD 97					10	BLD
AD 98					10	BLD
AD 99					BLD	BLD
AD 100					BLD	BLD
AD 101					5	BLD
AD 102					5	BLD
AD 103					BLD	BLD
AD 104					BLD	BLD
AD 105					BLD	BLD
AD 106					BLD	BLD
AD 107					5	BLD
AD 108					BLD	BLD
AD 109					BLD	BLD
AD 110					BLD	BLD
AD 111					BLD	BLD
AD 112					BLD	BLD
AD 113					BLD	BLD
AD 114					BLD	BLD
AD 115					5	BLD
AD 116					5	BLD
AD 117					5	BLD
AD 118					5	BLD

091

044091

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

Phone: 7
 7
 Cables: 7

DATE JUN 27 '69 2

Lab. Sheet No. 2011/B Field Sheet No. 12749 80

SAMPLE	CU	PB	ZN	AG	BL	NO
AB 119	40	25	25	4	5	BLD
AB 120	40	20	35	4	5	BLD
AB 121	45	20	30	4	BLD	BLD
AB 122	45	20	30	4	5	BLD
AB 123	50	30	25	4	5	BLD
AB 124	50	25	25	4	5	BLD
AB 125	50	75	15	4	5	BLD
AB 126	5	50	10	4	BLD	BLD
AB 127	30	40	65	4	BLD +	BLD
AB 128	45	45	85	5	BLD	BLD
AB 129	40	35	65	6	5	BLD
AB 130	40	25	60	3	5	BLD
AB 131	25	15	40	5	10	BLD
AB 132	15	25	10	3	BLD	BLD
AB 133	10	10	10	3	BLD	BLD
AB 134	5	10	10	3	5	BLD
AB 135	5	20	10	3	5	BLD
AB 136	10	15	15	3	5	BLD
AB 137	10	15	15	3	5	BLD
AB 138	10	30	15	3	5	BLD
AB 139	10	30	20	3	5	BLD
AB 140	15	25	15	3	5	BLD
AB 141	30	40	100	3	5	BLD
AB 142	35	40	80	3	5	BLD
AB 143	30	30	80	4	5	BLD
AB 144	30	40	85	4	5	BLD
AB 145	30	40	80	4	5	BLD
AB 146	30	40	80	4	5	BLD
AB 147	25	40	95	4	5	BLD
AB 148	35	30	65	3	5	BLD
AB 149	30	20	55	3	10	BLD
AB 150	20	20	15	2	5	BLD
AB 151	10	15	15	2	10	BLD
AB 152	15	30	55	4	5	BLD
AB 153	30	30	90	6	5	BLD
AB 154	15	25	25	5	5	BLD
AB 155	15	25	50	5	5	BLD
AB 156	20	35	55	4	5	BLD
AB 157	20	20	55	4	5	BLD
AB 158	280	20	45	4	5	BLD
AB 159	100	20	30	4	5	BLD
AB 160	15	20	30	4	5	BLD
AB 161	220	20	35	4	5	BLD
METHOD	101	101B	101B	101B	102	M02

03

044092

SAMPLE EXPLORATION SERVICES
237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

JUL 4 '69 2

PHONE: 732666
74 1062
Cables: Exserv
Perth.

Lab. Sheet No. 2011/D Field Sheet No. 12750

-20

SAMPLE	CU	PB	ZN	AG	BI	MO
AD 119					5	BLD
AD 120					5	BLD
AD 121					BLD	BLD
AD 122					5	BLD
AD 123					5	BLD
AD 124					5	BLD
AD 125					5	BLD
AD 126					BLD	BLD
AD 127					BLD	BLD
AD 128					BLD	BLD
AD 129					5	BLD
AD 130					5	BLD
AD 131					10	BLD
AD 132					BLD	BLD
AD 133					BLD	BLD
AD 134					5	BLD
AD 135					5	BLD
AD 136					5	BLD
AD 137					5	BLD
AD 138					5	BLD
AD 139					5	BLD
AD 140					5	BLD
AD 141					5	BLD
AD 142					5	BLD
AD 143					5	BLD
AD 144					5	BLD
AD 145					5	BLD
AD 146					5	BLD
AD 147					5	BLD
AD 148					5	BLD
AD 149					10	BLD
AD 150					5	BLD
AD 151					10	BLD
AD 152					5	BLD
AD 153					5	BLD
AD 154					5	BLD
AD 155					5	BLD
AD 156					5	BLD
AD 157					5	BLD
AD 158					5	BLD
AD 159					5	BLD
AD 160					5	BLD
AD 161					5	BLD
METHOD	101B	101B	101B	101B	102	M02

✓

09.

