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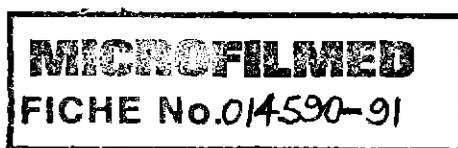
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**EXPLORATION LICENCE 19/93
RINGAROOMA BAY**



GENERAL RESOURCES	
EL 19/93	
- 7 APR 1998	
See folio 21.	

**ANNUAL REPORT ON EXPLORATION
MAY 1997 TO APRIL 1998**



for
Mineral Holdings Australia Pty Ltd
2nd Floor,
135, Collins St.,
Melbourne Vic 3000

Compiled by

**D. McP Duncan &
McPherson Duncan & Associates**
18, Old Summerleas Rd
Kingston Tas 7050

L. Rhodes
Consulting Metallurgist
PO Box 154
St Marys Tas 7215

3rd April 1998

98-4140

AMG REFERENCE POINTS ADDED

ANNUAL REPORT-97/98
EL 19/93-MINERAL HOLDINGS
D DUNCAN

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Plan 1- Locality Map and Mineral Tenements, Ringarooma Bay

Plan 2- Map of Alluvial Tin Resources, Ringarooma Bay

Plan 3- Tin Values in Sediments (jar samples), Ringarooma Bay

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Plan 6- TiO₂ plus ZrO₂ Values in Sediments (pump samples), Ringarooma Bay

Table 30- Possible Bulk Sample Sites, Ringarooma Bay

Appendix

EL 19/93- Ringarooma Bay- Annual Report

1.0 Introduction

EL 19/93 was granted to Mineral Holdings Australia Pty Ltd on 28th April 1997 for a maximum of 5 years to 4th April 2002 over an area of 18sq km at Ringarooma Bay to cover the extension into State Waters of the tin-bearing palaeochannel of the Ringarooma River.

Subsequently, two adjacent ELs were applied for to secure additional areas-landwards and seawards- of potential for alluvial tin. T2/MEL was applied for on 19th May 1997 covering some 48 sq km in Commonwealth Waters under the Offshore Minerals Act 1994. At the time of compiling this report, the granting of the licence was imminent.

EL 20/97 was applied for on 20th May 1997 to secure the extensions of the palaeochannel both offshore around EL 19/93 and T2/MEL and onshore to connect up with the Retention Licences 8715 and 8723 at Fosters Marshes and to cover the Bowlers Lagoon area suspected of concealing a former branch of the Ringarooma River. On granting on 20th January 1998, EL 20/97 was amalgamated into EL 19/93 to give a combined area of 52 sq km expiring on 4th April 2002 (Plan 1).

These licences held by Mineral Holdings Australia Pty Ltd consolidate the potential alluvial tin resources in the Ringarooma Bay region both onshore and offshore and allow exploration to proceed in a coherent manner with subsequent economies of scale.

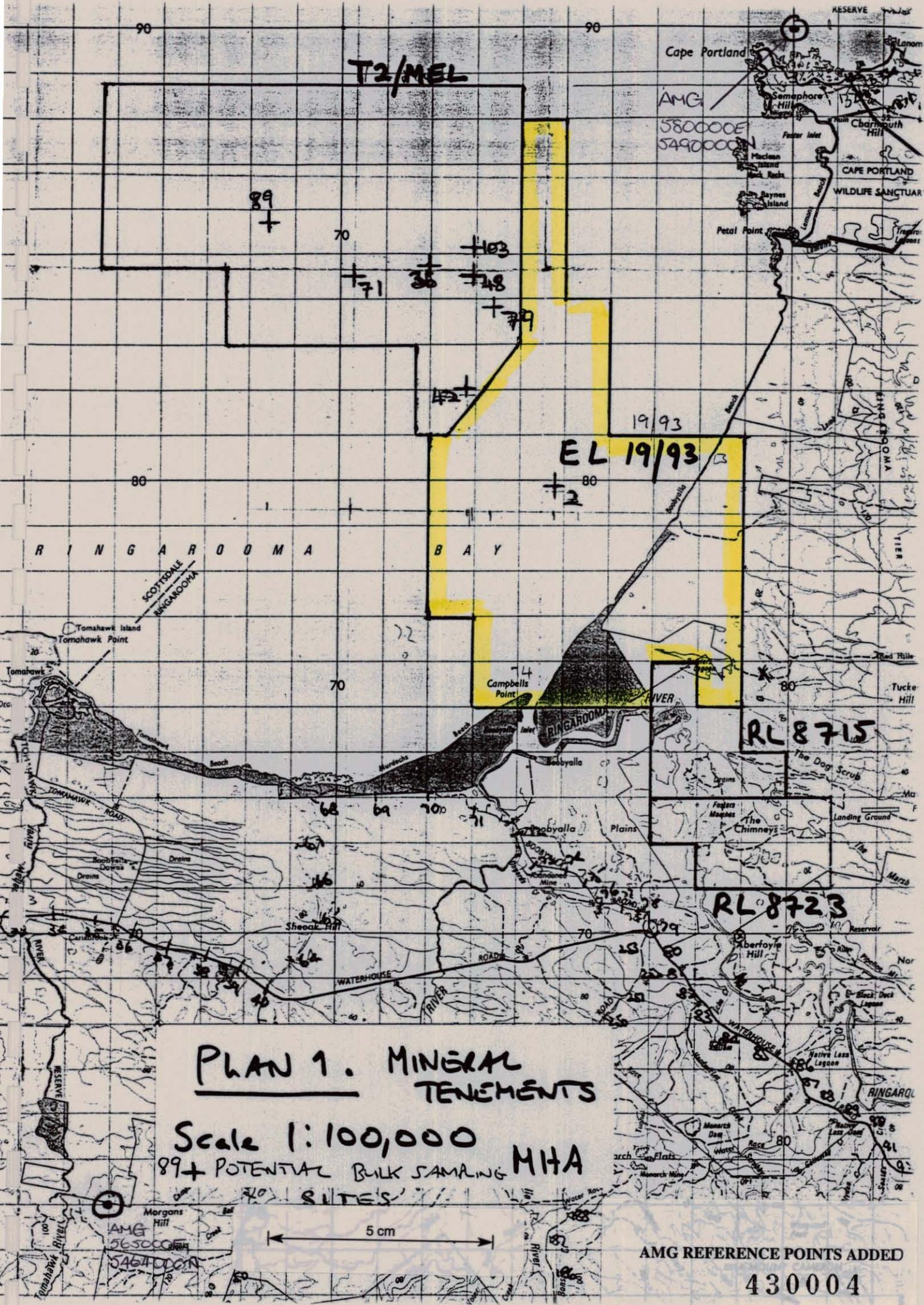
2.0 Previous Exploration

The Ringarooma Tin Project of Mineral Holdings Australia Pty Ltd consists of the tin-bearing palaeochannel of the Ringarooma River in NE Tasmania. Previous exploration as summarised by MacArthur (1995) has shown that the onshore and offshore components of the channel contain indicated resources of 109M cu m at 64g tin/ cu m and 16M cu m at 227g tin/ cu m respectively. In total offshore, there is an inferred resource of 130M cu m of potential tin wash (Plan 2).

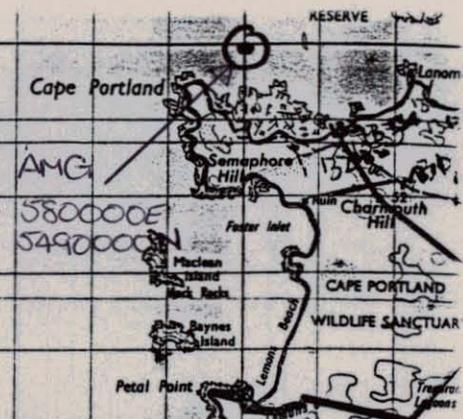
Additional values of minerals in the wash offshore include rutile and zircon averaging 55 g/cu m and 110 g/cu m respectively. Ilmenite is expected to be at similar concentrations as zircon. Gold has been recovered from the wash onshore by the Dorset Dredge at 3 mg/cu m while a composite sample from one onshore drill hole assayed 6 mg/ cu m. Monazite(rare earths) and sapphire are present but remain unquantified.

Historically since the 1870s, the Ringarooma catchment has produced over 40,000 tonnes of tin from onshore alluvial mines at Aberfoyle, Pioneer, Endurance and Briseis.

The onshore resource is currently held by MHA under Retention Licences 8715 (6 sq km) and 8723 (7 sq km) and the offshore resource by the same company under



T2/MEL



89 +

70

+103

+71

+35

+48

+79

+42

1993

EL 19/93

+2

R I N G A R O O M A

B A Y

SCOTTSDALE
RINGAROOMA

Tomahawk Island
Tomahawk Point

Tomahawk

70

4
Campbells
Point

RIVER

RL 8715

68 69 70 71

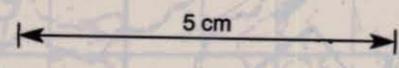
Boobyalla

RL 8723

PLAN 1. MINERAL TENEMENTS

Scale 1:100,000

89+ POTENTIAL BULK SAMPLING SITES MHA



AMG REFERENCE POINTS ADDED

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Exploration Licence 19/93 and the T2/MEL application. The extension of the palaeochannel and associated structures into Commonwealth Waters contains the bulk of the known tin resources.

3.0 Current Exploration

While awaiting the availability of a suitable dredge to carry out a bulk sampling program, it was decided to investigate the seabed with abalone divers using 15 foot boats equipped with GPS for navigation. Mineral Holdings acknowledges the work carried out by the divers- Guy Barnes, King Island; Berkeley Dilworth, Bridport and Edward Shelmerdine, Melbourne.

Grab sampling of seabed sediments was carried out initially using a jar collecting about 0.4- 0.6 kg sand (samples 1-144) and latterly using a 0.75m long bait pump for greater depth penetration of up to 0.60m (samples 124-144 and 228- 285) collecting up to 1.44kg. Samples 124 to 144 were taken by both methods as a comparison. There are gaps in the sample number sequence with 133, 134, 145-227 and 279 not being used.

Samples were initially on 250-300m centres chosen at random but more recently on east-west lines 1km apart with samples every 500m closing to 250m over target areas like palaeochannels or depot centres. At each sample site, GPS location was recorded along with water depth and an estimate of the grainsize of the sample (see Appendix).

Sea bed outcrops, vegetation and sediment structures (ripples, scours, etc) were also routinely recorded where present from sample 228 onwards.

