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825001

PRELIMINARY EVALUATION
AUGER SAMPLING OF
ALLIED MINING ENTERPRISES PTY. LTD.
GLADSTONE AREA N. E. TASMANIA

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AMG REFERENCE POINTS ADDED

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TABLE OF CONTENTS

	<u>PAGE NO.</u>
SUMMARY	
1. INTRODUCTION	1
2. LOCATION AND ACCESS	1
3. TENNEMENT SITUATION	2
4. GEOLOGICAL SETTING	4
5. SAMPLING PROGRAMME	5
5.1 GLADSTONE ROAD BLOCK	5
5.2 PEACOCK CREEK BLOCK	5
5.3 AMBER CREEK BLOCK	6
6. RESERVE ESTIMATE	7
6.1 GLADSTONE ROAD BLOCK	7
6.2 PEACOCK CREEK BLOCK	8
6.3 AMBER CREEK BLOCK	9
7. FEASIBILITY PARAMETERS	9
8. CONCLUSIONS AND RECOMMENDATIONS	10
REFERENCES	11

LIST OF PLATES

- | | | |
|----|-------------------------------------------------------|------------------------------|
| 1. | Location A.M.E. Mineral Leases - Gladstone N.E. Tasm. | <u>Scale.</u>
1" = 20 ch. |
|----|-------------------------------------------------------|------------------------------|

LIST OF FIGURES

- | | | |
|----|---------------------------------------------|----------|
| 1. | Location Map. | |
| 2. | Gladstone Road Block - drill hole Locations | 1:5000 |
| 3. | Peacock Creek Block -drill hole Locations | 1:5000 |
| 4. | Amber Creek Block - Sample Locations | 1:10,000 |

LIST OF TABLES

- | | | |
|----|------------------------------------------|--------------|
| | | <u>Page.</u> |
| 1. | Mining Leases Held as at 1st July, 1977. | 2 |
| 2. | Water Rights Held as at 1st July, 1977. | 3 |
| 3. | Reserves - Gladstone Road Block. | 7 |
| 4. | Reserves - Peacock Creek Block. | 8 |

LIST OF APPENDICES

- | | |
|----|--------------------------------------------|
| 1. | Drill & Assay Data - Gladstone Road Block. |
| 2. | Drill & Assay Data - Peacock Creek Block. |

SUMMARY

Under an option agreement with ALLIED MINING ENTERPRISES PTY. LTD., SEREM (AUSTRALIA) PTY. LTD. carried out preliminary sampling during the period 30th April to 30th May, 1978.

The test work consisted of survey and auger drilling on a square grid to bedrock. Samples of the stanniferous alluvium were obtained and assayed.

The properties of ALLIED MINING ENTERPRISES were examined independantly by Mr. T. A. Miller, a consultant mining engineer, to establish feasibility parameters for the area. He established that a minimum deposit of the order 1 million cu. yds. at a grade of 12.0 oz./cu. yd. would be required.

SEREM established reserves from the Gladstone Road and Peacock Creek Blocks at 290,000 cu. yds at a grade of 8.0 oz/cu. yd. of 70% cassiterite. Reserves from the Amber Creek Block have not been established but it is considered that reserves and grade would not be substantially different to the other two blocks.

The reserves and grade do not meet the minimum requirements established by Miller to establish an economically viable mining operation. The properties of ALLIED MINING ENTERPRISES are considered not to be of any further interest to SEREM (AUSTRALIA) PTY. LTD.

1. INTRODUCTION

SEREM (AUSTRALIA) PTY. LTD. commissioned B. R. G. M. (AUSTRALIA) to carry out preliminary testing of ALLIED MINING ENTERPRISES PTY. LTD.'s leases at Gladstone in North-East Tasmania. The test work was carried out during the period 30th April to 30th May, 1978.

The leases examined were in three groups, viz. Gladstone Road Block, Peacock Creek Block and Amber Creek Block. ALLIED MINING ENTERPRISES previously tested these areas by back hoe pitting, but unfortunately results were never documented.

SEREM's test work involved surveying and auger drilling to bedrock to obtain a sample of the stanniferous alluvium. Each sample was hand panned to obtain a heavy mineral concentrate, which was assayed to obtain a grade of 70% cassiterite (expressed as pounds/cu.yd.) for each auger hole.

2. LOCATION AND ACCESS

The Allied Mining alluvial deposits are situated some 5km South of Gladstone in the catchment system of the Ringarooma River, which is in the North East coast district of Tasmania. Gladstone is approximately 140km from Launceston and is served by a full width bitumen road, the Tasman Highway, as far as Herrick, and then a narrow bitumen road to Gladstone. A railway line from Launceston to the rail head at Herrick, 26 km South West of Gladstone, also services the district (see Figure 1).