044093

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE No. OF COPIES
 DEC 17 '63 2

Phone: 74 2088
 74 1062
 Cables: Exserv
 Perth.

Lab. Sheet No. 1558/6 Field Sheet No. 6583

80

SAMPLE	CU	PB	ZN	AG	BI	MO
P 130	10	20	10	3	BLD	BLD
P 131	10	15	15	3	4	BLD
P 132	10	30	10	3	8	BLD
P 134	15	35	15	4	BLD	BLD
P 135	15	40	20	3	BLD	BLD
P 136	20	55	15	3	4	BLD
P 137	15	15	30	3	4	BLD
P 138	10	20	30	3	4	BLD
P 139	15	50	30	3	8	BLD
P 140	10	30	35	5	4	BLD
P 141	5	15	20	5	8	BLD
P 142	5	15	15	5	4	BLD
P 143	5	20	20	5	8	BLD
P 144	5	35	20	4	4	BLD
P 145	5	25	20	4	8	BLD
P 146	5	15	15	4	4	BLD
P 147	5	10	20	4	BLD	BLD
P 148	5	20	10	3	BLD	BLD
P 149	10	45	5	4	BLD	BLD
P 150	10	25	10	5	BLD	BLD
P 151	10	20	10	5	4	BLD
P 152	10	50	10	3	4	BLD
P 153	10	15	15	3	8	BLD
P 154	10	35	10	3	4	BLD
P 155	10	20	10	2	BLD	BLD
P 156	10	55	10	3	BLD	BLD
P 157	20	70	10	1	BLD	BLD
P 158	45	30	75	2	8	BLD
P 159	20	20	55	2	8	BLD
METHOD	101B	101B	101B	101B		

09

SAMPEY EXPLORATION SERVICES

237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

DATE

JUL 28 '69 2

Phone: 74 208

74 1062

Cables: Exser
Perth

Lab. Sheet No. 2065/22 Field Sheet No. 13167

-80

SAMPLE	CU	PB	ZN	AG	BI	MO
BM 1	10	10	25	BLD	BLD	BLD
BM 2	5	30	20	BLD	BLD	BLD
BM 3	5	40	20	BLD	BLD	BLD
BM 4	5	30	20	BLD	BLD	BLD
BM 5	5	30	15	BLD	BLD	BLD
BM 6	5	25	15	BLD	BLD	BLD
BM 7	5	20	15	BLD	BLD	BLD
BM 8	5	25	15	BLD	BLD	BLD
METHOD	101B	101B	101B	101B	102	MO2

SAMPEY EXPLORATION SERVICES
 237 Great Eastern Highway, Midland,
 Western Australia, 6056
 P.O. Box 134, Midland

DATE: JUL 28 '69 NO. OF CORES: 2
 Phone: 74 2088
 74 1062
 Cables: Exserv
 Perth.

