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No. 1159

SML 308

RAPID BAY

PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER FOR THE PERIOD 8/5/1969 TO 7/5/1970

Submitted by
Electrolytic Zinc Co. of Australasia Ltd
1970

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Government of South Australia
Primary Industries and Resources SA

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TENEMENT HOLDER:- ELECTROLYTIC ZINC CO. OF
AUSTRALASIA LTD.
RAPID BAY

REPORTS:-

Muller D.W. Report No. 1 for six months
ended 7th November, 1969 (pgs. 3-5)
(NO PLANS)

Muller D.W. Report No. 2 for six months ended
7th May, 1970 (pgs. 6-8)

PLANS:-

| | | |
|-----------------|---|----------|
| Ref. No. D120.4 | Stream Geochemistry sediment Sample Location and Numbers | (1159-1) |
| Ref. No. D120.5 | Stream Geochemistry Copper values | (1159-2) |
| Ref. No. D120.6 | " " lead " | (1159-3) |
| Ref. No. D120.7 | " " zinc " | (1159-4) |

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

EXPLORATION DEPARTMENT

Special Mining Lease No. 308

RAPID BAY

Report No. 1 for six months ended 7th November, 1969

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
EXPLORATION DEPARTMENT

Special Mining Lease No. 308

RAPID BAY

Report No. 1 for six months ended 7th November, 1969

GENERAL

Owing to the climatic conditions in this area being more favourable than other leases held by the Company in the Flinders Ranges, it has been decided to concentrate our exploration effort on this lease during the summer months, January, February and March.

PREPARATIONS

The author has spent some time investigating the area and has also visited the lease with a consulting palaeontologist-stratigrapher. Aerial photographs and glass diapositives have been obtained from the Department of Lands. All private land owners will be approached by Company officers.

FUTURE PROGRAMMES

Photogrammetric maps are being prepared on a scale of one inch to 500 feet. It is intended at this stage that a systematic B horizon soil sampling programme will be carried out to test selected stratigraphic horizons.

Arrangements are made to conduct a thorough geochemical orientation survey in the lease.

WORK FORCE

A consultant geochemist in co-operation with a Company geologist will conduct the orientation survey. Soil samples will be collected by two

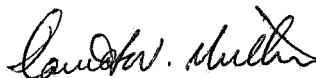
independent teams, each under the guidance of a geologist and leading hand geochemical sampler. A field foreman will also be closely involved with the programme.

FIELD LIVING

Efforts are being made to rent two houses at Normanville. If this is not successful, other arrangements will be made but accommodation does not appear to be a problem in the district. Vehicles and equipment will be supplied from our Flinders Base at Beltana.

COST OF INVESTIGATIONS

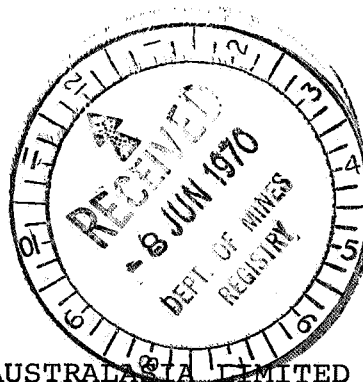
Expenditure to date has only been minor, and figures are not yet available. However, it is expected that expenditure for the second six month period ending 7th May, 1970, will be well in excess of the commitment figure for the Special Mining Lease.



D. W. MULLER,
Geologist,
Exploration Department.

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

EXPLORATION DEPARTMENT

Special Mining Lease No. 308

RAPID BAY

Report No. 2 for six months ended 7th May, 1970

FINAL REPORT

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ACCOMPANYING PLANS:

One paper transparency and one paper print of -

1. Sheet D120.4; Stream Geochemistry, sample locations and numbers
2. Sheet D120.5; " " copper values
3. Sheet D120.6; " " lead values
4. Sheet D120.7; " " zinc values

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITEDEXPLORATION DEPARTMENTSpecial Mining Lease No. 308RAPID BAYReport No. 2 for six months ended 7th May, 1970.FINAL REPORTGENERAL

Negotiations with private land owners were conducted during the months of November and December.