Access to the Gladstone road area is gained via the main bitumen road to Gladstone which, traverses these leases. The Peacock Creek and Amber Creek areas are accessible by an all-weather dirt road which branches off the bitumen some 3km South of Gladstone, known locally as the Lanka or Ogilvies Bridge Road.

ALLIED MINING AREA

AMG REFERENCE POINTS ADDED

825006



TO BRIDPORT

RINGAROOMA

Browns Bridge Rd.

Gladstone AMG 584550E, 5464900N

MT. CAMERON

Gladstone Road Block

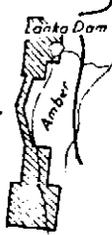


B.M.I. MINE OFF.

South Mt Cameron

Peacock Ck. Block

Amber Creek Block



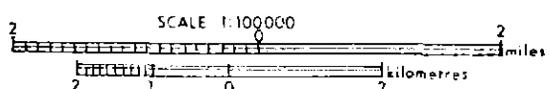
AMG 579300E, 5461700N

Pioneer

RIVER

1.2 KM TO TASMAN HWY

RINGAROOMA



5 cm



FIGURE 1

3. TENEMENT SITUATION

ALLIED MINING ENTERPRISES PTY. LTD. (A.M.E.) are the registered title holders of twenty-five mining leases in the Gladstone district. The leases are grouped in three separate blocks and are tabulated in Table 1 and shown on Plate 1. Five leases for water rights are also held and these are tabulated on Table 2 and shown on Plate 1.

TABLE 1.

MINING LEASES HELD AS AT 1ST JULY, 1977

Location	Lease No.	Area (Acres)	Mineral Chart Reference
Gladstone Rd. Block	7m/59	5	Winnaleah 2 North
	151m/70	40	"
	152m/70	20	"
		40	"
	154m/70	30	"
	155m/70	79	"
	156m/70	50	"
	157m/70	75	"
Peacock Ck. Block	32m/70	5	Fraser 1 North
	42m/70	5	"
	61m/70	5	"
	62m/70	5	"
	67m/70	30	"
	100m/70	50	"
	101m/70	5	"
	102m/70	8	"
	103m/70	20	"
	104m/70	80	"
Amber Ck. Block	105m/70	5	Gladstone 1 South
	94m/70	80	Fraser 1 North
	95m/70	50	"
	96m/70	20	"
	97m/70	20	"
	98m/70	50	"
	99m/70	5	"
109m/70	10	"	

TABLE 2.
WATER RIGHTS HELD AS AT 1ST JULY, 1977

Location	Licence No.	Capacity	Mineral Chart Reference
Peacock Ck. Block	2W/70	2 sluice heads ⁺	Fraser I North
	3W/70	1 " "	"
	4W/70	1 " "	"
	14W/70	5 acres	"
Amber Ck. Block	15W/70	4 sluice heads	"

+ 1 Tasmanian sluice head is 150 gallons per minute.

A.M.E. have agreed to grant to SEREM certain rights and options including the exclusive right to carry out exploration and an option to acquire the Mining Leases referred to in Tables 1 and 2 and Plate 1.

4. GEOLOGICAL SETTING

The Gladstone area of north-east Tasmania covered in this report is underlain by granitic rocks which are part of a large belt of essentially post-tectonic granitic bodies. The granitic plutons are generally of calcic adamellite and granodiorite composition of Upper Devonian age. The main batholith in this area - The Blue Tier - intrudes the Lower Paleozoic Mathinna Beds, which are a sequence of slightly metamorphosed sandstones and siltstones.

In the Blue Tier Batholith seventeen petrologically distinct granitic types have been identified (Groves et al, 1977). Only two or three of these groups are tin granites which are muscovite - biotite bodies, porphyritic in part.

Tertiary sediments, including sand, gravel and clay are widespread in the area. Tertiary sediments commonly occupy tertiary river channels. In the Mt. Cameron area there is evidence that the ancestral Ringarooma River and others emptied into a lake (Brown, 1978).

Tertiary sediments have been the main source of tin in the north-east of Tasmania. Reworked tertiary deposits commonly occur in present drainage systems.

Two types of secondary shallow alluvial deposits are recognised in this area.