Lab. Sheet No. 2065/16 Field Sheet No. 6592 - 80 -

SAMPLE	CU	PB	RN	AG	BI	MO
0 1	10	20	25	BLD	BLD	BLD
0 2	5	20	10	BLD	BLD	BLD
0 3	BLD	15	15	BLD	5	BLD
0 4	5	10	15	BLD	BLD	BLD
0 5	BLD	5	15	BLD	5	BLD
0 6	5	10	10	BLD	BLD	BLD
0 7	5	10	20	BLD	BLD	BLD
0 8	BLD	5	5	BLD	BLD	BLD
0 9	5	5	10	BLD	BLD	BLD
0 10	5	10	25	BLD	BLD	BLD
0 11	5	10	25	BLD	BLD	BLD
0 12	5	5	15	BLD	BLD	BLD
0 13	BLD	5	15	BLD	BLD	BLD
0 14	BLD	5	10	BLD	BLD	BLD
0 15	BLD	10	15	BLD	BLD	BLD
0 16	BLD	10	10	BLD	BLD	BLD
0 17	BLD	10	10	BLD	5	BLD
0 18	BLD	10	5	BLD	5	BLD
0 19	BLD	10	5	BLD	BLD	BLD
0 20	BLD	10	10	BLD	BLD	BLD
0 21	BLD	10	10	BLD	BLD	BLD
0 22	BLD	10	10	BLD	BLD	BLD
0 23	BLD	15	15	BLD	BLD	BLD
0 24	BLD	20	15	BLD	BLD	BLD
0 25	BLD	35	10	BLD	5	BLD
0 26	BLD	10	10	BLD	BLD	BLD
0 27	BLD	10	10	BLD	BLD	BLD
0 28	10	10	30	BLD	BLD	10
0 29	5	15	25	BLD	BLD	BLD
0 30	30	10	25	BLD	BLD	BLD
0 31	5	10	30	BLD	BLD	BLD
0 32	5	10	25	BLD	BLD	10
0 33	10	20	25	BLD	5	20
0 34	10	20	30	BLD	BLD	BLD
0 35	10	30	25	BLD	BLD	BLD
0 36	5	30	30	BLD	BLD	BLD
0 37	5	30	20	BLD	BLD	BLD
0 38	5	15	15	BLD	5	BLD
0 39	5	30	15	BLD	5	BLD
0 40	5	35	15	BLD	BLD	BLD
0 41	5	30	30	BLD	5	BLD
METHOD	101B	101B	101B	101B	102	MO2

096

044096

SARFET EXPLORATION SERVICES

237 Great Eastern Highway, Midland,
Western Australia, 6056
P.O. Box 134, Midland

JUL 28 '69 2

Phone: 74 2052
74 1052
Cables: Exserv
Perth.

Lab. Sheet No. 2065/17 Field Sheet No. 13164-80

SAMPLE	CU	PB	RN	AG	BI	MO
Q 43	30	40	90	BLD	BLD	BLD
Q 44	15	30	75	BLD	5	BLD
Q 45	20	30	75	BLD	5	BLD
Q 46	30	35	95	3	BLD	BLD
Q 47	30	40	90	2	5	BLD
Q 48	30	30	105	3	5	BLD
Q 49	35	30	100	3	BLD	BLD
Q 50	35	30	110	3	BLD	BLD
Q 51	30	35	85	3	BLD	BLD
Q 52	35	30	70	BLD	5	BLD
Q 53	40	35	105	BLD	BLD	BLD
Q 54	30	30	95	2	BLD	BLD
Q 55	25	35	70	2	BLD	BLD
Q 56	25	35	65	3	BLD	BLD
Q 57	25	30	65	3	BLD	BLD
METHOD	101B	101B	101B	101B	102	MO2

GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 2 7320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 13113

Project No. EL 6/68

LAB. SHEET No. 6/1

DATE 12th August, 1969.