'Authority to Enter' forms were signed by these people. Less than 10% of the total area on which exploration was completed was on Crown land.

Exploration was carried out during the months of January, February and March.

INVESTIGATIONS

- (1) A geochemical orientation programme was completed in this area and the area of our Special Mining Lease No. 305. It was found that -20+80 mesh sized stream sediments form the optimum material for maximum anomaly contrast.
- (2) Photogrammetric stream drainage plans were prepared at a scale of 1 inch to 1000 feet. These were drafted by Qasco Air Surveys of Sydney.
- (3) Using the above plans, a stream sediment programme was completed. 204 samples were collected for analyses for Cu, Pb and Zn.
- (4) Geological mapping was conducted over the area to be sampled. The lithologies of greatest interest were the Lower Cambrian limestone units. These were noted to contain minor disseminated sulphide mineralization of Cu, Pb and Zn.

RESULTS OF INVESTIGATIONS

Numerous low order anomalies were located in the programme. Follow-up field investigations discounted all these anomalies as having significance. Those that could not be attributed to man made pollution were inconsistent.

WORK FORCE

Two geologists and a field foreman were on site at Normanville for three months. Four field assistants were employed to collect samples. This team of men was concurrently carrying out exploration on our nearby Special Mining Lease No. 305.


FIELD LIVING

For the first two months the team of men were operating from the shearers' quarters at 'Forktree' Homestead. Rented houses were obtained in Normanville for the remainder of the programme.

