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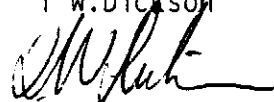
MICROFILMEDROCKY CAPE EL 1/77 LEAD ZINCCOMPUTER STUDY - STREAM SEDIMENTS

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1. SUMMARY

Minus 80# stream sediment data pertaining to N.W. Tasmania was collated from all available reports. The data, together with extra variables prepared manually from geological and topographic maps was computer coded into separate files according to company. Each company's data was processed using the MICROGAS package statistical computer program to determine whether each data set was comparable. Gross transformations of the data were deemed unnecessary and each file was merged together into a single file. The eleven most common analytical variables, copper, lead, zinc, nickel, cobalt, arsenic, molybdenum, tin, cold extractable copper, Cu/Ni ratio and free copper ratio* were examined statistically using the MICROGAS subroutine DSTATS. Population breaks were determined from histograms of each element's distribution and entered into the MAPLOT subroutine to produce geochemical symbol maps at a scale of 1:100 000. The maps were coloured to ease population identification, interpreted and anomalies identified. Portions of the data were selected using one of the geological variables within the DSTATS subroutine to determine thresholds for individual rock types and then manually compared with those obtained by examining the data as a whole. A reasonably good comparison resulted, the major exceptions being copper, nickel and cobalt for basic rocks and the tin distribution as a whole. In both cases, thresholds for Cu, Ni, Co, should be higher than those already selected. However, the maximum number of anomalies has been obtained and careful follow-up is required.

2. INTRODUCTION

A computer oriented evaluation of all available stream geochemical data was undertaken to define a stratigraphic/lithographic horizon anomalous in lead or zinc to follow up a conceptual model that the Rocky Cape shelf basin shows certain similarities with the Selwyn Basin of Canada, which contains major shale-hosted lead-zinc mineralisation. The study was broadened to include other base metals as well as tin. This report deals solely with -80# stream sediment data.

* defined on p 25

3. CONCLUSIONS

1. Analytical and sampling errors between individual data sets were low and allowed a reasonable statistical interpretation of the data.
2. The differences in threshold values obtained by examination of the data as a whole and portions of it selected on a geological basis has aided interpretation in screening out anomalies caused by basic rocks.
3. Analyses of molybdenum, free copper ratio and possibly arsenic may be suspect owing to crude analytical techniques employed in the mid 1960's.
4. The study has been successful in highlighting areas of known mineralisation as well as indicating areas of further interest.

4. RECOMMENDATIONS

It is recommended that the following areas warrant further exploration on the basis of anomalous stream geochemistry, geophysical anomalies and geological factors as well as infilling of areas not sampled previously.

1. AREAS SHOWING SIMILARITIES WITH THE SELWYN BASIN, CANADA.

Trowutta District

Anomalous Cu, Pb, Zn, Co, values in creeks draining Cambrian basic volcanics. Coincident aeromagnetic highs, coupled with INPUT anomalies towards the margin of the Smithton trough. Similarity in lithologies and structural style with the Selwyn basin.

East of Pieman Heads

Anomalous Pb values associated with Precambrian sediments including the Delville chert, INPUT anomalies are located to the SE.

2. AREAS HAVING POSSIBLE SKARN POTENTIAL

Granville Harbour

Possible geochemical halo with a core of anomalous Cu, Pb, Ni, Co, As surrounded by Zn, situated along strike from the known St. Dizier Sn workings and coincident with an aeromagnetic high.

Pieman Heads Granite

Anomalous Cu, Zn, Pb, Sn situated along the granite margin with coincident aeromagnetic highs.

Rupert Point

Situated on the western margin of the Interview granite with anomalous tin values over a strike length of 4km. An aeromagnetic high coincides with the granite margin. A review of ACI's data is warranted before field checking.

3. OTHER AREAS

Corinna

Numerous copper, zinc, nickel and lead anomalies occur in the vicinity of Corinna. Many of them may be attributed to basic rocks contained within the Arthur Lineament which is marked by aeromagnetic highs. The presence of a few Cu/Ni ratio anomalies suggests that basic rocks may not be causative. Field checking is definitely warranted.

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Horton River

Anomalous copper, cobalt values associated with an aeromagnetic low draining Cambrian greywackes-siltstones.

Thornton River

Anomalous lead, arsenic, Cu/Ni values fall in the Thornton and Mcleod rivers which drain a sequence of Precambrian sediments.

Daisy Creek

A single anomalous zinc value in Precambrian sediments occurs in the middle reaches of this creek.

N. Pedder River

A single lead anomaly is located in the head-waters of this creek and possibly drains areas of known Pb-Ag mineralisation in the Norfolk Ranges.

Eighty Creek (South)

A single spot lead anomaly lies in an unnamed creek to the southwest of Eighty creek. It may reflect the possible along-strike contribution of the Poseidon lead-silver workings.

Toner River

Anomalous Pb, Mo, As, CxCu and free copper values reflect the Toner River copper workings. The presence of a lead anomaly indicates further work should be undertaken.

Chimney Creek

Two anomalous lead values occur in a first order tributary of Chimney Creek within Precambrian sediments.

Rocky Creek

Two anomalous lead values may reflect strike continuation of lead-silver veins within Precambrian sediments.

Destination Creek

A single Pb, Cu, Cu/Ni anomaly drains a small aeromagnetic high located in Precambrian sediments.

George Town Packet Creek

Zinc, tin, cobalt and free copper anomalies may reflect outcrops of Tertiary basalt but require field checking.

Hoyle Creek

A single Cu, Pb, Zn anomaly occurs in Precambrian meta-sediments and drains outcrops of Tertiary gravels. Limited field checking is required.

4. ALTERATION TO MICROGAS

Two suggestions are proposed to improve the DSTATS subroutine.

- (a) Inclusion of cumulative frequency plots to enable better and quicker identification of population breaks since mean and standard deviations only apply to a single population.
- (b) A third option in scaling of histograms intervals. This would be a rigid semi logarithmic scaling which would partially account for analytical reading errors and thus improve the distribution of data.