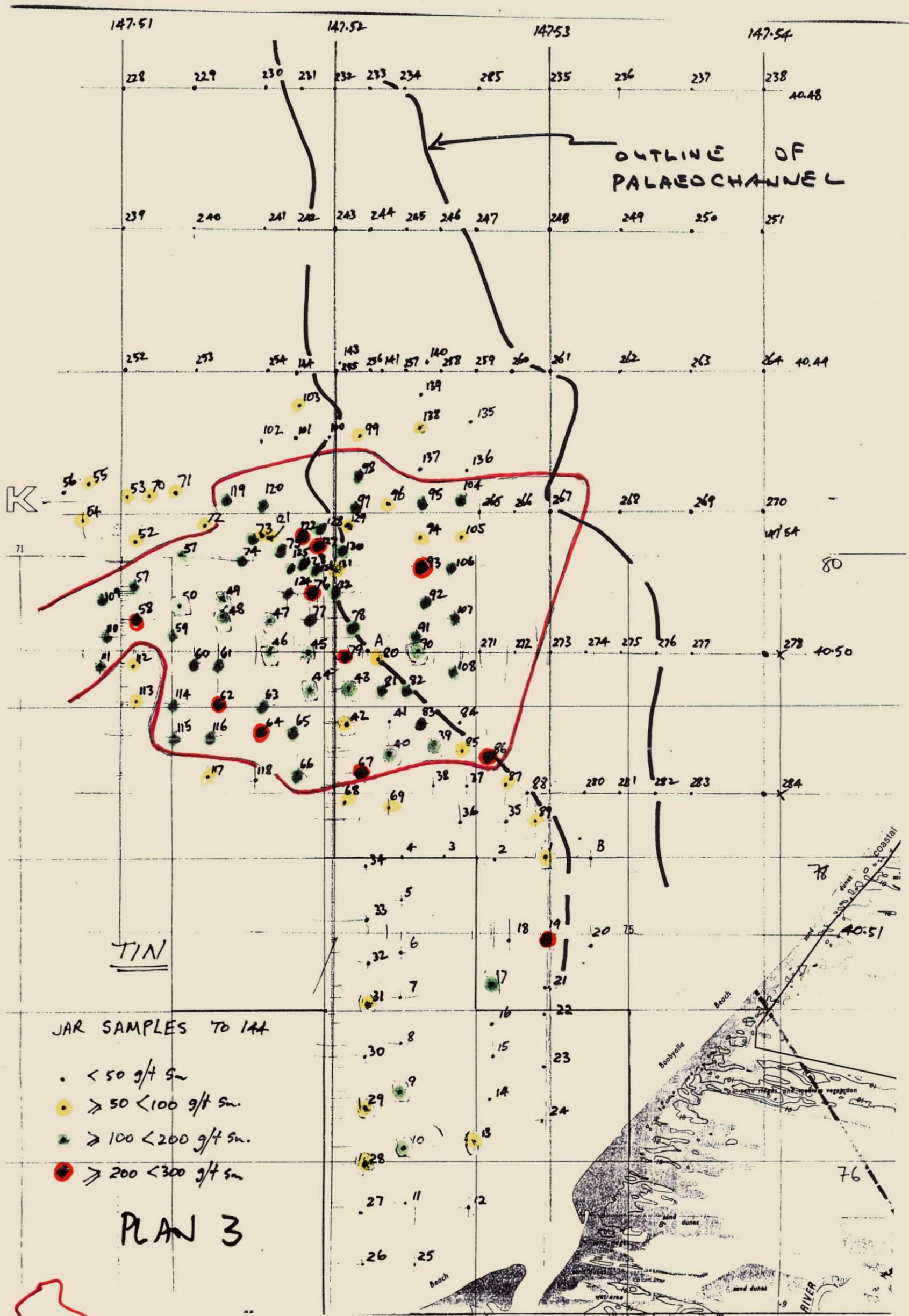
The samples were passed through a 5mm screen to remove pebbles or shell fragments and the resulting fine fraction analysed for tin, titanium and zirconium using XRF fused disc methods at Temco, Bell Bay. The metal concentrations reported (see Appendix) from the laboratory were then recalculated to give the head grades of the sediments as they lie on the sea floor.

4.0 Results

The results are presented in Tables 1-29 in the Appendix and plotted on Plans 3-6 where they are colour-coded to reflect the various concentration classes of heavy minerals.

Tin is expressed in plans 3 and 4 as jar or surface samples and pump or deeper samples to 0.6m respectively and combined TiO₂ plus ZrO₂ is plotted as jar samples in plan 5 and pump samples in plan 6.

Tin concentrations reach up to 316 g/t in a pump sample with 15 (7%) over 200 g/t and 75 (35%) of 216 samples over 100 g/t. The combined samples (jar and pump) define an area of 4 sq km of greater than 100 g/t tin sitting over the palaeochannel and extending to the west (Plan 3). Within that outline there is a smaller hot spot at greater than 200 g/t Sn near 147deg 50mins E and 40deg 49.5mins S.



K

OUTLINE OF
PALAEOCHANNEL

TIN

JAR SAMPLES TO 144

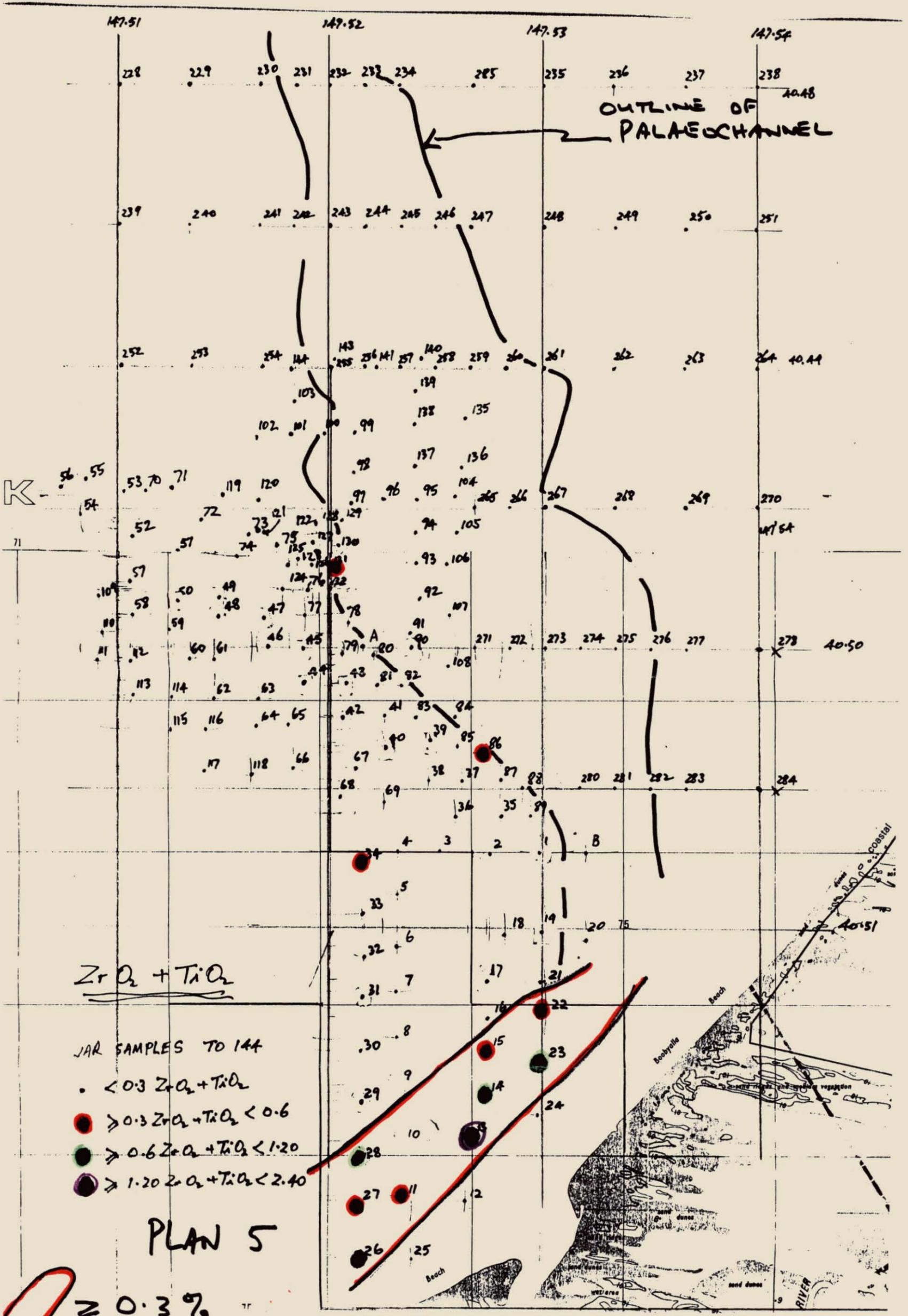
- < 50 g/t Sn
- ≥ 50 < 100 g/t Sn
- ≥ 100 < 200 g/t Sn
- ≥ 200 < 300 g/t Sn

PLAN 3

≥ 100 g/t Sn
contour

Scale 1:25,000

5 cm



OUTLINE OF PALAEOCHANNEL

K

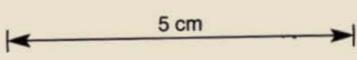
ZrO₂ + TiO₂

- JAR SAMPLES TO 144
- < 0.3 ZrO₂ + TiO₂
 - > 0.3 ZrO₂ + TiO₂ < 0.6
 - > 0.6 ZrO₂ + TiO₂ < 1.20
 - > 1.20 ZrO₂ + TiO₂ < 2.40