- a) Shallow marine and/or river terraces with some eluvial material. Deposits of this type are from 1' to 15' thick and occur as a blanket over the bedrock. The Gladstone Road Block of ALLIED MINING ENTERPRISES is an example of this type.
- b) Tributary leads of the main deep leads. Deposits of this type could be up to 60' thick, e.g. Amber Hill, near Peacock Creek.

5. SAMPLING PROGRAMME

A total of 171 auger holes were surveyed and drilled to bedrock on the Gladstone Road and Peacock Creek blocks. Due to lack of access, Amber Creek block was not drilled.

Holes were drilled using a trailer-mounted Gemco Auger towed by a farm tractor. Samples were collected to bedrock for each hole. Each sample was reduced by coning and quartering, then hand panned in a 5 litre gold panning dish to produce a heavy mineral concentrate for each hole. The concentrates were later assayed for Sn only by XRF after sample dilution.

5.1 Gladstone Road Block (Plate 1 Figure 2)

An 80m x 80m square grid was surveyed over the entire base area. Auger holes were drilled at every accessible grid point, 144 holes in total. Holes were drilled regardless of the fact that the ground had been previously scraped to bedrock. All holes were drilled to recognisable bedrock, which in this area is a decomposed granite. The granite is often hard to distinguish from clay, but the presence of feldspar and mica generally helps in identification.

The full list of drilling results is tabulated in Appendix 1 and shown on Figure 2. Auger holes generally penetrated a short distance into bedrock, because it is not possible to terminate the hole at the contact by the drilling method.

5.2 Peacock Creek Block (Plate 1 & Fig. 2)

A 160m x 160m square grid was surveyed over the lease block. Auger holes were drilled to bedrock at all accessible grid points - 27 holes in total. Bedrock in this area is the same as in the Gladstone Road Block - a weathered granite clay of blue/grey colour, containing recognisable feldspar and mica.

The full list of drilling results are tabulated in Appendix 2 and are shown on figure 3.

Previous prospecting by Allied Mining indicated the present Peacock Creek drainage was more prospective than the tertiary cover on the hills and slopes. Only one hole, 3N 2E could be located to test this.

5.3 Amber Creek Block (Plate 1 & Figure 4)

The Amber Creek Block was not gridded as it was inaccessible at the time of drilling campaign. The trailer-mounted auger rig could not be taking into the area due to a particularly bad creek crossing over Amber Creek below Lanka Dam.

Two samples were collected at the junction of Lowes and Amber Creeks - one from the bank of Lowes Creek where a 10' thickness of wash was exposed, and the other from an old backhoe hole dump. This area is claimed to be highly prospective with grades of up to 15 lb./cu.yd. Since drilling could not be undertaken, these two samples were collected from the area reputed to be the most prospective.

The sample from the creek bank was a channel sample from grass roots to bottom. Sample volume was 10 litres.

The sample from the dump was taken over a one foot depth from the top of the dump which was showing granite fragments on its surface. This sample presumably would be representative of the basal section of wash from the backhoe hole, but this cannot be assumed to be correct. All backhoe holes were full of water, preventing channel sampling down their walls.

6. RESERVE ESTIMATE

6.1 Gladstone Road Block

Depths and grades for each hole are listed in Appendix 1 and shown on Figure 2. Generally, the grades are lower than expected, but this could be due to some dilution because of the sampling method. The higher grades are patchy, similar to those encountered by B.M.I. (now Kibuka Mines) in their mining operation on an adjacent area. Depths of wash are a maximum. Due to the drilling method, accurate depths to basement could not be obtained, therefore volume estimates must be regarded as a maximum possible and are possibly as much as 20% too high.

Five small, isolated areas with grades better than 0.25 lb./cu.yd. were delineated and are shown on Figure 2.

Calculated volume and grade for each area are shown in Table 3.

Table 3

Reserves - Gladstone Road Block

Area	Volume (cu.yds.)	Grade lb./cu.yd.	Grade oz./cu.yd.	Ave. Wash Thickness (yd)
1	12,360	0.50	8.0	0.78
2	14,120	0.33	5.3	0.72
3	66,410	0.49	7.8	1.67
4	12,700	0.55	8.8	0.83
5	42,950	0.38	6.1	1.89
Total	148,630	0.45	7.2	1.50

An inferred volume of 148,630 cu. yds. at a grade of 7.2 oz./cu.yd. is indicated using a cut-off grade of 0.25 lb/cu.yd. in the five discrete areas.

6.2 Peacock Creek Block

Depths and grades for each hole are listed in Appendix 2 and shown in Figure 3. The same restrictions of depths and grades applied to the Gladstone Road block are relevant in the Peacock Creek block.