5. REGIONAL GEOLOGY

Detailed Mines Dept. mapping of the Rocky Cape EL's has been confined to the most accessible areas, namely north of the Arthur River and an area defined by the Lagoon River and Granville Harbour (Plan 1). Further sources of mapping are derived from areas of economic interest, but large

tracts within the central and eastern parts of the EL remain essentially unmapped. The oldest rocks are of Proterozoic age and comprise a comparatively unmetamorphosed sequence of mainly mudstones and ortho-quartzites. This sequence is supposedly overlain by stromatolite - bearing rocks (Smithton dolomite and its equivalents) which are apparent in the Smithton area. It is uncertain whether the Smithton dolomite precedes or post-dates the Penguin orogeny.

Smithton sheet -
unconformity separates
Smithton dolomite
to mark
Penguin
Orogeny -
PWB.

During Cambrian times a number of troughs (including the Smithton trough), ^{underlying Forest Cape from Rocky Cape sp. - unconformity} were formed and filled by greywacks and basalts, generally regarded as equivalents of the Crimson Creek formation of the Dundas trough. Cambrian tectonics appear to be dominated by basin development and localised faulting, possibly horst and graben type within the Smithton trough.

Minor Ordovician and Devonian sediments crop out in the southern portion of the EL and these unconformably over-^{Evidence?}lie the older rocks.

Sedimentation during the mid-Devonian was interrupted by the Tabberabberan orogeny which involved at least two phases of folding and the intrusion of S and I type granites, namely the Heemskirk, Pieman Heads and Interview granites within the Rocky Cape EL.

Intrusion of dolerite dyke swarms occurred within the Jurassic whilst Tertiary basaltic sills and erosional sediments dominate the more recent geological activity.

Diagrammatic relationships are shown in figure 1. (After Solomon, 1981).

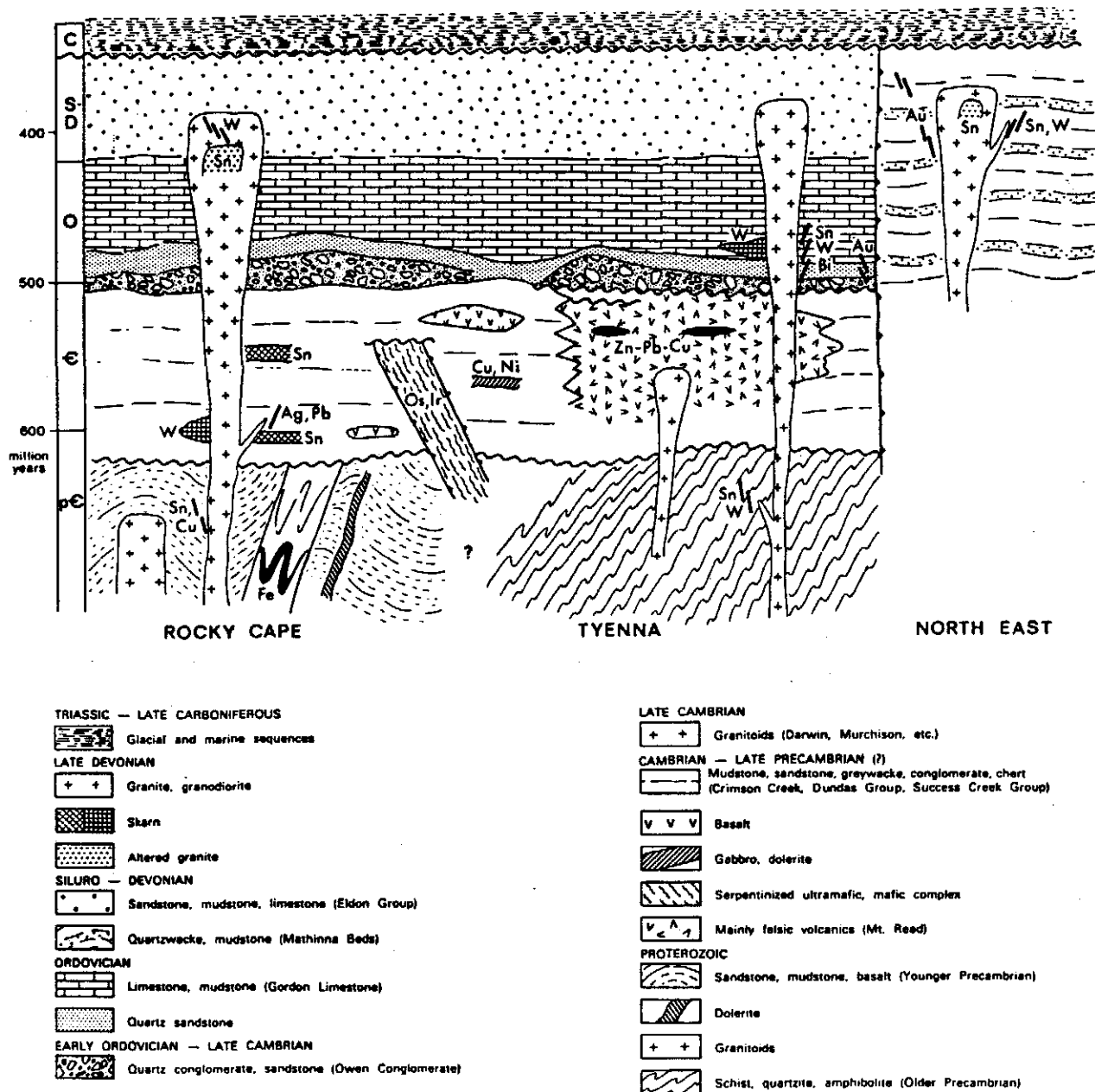


Fig. 1 Diagram displaying major pre-Carboniferous rock relationships in Tasmania.

- no dolomite!