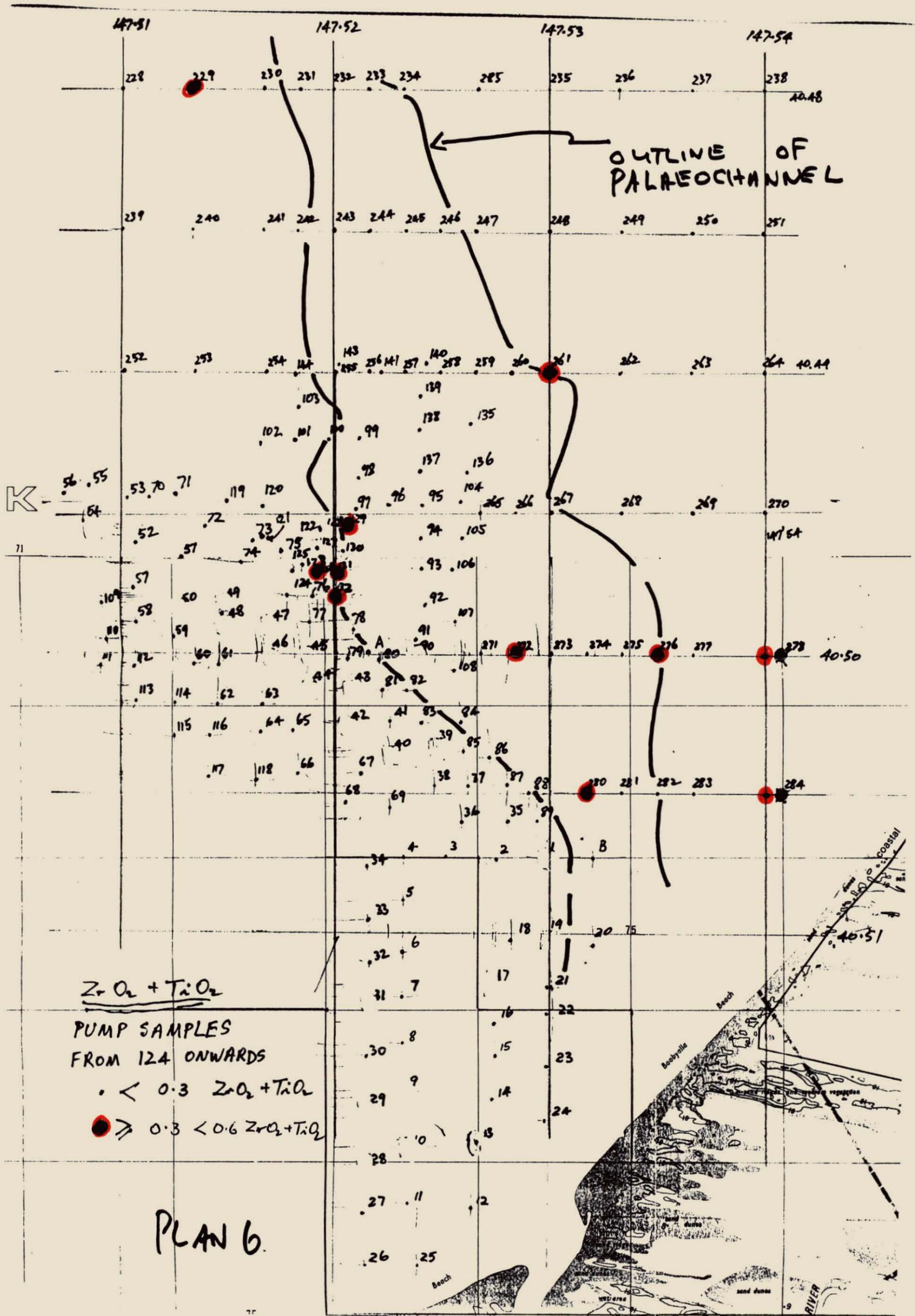
PLAN 5

○ ≥ 0.3% ZrO₂ + TiO₂ contour

Scale 1:25,000



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The TiO₂ plus ZrO₂ concentrations reach up to 2.32% with 2 over 1% and 22 in 216 samples (10%) over 0.30%. They are more sporadic than tin with a tendency to cluster at the above hot spot and in a zone at least 2km long parallel and adjacent to the coastline as defined by the greater than 0.3 % contour (Plan 5).

The highest tin samples tend to be different from the highest TiO₂ plus ZrO₂ samples apart from samples 129-1 and 272 which are highest in both categories.

A scan for rare earth contents was carried out by Amdel on sample 64 which has one of the highest tin values at 245g/t. Only neodymium (Nd) was detected at 15.5ppm while cerium, lanthanum, yttrium and thorium were less than the detection limit of 200, 200, 20 and 40 ppm respectively. Using a typical Nd content of 16.9% of total rare earths, it is possible to calculate a theoretical monazite concentration of 107 g/t in the sample.

There is a suggestion that tin values may increase with depth in the sediments. Comparing the 18 samples collected by both sampling methods, the pump method which sampled deeper gave higher tin values in 10 samples and lower in 4 with 4 unknown as they were lower than the detection limit (less than 30g/t). With TiO₂ plus ZrO₂, 9 showed a marginal increase and 7 a decrease with 2 equal. Considering the small sample sizes collected by these sampling methods, and the erratic distribution of heavy minerals, these trends may be of little significance.

Sizing analyses for tin contents were carried out on 5 samples, the results of which are in the Appendix. The analysis shows that 77 - 97% of the cassiterite is in the + 150 micron size range with the main population being in the fine sand range (150-250um) and would be recoverable in a gravity plant. (Sample 19 was exceptionally coarse with 66% of the cassiterite being + 1.18mm). This contrasts with the grain size at the Pioneer deposit, onshore and closer to source, where 90% of the cassiterite is +250 micron in the medium to coarse sand range (250um-1.18mm) (Morrison, 1980).

Recent, currently-active, dune sands were sampled by L. Rhodes on a reconnaissance of Bowlers Lagoon area onshore using a bait pump. Localities and heavy mineral contents on three samples which have only background values are given in the Appendix.

5. Interpretation

Grab sampling by abalone divers of active seabed sediments has outlined a 4sq km area of greater than 100g/t Sn (and up to 316g/t) centred on 147deg 52mins E and 40deg 50mins S. The area outlined sits on the interpreted palaeochannel and also extends to the west into a region not previously considered prospective.

The presence of resource grade material on the seafloor could have been expected in the palaeochannel but was not anticipated in an area considered unprospective by previous explorers on the basis of sparse scout drilling with holes (eg #1, #44 and #51) about 1.5km apart. These holes recorded up to 38g/t Sn in the top metre but did not sustain that grade in depth. Therefore these results cannot be taken as proof of significant tin grades at depth in the sediments without further drilling to basement in

these areas. The possibility of dispersion of tin from the palaeochannel and surface enrichment of values in adjacent areas by undersea currents or wave action has been mentioned in previous reports. The possible dispersion of tin to the west is unexpected considering that the onshore drift is presumably west to east so some other factor may be operating.

The grab sampling program is not effective in defining the rest of the palaeochannel to the north or south. Not all of the drill holes in the palaeochannel have values greater than 50g/t Sn in the top metre but values increase at depth.

The palaeochannel may only be stripped in the area of the grab sample high with covering sediment wedges to the south towards present shore line and thin barren sediment cover to the north. The grab sample high sits over the break of slope at the start of the plateau in the present day seabed at 25m depth.

The TiO₂ plus ZrO₂ zone lies inshore at about 15m depth and may be subject to reworking and concentrating in a bar parallel to shore with heavy minerals being added in the present sediment buildup.

6. Conclusions

The grab sampling program has outlined part of the palaeochannel and revealed unexpected resource grade tin in seabed sediments in an area adjacent and to the west which was previously considered unprospective. No additional figures can be added to the resource inventory until a drilling program has confirmed appropriate grades to basement. Because of the small grab sample size, these tin contents are indications only rather than contributing to resource figures. For the same reason, the possible increase of tin values with depth as seen in the pump sampling (up to 0.60m) may not be significant.

The program has not picked up the full extent of the palaeochannel to the north and south.

However, finding any tin values in the sediments at all is an encouraging sign with the possibility that somewhere in the sediment column a concentrating mechanism will have produced exploitable resource values.

The program has provided additional information on the sediments, structures, bedrock, vegetation and depth of the seabed. The higher tin values are found with the coarse sand and gravel rather than the finer grained sediments.

7. Future Program

Consideration will be given to extending the seabed sampling program to follow up areas of high tin values.

While waiting for joint venture participation on the substantial drilling program necessary to raise the resources to the measured category before a decision can be taken on the feasibility of a development project, an event which will almost certainly

require a substantial increase in the tin price from the A\$7000 per tonne metal used in the MacArthur 1995 Report, Mineral Holdings is considering a bulk sampling program. Further exploration is warranted as currently the (spot) tin price is A\$10,793 per tonne (Australian Newspaper 03/04/98).

Mineral Holdings is monitoring the movements of marine construction vessels currently being operated in Australia by the experienced Dutch company Van Oord ACZ and also the WEST HAM DREDGING Company and is hoping to use the window of opportunity this provides to avoid the costly location fees reflected in long steaming distances to Australia. The previous vessel dredging Geelong harbour-the large suction dredge "Volvox Delta"- on which the original program was based- has been replaced by the smaller construction vessel "Jan Steen". The actual timing of the bulk sampling is dependent on the time of completion at Geelong and the sea conditions on location at King Island and Ringarooma Bay.

The "Jan Steen" is a shallow-drafted multi purpose construction vessel of 3,000 tonnes currently fitted out for investigation in the Timor Sea. She can be fitted out for- a) grab dredging /sampling, b) geotechnical investigations (boreholes), c) hydrographic surveys, and d) investigational drilling (specialist techniques). Using an airlift device with a 0.3m diameter pipe, bulk sampling will be carried out with the samples being stored on board for eventual processing on shore in a heavy mineral concentrating plant. The total reach of the device will be 40m (water plus sediment). Each sample is expected to be in the range 10-50 cubic metres. The bulk samples will allow mineral dressing studies, the determination of probable heavy mineral recoveries, grain size studies, the feasibility of dredging at sea and the possible environmental impacts.

Four bulk samples will be taken from Ringarooma Bay and two from King Island. Eight possible sites in Ringarooma Bay from 2 to 10km offshore are listed in Table 30 along with their locations. Final choice of sites will be determined following review of the current sea bed sampling program.

This is an exploration program to upgrade alluvial tin and heavy mineral resources categories and is not a full scale mining project. The samples will be removed entirely for processing on land. Because the water depth is within storm-surge base, the seabed contours will be reformed by natural processes rapidly. The tin wash commonly lies directly on the sea bed with less than 2m of cover as there has been sub-sea stripping of overburden with the best grades of tin being in medium to coarse sands to fine gravels with pebbles to 75mm. It is therefore appears that water turbidity due to suspended fines in the excess water returned to the sea will be no more than transitory. It is envisaged that fish and crustacean mortality in the immediate vicinity of the sample points will be a tangible but minor possibility.