SAMPLE No.	LAB. No.	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)	Ni (ppm)	Ag (ppm)
R 62	69-H-30	295	20	30	40	20	BLD
R 63	69-H-31	20	15	35	10	10	BLD
R 64	69-H-32	210	20	35	50	20	BLD
R 65	69-H-33	20	15	35	10	10	BLD
R 66	69-H-34	30	15	35	10	15	BLD
R 67	69-H-35	185	15	35	25	25	BLD
R 68	69-H-36	190	25	45	35	25	1
R 69	69-H-37	20	15	35	10	10	BLD
R 70	69-H-38	30	20	35	10	15	BLD
R 71	69-H-39	25	15	35	10	15	BLD
R 72	69-H-40	270	15	30	40	15	BLD
R 73	69-H-41	170	15	30	25	15	BLD
R 74	69-H-42	170	15	40	25	20	BLD
Q 101	69-H-43	5	25	15	BLD	BLD	BLD
Q 102	69-H-44	5	25	15	BLD	BLD	BLD
Q 103	69-H-45	5	25	20	BLD	5	BLD
Q 104	69-H-46	5	25	15	BLD	BLD	BLD
Q 105	69-H-47	5	25	20	5	5	BLD
Q 106	69-H-48	5	25	25	5	10	BLD
Q 107	69-H-49	5	25	20	5	5	BLD
Q 108	69-H-50	5	25	15	BLD	5	BLD
Q 109	69-H-51	5	25	20	BLD	BLD	BLD
Q 110	69-H-52	5	25	10	BLD	BLD	BLD
Q 111	69-H-53	5	25	10	BLD	BLD	BLD
Q 112	69-H-54	5	25	15	BLD	BLD	BLD
Q 113	69-H-55	5	15	10	BLD	BLD	BLD
Q 114	69-H-56	5	20	15	BLD	BLD	BLD
Q 115	69-H-57	5	20	15	5	BLD	BLD
Q 116	69-H-58	5	25	20	10	5	BLD

METHODS: Method GRC 1.
BLD : Below Limit of Detection

Chief Chemist

099

GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 13114

Project No. E1 6/68

LAB. SHEET No. 16/2

Stream Sediments (-20)

DATE 26th August, 1969.

SAMPLE No.	LAB. No.	Mo ppm		Bi ppm					
			Av.		Av.				
Q 104	69-H-17	BLD		BLD					
Q 105	69-H-18	BLD		5					
Q 106	69-H-19	BLD		BLD					
Q 107	69-H-20	BLD		BLD					
Q 108	69-H-21	BLD		5					
Q 109	69-H-22	BLD		5					
Q 110	69-H-23	BLD		BLD					
Q 111	69-H-24	BLD		5					
Q 112	69-H-25	BLD		5					
Q 113	69-H-26	BLD		BLD					
Q 114	69-H-27	BLD		BLD					
Q 115	69-H-28	BLD		BLD					
Q 116	69-H-29	BLD		BLD					
		BLD	BLD	BLD	BLD				

METHODS:

Chief Chemist

098

GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 2 7320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 13114

Project No. EI 6/68

Stream Sediments (-20)

LAB. SHEET No. 16/1.

DATE 26th August, 1969.

SAMPLE No.	LAB. No.	Mo ppm		Bi ppm					
			Av.		Av.				
R 62	69-H- 1	15		10					
			15		10				
R 63	69-H- 2	15		5					
			15		5				
R 64	69-H- 3	10		10					
			10		10				
R 65	69-H- 4	10		10					
R 66	69-H- 5	10		10					
R 67	69-H- 6	10		10					
R 68	69-H- 7	15		10					
R 69	69-H- 8	BLD		5					
R 70	69-H- 9	10		5					
R 71	69-H-10	15		5					
R 72	69-H-11	10		10					
R 73	69-H-12	15		10					
R 74	69-H-13	15		5					
			15		5				
Q 101	69-H-14	BLD		BLD					
			BLD		BLD				
Q 102	69-H-15	BLD		5					
			BLD		5				
Q 103	69-H-16	BLD		BLD					
			BLD		BLD				

METHODS: G.R.C. No. 2.

B.L.D: Below Limit of Detection.

Chief Chemist

100

044100

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001427 PROJECT No. EL. 6/68 TEXINS/COPPER SHOW CREEK