2. Photo-Interpretation

A photogeological interpretation of the country between the Arthur and Pieman Rivers was completed by Prof. Carey of the University of Tasmania in 1981. The interpretation was at a scale of 1:40 000 and was based on a fracture analysis study (Plan 1). Photo interpretational formations have been proposed but appear to be somewhat questionable owing to very limited ground follow-up.

Carey's correlations of the Precambrian rocks are as follows:

Sigma formation - Smithton group, Savage Dolomite
Delville Chert, Bernafai volcanics
Unconformity

Phi formation - Interview group (part)
Probable unconformity

Epsilon formation - Balfour slates, Interview group (part)

Alpha group - Donaldson group, Lagoon river
Possible Unconformity

Rho formation - Whyte Schist.

Carey attempted to interpret the Mt Lyell-Rosebery trend of mineralisation as being bounded by a system of "Deep" faults. Subsequent transcurrent faulting by the Henty fault and the Arthur lineament has offset this trend, the continuation of which is represented by the Balfour trend of deep faults whose signature is defined by significant linear aeromagnetic anomalies.

Carey rated the Balfour trend of aeromagnetic anomalies as having significant potential for mineralisation, as well as rating highly the margin of the Pieman Heads granite for potential skarn type mineralisation of the King Island type, since he correlated the Delville chert with carbonate rocks observed on King Island.

6. HISTORY OF PREVIOUS INVESTIGATIONS

6.1 Pb -Zn Potential of the younger Precambrian rocks of NW Tasmania.

P. J. Legge (1980) gave an excellent summary of past exploration activities within N.W. Tasmania. His interpretations were based on a collation of regional geology, geochemical data, and regional geophysics. It was considered that his geochemical interpretations could be improved by examining the data more closely since rough estimates of anomalous Pb and Zn values were taken as 100 ppm Pb and 300 ppm Zn. Legge outlined various specific targets which are summarised in Plans 2&3 and his recommendations can be summarised as follows:

"The uppermost Proterozoic - Eocambrian Corinna sequence can be regarded as a regionally extensive mineralised stratigraphic horizon with potential for Pb-Zn-Ag, Sn deposits. Using a structural model of broad domes and basins, the Smithton Dolomite can be regarded as a potential western facies of this sequence and together with the geology of relevant mines in N.W. Tasmania can be fitted to a model of the Sullivan Pb-Zn deposit in occurrences in N.W. Tasmania."

6.2 Geophysics

Two major regional airborne surveys have been undertaken over the Rocky Cape EL's namely aeromagnetics conducted by RTZ in the mid 1950's and an airborne INPUT survey conducted by ESSO Australia. The former is not well documented. A synthesis of geophysical data is presented in Plans 2&3.

6.2.1 RTZ aeromagnetic survey

This survey was conducted in 1956 and serves to outline the major magnetic features present within the Rocky Cape EL's. Three major features are apparent:

- a. The Arthur lineament, extending from Wynyard to north of Granville Harbour.

- b. A NE trend of moderate to high intensity extending from Balfour to Smithton.
- c. The Balfour trend, a N-NW trend of isolated magnetic highs extending from the Lagoon River through to Nelson's Bay.

6.2.2 Input survey

Geoterrex under contract to ESSO Australia conducted a fixed-wing INPUT survey over EL 2/73 (800 sq miles) in March 1973. ESSO simultaneously conducted a helicopter borne geochemical follow-up survey. No geochemical samples or assays are recorded and their follow-up is regarded as being superficial. The INPUT survey recorded anomalies as follows:

- a. A western belt of strong, multiple anomalies extending from Johnson Bay to Ordance Point.
- b. From Ahrberg Bay, NNE along the Donaldson River to the Rapid River. A western arm extends from the Rapid River to the headwaters of the Frankland River.
- c. A broad zone of low to moderate amplitude anomalies near the headwaters of the Donaldson and Savage Rivers.
- d. A broad central zone encompassing the Balfour aeromagnetic trend, containing very few anomalies.

ESSO followed up these anomalies in four areas:

The Balfour trend, the Savage River area, Pieman Heads and the black shale belt. ESSO concluded there was insufficient potential for significant mineralisation.

The ESSO data appears to have been plotted on to a photomosaic from which plans were drafted. Considerable difficulty has been experienced in attempting to plot the INPUT anomalies on to 1:100 000 topographic sheets.

6.3 Exploration Activities by Companies

Various companies have explored over the present Rocky Cape EL's. The records of their investigations are extremely variable.

6.3.1. Pickands Mather (P.M.I.) EL 12/65

PMI conducted a regional stream sediment survey over EL 12/65 which covered most of N.W.Tasmania and their data forms the major part of this study. However, their investigations are very poorly documented and are restricted to a number of maps showing sample locations, a series of corresponding overlays and a ledger containing analysis sheets, many of which are missing. Most sample localities are labelled as "N.W.Tasmania" but creek names were occasionally recorded. The most significant anomalies e.g. Temma and others in the Queenstown area, have been moderately well recorded owing to more extensive investigations. One can assume that PMI were aware of lesser anomalies obtained from the drainage survey as different numbering sequences are recorded, indicating re-sampling. PMI routinely analysed the -80# fraction for Cu, Pb, Zn, Ni, Co, As by AAS, Sn by XRF, CxCu by Colorimetry and occasionally Mo by AAS.

6.3.2. ACI Syndicate, EL's 48/70 and 49/70

The ACI syndicate conducted an extensive investigation between Granville Harbour and Sandy Cape to test the tin potential of the Devonian granites. They utilised an airborne magnetic survey in conjunction with a stream sediment sampling programme together with detailed evaluation of known mineral occurrences. In the stream sediment survey they appear to have utilised PMI's results for Cu, Pb, Zn, Ni and only assayed for Sn, W and minor Cu. ACI analysed the -80# fraction for Sn & W by XRF and Cu by AAS. Aeromagnetic anomalies were obtained at Rupert Point and South Pieman Heads, both of which were gridded. ACI eventually concluded that anomalous tin values emanated from Tertiary gravels and relinquished the area in 1972.