REFERENCES

MacArthur, N. A. 1995. Pre-feasibility Review, Ringarooma Alluvial Tin Project. Report to Mineral Holdings Australia Pty Ltd

Morrison, K. C. 1980. Sedimentology of the Pioneer Placer Deposit. Unpublished BSc Hons Thesis, University of Tasmania

	Hole No	Tin Content(g/cu m)	Inters Depth (m) from sed surface	Total Depth (m) to bedrock	Water Depth (m)	Sediment Type	Location
CHANNEL AREA	2	114	0.9	9.2	25.5	medium sand with gravel	147deg 53.21min E 40deg 49.74min S
	42	129	2.12	4.8	28.8	med-coarse sand with cobbles	147deg 51.86min E 40deg 48.57min S
	48	197	1.06	3.8	34	no log	147deg 51.92min E 40deg 47.20min S
	103	235	5.75	7.9	34	medium sand with silt	147deg 51.89min E 40deg 46.86min S
PLATEAU AREA	36	137	2.7	7.3	34	fine sand with cobbles	147deg 51.25min E 40deg 47.11min S
	71	111	1.21	6.7	35	coarse sand	147deg 50.00min E 40deg 47.20min S
	79	186	3.32	7	33	coarse sand with cobbles	147deg 52.19 min E 40deg 47.57 min S
	89	321	4.27	10.3	35	fine-med sand with gravel	147deg 48.68 min E 40deg 48.61 min S

Table 30 --- BULK SAMPLING SITES---RINGAROOMA BAY

APPENDIX

- : Tables 1-29—Locations, minus 5mm screen assays, calculated head assays of Sn, TiO₂ and ZrO₂ in sediments**

- : Sizing analyses of selected samples**

- : Analytical Results from BHP-TEMCO, Bell Bay**

Table 1Location of samples

Sample No.	Latitude	Longitude	Depth (m)
A	40.50.052S	147.53.146E	22.9
B1	40.50.723S	147.53.190E	16.5
B2	40.50.764S	147.53.176E	16.7
1	40.50.729S	147.52.976E	18.3
2	40.50.731S	147.52.746E	16.1
3	40.50.724S	147.52.519E	16.4
4	40.50.727S	147.52.310E	17.6
5	40.50.896S	147.52.313E	16.2
6	40.51.072S	147.52.316E	16.3
7	40.51.237S	147.52.316E	14.3
8	40.51.402S	147.52.322E	13.1
9	40.51.565S	147.52.316E	12.3
10	40.51.760S	147.52.337E	9.0
11	40.51.964S	147.52.343E	5.8
12	40.51.975S	147.52.650E	2.0
13	40.51.748S	147.52.697E	6.4
14	40.51.593S	147.52.733E	8.2
15	40.51.444S	147.52.742E	10.2
16	40.51.326S	147.52.742E	12.2
17	40.51.190S	147.52.736E	13.7
18	40.51.027S	147.52.807E	14.9
19	40.51.027S	147.52.995E	14.9
20	40.51.045S	147.53.196E	11.3

To read latitude and longitude the reading 40.51.045S means 40 degrees 51 minutes and .045 of a minute.

Table 2

Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
A	361.1	100.0	< 30	0.03	0.15
B1	226.2	66.7	40	0.06	0.16
B2	498.7	59.7	< 30	0.04	0.14
1	222.0	67.2	120	0.09	0.15
2	494.5	76.5	60	0.06	0.14
3	432.7	82.0	< 30	0.02	0.15
4	368.9	65.6	< 30	0.02	0.15
5	258.8	77.9	40	0.09	0.14
6	247.2	65.3	40	0.16	0.15
7	381.5	34.6	100	0.14	0.16
8	487.6	87.5	< 30	0.03	0.15
9	463.1	93.2	140	0.07	0.15
10	341.1	85.6	220	0.15	0.14
11	429.9	100.0	< 30	0.21	0.15
12	472.7	100.0	< 30	0.09	0.14
13	449.5	100.0	50	2.08	0.24
14	446.4	100.0	< 30	0.55	0.15
15	494.5	100.0	< 30	0.16	0.14
16	549.1	84.6	< 30	0.02	0.15
17	210.3	73.2	260	0.08	0.15
18	492.3	89.7	< 30	0.02	0.13
19	446.3	91.7	220	0.07	0.15
20	484.5	100.0	< 30	0.10	0.14

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 3
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO ₂ %	ZrO ₂ %
A	< 30	0.03	0.15
B1	26	0.04	0.11
B2	< 18	0.02	0.08
1	81	0.06	0.10
2	46	0.05	0.11
3	< 25	0.02	0.12
4	< 20	0.01	0.10
5	31	0.07	0.11
6	26	0.10	0.10
7	35	0.05	0.06
8	< 26	0.03	0.13
9	130	0.07	0.14
10	188	0.13	0.12
11	< 30	0.21	0.15
12	< 30	0.09	0.14
13	50	2.08	0.24
14	< 30	0.55	0.15
15	< 30	0.16	0.14
16	< 25	0.02	0.13
17	190	0.06	0.11
18	< 27	0.02	0.12
19	202	0.06	0.14
20	< 30	0.10	0.14

Table 4Location of samples

Sample No.	Latitude	Longitude	Depth (m)
21	40.51.198S	147.52.986E	11.6
22	40.51.298S	147.52.985E	8.8
23	40.51.472S	147.52.986E	6.0
24	40.51.666S	147.52.978E	3.4
25	40.52.177S	147.52.386E	1.5
26	40.52.170S	147.52.141E	3.3
27	40.52.010S	147.52.131E	6.1
28	40.51.830S	147.52.144E	12.0
29	40.51.616S	147.52.141E	12.5
30	40.51.441S	147.52.135E	13.7
31	40.51.256S	147.52.160E	15.2
32	40.51.108S	147.52.161E	16.0
33	40.50.948S	147.52.139E	16.2
34	40.50.756S	147.52.145E	18.2
35	40.50.600S	147.52.787E	19.1
36	40.50.616S	147.52.593E	17.7
37	40.50.478S	147.52.625E	19.2

To read latitude and longitude the reading 40.51.045S means 40 degrees 51 minutes and .045 of a minute.

Table 5Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
21	575.0	96.7	< 30	0.04	0.14
22	486.4	99.7	< 30	0.28	0.15
23	461.4	100.0	< 30	0.58	0.17
24	480.8	100.0	< 30	0.11	0.14
25	440.1	100.0	< 30	0.11	0.13
26	469.0	100.0	< 30	0.54	0.16
27	439.4	100.0	< 30	0.27	0.15
28	468.4	100.0	< 30	0.84	0.19
29	291.2	55.7	130	0.18	0.15
30	587.1	76.9	40	0.04	0.13
31	488.7	71.7	100	0.13	0.15
32	477.4	79.2	40	0.08	0.14
33	510.0	94.1	< 30	0.03	0.14
34	489.5	100.0	< 30	0.23	0.14
35	553.9	36.3	50	0.05	0.15
36	519.4	48.7	< 30	0.03	0.14
37	560.7	64.1	30	0.05	0.15

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 6
Calculated head assays

Sample No.	Calculated Head Assays			
	Sn g/t	TiO ₂ %	ZrO ₂ %	
21	< 29	0.04	0.14	
22	< 30	0.28	0.15	
23	< 30	0.58	0.17	*
24	< 30	0.11	0.14	*
25	< 30	0.11	0.13	*
26	< 30	0.54	0.16	*
27	< 30	0.27	0.15	*
28	50	0.84	0.19	*
29	72	0.10	0.08	
30	31	0.03	0.10	
31	72	0.09	0.11	
32	32	0.06	0.11	
33	< 28	0.03	0.13	
34	< 30	0.23	0.14	*
35	18	0.02	0.05	
36	< 15	0.01	0.07	
37	19	0.03	0.10	

* Actual head assays

Table 7Location of samples

Sample No.	Latitude	Longitude	Depth (m)
38	40.50.482S	147.52.453E	17.0
39	40.50.342S	147.52.452E	18.7
40	40.50.372S	147.52.245E	18.6
41	40.50.242S	147.52.248E	19.2
42	40.50.266S	147.52.045E	19.3
43	40.50.128S	147.52.046E	19.6
44	40.50.128S	147.51.864E	18.1
45	40.50.021S	147.51.857E	18.9
46	40.50.627S	147.51.671E	18.2
47	40.49.876S	147.51.671E	18.7
48	40.49.854S	147.51.466E	19.7
49	40.49.779S	147.51.465E	19.6
50	40.49.792S	147.51.261E	20.0
51	40.49.658S	147.51.266E	21.2

To read latitude and longitude the reading 40.51.045S means 40 degrees 51 minutes and .045 of a minute.

Table 8Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
38	567.1	52.7	30	0.05	0.13
39	473.7	74.6	150	0.10	0.16
40	483.8	71.7	170	0.08	0.15
41	490.7	67.9	60	0.07	0.15
42	398.3	72.8	130	0.09	0.16
43	422.2	81.6	150	0.08	0.16
44	466.7	80.7	230	0.07	0.15
45	414.4	89.3	160	0.06	0.15
46	324.9	76.5	250	0.08	0.16
47	329.5	87.9	210	0.09	0.15
48	398.5	66.9	180	0.08	0.16
49	357.4	63.3	210	0.08	0.14
50	481.9	86.9	210	0.11	0.16
51	449.4	68.6	210	0.10	0.14

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 9
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO ₂ %	ZrO ₂ %
38	16	0.03	0.07
39	112	0.07	0.12
40	122	0.06	0.11
41	41	0.05	0.10
42	95	0.07	0.12
43	122	0.07	0.13
44	186	0.06	0.12
45	143	0.05	0.13
46	191	0.06	0.12
47	185	0.08	0.13
48	120	0.05	0.11
49	133	0.05	0.09
50	182	0.10	0.14
51	144	0.07	0.10

Table 10Location of samples

Sample No.	Latitude	Longitude	Depth (m)
52	40.49.603S	147.51.054E	20.8
53	40.49.453S	147.51.016E	21.7
54	40.49.529S	147.50.808E	21.9
55	40.49.407S	147.50.846E	22.3
56	40.49.442S	147.50.736E	22.3
57	40.49.773S	147.51.046E	20.8
58	40.49.897S	147.51.065E	20.2
59	40.49.948S	147.51.240E	20.0
60	40.50.040S	147.51.332E	19.5
61	40.50.047S	147.51.457E	19.3
62	40.50.183S	147.51.451E	18.9
63	40.50.195S	147.51.666E	17.8
64	40.50.301S	147.51.606E	17.5
65	40.50.287S	147.51.791E	18.0
66	40.50.445S	147.51.819E	17.8
67	40.50.438S	147.52.121E	19.0
68	40.50.540S	147.52.034E	17.9
69	40.50.556S	147.52.243E	18.8

To read latitude and longitude the reading 40.51.045S means
40 degrees 51 minutes and .045 of a minute.