Again grades were found to be lower than expected and patchy, as in the Gladstone Road area. Previous work by ALLIED MINING suggested that most of the cassiterite was concentrated in the present Peacock Creek drainage system. ALLIED's work was not documented and could not be rectified.

In this programme it was possible to locate only one drill hole in the present stream bed (3N,2E; Fig. 3).

Three small isolated areas with grades better than 0.25 lbs./cu.yd. were delineated and are shown on fig. 3.

Calculated volume and grade for each area are shown in Table 4.

Table 4.

Reserves - Peacock Creek Block

Area	Volume (cu.yds.)	Grade lb/cu.yd.	Grade oz/cu.yd.	Ave. Wash Thickness (yd.)
1	65,050	0.39	6.2	1.11
2.	39,767	0.44	7.0	1.33
3	31,993	1.12	17.9	1.12
Total	136,810	0.58	9.3	1.15

An inferred volume of 136,810 cu.yds. at a grade of 9.3 oz./cu.yd. is indicated using a cut-off grade of 0.25 lb./cu.yd. in the three discrete areas.

The volume of wash available in the present Peacock Creek is restricted to an area between 1N and 6N (see fig. 3) Taking an average depth of one yard, average width of 20 yards, and a length of 1200 yards, the volume of wash available is estimated at 24,000 cu.yds. Only one hole, 3N 2E, was sited in the creek and this returned a grade of 0.53 lb./cu. yd. over a 4 ft. depth of hole. It cannot be assumed that this grade is representative for the entire volume of wash in Peacock Creek.

6.3 Amber Creek Block

Reserves for this block were not estimated. An inspection of the area indicates the availability of a small volume of wash in the headwaters of Amber Creek within lease 94M/70. Reserves elsewhere in this block are considered to be of limited extent.

Two samples were collected - one from the junction of Lowes and Amber Creeks returned a grade of 0.38 lb./cu.yd. over a 10 ft. thickness of wash. The other from an old pit dump returned a value of 0.47 lb./cu.yd. These grades are an indication only, and are not considered to be representative of the wash in the headwaters of Amber Creek.

7. FEASIBILITY PARAMETERS

The properties of ALLIED MINING ENTERPRISES at Gladstone Road, Peacock Creek and Amber Creek were examined by Mr. T. A. Miller, an independent consulting mining engineer, between 23rd and 29th May, 1978.

The prime purpose of this study was to set minimum targets for economically viable alluvial deposits.

In summary Miller arrived at the following conclusions:-

- a) Methods and costs envisage low capitalization, limited personnel numbers, limited facilities and low overheads.
- b) No exploration or acquisition costs have been included, nor has any attempt been made to incorporate existing equipment included in the offer, although more detailed planning may show that some of this can be used.

- c) A minimum period of three years has been set for the recovery of establishment costs and a 50% depreciation of capital items.
- d) A price of 19 cents per ounce was used for tin concentrate sales which is equivalent to a tin metal price of \$9308 per tonne for 72% concentrate.
- e) To achieve a return of 25% on funds employed, it was concluded that the following would be required in the ALLIED MINING ENTERPRISES areas:

Throughput per month at 100 cu.yds./hr.	:	17,600 cu. yds.
Minimum deposit size	:	635,000 cu. yds.
Minimum grade	:	11.3 oz./cu. yd.
Capital Cost	:	\$48,000
Establishment Cost	:	\$20,000
Sales per month	:	\$25,695
Costs per month	:	\$20,566
Profit per month	:	\$ 5,129
Production per month	:	3.83 tonnes

8. CONCLUSIONS AND RECOMMENDATIONS

Reserves from the Gladstone Road and Peacock Creek blocks have been calculated. These areas give a combined reserve of 285,440 cu. yds. at a grade of 8.2 oz./cu. yd. of 70% cassiterite. Reserves from the Amber Creek block are not included, but it is considered that this block would not substantially add to the reserves stated for the other blocks.

The reserves and grade calculated do not meet the minimum requirements established by Miller in his feasibility study (section 7) to establish an economically viable mining operation.

It is recommended that SEREM (AUSTRALIA) PTY. LTD. do not exercise their option with A.M.E. to purchase their mineral leases in the Gladstone area.

REFERENCES

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Unpubl. Rep. B.R.G.M. 78/SYD/06.
2. Brown, A.V. 1978. Tertiary Lead and Basin - Winnaleah Map Sheet.
Unpubl. Rep. Dep. Mines Tasm. 1978/7
3. Groves, D.I.; Cocker, J.D.; Jennings, D.J. 1977.
The Blue Tier Batholith. Bull. geol. Surv. Tasm. 55.
4. Miller, T.A. 1978. Mining Methods for Alluvial Tin Areas -
at Gladstone, N.E. Tasm. Unpubl. Rep for Serem (Aust)
June 1978.