LAB. SHEET No. 468/6 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970

SAMPLE No.	LAB. No.	Mo ppm	Bi ppm	W ppm	Sn %			
C 1	70-K-2174	15	10	BLD	BLD			
C 2	70-K-2175	10	BLD	BLD	BLD			
C 3	70-K-2176	10	BLD	BLD	BLD			
C 4	70-K-2177	15	5	BLD	BLD			
C 5	70-K-2178	10	BLD	BLD	BLD			
C 6	70-K-2179	10	BLD	BLD	BLD			
C 7	70-K-2180	BLD	BLD	BLD	BLD			
C 8	70-K-2181	10	BLD	BLD	BLD			
C 9	70-K-2182	10	BLD	BLD	BLD			
C 10	70-K-2183	10	BLD	BLD	BLD			
C 11	70-K-2184	10	BLD	BLD	BLD			
C 12	70-K-2185	15	BLD	BLD	0.10%			
C 13	70-K-2186	15	5	BLD	BLD			
C 14	70-K-2187	25	10	BLD	BLD			
C 15	70-K-2188	20	10	BLD	BLD			
C 16	70-K-2189	20	5	BLD	BLD			
C 17	70-K-2190	15	5	BLD	BLD			
C 18	70-K-2191	15	5	BLD	0.05%			
C 19	70-K-2192	20	5	BLD	BLD			
C 20	70-K-2193	20	5	BLD	BLD			
C 21	70-K-2194	10	BLD	BLD	BLD			
C 22	70-K-2195	10	BLD	BLD	BLD			
C 23	70-K-2196	10	BLD	BLD	BLD			
C 24	70-K-2197	15	10	BLD	BLD			
C 25	70-K-2198	20	10	BLD	BLD			
C 26	70-K-2199	15	5	BLD	BLD			
C 27	70-K-2200	20	10	BLD	BLD			
C 28	70-K-2201	15	5	BLD	BLD			
C 29	70-K-2202	25	5	BLD	BLD			
C 30	70-K-2203	10	BLD	BLD	BLD			
C 31	70-K-2204	15	5	BLD	BLD			
C 32	70-K-2205	20	5	BLD	BLD			
C 33	70-K-2206	20	5	BLD	BLD			
C 34	70-K-2207	20	BLD	BLD	BLD			
C 35	70-K-2208	15	BLD	BLD	BLD			
C 36	70-K-2209	15	5	BLD	BLD			
C 37	70-K-2210	10	BLD	BLD	BLD			
C 38	70-K-2211	15	5	BLD	BLD			
C 39	70-K-2212	20	5	BLD	BLD			
C 40	70-K-2213	20	5	BLD	BLD			
C 41	70-K-2214	10	BLD	BLD	BLD			
C 42	70-K-2215	15	5	BLD	BLD			
C 43	70-K-2216	15	BLD	BLD	BLD			
C 44	70-K-2217	10	BLD	BLD	BLD			
C 45	70-K-2218	15	5	BLD	BLD			
C 46	70-K-2219	15	BLD	BLD	BLD			

METHODS:



This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

Ray W. Park

101

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001427 PROJECT No. EL. 6/68. TEXENS/WOLFRAM CK. AREA
 LAB. SHEET No. 468/7 SAMPLE TYPE STREAM SED. DATE 6th November, 1970.

SAMPLE No.	LAB. No.	Mo ppm	Bi ppm	W ppm	Sn %			
C 47	70-K-2220	10	BLD	BLD	BLD			
C 48	70-K-2221	10	BLD	BLD	BLD			
C 49	70-K-2222	15	BLD	BLD	BLD			
C 50	70-K-2223	20	10	BLD	BLD			

METHODS:



This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

Ray W. Girdle

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001428 PROJECT No. EL.6/68 - TEXINS/COPPER SHOW CK. ARE