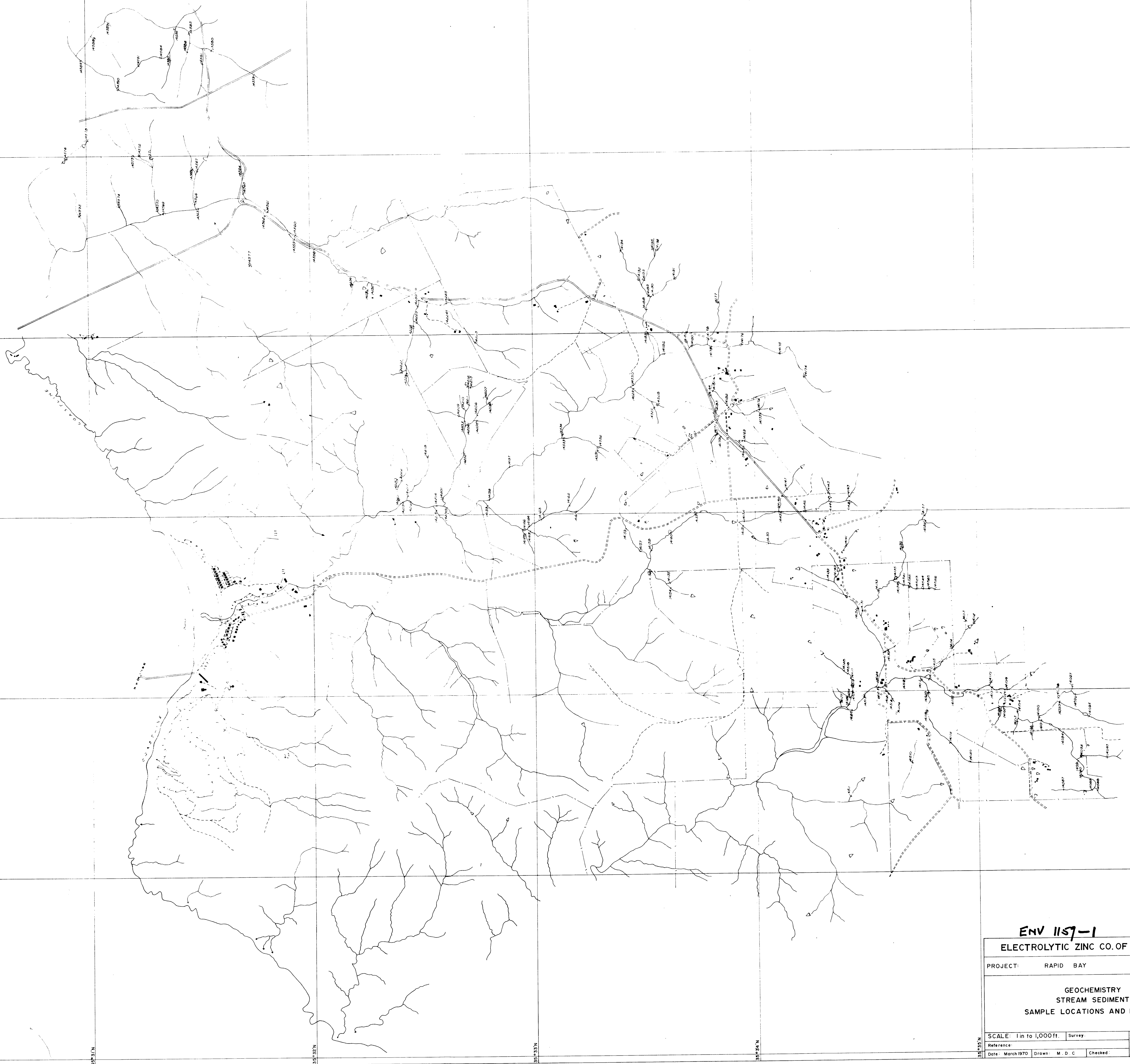
FUTURE PROGRAMMES

As no areas of interest were located on Crown land, we have relinquished Special Mining Lease No. 308. 'Authority to Enter' forms which have been signed remain valid for two years and further exploration on these areas is unlikely.