Sample No.	Location	Depth of Hole (ft)	Sn %	Grade % ^{70/Sr} lb/cyd	Sample No.	Location	Depth of Hole (ft)	Sn %	Grade % ^{70/Sr} lb/cyd
0431	0N 5E	3	1.62	0.04	0462	7N 8E	2	2.45	0.06
32	0N 6E	3	2.38	0.16	63	7N 9E	4	5.34	0.54
33	1N 5E	3	12.50	0.66	64	8N 2E	4	0.34	0.07
34	1N 6E	3	2.26	0.05	65	8N 3E	2	1.90	0.11
35	1N 7E	3	2.02	0.06	66	8N 4E	2	1.41	0.04
36	2N 5E	4	3.12	0.12	67	8N 5E	3	0.84	0.06
37	2N 6E	2	7.70	0.49	68	8N 6E	4	1.44	0.07
38	2N 7E	2	3.40	0.26	69	9N 2E	2	1.27	0.05
39	2N 8E	2	0.63	0.04	0470	9N 3E	2.5	0.70	0.08
0440	3N 5E	3.5	1.00	0.09	71	9N 4E	3	1.40	0.08
41	3N 6E	3	7.15	0.24	72	9N 5E	2	0.92	0.07
42	3N 7E	1.5	2.04	0.14	73	9N 6E	2	1.41	0.04
43	3N 8E	3	2.14	0.16	74	9N 7E	3	0.36	0.02
44	4N 5E	3.5	2.56	0.06	75	10N 2E	2	0.62	0.06
45	4N 6E	1.5	0.53	0.01	76	10N 3E	1	1.02	0.04
46	4N 7E	2	2.17	0.26	77	10N 4E	4	10.50	0.23
47	4N 8E	2	0.64	0.01	78	10N 5E	3	2.86	0.10
48	5N 5E	3	6.44	0.13	79	10N 6E	3	2.22	0.04
49	5N 6E	3	5.40	0.29	0480	10N 7E	3	0.57	0.05
0450	5N 7E	1.5	4.44	0.51	81	10N 8E	1.5	1.68	0.05
51	5N 8E	2.5	0.50	0.03	82	11N 1E	2	11.50	0.28
52	5N 9E	3	1.34	0.02	83	11N 2E	1	1.08	0.06
53	5N 10E	3	3.28	0.05	84	11N 3E	3	15.60	1.66
54	6N 5E	2	2.08	0.04	85	11N 4E	10	3.33	0.25
55	6N 6E	2	1.43	0.04	86	11N 5E	2	1.81	0.09
56	6N 7E	2	0.89	0.02	87	11N 6E	2	0.97	0.04
57	6N 8E	3	1.26	0.03	88	11N 7E	3	2.66	0.05
58	6N 9E	4	1.43	0.04	89	11N 8E	3	1.12	0.11
59	7N 2E	3	1.30	0.08	0490	12N 3E	4	14.50	0.29
460	7N 3E	2	0.20	0.01	91	12N 4E	4	3.18	0.06
61	7N 4E	2	0.38	0.03	92	12N 5E	3	6.80	0.54