6.3.3 Mount Lyell EL 27/78, Donaldson

The Donaldson EL was explored in conjunction with a precious stones survey as the lease was considered to have potential for stratabound Sn - W sulphide and stratiform base metal mineralisation. Exploration was restricted to the Toner River and Corinna areas. Known alluvial gold workings were of secondary importance. Thirty-four stream sediments were collected and analysed for Cu, Pb, Zn, Co, Mn, Fe, Sn, W_3 , As, Mo by AAS and XRF. No "strongly anomalous" values were recorded whilst surface indications at the Toner River workings implied they are of limited extent.

6.3.4 CRAE Arthur River Pb-Zn-Cu anomalies

An initial stream sediment programme over EL 43/70, to the east of the Rocky Cape EL revealed a number of anomalous Pb-Zn-Cu values. Subsequent follow-up showed that contamination along the Arthur River was causative. The majority of samples fall outside the Rocky Cape EL but a few occur within it. CRAE analysed the - 80# fraction for Pb, Zn, Cu, Ni, Co, Ag, Mo, As by AAS.

6.3.5 CRAE EL 1/77

In response to a concept (proposed by G. Thomas) of the stratabound nature of major Tasmanian tin deposits, a helicopter borne panned concentrate survey was initiated to determine areas of possible tin potential. A density of approximately 1 sample per 50 sq km was achieved.

The main objective was to cover the area as completely as possible as well as concentrating on areas which showed an aeromagnetic signature of comparable size and intensity to known major tin-producing mines.

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Minus 80# stream sediments were collected simultaneously and the survey was completed in mid 1977. A total of approximately 400 samples was collected and analysed for Pb, Zn, Cu, Ni, Mn by AAS and Sn, W by XRF.

Panned concentrate anomalies obtained were divided into two groups as follows:

- (a) Frankland River (reflecting Balfour), Nelsons Bay and associated rivers.
- (b) Lagoon River to Granville Harbour (reflecting Sn bearing Devonian granites).

Most of these anomalies were followed up by reconnaissance ground magnetics, rock chip and soil sampling.

7. THE SELWYN BASIN MODEL, B.C. CANADA

The Selwyn Basin is a tectono-stratigraphic feature that extends for 1300 km from NE British Columbia to Alaska. Palaeozoic rocks of the basin consist primarily of chert, shale and coarser clastic sediments with minor volcanics. The basin is bounded on both sides by coeval carbonate platforms. Twenty shale hosted Pb-Zn occurrences have been discovered since the mid 1960's with estimated recoverable resources of 900 million tonnes at a minimum combined grade of 9% Pb, Zn. (Carne and Cathro, 1982). The deposits can be divided into four camps: Anvil (Faro and Vangorda deposits), Howards Pass (XY and Anniv prospects), Macmillan Pass (Tom and Jason deposits), Gataga (Cirque deposit).

The principal features of these deposits are:

- a. Presence of an adjacent 'starved' carbonate platform.
- b. Thick sequence of fine grained sedimentary rocks capable of generating brines.
- c. Deposits usually occur at changes in thickness of the basin or alternatively changes in style of sedimentation.

- d. Presence of lineaments, hinge lines to produce horst and graben - type structures and initiate sub-basin development.
- e. Presence of graphite/Carbon.
- f. Absence of Felsic volcanics.