Expenditure figure transferred
to DM 593 / 69 7-2-73


D. W. MULLER,
Geologist,
Exploration Department.

DWM:RT



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SOUTH
AUSTRALIA

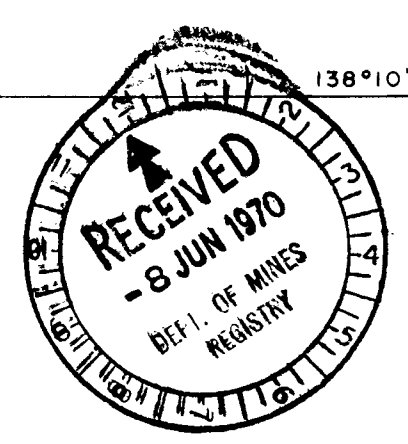
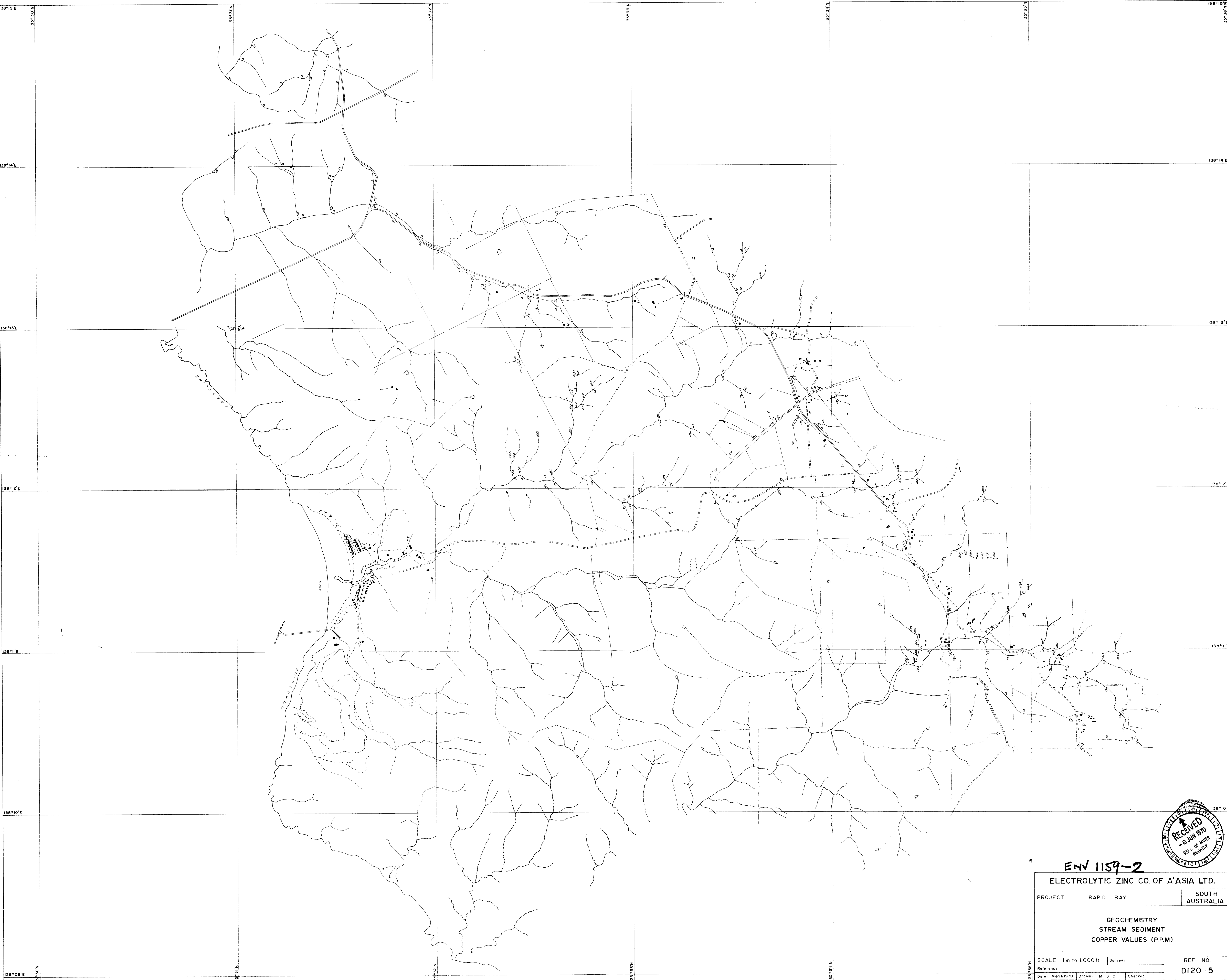
GEOCHEMISTRY
STREAM SEDIMENT
SAMPLE LOCATIONS AND