Sample No	Location	Depth of Hole (ft)	Sn %	Grade lb/cyd	Sample No	Location	Depth of Hole (ft)	Sn %	Grade lb/cyd
0493	12N 6E	2	7.16	0.09	0524	16N 10E	2	0.92	0.02
94	12N 7E	3	1.90	0.11	25	16N 11E	6	4.67	0.25
95	12N 8E	2	1.60	0.07	26	16N 12E	4	1.10	0.03
96	12N 9E	3	2.38	0.16	27	16N 14E	4	1.18	0.10
97	12N 10E	2	0.78	0.02	28	16N 15E	3	0.80	0.02
98	12N 11E	2	0.64	0.04	29	17N 5E	4	0.96	0.04
99	13N 3E	6	14.10	0.57	0530	17N 6E	2	1.30	0.05
0500	13N 8E	2	3.36	0.07	31	17N 7E	2	7.67	0.25
01	13N 9E	2	0.14	0.01	32	17N 8E	4	2.24	0.03
02	13N 10E	2	1.42	0.05	33	17N 9E	2	1.52	0.09
03	13N 11E	7	2.83	0.06	34	17N 10E	4	8.56	0.39
04	14N 3E	4	0.60	0.02	35	17N 11E	4	0.30	0.01
05	14N 4E	2	0.88	0.07	36	18N 7E	8	3.16	0.04
06	14N 5E	3	4.72	0.62	37	18N 8E	2	11.20	0.24
07	14N 7E	4	1.82	0.04	38	18N 9E	3	0.20	0.01
08	14N 8E	3	0.58	0.04	39	18N 10E	3	6.01	0.21
09	14N 9E	3	3.38	0.09	0540	14N 6E	2	3.06	0.04
0510	14N 10E	3	0.90	0.07	41	19N 8E	3	2.50	0.35
11	14N 11E	7	5.36	0.10	42	19N 9E	3	2.78	0.18
12	15N 3E	3	0.46	0.02	43	19N 10E	3	0.42	0.02
13	15N 5E	2	2.60	0.13	44	20N 5E	2	0.84	0.06
14	15N 6E	2	7.32	0.45	45	20N 6E	2	1.32	0.04
15	15N 7E	4	1.96	0.10	46	20N 7E	3	3.22	0.19
16	15N 8E	4	2.32	0.04	47	20N 8E	3	2.86	0.08
17	15N 9E	4	1.03	0.09	48	20N 9E	3	2.00	0.03
18	16N 3E	6	2.04	0.18	49	20N 10E	4	0.40	0.01
19	16N 4E	3	1.15	0.07	0550	20N 11E	4	0.74	0.05
520	16N 6E	2	1.89	0.04	51	21N 5E	4	1.94	0.06
21	16N 7E	2	0.56	0.01	52	21N 6E	3	13.10	0.64
22	16N 8E	2	4.42	0.08	53	21N 8E	1	1.50	0.04
23	16N 9E	7	10.30	0.48	54	21N 10E	4	1.26	0.03

Sample No.	Location	Depth of Hole (ft)	Sn %	Grade lb/yard	Sample No.	Location	Depth of Hole (ft)	Sn %	Grade lb/yard
55	21N 11E	4	2.95	0.16					
56	22N 2E	4	0.34	0.01					
57	22N 3E	3	0.36	0.01					
58	22N 4E	8	0.86	0.02					
59	22N 5E	4	1.04	0.09					
60	22N 7E	3	0.78	0.03					
61	22N 8E	2	0.12	0.002					
62	22N 9E	3	0.52	0.02					
63	22N 10E	1	0.45	0.01					
64	22N 11E	4	1.57	0.05					
65	23N 4E	3	0.12	0.003					
66	23E 5E	4	0.14	0.01					
67	23N 7E	2.5	0.28	0.01					
68	23N 8E	2	0.28	0.01					
69	23N 9E	3	1.10	0.06					
70	23N 10E	2.5	2.08	0.04					
71	24N 5E	2.5	0.32	0.01					
72	24N 6E	2.5	0.12	0.003					
73	24N 7E	1.5	0.10	0.003					
74	24N 8E	2.5	0.29	0.01					

APPENDIX 2

825020

Peacock Creek Block

Sample No.	Location	Depth of Hole (ft)	Sn %	Grade lb/cyd	Sample No.	Location	Depth of Hole (ft)	Sn %	Grade lb/cyd.
0404	11N 0E	1	1.23	0.01					
05	11N 1E	2.5	0.94	0.02					
06	11N 2E	3	0.42	0.01					
07	10N 0E	3	0.46	0.003					
08	10N 1E	3	0.82	0.05					
09	10N 2E	4	1.34	0.02					
010	9N 0E	3	0.92	0.03					
11	9N 1E	2	1.66	0.02					
12	9N 2E	3	25.30	1.12					
13	8N 2E	3	0.92	0.02					
14	8N 3E	4	5.70	0.10					
15	7N 0E	2	0.54	0.02					
16	7N 1E	4	1.96	0.03					
17	7N 2E	1.5	1.32	0.05					
18	6N 0E	3	0.42	0.02					
19	6N 1E	2	13.96	0.05					
0420	6N 2E	4	10.50	0.44					
21	5N 0E	3	0.32	0.01					
22	5N 1E	2	2.11	0.06					
23	5N 2E	3	1.55	0.03					
24	4N 1E	2	0.50	0.02					
25	4N 2E	3	6.48	0.10					
26	3N 2E	4	14.20	0.53					
27	3N 3E	3	7.97	0.28					
28	3N 4E	4	8.32	0.24					
29	2N 3E	3	0.90	0.03					
0430	2N 4E	3	3.36	0.10					