Table 11Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
52	449.4	43.5	200	0.06	0.16
53	325.5	71.7	130	0.05	0.16
54	457.5	84.8	60	0.05	0.16
55	484.7	83.1	70	0.05	0.16
56	407.9	97.0	40	0.05	0.16
57	456.4	93.2	110	0.08	0.17
58	454.4	82.4	270	0.09	0.17
59	450.8	96.8	130	0.07	0.17
60	482.4	94.2	200	0.11	0.16
61	453.9	80.4	230	0.10	0.16
62	475.2	93.3	230	0.12	0.16
63	443.6	63.6	270	0.08	0.17
64	454.1	81.6	300	0.10	0.17
65	530.3	39.8	330	0.07	0.17
66	533.9	91.2	170	0.07	0.17
67	536.9	74.2	340	0.12	0.16
68	454.5	70.9	140	0.11	0.16
69	470.9	83.2	80	0.07	0.14

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 12
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO ₂ %	ZrO ₂ %
52	87	0.03	0.07
53	93	0.04	0.11
54	51	0.04	0.14
55	58	0.04	0.13
56	39	0.05	0.16
57	103	0.07	0.16
58	222	0.07	0.14
59	126	0.07	0.16
60	188	0.10	0.15
61	185	0.08	0.13
62	215	0.11	0.15
63	172	0.05	0.11
* R 64	245	0.08	0.14
65	131	0.03	0.07
66	155	0.06	0.15
67	252	0.09	0.12
68	99	0.08	0.11
69	67	0.06	0.12

TBMCO

* sent for analysis to Andritz

TBMCO R 64	300	0.10	0.17	(-sum factor)
Andritz "	100	0.105	0.01	<u>60</u>

Table 13Location of samples

Sample No.	Latitude	Longitude	Depth (m)
70	40.49.450S	147.51.129E	23.0
71	40.49.428S	147.51.246E	22.6
72	40.49.544S	147.51.388E	21.9
73	40.49.593S	147.51.615E	21.8
74	40.49.680S	147.51.559E	21.3
75	40.49.626S	147.51.745E	17.6
76	40.49.785S	147.51.893E	19.7
77	40.49.883S	147.51.869E	20.5
78	40.49.912S	147.52.078E	19.7
79	40.50.028S	147.52.052E	20.8
80	40.50.023S	147.52.199E	20.2
81	40.50.137S	147.52.208E	20.3
82	40.50.141S	147.52.338E	20.2
83	40.50.244S	147.52.391E	19.9
84	40.50.253S	147.52.585E	19.4
85	40.50.349S	147.52.603E	20.2
86	40.50.375S	147.52.721E	19.1
87	40.50.474S	147.52.783E	20.0
88	40.50.509S	147.52.901E	19.1
89	40.50.594S	147.52.935E	20.3

To read latitude and longitude the reading 40.51.045S means
40 degrees 51 minutes and .045 of a minute.

Table 14

Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
70	486.5	90.8	70	0.05	0.13
71	484.0	66.0	140	0.06	0.14
72	519.1	74.3	100	0.06	0.15
73	484.0	83.0	130	0.07	0.16
74	523.0	91.1	150	0.08	0.15
75	465.0	84.1	220	0.09	0.16
76	448.3	88.4	310	0.08	0.18
77	467.1	91.7	180	0.09	0.17
78	449.7	93.0	130	0.10	0.18
79	396.1	88.4	250	0.11	0.18
80	453.1	74.1	130	0.08	0.18
81	496.1	76.7	230	0.11	0.17
82	437.6	76.7	140	0.10	0.17
83	489.0	76.8	210	0.08	0.17
84	547.5	45.6	100	0.05	0.17
85	512.6	66.7	80	0.04	0.17
86	461.8	93.2	230	0.14	0.18
87	451.0	69.4	140	0.08	0.17
88	536.1	98.1	20	0.02	0.16
89	548.6	67.6	100	0.13	0.17

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 15
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO ₂ %	ZrO ₂ %
70	64	0.05	0.12
71	92	0.04	0.09
72	74	0.04	0.11
73	108	0.06	0.13
74	137	0.07	0.14
75	185	0.08	0.13
76	274	0.07	0.16
77	165	0.08	0.16
78	121	0.09	0.17
79	221	0.10	0.16
80	96	0.06	0.13
81	176	0.08	0.13
82	107	0.08	0.13
83	161	0.06	0.13
84	46	0.02	0.08
85	53	0.03	0.11
86	214	0.13	0.17
87	97	0.06	0.12
88	20	0.02	0.16
89	68	0.09	0.11

Table 16Location of samples

Sample No.	Latitude	Longitude	Depth (m)
90	40.50.014S	147.52.370E	21.1
91	40.49.957S	147.52.370E	22.0
92	40.49.826S	147.52.417E	22.8
93	40.49.704S	147.52.397E	23.4
94	40.49.591S	147.52.400E	23.9
95	40.49.478S	147.52.408E	25.1
96	40.49.470S	147.52.254E	25.4
97	40.49.485S	147.52.102E	24.9
98	40.49.363S	147.52.119E	25.4
99	40.49.235S	147.52.128E	25.1
100	40.49.251S	147.51.987E	25.1
101	40.49.244S	147.51.795E	24.7
102	40.49.249S	147.51.653E	24.0
103	40.49.125S	147.51.815E	25.0
104	40.49.474S	147.52.596E	24.8
105	40.49.581S	147.52.599E	24.7
106	40.49.704S	147.52.547E	23.1
107	40.49.896S	147.52.556E	22.2
108	40.50.068S	147.52.553E	20.8

To read latitude and longitude the reading 40.51.045S means
40 degrees 51 minutes and .045 of a minute.

Table 17Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
90	422.7	65.1	190	0.12	0.18
91	453.8	88.8	180	0.09	0.16
92	492.1	79.3	190	0.08	0.18
93	485.9	72.8	400	0.09	0.17
94	419.2	84.7	180	0.08	0.17
95	450.3	87.3	120	0.09	0.17
96	425.3	100.0	50	0.06	0.15
97	414.5	95.8	110	0.12	0.16
98	452.9	98.2	130	0.06	0.17
99	512.3	97.2	90	0.04	0.13
100	523.9	99.4	< 30	0.07	0.14
101	525.2	79.3	40	0.05	0.14
102	497.9	99.5	< 30	0.06	0.13
103	509.9	99.5	50	0.06	0.15
104	462.2	93.9	170	0.11	0.16
105	481.2	65.4	140	0.13	0.16
106	429.6	91.5	160	0.10	0.17
107	392.7	76.3	150	0.10	0.15
108	417.2	74.3	260	0.14	0.17

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 18
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO2%	ZrO2%
90	124	0.08	0.12
91	160	0.08	0.14
92	151	0.06	0.14
93	291	0.07	0.12
94	152	0.07	0.14
95	105	0.08	0.15
96	50	0.06	0.15
97	105	0.11	0.15
98	128	0.06	0.17
99	87	0.04	0.13
100	< 30	0.07	0.14
101	32	0.04	0.11
102	< 30	0.06	0.13
103	50	0.06	0.15
104	160	0.10	0.15
105	92	0.09	0.10
106	146	0.09	0.16
107	115	0.08	0.11
108	193	0.10	0.13

* Actual Head Assays

Table 19Location of samples

Sample No.	Latitude	Longitude	Depth (m)
109	40.49.817S	147.50.898E	23.6
110	40.49.956S	147.50.916E	22.6
111	40.50.069S	147.50.904E	22.2
112	40.50.069S	147.51.064E	21.9
113	40.50.177S	147.51.055E	21.6
114	40.50.179S	147.51.243E	20.5
115	40.50.315S	147.51.241E	20.7
116	40.50.317S	147.51.412E	20.7
117	40.50.451S	147.51.409E	19.5
118	40.50.466S	147.51.633E	19.2
119	40.49.454S	147.51.491E	23.7
120	40.49.470S	147.51.656E	24.3
121	40.49.581S	147.51.642E	23.4
122	40.49.590S	147.51.810E	23.1
123	40.49.690S	147.51.839E	21.3

To read latitude and longitude the reading 40.51.045S means 40 degrees 51 minutes and .045 of a minute.

Table 20

Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Assays of -5mm fraction		
	g	% -5mm	Sn g/t	TiO ₂ %	ZrO ₂ %
109	428.8	73.6	160	0.08	0.17
110	353.5	73.9	160	0.07	0.16
111	438.1	83.4	200	0.09	0.16
112	336.1	70.5	110	0.08	0.15
113	522.5	89.6	70	0.07	0.15
114	423.3	95.8	130	0.08	0.17
115	332.4	84.5	130	0.08	0.17
116	425.5	96.4	130	0.08	0.16
117	286.8	96.7	70	0.10	0.16
118	490.2	67.0	50	0.09	0.15
119	408.5	75.4	160	0.10	0.16
120	228.8	77.4	240	0.07	0.16
121	336.1	63.1	80	0.05	0.16
122	300.6	95.5	250	0.06	0.17
123	295.3	47.9	350	0.07	0.17

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

Table 21
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO ₂ %	ZrO ₂ %
109	• 118	0.06	0.13
110	• 118	0.05	0.12
111	• 167	0.08	0.13
112	78	0.06	0.11
113	63	0.06	0.13
114	• 125	0.08	0.16
115	• 110	0.07	0.14
116	• 125	0.08	0.15
117	68	0.10	0.15
118	33	0.06	0.10
119	• 121	0.08	0.12
120	• 186	0.05	0.12
121	51	0.03	0.10
122	• 239	0.06	0.16
123	• 168	0.03	0.08

Table 22Location of samples

Sample No.	Latitude	Longitude	Depth (m)
124	40.49.774S	147.51.790E	20.7
125	40.49.688S	147.51.812E	21.0
126	40.49.783S	147.51.905E	21.4
127	40.49.623S	147.51.913E	22.6
128	40.49.548S	147.51.931E	23.5
129	40.49.528S	147.52.048E	24.8
130	40.49.642S	147.52.043E	23.0
131	40.49.783S	147.51.991E	22.3
132	40.49.777S	147.52.003E	22.1

To read latitude and longitude the reading 40.51.045S means 40 degrees 51 minutes and .045 of a minute.