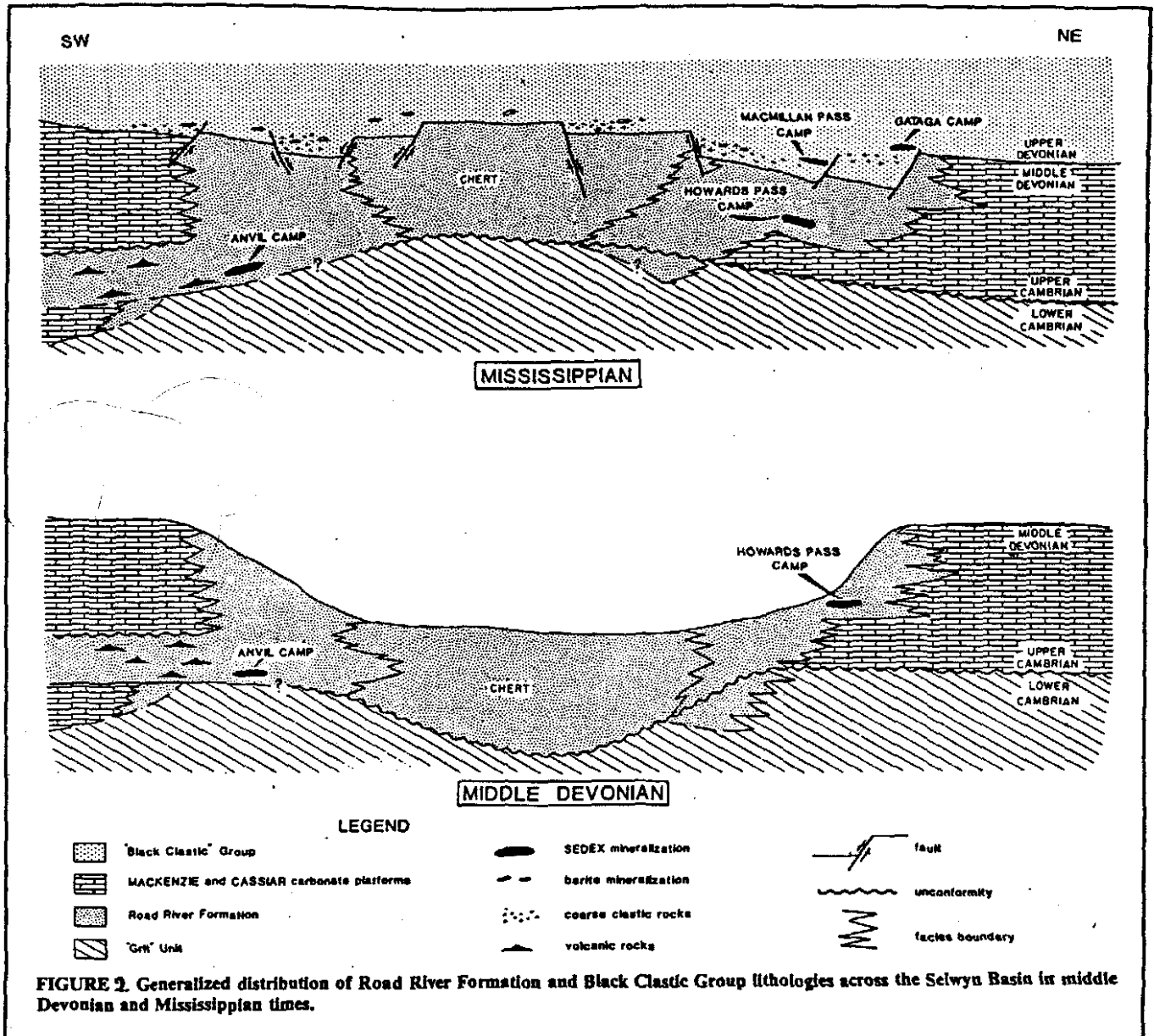


Figure 2. Idealised cross section through the Selwyn Basin (Carne and Cathro 1982).

Many of the deposits have associated barite mineralisation but in the case of the Howards Pass camp, barite is generally less than 2000 ppm. The majority of deposits show both vertical and lateral zoning, whilst some siliceous and

micaceous alteration is developed around mineralisation.

The favoured origin of this type of deposit is the production of metal bearing brines by simple diagenetic compaction. The brines are able to migrate upslope and can be trapped or released onto the sea floor and deposit sulphides in a quiet environment. The possibility of cyclical brine development and repetition of mineralisation throughout the sequence is easily postulated.

8. COMPUTER CODING

All the stream sediment data was obtained from open file reports held at the Tasmanian Mines Dept. as well as from CRAE internal reports. Sample locations were plotted on to 1:100 000 topographical sheets and were digitised into AMG co-ordinates in Adelaide. Analytical data was directly coded on to RL01 disc whilst geological variables were manually prepared and later coded on to disc, both on a free format basis. Each company's data was coded as a separate data file to enable later comparison.

8.1 Variables

A brief mention of the variables included in this study will be made here. Full details are provided in Appendix V.

8.1.1 Analytical variables

The following 8 elements are those which have been most commonly analysed: Cu, Pb, Zn, Ni, Co, As, Mo, Sn. Values below detection limit have been inserted as half detection limit. Values of -1 indicate that a sample has not been analysed for a specific element. Minus 1 values are ignored by the statistical calculations.

EAST, NORTH

AMG metric co-ordinates.

SMPTYP

Refers to sample type, whether stream sediment or panned concentrate.

STRMORD

Refers to stream order and will give an estimate of catchment size. This variable was obtained by inspection of topographic sheets.

TOPO

Refers to a topographical index rated 1 - 5 based on inspection of topographic sheets.

8.1.2 Geological Variables

Three variables have been used to account for Mines Dept. mapping (FORMGEOL), Prof. Carey's photo-interpretational study (PROFCAR) and site geology (SITEGEOL). SITEGEOL refers to either the dominant outcrop or float recorded at each sample site and obviously varies a great deal since in many instances it was never recorded. Values of -1 indicate that either no geological information was recorded or that samples fell outside of Prof. Carey's photo interpretations.

9. MICROGAS COMPUTER PACKAGE

MICROGAS (A Micro computer based geochemical analysis system) is a package system comprising 13 user interactive computer programs originally developed at Queen's University by O. Lavin et al. and partially funded by CRAE. The programs were later modified for use on the Digital PDP 11/23 or 11/34 computer by K. Wills and D. Triggs.

The package is designed as an evolving system to which further programs can be added. No knowledge of computer equipment or programming is required to operate the system. The basic aim is to allow the field geologist to manipulate the data himself and to improve his own interpretations.

The programs can be divided into two categories; namely data management and statistical.

(a) Data Management

1. CRUNCH Converts data from its original form (ASCII) into a binary form useable by the remaining programs in the package.

2. UNCRUNCH Converts a binary file back into ASCII format.
3. SORT Sorts a binary file with reference to sample number.
4. MERGES Merges two data files that contain the same variables for different samples.
5. MERGEV Merges two data files that contain different variables.
6. LISTER Produces a listing on the printer for a data set or selected portions of it.

(b) Statistical

1. DSTATS Calculations simple univariate statistical parameters and plots a histogram on the terminal screen and the printer.
2. XYPLOT Constructs xy plots or "scatter diagrams" on the screen and printer and calculates a correlation matrix.
3. MAPLOT Constructs a geochemical symbol map on the printer at any scale.
4. PROFILE Plots geochemical values against distance for one or more variables.
5. FACTOR Determines the principal relationships between variables and calculates factor scores, (R-mode analysis).
6. MULREG Determines a functional relationship between dependent and independent variables. (Stepwise multiple regression)
7. DISCRIM Calculates a function that will discriminate between different groups of samples on the basis of a weighted combination of variables, (Discriminant analysis) and calculates discriminant scores.

All programs within MICROGAS except for MERGES, MERGEV, SORT and UNCRUNCH, allow for data management in the form of transformations and/or selections. Up to 25 transformations are allowed in any program except CRUNCH, which

allows 200. The types of transformations used are simple arithmetic statements; more complex calculations can be performed by a series of simple, sequential arithmetic statements.

Up to 15 selection criteria can be made within any one program. These criteria must be met for a sample to be included in the ensuing analysis. For further information on MICROGAS, a summary is given by O. P. Lavin and I. Nichol (1981).

10. METHODOLOGY

Since a variety of companies had collected stream geochemical data within the Rocky Cape EL over the past 15 - 20 years, the variability between data files was originally thought to be considerable owing to the following factors:

- a. Variability in collection of the sample.
- b. Size fraction analysed.
- c. Analytical method.
- d. Errors in analytical technique, and the effects of improvement in technique since 1965.
- e. Detection limits.