TO GLADSTONE ROAD

LANKA
DAM

99M/
70

97M/70

98M/70

96M/70

109M/70

Amber
Ck

95M/70

**ALLIED MINING
ENTERPRISES**
Amber Creek Block

0.47 lb/cu yd

10'
0.38 lb/cu yd

94M/70

Alluvial
wash

Lowes
Ck

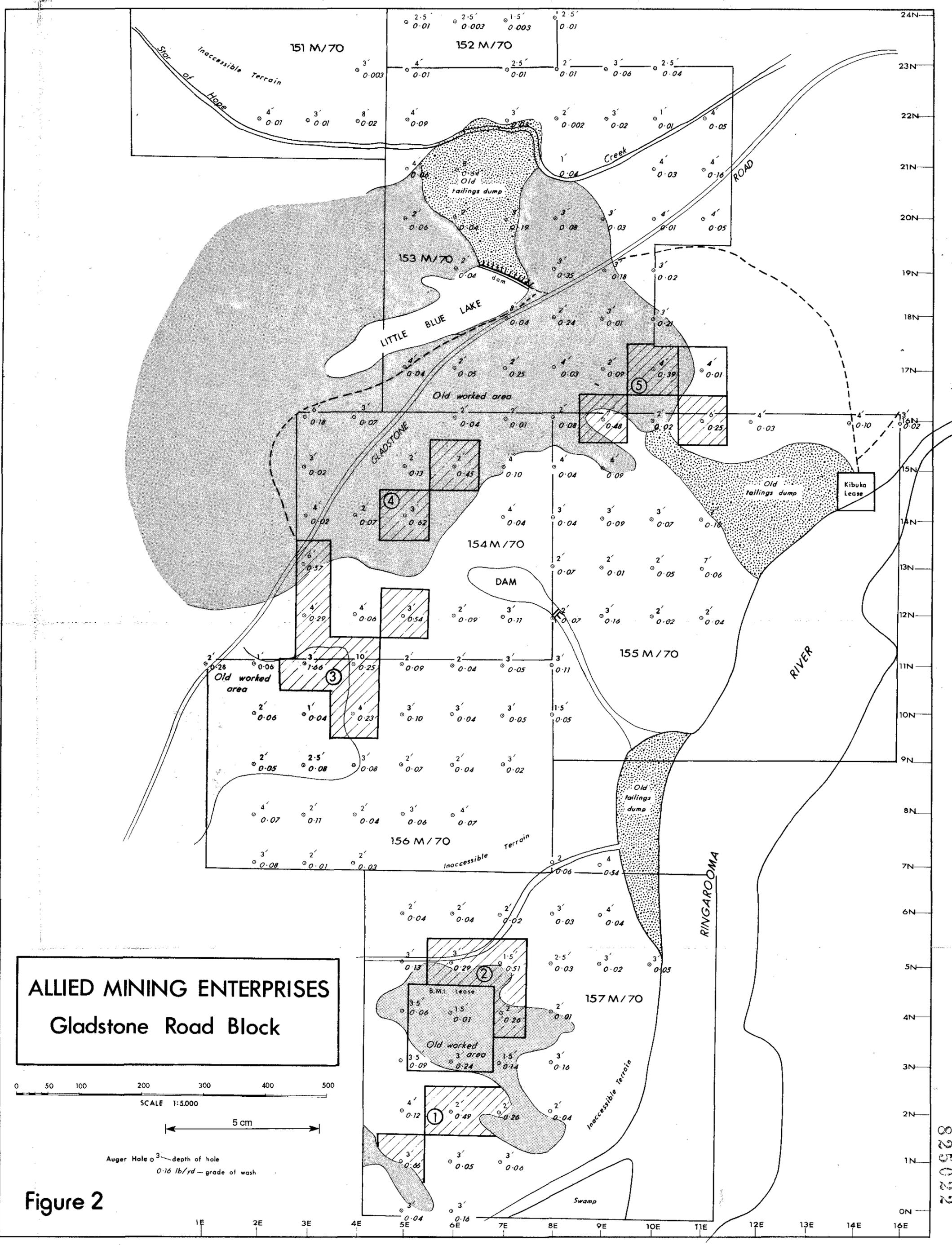
Old Workings

sample location ⊕
10' depth of wash
0.47 grade

5 cm

SCALE 1:10,000

0 100 200 300 400 500 1000
Mts



ALLIED MINING ENTERPRISES
Gladstone Road Block

0 50 100 200 300 400 500