LAB. SHEET No. 468/8 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm				
C 1	70-K-2224	10	30	30	BLD				
C 2	70-K-2225	10	25	35	BLD				
C 3	70-K-2226	20	30	40	BLD				
C 4	70-K-2227	15	30	40	BLD				
C 5	70-K-2228	10	25	25	BLD				
C 6	70-K-2229	10	30	30	BLD				
C 7	70-K-2230	BLD	25	10	BLD				
C 8	70-K-2231	30	60	80	1				
C 9	70-K-2232	2	20	15	BLD				
C 10	70-K-2233	10	30	20	BLD				
C 11	70-K-2234	5	45	35	BLD				
C 12	70-K-2235	5	35	25	BLD				
C 13	70-K-2236	10	45	20	1				
C 14	70-K-2237	25	105	110	2				
C 15	70-K-2238	30	60	205	1				
C 16	70-K-2239	15	50	60	1				
C 17	70-K-2240	30	40	60	1				
C 18	70-K-2241	30	50	65	1				
C 19	70-K-2242	5	40	25	1				
C 20	70-K-2243	5	30	30	BLD				
C 21	70-K-2244	5	30	15	BLD				
C 22	70-K-2245	10	35	30	BLD				
C 23	70-K-2246	5	25	20	BLD				
C 24	70-K-2247	25	65	80	1				
C 25	70-K-2248	25	70	65	1				
C 26	70-K-2249	30	40	40	BLD				
C 27	70-K-2250	40	65	95	1				
C 28	70-K-2251	10	30	30	BLD				
C 29	70-K-2252	25	50	60	1				
C 30	70-K-2253	BLD	30	10	BLD				
C 31	70-K-2254	20	55	60	1				
C 32	70-K-2255	30	60	70	1				
C 33	70-K-2256	25	55	60	1				
C 34	70-K-2257	10	40	40	1				
C 35	70-K-2258	5	50	40	1				
C 36	70-K-2259	5	40	35	1				
C 37	70-K-2260	15	60	145	1				
C 38	70-K-2261	10	50	35	1				
C 39	70-K-2262	15	55	35	1				
C 40	70-K-2263	15	50	40	1				
C 41	70-K-2264	5	35	20	BLD				
C 42	70-K-2265	5	35	25	BLD				
C 43	70-K-2266	BLD	30	20	BLD				
C 44	70-K-2267	BLD	25	20	BLD				
C 45	70-K-2268	5	40	30	BLD				

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Cu, Pb, Zn, Ag by GRC No. 1

B.L.D. = Below Limit of Detection



Chief Chemist

10.

044103

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. CC1428 PROJECT No. EL.6/68 - TEXINS

LAB. SHEET No. 468/9 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm				
C 46	70-K-2269	5	45	20	BLD				
C 47	70-K-2270	5	40	15	1				
C 48	70-K-2271	5	35	35	1				
C 49	70-K-2272	5	40	20	1				
C 50	70-K-2273	20	45	35	1				

METHODS:



This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

Ray W. M. [Signature]

104

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001428 PROJECT No. EL. 6/68 - TEXINS