With regard to variability in collection of sample, little can be done to quantify this possible error. One must assume that the samples collected have been selected with care and taken from suitable trap sites. On this assumption the data could be reasonably interpreted. Size fraction could obviously lead to great problems but in all cases, the -80# or -85# fractions were analysed.

Analytical methods appear to be constant, i.e. AAS for base metals, XRF for Sn, W and cold extraction for CxCu. However, since companies tend to use different laboratories, this could result in serious incompatibility. Similar problems arise from advances made in analytical techniques. To overcome this, the statistics of each element within a data file were manually compared with the remaining files, taking into account contamination and "geochemically more active" rock types, to determine whether a "fudge factor" was required to grossly transform parts of the data. On the whole it was considered that these errors were not sufficient to prevent a reasonable statistical interpretation of the whole data set. Details of these statistics are set out in Appendix 111.

Individual files were then merged using the program MERGES (since data files contain the same analytical variables) to produce a single file labelled NWTASSS (N.W. Tasmania, stream sediments) which contained the most common analytical variables. NWTASSS was processed using DSTATS to determine population cut offs.

It should be mentioned here that in classical statistics, any data set should conform to a normal distribution for meaningful statistical interpretation.

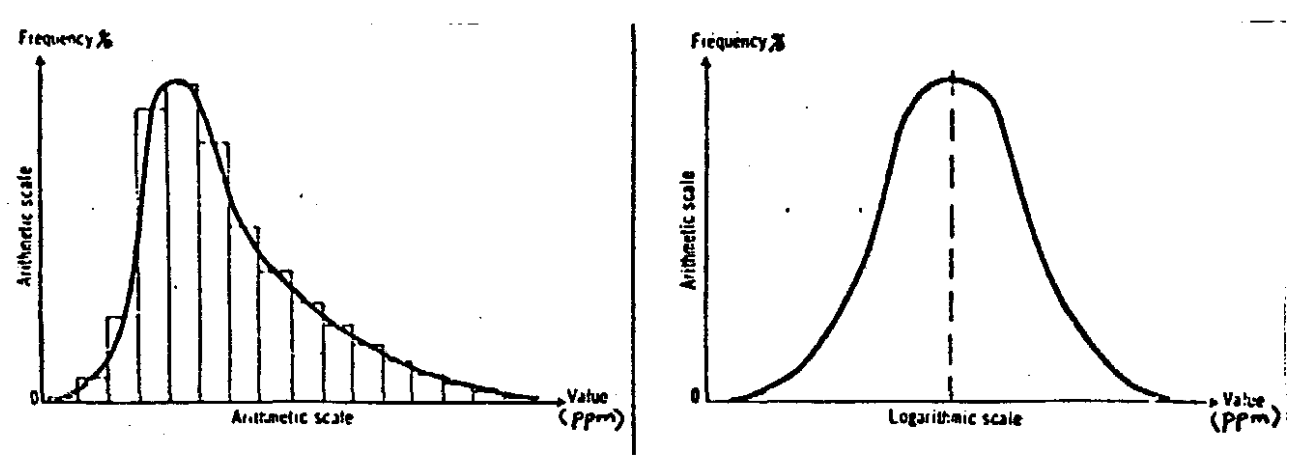


Figure 3. Idealised frequency distribution diagrams.

Since geochemical data does not directly approach a normal distribution, logarithmic transformations were necessary in order to manipulate the data so that it approached some degree of "normalcy". In the whole of this study, the classical methods of using mean + 2 standard deviations for defining the upper 2½% of a population were not used for the following

reasons, although in most instances, the mean + 2SD was used as a check on "eye-ball" cut points.

- a. Geochemical data does not conform to a single population, where mean + 2SD would work reasonably well.
- b. The mean was too subject to bias from the higher populations (if present) and could result in a shift of 10-15 ppm or greater, depending on the element treated.
- c. The mean is insensitive to overlap of populations. In all cases the frequency distribution histograms were "eye-balled" and "cut points" defined for each population within the areas of lowest frequency.

The division of populations into background possibly anomalous/anomalous categories is naturally dependent upon geological factors such as rock type, environment, contamination and average crustal abundance and is therefore a manual component of the interpretation.

Having selected the most suitable cut points, file NWTASSS was recycled through the MAPLOT routine to produce geochemical symbol maps of each element at a scale of 1: 100 000. The various symbols represent the populations as defined in DSTATS. These maps were coloured to ease population identification and manually interpreted. Samples not plotted by the computer owing to coincidence of locations are listed in Appendix IV. The more significant samples were later manually plotted.

11. STATISTICS FOR FILE NWTASSS

Brief mention of the distribution and statistics for each element will be given here. Selection of histogram intervals was narrowed down to 0.1 and 0.05 log units by a process of trial and error. Any interval less than 0.05 log units tended to create a wide distribution interpreted as analytical reading errors rather than natural distribution.

025
11.1 Lead

Lead was considered the most important element within this study for two reasons:

- (a) Lead and zinc are the most suitable indicators in Canada for the discovery of Selwyn Basin type deposits.
- (b) Within the Tasmanian geochemical environment lead was considered to be the most insoluble element and therefore the most likely to give an identifiable dispersion train within a drainage system.

Two sets of histograms were produced, one treating the whole data, the other based on a selected portion of the data between 0-100 ppm to examine its distribution more closely as lead values greater than 100 ppm were considered to be greatly anomalous.

11.1.1. Total Distribution (Fig.4)

Four significant populations are defined by the histogram under 2.1 log units (125.9 ppm) which account for over 2/3 of the samples analysed. A significant tailing off of values is apparent above 2.1 log units (125 ppm). Population cut offs have been defined as follows:

0.9, 1.3, 1.55, 2.1, 3.1, log units

Mean = 0.93

Standard deviation = 0.55

Mean + 1 SD = 1.48

Mean + 2 SD = 2.03

11.1.2 Lead Distribution with Selections of 0-100 ppm (Fig.5)

Values of lead between 0 and 2.0 log units were selected. In this case, 6 cut offs were proposed as follows:

0.5, 0.8, 1.25, 1.6, 1.85, 2.0 log units.