| | |
|--------------------------|---------|
| SCALE: 1 in to 1,000 ft. | Survey: |
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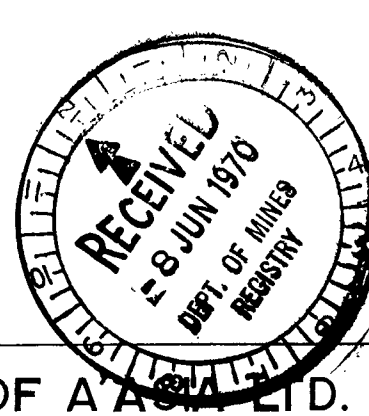
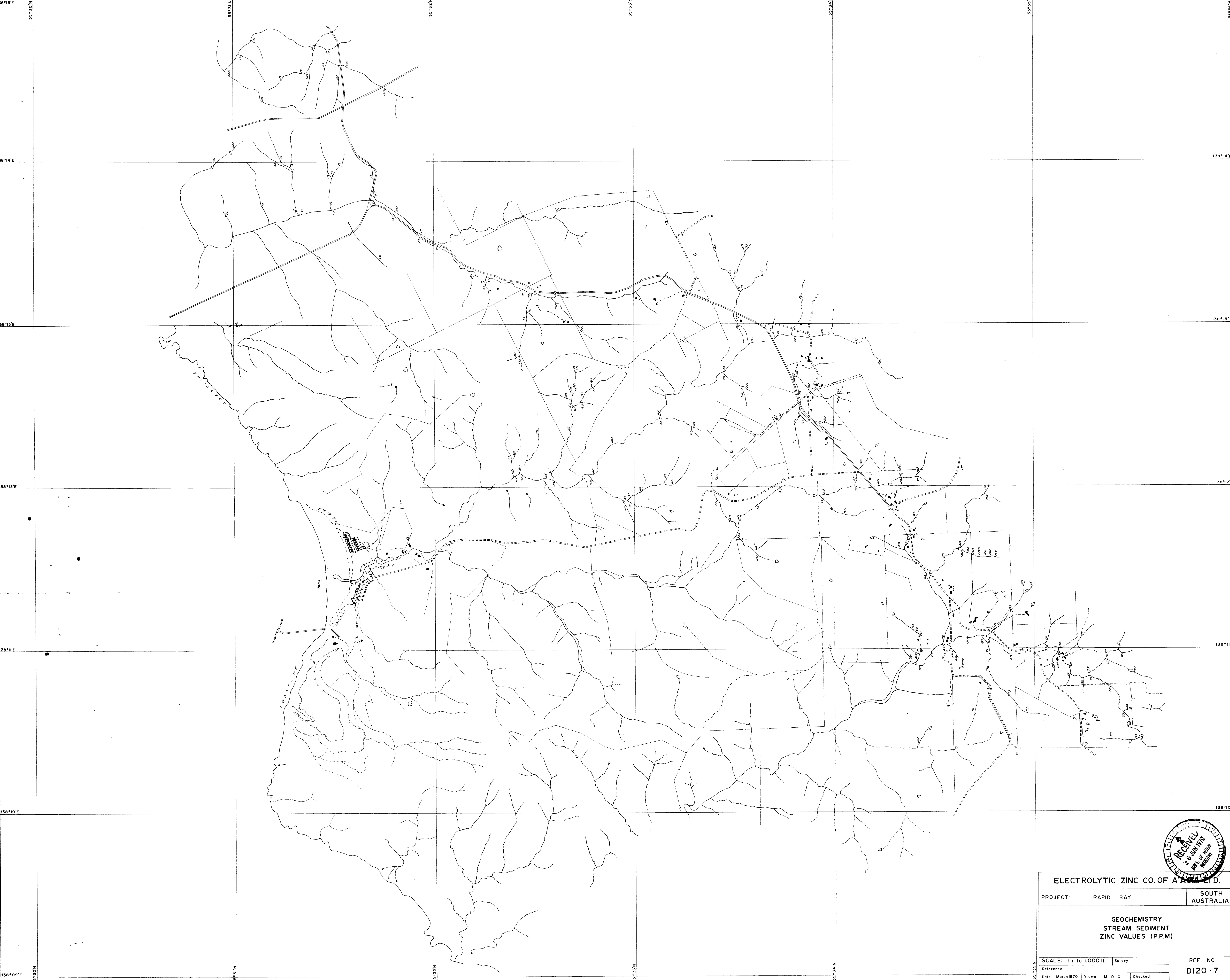
ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

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| PROJECT: RAPID BAY | SOUTH AUSTRALIA |
| GEOCHEMISTRY STREAM SEDIMENT COPPER VALUES (P.P.M) | |
| SCALE: 1 in to 1,000 ft. Survey | REF NO. |
| Reference | D120 · 5 |
| Date: March 1970 | Drawn: M. D. C. Checked: |



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| ENV 1159-3 | |
| ELECTROLYTIC ZINC CO. OF AUSTRALIA LTD. | |
| PROJECT: RAPID BAY | SOUTH AUSTRALIA |
| GEOCHEMISTRY STREAM SEDIMENT LEAD VALUES (P.P.M) | |
| SCALE: 1 in to 1,000 ft. Survey: | REF. NO. |
| Reference: | D120 6 |
| Date: March 1970 Drawn: M. D. C. Checked: | |

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| PROJECT: RAPID BAY | SOUTH AUSTRALIA |
| GEOCHEMISTRY STREAM SEDIMENT ZINC VALUES (P.P.M.) | |
| SCALE: 1 in to 1,000 ft. Survey | REF. NO. |
| Reference | D120-7 |
| Date: March 1970 | Drawn: M. D. C. Checked: |

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