LAB. SHEET No. 468/9 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970

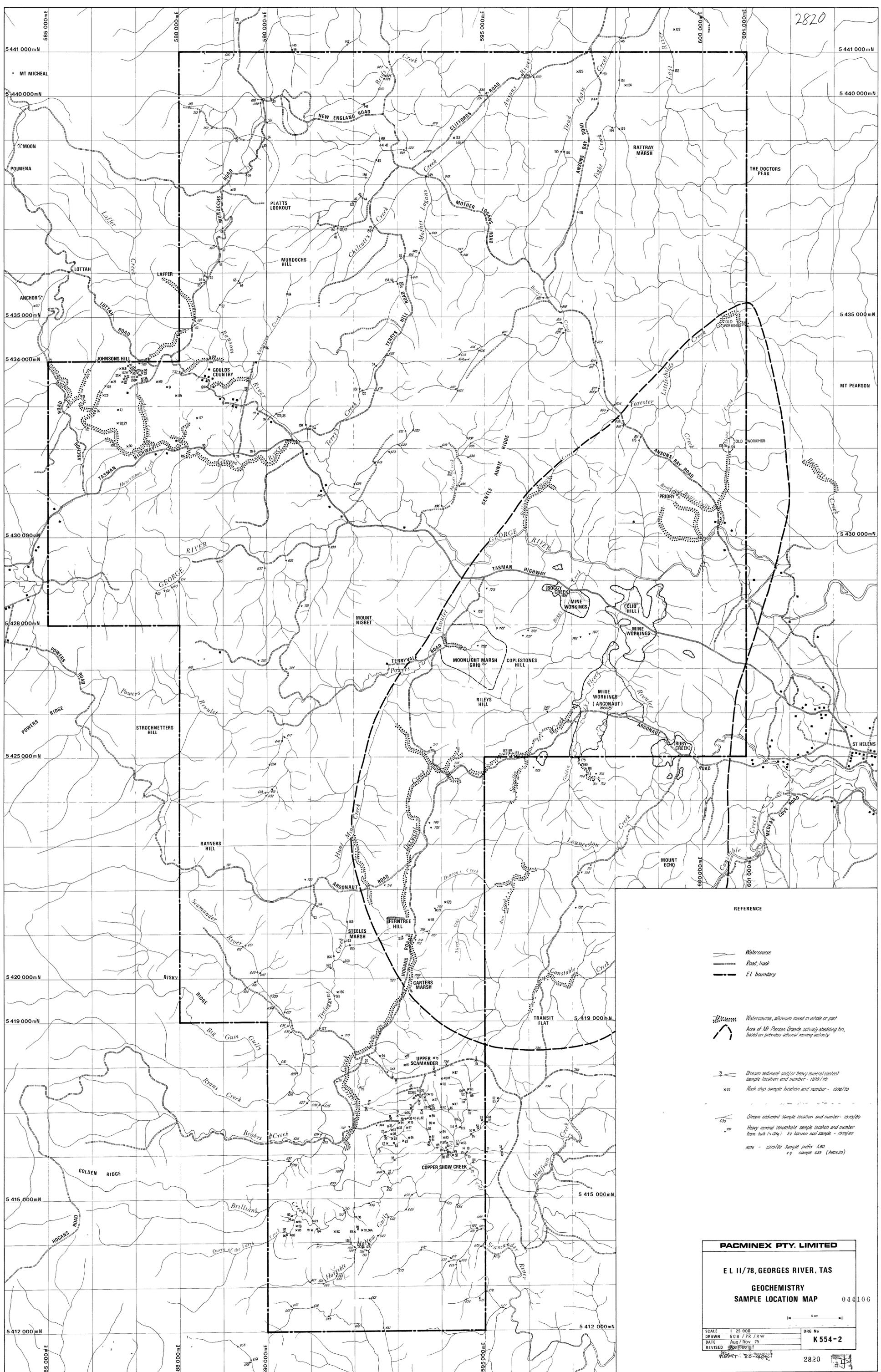
SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm			
C 46	70-K-2269	5	45	20	BLD			
C 47	70-K-2270	5	40	15	1			
C 48	70-K-2271	5	35	35	1			
C 49	70-K-2272	5	40	20	1			
C 50	70-K-2273	20	45	35	1			

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.



Chief Chemist *Ray W. [Signature]*



- REFERENCE
- Watercourse
 - Road, track
 - EL boundary
 - Watercourse, alluvium mixed in whole or part
 - Area of Mt. Pearson Granite actively shedding hrs, based on previous alluvial mining activity
 - Stream sediment and/or heavy mineral content sample location and number - 1978/79
 - Rock chip sample location and number - 1976/79
 - Stream sediment sample location and number - 1979/80
 - Heavy mineral concentrate sample location and number from bulk (-250) As horizon soil sample - 1979/80
- NOTE - 1979/80 Sample prefix A80
e.g. sample 639 (A80.639)