Mean = 0.86

Standard deviation = 0.45

Mean + 1 SD = 1.31

Mean + 2 SD = 1.76

This set of statistics was considered to be more accurate and was used for later interpretation in preference to those outlined to section 11.1.1.

11.2 Zinc (Fig.6)

The zinc distribution is quite complex under 2.7 log units (500 ppm) and could be interpreted either as one single population or as four overlapping ones. The latter interpretation is preferred. Although several extra populations could be defined below 1.55 log units (35 ppm), these were considered to be insignificant.

Population cut offs were selected as follows:

1.55, 1.75, 2.1, 2.7 log units.

Mean = 1.46

Standard Deviation = 0.61

Mean + 1SD = 2.07

Mean + 2SD = 2.68

11.3 Copper (Fig.7)

Copper exhibits a relatively simple distribution with six populations evident at the following cut offs:

0.5, 0.95, 1.25, 1.60, 2.05 log units.

Mean = 0.95

Standard Deviation = 0.45

Mean + 1SD = 1.40

Mean + 2SD = 1.85

11.4 Nickel (Fig.8)

Nickel is quite complex with a number of overlapping populations between 1.0 and 2.5 log units (10 - 316 ppm) at a histogram interval of 0.1 log units. Selections were based on an interval of 0.05 log units.

Population selections were made as follows:

1.2, 1.55, 1.75, 2.0, 2.35, 2.8 log units.

Although 2 well defined populations exist below 1.0 log units, these were considered too low to be of significance and probably fall into the areas of detection limit.

Mean = 1.13

Standard Deviation = 0.61

Mean + 1SD = 1.74

Mean + 2SD = 2.35

11.5 Cobalt (Fig. 9)

Cobalt exhibits a simple distribution with population cut points selected as follows:

0.9, 1.25, 1.6, 1.8, 2.1, 2.6 log units.

Mean = 0.85

Standard Deviation = 0.51

Mean + 1SD = 1.36

Mean + 2SD = 1.87

11.6 Arsenic (Fig.10)

Arsenic has a poorly defined distribution between 1.3 and 2.6 log units (20 - 400 ppm) and is very difficult to subdivide. Since over 2/3 of the data fall under 0.8 log units (6.3 ppm) one can only assume that this represents a single population.

Cut offs have been defined as follows:

0.8, 1.20, 2.6, 3.1 log units.

Mean = 0.55

Standard Deviation = 0.37

Mean + 1SD = 0.92

Mean + 2SD = 1.29

11.7 Molybdenum (Fig.11)

Molybdenum shows a wide distribution with the majority of samples below 0.2 log units (1.6 ppm). Population cut offs have been selected as follows:

0.25, 0.55, 0.85, 1.25, 1.55.

Mean = 0.21

Standard Deviation = 0.21

Mean + 1SD = 0.42

Mean + 2SD = 0.63

11.8 Tin (Fig.12)

Tin has a wide distribution with no well defined population breaks between 1.2 - 2.5 log units. This can be interpreted as either a single population or one composed of many smaller populations. The latter interpretation is preferred and cut offs are as follows:

0.7, 1.2, 1.72, 2.3, 2.7 log units.

Mean = 0.98

Standard Deviation = 0.86

Mean + 1SD = 1.84

Mean + 2SD = 2.70

11.9 CxCu (Fig.13)

Cold extraction copper exhibits a wide distribution with poorly defined populations between 0.6 - 2.0 log units. Cut points between

populations have been defined as follows:

0.1, 0.5, 0.8, 1.2 log units.

Mean = 0.18

Standard Deviation = 0.30

Mean + 1SD = 0.48

Mean + 2SD = 0.78

11.10 Copper/Nickel Ratio (Fig.14)

This variable was chosen to try to distinguish basic rocks from the remainder and was obtained by simple transformation of the data. A reasonable distribution was obtained and cut offs selected as follows:

3.0, 5.0, 8.5, 14.0, 20.5, 30.0 log units.

Mean = 1.41

Standard Deviation = 2.56

Mean + 1SD = 3.86

Mean + 2SD = 6.31

11.11 Free Copper, FCU (Fig.15)

Free copper was calculated by the formula -

$$FCU = \frac{CxCu + Cu}{Cu}$$

- to enhance any copper anomalies. It reflects the amount of copper absorbed on to clay particles rather than copper held in mineral lattices.

Cut points were chosen at the following intervals:

1.4, 1.7, 2.1 log units.

Mean = 1.24

Standard Deviation = 0.23

Mean + 1SD = 1.47

Mean + 2SD = 1.70

030

12. MAPLOT

File NWTASSS was recycled through the MAPLOT routine using the cut points specified in section 8 to produce geochemical symbol maps at a scale of 1:100 000. Plotting errors are in the order of 423m height and 250 metres width. Significant samples not plotted owing to coincident locations were manually plotted. The maps were coloured in for ease of anomaly identification and interpretation. The categorisation of the cut point groupings were based on the average crustal abundance for a particular element and the geological information related to it.