 SCALE 1:5,000

5 cm

Auger Hole \circ depth of hole
 0.16 lb/yd - grade of wash

Figure 2

825022

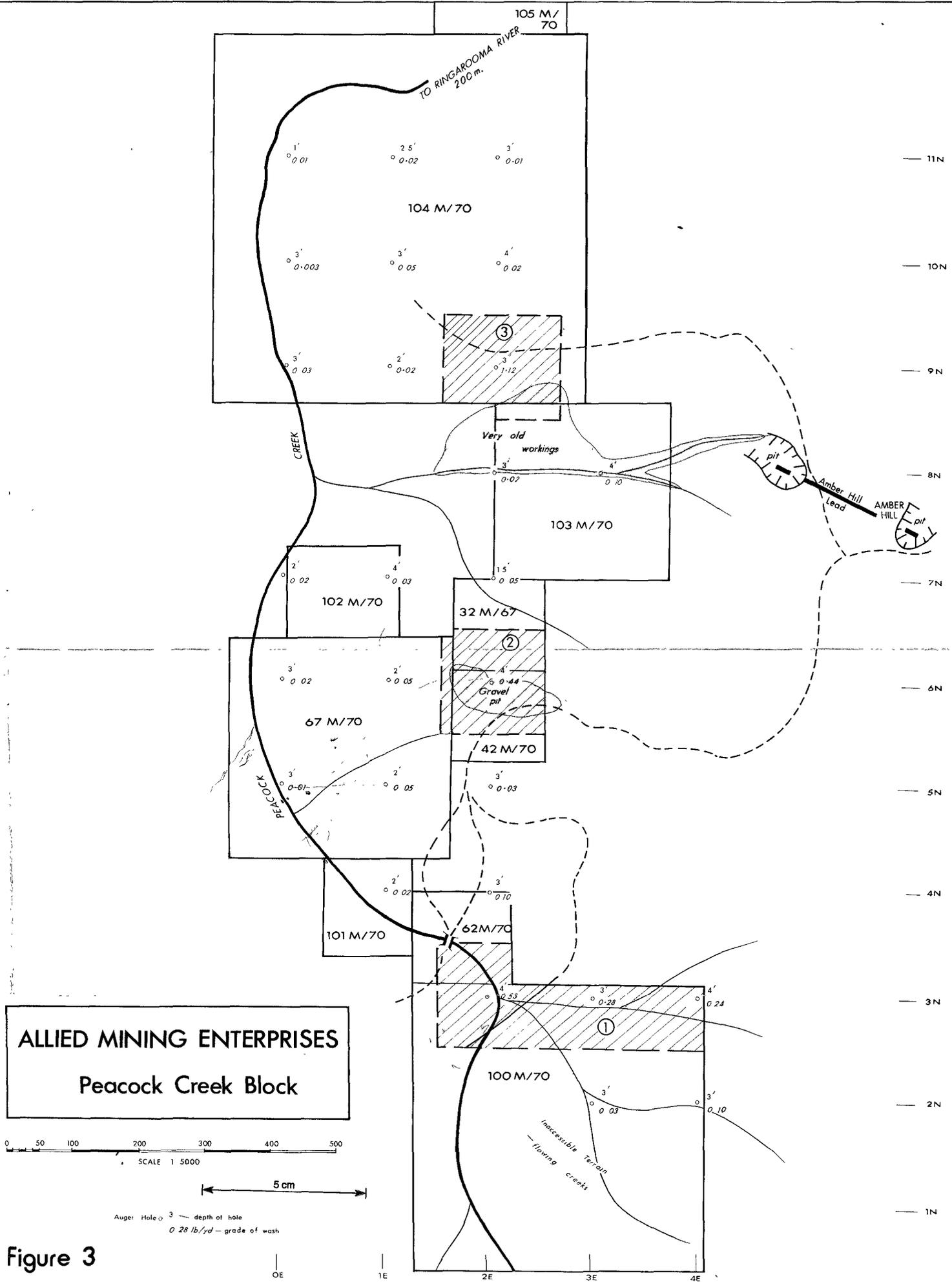
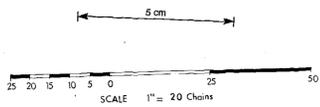


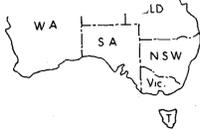
Figure 3

LOCATION OF MINING LEASES

GLADSTONE AREA - N.E. TASMANIA



95-3696.



PREPARED BY B R G M AUSTRALIA



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B.R.G.M. Report No: 78/SYD/08