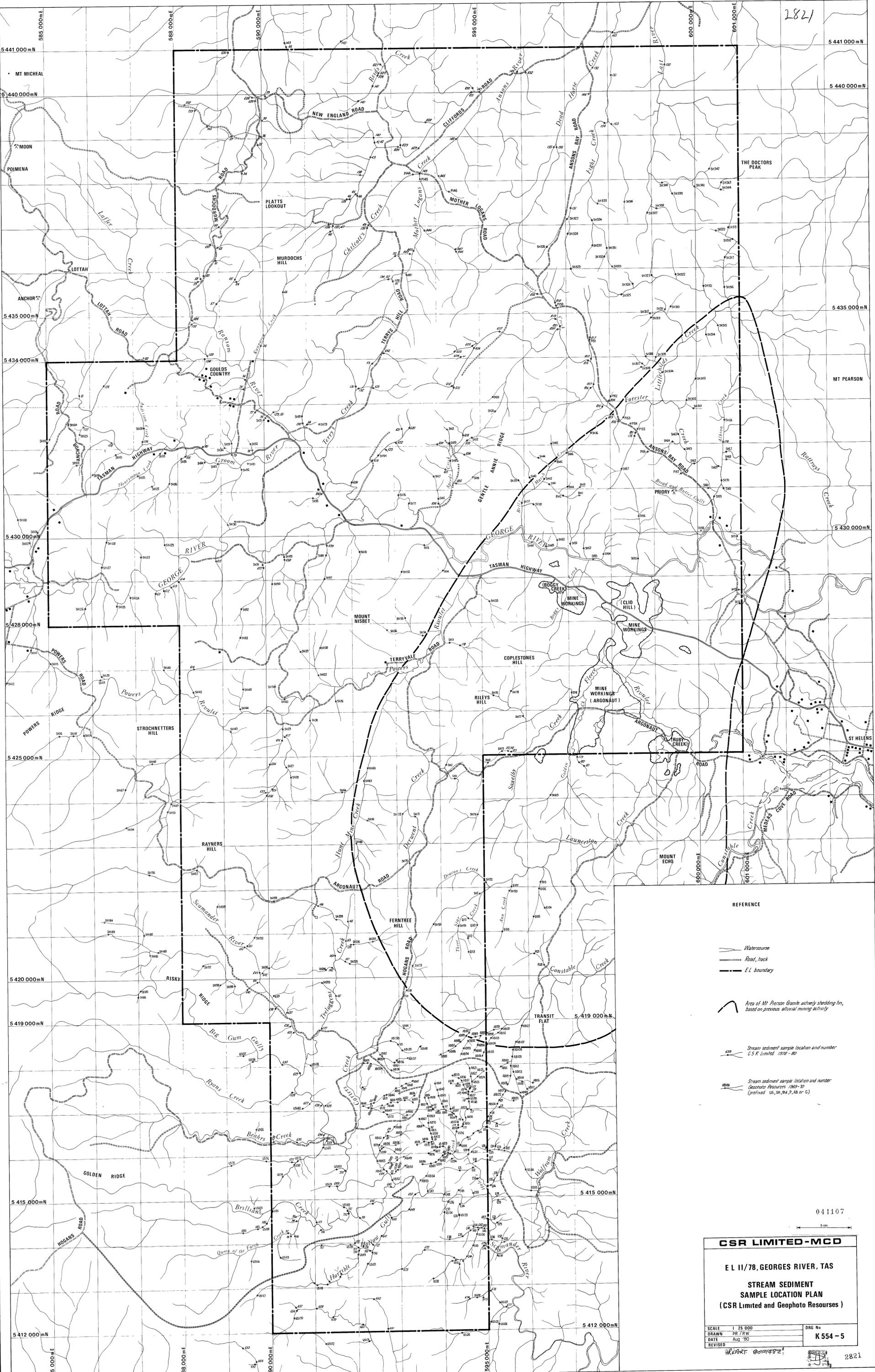
PACMINEX PTY. LIMITED

E L 11/78, GEORGES RIVER, TAS

GEOCHEMISTRY
SAMPLE LOCATION MAP 044106

SCALE 1:25 000 DRG No
DRAWN GGH / PR / RW
DATE Aug / Nov 78 **K554-2**
REVISED 1980

Robert 86-7452 2820



- REFERENCE**
- Watercourse
 - Road, track
 - E.L. boundary
 - Area of Mt. Pearson granite actively shedding In, based on previous alluvial mining activity
 - Stream sediment sample location and number C.S.R. Limited, 1978-80
 - Stream sediment sample location and number Geophoto Resources, 1969-70 (provided as US, SA, PA, R, LB or C)

041107

5 cm

CSR LIMITED-MCD

E L 11/78, GEORGES RIVER, TAS

STREAM SEDIMENT SAMPLE LOCATION PLAN
(CSR Limited and Geophoto Resources)

SCALE 1:25 000	DWG No
DRAWN PR/RW	K 554-5
DATE Aug '80	
REVISED	

REPORT 80/4482