Table 23

Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample		Core depth m	Core Recovery %	Assays of -5mm fraction		
	g	% -5mm			Sn g/t	TiO ₂ %	ZrO ₂ %
124	435.5	97.9			140	0.11	0.18
124-1	636.0	96.0	0.24	34.1	110	0.09	0.19
125	149.9	75.3			150	0.07	0.19
125-1	491.7	88.9	0.18	26.4	270	0.13	0.18
126	247.5	98.5			110	0.10	0.18
126-1	296.5	95.9	0.11	15.9	280	0.15	0.19
127	399.9	94.2			260	0.13	0.19
127-1	500.2	99.3	0.19	26.8	260	0.13	0.19
128	361.2	99.6			160	0.09	0.18
128-1	784.3	94.2	0.29	42.0	140	0.11	0.18
129	358.3	74.8			70	0.08	0.18
129-1	967.2	98.9	0.36	51.8	320	0.12	0.19
130	395.1	94.9			130	0.06	0.19
130-1	816.1	97.1	0.31	43.8	110	0.08	0.19
131	318.0	94.1			90	0.14	0.19
131-1	795.3	97.7	0.30	42.6	130	0.11	0.20
132	364.1	94.2			120	0.10	0.19
132-1	661.4	99.2	0.25	35.4	170	0.12	0.20

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

The sample numbers with a subscript -1 were taken with the bait pump.

Table 24
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO2%	ZrO2%
124	137	0.11	0.18
124-1	106	0.09	0.18
125	113	0.05	0.14
125-1	240	0.12	0.16
126	108	0.10	0.18
126-1	268	0.14	0.18
127	245	0.12	0.18
127-1	258	0.13	0.19
128	169	0.09	0.18
128-1	132	0.10	0.17
129	52	0.06	0.13
129-1	316	0.12	0.19
130	123	0.06	0.18
130-1	107	0.08	0.18
131	85	0.13	0.18
131-1	127	0.11	0.20
132	113	0.09	0.18
132-1	169	0.12	0.20

Sample numbers with the subscript -1 were taken with the bait pump.

Table 25Location of samples

Sample No.	Latitude	Longitude	Depth (m)
135	40.49.180S	147.52.620E	31.9
136	40.49.348S	147.52.614E	27.8
137	40.49.348S	147.52.384E	28.6
138	40.49.200S	147.52.387E	28.7
139	40.49.093S	147.52.395E	28.6
140	40.48.980S	147.52.421E	29.0
141	40.49.000S	147.52.214E	28.4
143	40.48.970S	147.52.011E	27.5
144	40.49.004S	147.51.778E	28.4

To read latitude and longitude the reading 40.51.045S means 40 degrees 51 minutes and .045 of a minute.

Table 26

Samples screened on 5mm screen and -5mm fraction assayed

Sample No.	Total mass of sample	% -5mm	Core depth	Core Recovery	Assays of -5mm fraction		
	g		m	%	Sn g/t	TiO ₂ %	ZrO ₂ %
135	743.4	67.3			60	0.05	0.16
135-1	721.3	96.1	0.27	38.7	70	0.08	0.17
136	620.2	94.6			30	0.15	0.16
136-1	804.1	99.1	0.30	43.1	80	0.11	0.17
137	406.0	99.7			30	0.07	0.16
137-1	989.5	91.2	0.37	53.0	90	0.08	0.14
138	615.7	99.9			80	0.04	0.17
138-1	909.7	87.2	0.34	48.8	40	0.07	0.17
139	615.7	99.9			< 30	0.10	0.18
139-1	1052.5	98.9	0.39	56.4	< 30	0.09	0.17
140	481.3	97.9			< 30	0.07	0.17
140-1	932.8	96.9	0.35	50.0	50	0.07	0.17
141	410.5	99.5			< 30	0.04	0.14
141-1	1440.0	98.0	0.54	77.2	< 30	0.07	0.16
143	456.6	99.3			< 30	0.07	0.17
143-1	1076.0	98.6	0.40	57.7	< 30	0.07	0.15
144	457.2	97.8			< 30	0.04	0.14
144-1	992.9	97.6	0.37	53.2	< 30	0.05	0.11

Samples were taken with a 375g peanut butter glass jar. A full jar of sample gave a mass of sample over 400g. Where sample masses are down around 250g or so, there were a lot of coarse pebbles present about the size of the opening of the jar and it was difficult to get a larger sample.

The sample numbers with a subscript -1 were taken with the bait pump.

Table 27
Calculated head assays

Sample No.	Calculated Head Assays		
	Sn g/t	TiO ₂ %	ZrO ₂ %
135	40	0.03	0.11
135-1	67	0.08	0.16
136	28	0.14	0.15
136-1	79	0.11	0.17
137	30	0.07	0.16
137-1	82	0.07	0.13
138	61	0.03	0.13
138-1	35	0.06	0.15
139	< 30	0.10	0.18
139-1	< 30	0.09	0.17
140	< 29	0.07	0.17
140-1	48	0.07	0.16
141	< 30	0.04	0.14
141-1	< 29	0.07	0.16
143	< 30	0.07	0.17
143-1	< 30	0.07	0.15
144	< 29	0.04	0.14
144-1	< 29	0.05	0.11

Sample numbers with the subscript -1 were taken with the bait pump.

Table 28

Location of samples

Sample No.	Latitude	Longitude	Depth (m)	Bottom
228	40.48.00S	147.51.00E	30.0	Rippled sand
229	40.48.00S	147.51.20E	30.0	"
230	40.48.00S	147.51.40E	29.0	"
231	40.48.00S	147.51.50E	29.0	"
232	40.48.00S	147.52.00E	28.0	"
233	40.48.00S	147.52.10E	28.0	"
234	40.48.00S	147.52.20E	27.0	"
235	40.48.00S	147.53.00E	27.0	"
236	40.48.00S	147.53.20E	25.0	"
237	40.48.00S	147.53.40E	25.0	"
238	40.48.00S	147.54.00E	24.0	"
239	40.48.30S	147.51.00E	26.0	"
240	40.48.30S	147.51.20E	28.0	"
241	40.48.30S	147.51.40E	28.0	"
242	40.48.30S	147.51.50E	27.0	"
243	40.48.30S	147.52.00E	27.0	"
244	40.48.30S	147.52.10E	27.0	"
245	40.48.30S	147.52.20E	28.0	"
246	40.48.30S	147.52.30E	28.0	"
247	40.48.30S	147.52.40E	30.0	"
248	40.48.30S	147.53.00E	31.0	Clay
249	40.48.30S	147.53.20E	31.0	"
250	40.48.30S	147.53.40E	30.0	"
251	40.48.30S	147.54.00E	29.0	"
252	40.49.00S	147.51.00E	26.0	Weed, small rocks
253	40.49.00S	147.51.20E	28.0	Rippled sand
254	40.49.00S	147.51.40E	27.0	"
255	40.49.00S	147.52.00E	27.0	"
256	40.49.00S	147.52.10E	27.0	"
257	40.49.00S	147.52.20E	29.0	"
258	40.49.00S	147.52.30E	30.0	"
259	40.49.00S	147.52.40E	28.0	"
260	40.49.00S	147.52.50E	28.0	"
261	40.49.00S	147.53.00E	27.0	"
262	40.49.00S	147.53.20E	28.0	"
263	40.49.00S	147.53.40E	29.0	"
264	40.49.00S	147.54.00E	22.0	Rocky
265	40.49.30S	147.52.40E	27.0	Sand then rocky
266	40.49.30S	147.52.50E	27.0	"
267	40.49.30S	147.53.00E	26.0	"
268	40.49.30S	147.53.20E	26.0	Pebbles
269	40.49.30S	147.53.40E	23.0	"
270	40.49.30S	147.54.00E	16.0	Sand with grass
271	40.50.00S	147.52.40E	21.0	"
272	40.50.00S	147.52.50E	23.0	"
273	40.50.00S	147.53.00E	21.0	"
274	40.50.00S	147.53.10E	23.0	"
275	40.50.00S	147.53.20E	23.0	"

Sample No.	Latitude	Longitude	Depth (m)	Bottom
276	40.50.00S	147.53.30E	20.0	Sand with grass
277	40.50.00S	147.53.40E	19.0	"
278	40.50.00S	147.54.00E	14.0	"
280	40.50.30S	147.53.10E	?	"
281	40.50.30S	147.53.20E	22.0	"
282	40.50.30S	147.53.30E	18.0	"
283	40.50.30S	147.53.40E	16.0	"
284	40.50.30S	147.54.00E	12.0	"
285	40.48.00S	147.52.40E	28.0	Rippled sand

To read latitude and longitude the reading 40.50.30S means
40 degrees 50 minutes and 30 seconds.

Table 29
Head assays

Sample No.	Sn g/t	Assays	
		TiO ₂ %	ZrO ₂ %
228	< 30	0.05	0.17
229	30	0.14	0.17
230	< 30	0.07	0.17
231	< 30	0.08	0.15
232	< 30	0.05	0.18
233	< 30	0.07	0.19
234	< 30	0.07	0.11
235	< 30	0.05	0.11
236	< 30	0.07	0.15
237	< 30	0.05	0.10
238	< 30	0.04	0.13
239	< 30	0.09	0.17
240	< 30	0.05	0.12
241	< 30	0.05	0.12
242	< 30	0.04	0.17
243	< 30	0.05	0.15
244	< 30	0.04	0.15
245	< 30	0.06	0.15
246	< 30	0.12	0.16
247	150	0.10	0.18
248	< 30	0.04	0.12
249	< 30	0.05	0.15
250	< 30	0.05	0.13
251	< 30	0.03	0.13
252	< 30	0.06	0.13
253	< 30	0.07	0.16
254	< 30	0.06	0.17
255	30	0.10	0.18
256	< 30	0.09	0.18
257	50	0.07	0.16
258	30	0.08	0.16
259	< 30	0.07	0.16
260	< 30	0.07	0.15
261	30	0.23	0.16
262	30	0.13	0.16
263	90	0.10	0.17
264	< 30	0.12	0.15
265	100	0.05	0.16
266	190	0.06	0.18
267	120	0.07	0.17
268	30	0.11	0.15
269	< 30	0.02	0.13
270	< 30	0.12	0.13
271	120	0.12	0.16
272	200	0.14	0.16
273	< 30	0.08	0.16
274	< 30	0.07	0.16
275	< 30	0.11	0.13

Sample No.	Sn g/t	TiO ₂ %	ZrO ₂ %
276	< 30	0.14	0.16
277	< 30	0.13	0.14
278	< 30	0.28	0.14
280	< 30	0.16	0.14
281	< 30	0.15	0.13
282	< 30	0.12	0.14
283	< 30	0.13	0.12
284	< 30	0.17	0.14
285	< 30	0.07	0.17

Site 10	mass		Sn g/t	Sn Distribution	
	%	% cum.		%	% cum.
+2.36mm	2.4	2.4)		
+1.18mm	3.4	5.8) 60	1.4	1.4
+ 600um	21.0	26.8	40	3.4	4.8
+ 300um	31.5	58.3	90	11.4	16.2
+ 150um	15.0	73.3	1230	74.2	90.4
+ 75um	26.5	99.8	70	7.4	97.8
- 75um	0.2	100.0	3000	2.2	100.0
	100.0			100.0	
Calc. Assay			249		
- 5mm Assay			220		

Site 17	mass		Sn g/t	Sn Distribution	
	%	% cum.		%	% cum.
+1.18mm	25.3	25.3	30	1.8	1.8
+ 600um	17.6	42.9	140	5.9	7.7
+ 300um	27.2	70.1	300	19.7	27.4
+ 150um	14.0	84.1	1870	62.8	90.2
+ 75um	15.6	99.7	220	8.2	98.4
- 75um	0.3	100.0	2100	1.6	100.0
	100.0			100.0	
Calc. Assay			416		
- 5mm Assay			260		

Site 19	mass		Sn g/t	Sn Distribution	
	%	% cum.		%	% cum.
+2.36mm	25.9	25.9	10	0.4	0.4
+1.18mm	32.9	58.8	1190	65.9	66.3
+ 600um	12.9	71.7	110	2.4	68.7
+ 300um	16.2	87.9	210	5.7	74.4
+ 150um	5.8	93.7	2380	23.4	97.8
+ 75um	6.0	99.7	180	1.8	99.6
- 75um	0.3	100.0	900	0.4	100.0
	100.0			100.0	
Calc. Assay			594		
- 5mm Assay			220		

Site 44	mass		Sn g/t	Sn Distribution	
	%	% cum.		%	% cum.
+2.36mm	20.8	20.8	30	2.3	2.3
+1.18mm	16.9	37.7	130	8.0	10.3
+ 600um	24.4	62.1	130	11.5	21.8
+ 300um	20.8	82.9	190	14.4	36.2
+ 150um	11.7	94.6	1110	47.0	83.2
+ 75um	4.9	99.5	850	15.2	98.4
- 75um	0.5	100.0	1000	1.6	100.0
	100.0			100.0	
Calc. Assay			275		
- 5mm Assay			230		

Tin Distribution by Sizing

Site 50	mass		Sn g/t	Sn Distribution	
	%	% cum.		%	% cum.
+2.36mm	6.9	6.9	50	1.7	1.7
+1.18mm	10.6	17.5	120	6.2	7.9
+ 600um	21.6	39.1	150	15.7	23.6
+ 300um	32.6	71.7	70	11.0	34.6
+ 150um	21.3	93.0	420	43.2	77.8
+ 75um	6.6	99.6	680	20.6	98.4
- 75um	0.4	100.0	900	1.6	100.0
	100.0			100.0	
Calc. Assay			207		
- 5mm Assay			210		

BARRETT,
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TEST RESULTS

430049

materials testing laboratories

369A Bass Highway Prospect Vale

ACN 005 714 269

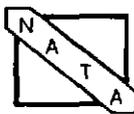
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sample no L97/215

client	Mineral Holdings Australia Pty Ltd	date tested	10/4/97
project	Ringarooma Bay	tested by	THT
location	Tasmania	certificate No	969AA
sample identification	Beach Sand ex Ringarooma Bay		
sampled by	L. Rhodes	date received	9/4/97
sample description	SAND, fine to coarse grained, non plastic fines		

Test Description AS 1141	test method	Sample Identification		
		Q 143(10-)	Q 150(17-)	Q 152(19-)
Sieve Size	Sect 11	Percent Retained Each Sieve		
mm				
6.7				
4.75		0.4	1.2	1.1
2.36		2.0	15.3	24.9
1.18		3.4	8.8	32.8
0.600		21.0	17.7	12.9
0.425		19.5	16.2	9.0
0.300		11.9	10.9	7.3
0.150		15.1	14.0	5.8
0.075	26.5	15.6	5.9	

coarse sand
medium sand
fine sand
very fine sand

1141/MO/4/97



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[Signature]
Authorised signatory

30/4/97
date of issue

**BARRETT,
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TEST RESULTS

*Higher NMT
Advice
S/C*

430050

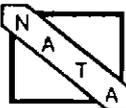
materials testing laboratories
369A Bass Highway Prospect Vale
ACN 005 714 269

job no 25969
sample no L97/344

client	Mineral Holdings Australia Pty Ltd	date tested	23/5/97
project	Ringarooma Bay	tested by	BC
location	Tasmania	certificate no	969AB
sample identification	Beach Sand ex Ringarooma Bay		
sampled by	L. Rhodes	date received	21/5/97
sample description	SAND, fine to coarse grained, non plastic fines		

Test Description AS 1141	test method	Sample Identification	
		Q 224(44-)	Q 230(50-)
Sieve Size	Sect 11	Percent Retained Each Sieve	
mm			
6.7			
4.75			
2.36		20.7	6.9
1.18		16.4	11.4
0.600		24.2	22.6
0.425		15.2	13.7
0.300		6.3	17.3
0.150		11.9	21.0
0.075	4.9	6.6	

1141/MQ/4/97



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reg No 2034

[Signature]
Authorised signatory

28/5/97
date of issue

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 25th Feb. '97

REFERENCE: Sand Samples

TO: Neil M. Thomas / Lawry Rhodes

SAMPLE IDENT.	%Sn	%TiO ₂	%ZrO ₂						
A	<0.003	0.03	0.15						
B1-	0.004	0.06	0.16						
B2-	<0.003	0.04	0.14						
1-	0.012	0.09	0.15						
2-	0.006	0.06	0.14						
3-	<0.003	0.02	0.15						
4-	<0.003	0.02	0.15						
5-	0.004	0.09	0.14						
6-	0.004	0.16	0.15						
7-	0.010	0.14	0.16						
8-	<0.003	0.03	0.15						
9-	0.014	0.07	0.15						

COMMENTS:ANALYST: CFCHEMIST: *D. Geier*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON



430052

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 25th Feb. '97

TEMCO
Bell Bay
BHP Manganese

REFERENCE: Sand Samples

TO: Neil M. Thomas / Lawry Rhodes

SAMPLE IDENT.		%Sn	%TiO ₂	%ZrO ₂						
10-	Q143	0.022	0.15	0.14						
11		<0.003	0.21	0.15						
12		<0.003	0.09	0.14						
13-		0.005	2.08	0.24						
14		<0.003	0.55	0.15						
15		<0.003	0.16	0.14						
16-		<0.003	0.02	0.15						
17-	Q150	0.026	0.08	0.15						
18-		<0.003	0.02	0.13						
19-	Q152	0.022	0.07	0.15						
20		<0.003	0.10	0.14						

COMMENTS:**ANALYST:** CF**CHEMIST:** *D. Geier*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 4.4.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)							
21- (Q197)	<30	0.04	0.14							
22- (Q198)	<30	0.28	0.15							
23 (Q199)	<30	0.58	0.17							
24 (Q200)	<30	0.11	0.14							
25 (Q201)	<30	0.11	0.13							
26 (Q202)	<30	0.54	0.16							
27 (Q203)	<30	0.27	0.15							
28 (Q204)	50	0.84	0.19							
29- (Q205)	130	0.18	0.15							
30- (Q206)	40	0.04	0.13							
31- (Q207)	100	0.13	0.15							
32- (Q208)	40	0.08	0.14							
33- (Q209)	<30	0.03	0.14							
34 (Q210)	<30	0.23	0.14							
35- (Q211)	50	0.05	0.15							
36- (Q212)	<30	0.03	0.14							
37- (Q213)	30	0.05	0.15							

COMMENTS:

ANALYST: DG

CHEMIST: *R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 4.4.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)							
38- (Q218)	30	0.05	0.13							
39- (Q219)	150	0.10	0.16							
40- (Q220)	170	0.08	0.15							
41- (Q221)	60	0.07	0.15							
42- (Q222)	130	0.09	0.16							
43- (Q223)	150	0.08	0.16							
44- (Q224)	230	0.07	0.15							
45- (Q225)	160	0.06	0.15							
46- (Q226)	250	0.08	0.16							
47- (Q227)	210	0.09	0.15							
48- (Q228)	180	0.08	0.16							
49- (Q229)	210	0.08	0.14							
50- (Q230)	210	0.11	0.16							
51- (Q231)	210	0.10	0.14							

COMMENTS:ANALYST: CF,KDCHEMIST:*R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 26.5.97

MISSING TABLES

REFERENCE: Mineral Sands samples

TO: L.Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)						
52- (Q258)	200	0.06	0.16						
53- (Q259)	130	0.05	0.16						
54- (Q260)	60	0.05	0.16						
55- (Q261)	70	0.05	0.16						
56- (Q262)	40	0.05	0.16						
57- (Q263)	110	0.08	0.17						
58- (Q264)	270	0.09	0.17						
59- (Q265)	130	0.07	0.17						
60- (Q266)	200	0.11	0.16						
61- (Q267)	230	0.10	0.16						
62- (Q268)	230	0.12	0.16						
63- (Q269)	270	0.08	0.17						
64- (Q270)	300	0.10	0.17						
65- (Q271)	330	0.07	0.17						
66- (Q272)	170	0.07	0.17						
67- (Q273)	340	0.12	0.16						
68- (Q274)	140	0.11	0.16						
69- (Q275)	80	0.07	0.14						

COMMENTS:ANALYST: CF,AHCHEMIST:*R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 4.6.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)						
70- (Q276)	70	0.05	0.13						
71- (Q277)	140	0.06	0.14						
72- (Q278)	100	0.06	0.15						
73- (Q279)	130	0.07	0.16						
74- (Q280)	150	0.08	0.15						
75- (Q281)	220	0.09	0.16						
76- (Q282)	310	0.08	0.18						
77- (Q283)	180	0.09	0.17						
78- (Q284)	130	0.10	0.18						
79- (Q285)	250	0.11	0.18						
80- (Q286)	130	0.08	0.18						
81- (Q287)	230	0.11	0.17						
82- (Q288)	140	0.10	0.17						
83- (Q289)	210	0.08	0.17						
84- (Q290)	100	0.05	0.17						
85- (Q291)	80	0.04	0.17						
86- (Q292)	230	0.14	0.18						
87- (Q293)	140	0.08	0.17						
88- (Q294)	20	0.02	0.16						
89- (Q295)	100	0.13	0.17						

COMMENTS:

ANALYST: CF,AH,DG

CHEMIST:

R. Gelston

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 17.6.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)							
90- (Q332)	190	0.12	0.18							
91- (Q333)	180	0.09	0.16							
92- (Q334)	190	0.08	0.18							
93- (Q335)	400	0.09	0.17							
94- (Q336)	180	0.08	0.17							
95- (Q337)	120	0.09	0.17							
96- (Q338)	50	0.06	0.15							
97- (Q339)	110	0.12	0.16							
98- (Q340)	130	0.06	0.17							
99- (Q341)	90	0.04	0.13							
100- (Q342)	<30	0.07	0.14							
101- (Q343)	40	0.05	0.14							
102- (Q344)	<30	0.06	0.13							
103- (Q345)	50	0.06	0.15							
104- (Q346)	170	0.11	0.16							
105- (Q347)	140	0.13	0.16							
106- (Q348)	160	0.10	0.17							
107- (Q349)	150	0.10	0.15							
108- (Q350)	260	0.14	0.17							

COMMENTS:

ANALYST: CF,AH,DG

CHEMIST:

R. Gelston

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 20.6.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)							
109- (Q399)	160	0.08	0.17							
110- (Q400)	160	0.07	0.16							
111- (Q401)	200	0.09	0.16							
112- (Q402)	110	0.08	0.15							
113- (Q403)	70	0.07	0.15							
114- (Q404)	130	0.08	0.17							
115- (Q405)	130	0.08	0.17							
116- (Q406)	130	0.08	0.16							
117- (Q407)	70	0.10	0.16							
118- (Q408)	50	0.09	0.15							
119- (Q409)	160	0.10	0.16							
120- (Q410)	240	0.07	0.16							
121- (Q411)	80	0.05	0.16							
122- (Q412)	250	0.06	0.17							
123- (Q413)	350	0.07	0.17							

COMMENTS:ANALYST: CF,KDCHEMIST:*R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 04.12.97

REFERENCE: Mineral Sands samples

TO: L. Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)
124 (Q602)	140	0.11	0.18
124- (Q603)	110	0.09	0.19
125 (Q604)	150	0.07	0.19
125- (Q605)	270	0.13	0.18
126 (Q606)	110	0.10	0.18
126- (Q607)	280	0.15	0.19
127 (Q608)	260	0.13	0.19
127- (Q609)	260	0.13	0.19
128 (Q610)	160	0.09	0.18
128- (Q611)	140	0.11	0.18
129 (Q612)	70	0.08	0.18
129- (Q613)	320	0.12	0.19
130 (Q614)	130	0.06	0.19
130- (Q615)	110	0.08	0.19
131 (Q616)	90	0.14	0.19
131- (Q617)	130	0.11	0.20
132 (Q618)	120	0.10	0.19
132- (Q619)	170	0.12	0.20

COMMENTS:ANALYST: AH,KDCHEMIST:*R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 15.12.97

REFERENCE: Mineral Sands samples

TO: L. Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)							
135 (Q620)	60	0.05	0.16							
135- (Q621)	70	0.08	0.17							
136 (Q622)	30	0.15	0.16							
136- (Q623)	80	0.11	0.17							
137 (Q624)	30	0.07	0.16							
137- (Q625)	90	0.08	0.14							
138 (Q626)	80	0.04	0.17							
138- (Q627)	40	0.07	0.17							
139 (Q628)	<30	0.10	0.18							
139- (Q629)	<30	0.09	0.17							
140 (Q630)	<30	0.07	0.17							
140- (Q631)	50	0.07	0.17							
141 (Q632)	<30	0.04	0.14							
141- (Q633)	<30	0.07	0.16							
143 (Q634)	<30	0.07	0.17							
143- (Q635)	<30	0.07	0.15							
144 (Q636)	<30	0.04	0.14							
144- (Q637)	<30	0.05	0.11							

COMMENTS:

ANALYST: AH,KD,CF

CHEMIST: *R. Gelston*

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 23.02.98

REFERENCE: Mineral Sands samples (Rincah Roma Bay)

TO: L Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)						
Q 768 (28)(228)	<30	0.05	0.17						
Q 769 (29)(229)	30	0.14	0.17						
Q 770 (30)(230)	<30	0.07	0.17						
Q 771 (31)(231)	<30	0.08	0.15						
Q 772 (32)(232)	<30	0.05	0.18						
Q 773 (33)(233)	<30	0.07	0.19						
Q 774 (34)(234)	<30	0.07	0.11						
Q 775 (35)(235)	<30	0.05	0.11						
Q 776 (36)(236)	<30	0.07	0.15						
Q 777 (37)(237)	<30	0.05	0.10						
Q 778 (38)(238)	<30	0.04	0.13						
Q 779 (39)(239)	<30	0.09	0.17						
Q 780 (40)(240)	<30	0.05	0.12						
Q 781 (41)(241)	<30	0.05	0.12						
Q 782 (42)(242)	<30	0.04	0.17						
Q 783 (43)(243)	<30	0.05	0.15						
Q 784 (44)(244)	<30	0.04	0.15						
Q 785 (45)(245)	<30	0.06	0.15						
Q 786 (46)(246)	<30	0.12	0.16						
Q 787 (47)(247)	150	0.10	0.18						

COMMENTS:

ANALYST: AB,AH,KD,DG

CHEMIST: *R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 23.02.98

REFERENCE: Mineral Sands samples (Kintla Account 224)

TO: L Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)						
Q 788 (48)(248)	<30	0.04	0.12						
Q 789 (49)(249)	<30	0.05	0.15						
Q 790 (50)(250)	<30	0.05	0.13						
Q 791 (51)(251)	<30	0.03	0.13						
Q 792 (52)(252)	<30	0.06	0.13						
Q 793 (53)(253)	<30	0.07	0.16						
Q 794 (54)(254)	<30	0.06	0.17						
Q 795 (55)(255)	30	0.10	0.18						
Q 796 (56)(256)	<30	0.09	0.18						
Q 797 (57)(257)	50	0.07	0.16						
Q 798 (58)(258)	30	0.08	0.16						
Q 799 (59)(259)	<30	0.07	0.16						
Q 800 (60)(260)	<30	0.07	0.15						
Q 801 (61)(261)	30	0.23	0.16						
Q 802 (62)(262)	30	0.13	0.16						
Q 803 (63)(263)	90	0.10	0.17						
Q 804 (64)(264)	<30	0.12	0.15						
Q 805 (65)(265)	100	0.05	0.16						
Q 806 (66)(266)	190	0.06	0.18						
Q 807 (67)(267)	120	0.07	0.17						

COMMENTS:

ANALYST: AB,AH,KD,DG

CHEMIST: *R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 21.02.98

REFERENCE: Mineral Sands samples *Kilgarrona 1234*

TO: L. Rhodes

SAMPLE IDENT.	Sn(ppm)	TiO ₂ (%)	ZrO ₂ (%)						
Q 808 (68)(218)	30	0.11	0.15						
Q 809 (69)(219)	<30	0.02	0.13						
Q 810 (70)(220)	<30	0.12	0.13						
Q 811 (71)(221)	120	0.12	0.16						
Q 812 (72)(222)	200	0.14	0.16						
Q 813 (73)(223)	<30	0.08	0.16						
Q 814 (74)(224)	<30	0.07	0.16						
Q 815 (75)(225)	<30	0.11	0.13						
Q 816 (76)(226)	<30	0.14	0.16						
Q 817 (77)(227)	<30	0.13	0.14						
Q 818 (78)(228)	<30	0.28	0.14						
Q 819 (79)(229)	No Sample								
Q 820 (80)(230)	<30	0.16	0.14						
Q 821 (81)(231)	<30	0.15	0.13						
Q 822 (82)(232)	<30	0.12	0.14						
Q 823 (83)(233)	<30	0.13	0.12						
Q 824 (84)(234)	<30	0.17	0.14						
Q 825 (85)(235)	<30	0.07	0.17						

COMMENTS:

ANALYST: AB,AH,KD,DG

CHEMIST: *R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 6.5.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

Sn content of size fractions for samples 10, 17 and 19

SAMPLE IDENT.	Sn(ppm)									
10- +1.18 (Q234)	60									
10- +0.600 (Q235)	40									
10- +0.300 (Q236)	90									
10- +0.150 (Q237)	1230									
10- +0.075 (Q238)	70									
10- -0.075 (Q239)	NES									
17- +1.18 (Q240)	30									
17- +0.600 (Q241)	140									
17- +0.300 (Q242)	300									
17- +0.150 (Q243)	2130									
17- +0.075 (Q244)	220									
17- -0.075 (Q245)	NES									
19- +2.36 (Q246)	10									
19- +1.18 (Q247)	1520									
19- +0.600 (Q248)	110									
19- +0.300 (Q249)	210									
19- +0.150 (Q250)	2380									
19- +0.075 (Q251)	180									
19- -0.075 (Q252)	NES									

COMMENTS: NES: Not Enough SampleANALYST: CF,KDCHEMIST:*R. Gelston*

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

CHEMICAL LABORATORY : INPLANT ANALYSIS REPORT

DATE: 4.6.97

REFERENCE: Mineral Sands samples

TO: L.Rhodes

Sn content of size fractions for
samples 44 and 50.

SAMPLE IDENT.	Sn(ppm)								
44- +2.36 (Q296)	30								
44- +1.18 (Q297)	130								
44- +0.600 (Q298)	130								
44- +0.300 (Q299)	190								
44- +0.150 (Q300)	1110								
44- -0.150 ^{+0.75} (Q301)	850								
50- +2.36 (Q302)	50								
50- +1.18 (Q303)	120								
50- +0.600 (Q304)	150								
50- +0.300 (Q305)	70								
50- +0.150 ^{.750} (Q306)	420								
50- -0.150 ^{+0.75} (Q307)	650								

COMMENTS:ANALYST: CF,AH,DGCHEMIST:

R. Gelston.

QA:DOC:12

REV.02

DATE:22.03.95

AUTHORISED BY: R.GELSTON

Department of Physical Sciences
Consultancies

PO Box 1214
Launceston 7250

Mineral Holdings Aust Pty Ltd
c/- Mr. L. J. Rhodes
P.O. Box 154
St Marys 7215

5th June 1997

Your samples have been analysed for Tin with the following results

Our Ref.	Description	% Tin
970408	Q224 44 Pan -75um	0.10
970409	Q230 50 Pan -75um	0.09
970410	Q239 10 -75um	0.30
970411	Q245 17 -75um	0.21
970412	Q252 19 -75um	0.09


Murray Frith
Laboratory Manager.