Anomalous, possibly anomalous and high background categories have been chosen as follows:

		<u>Log Units</u>	<u>ppm</u>
Lead (with selections)	HBG	0. 8 - 1.25	6.3 - 17.8
	P.A.	1.25 - 1.60	17.8 - 39.8
	A	>1.60	>39.8
Zinc	HBG	1.75 - 2. 1	56 - 125
	P.A.	2. 1 - 2. 7	125 - 501
	A	>2.7	>501
Copper	HBG	1.25 - 1. 6	17.8 - 39.8
	P.A.	1. 6 - 2.05	39.8 - 125
		>2.05	>112
Nickel	HBG	1.75 - 2. 0	65 - 100
	P.A.	2. 0 - 2.35	100 - 223
	A	>2.35	>223
Cobalt	HBG	1.25 - 1. 6	17.7 - 39.8
	P.A.	1. 6 - 2. 1	39.8 - 125
	A	>2.1	>125
Arsenic	HBG	0. 8 - 1. 2	6. 3 - 15.8
	P.A.	1. 2 - 2. 6	15.8 - 398
		>2.6	>398

Molybdenum	HBG	0.55 - 0.85	3.5 - 7.1
	P.A	0.85 - 1.25	7.1 - 17.8
	A	>1.25	>17.8
Tin	HBG	1.2 - 1.72	15.8 - 52.5
	P.A	1.72 - 2.30	52.5 - 199.5
	A	>2.3	>199.5
CxCu	HBG	0.5 - 0.8	3.2 - 6.3
	P.A	0.8 - 1.2	6.3 - 15.8
	A	>1.2	>15.8
Lead (no selections)	HBG	1.0 - 1.3	10 - 20
	P.A	1.3 - 1.55	20 - 35.4
	A	>1.55	>35.4

Ratio

Cu/Ni	HBG	3.0 - 8.5
	P.A	8.5 - 14.0
	A	>14.0
FCU	HBG	1.4 - 1.7
	P.A	1.7 - 2.1
	A	>2.1

HBG = High Background
P.A = Possibly Anomalous
A = Anomalous

13. STATISTICS FOR INDIVIDUAL ROCK FORMATION UNITS

Statistical information for rock formation units based on the 1:250 000 geological maps produced by the Tasmanian Mines Department, was obtained by cycling file NWTASSS through the DSTATS routine and selecting portions of the data using the variable FORMGEOL. The objectives of this form of

interpretation are as follows:

- (a) To obtain threshold values for each rock formation thereby accounting for the inherent geochemical composition of a specific rock unit and thus giving a more accurate threshold value.
- (b) To examine the effects of "masking" of one rock type upon another.
- (c) To check the validity of treating the data as a whole.

The rock unit having the greatest areal extent within the Rocky Cape EL's is a group of Precambrian unmetamorphosed, undifferentiated sediments composed mainly of mudstones and orthoquartzites. This unit was used as a standard to which the statistical parameters of all other rock units were compared. The general comparison between data sets is reasonably good though some significant differences occur in the distribution of copper, nickel and cobalt with regard to the more basic rock types, and tin for all rock types.

A full statistical summary is outlined in Appendix III.

13.1 Average Statistics Using Formgeol

13.1.1. Lead

A reasonably good comparison of lead distribution between the various rock types was obtained. The average values are as follows:

Anomalous	> 35 ppm
Possibly Anomalous	20-35 ppm
High background	10-20 ppm

The main exceptions are for Precambrian Orthoquartzites Ordovician limestones and Permo-Carboniferous rocks where anomalous values are 2-4 times greater than the average.

Greater compatibility is achieved at the high background and possibly anomalous levels indicating a wide distribution of data with a concentration of values at the lower levels.

13.1.2. Zinc

Zinc distribution is similar between all rock types with the anomalous threshold set at approximately 300 ppm. Average values are as follows:

Anomalous	>300 ppm
Possibly Anomalous	100-300 ppm
High background	50-100 ppm

The exceptions are Cambrian greywackes, volcanics and the Devonian granites. Some degree of mixing can be interpreted between the greywackes and the volcanics as they have a close spatial relationship in outcrop and creeks drain both rock types. Higher threshold values within the granites can be attributed to a higher mobility of zinc in the primary environment.

13.1.3. Copper

The average threshold values are:

Anomalous	> 65 ppm
Possibly Anomalous	30-65 ppm
High background	15-30 ppm

The major exceptions are the Cambrian volcanics, greywackes and the Precambrian greywackes. The basaltic composition of the volcanics would account for the increase in copper content of the Cambrian greywackes.

034

13.1.4. Nickel

Average threshold values are:

Anomalous > 125 ppm

Possibly anomalous 40-125 ppm

Higher cut offs can be invoked for units containing basic rock types. The Cambrian volcanics have a single population above 31 ppm and population breaks are undefineable. The Cambrian greywackes and the Permo-Carboniferous units both have higher threshold values which can be attributed to close spatial relationships with basic volcanics and Tertiary basalts.

13.1.5. Cobalt

The cobalt distribution is very similar to nickel in that higher thresholds can be invoked for the more basic rock types.

Average values are:

Anomalous > 50 ppm

Possibly anomalous 30-50 ppm

High background 10-30 ppm

13.1.6. Arsenic

A relatively simple distribution of arsenic through the major rock formations is present. Average values are:

Anomalous > 25 ppm

Possibly anomalous 10-25 ppm

The exceptions are the Precambrian greywackes and the Pre-Cambrian undifferentiated meta-sediments where the anomalous threshold value has been set at 50 ppm. The constancy of distribution suggests that there may be some degree of error within analytical technique.

13.1.7. Tin

Tin shows a very complex distribution and a very wide variety of threshold values were obtained. The wide distribution implies there is a number of tin provenances since average crustal abundances of tin are very low, less than 10 ppm. The Devonian granites are already proven as tin bearing and it is generally accepted that the Tertiary sediments along the west coast of Tasmania contain tin. Threshold values for rock types away from the influence of the granites and Tertiary sediments appear to be more relativistic.

The tin data is virtually un-interpretable except for indicating that the highest values might be anomalous.

13.2 Comments

The treatment of individual rock formations has outlined threshold values for each rock type and has indicated the considerable effect of "geochemically active rock-types" upon the geochemical background of any specific unit. The most noteworthy elements are copper, nickel and cobalt within basic rock types and tin in the Devonian granites and the Tertiary gravels. It is considered that the cut points selected during treatment of the data file as a whole are low enough to overcome the effects of masking whilst highlighting the care required in interpretation.

14. INTERPRETATION

Geochemical anomalies were rated on the following basis:

(a) Size of anomaly -

Whether samples have been categorised into anomalous, possibly anomalous or high background groups. Anomalous and possibly anomalous categories definitely warrant explanation. The high background category is of a low priority and may warrant follow up depending on other factors.

(b) Multiplicity of elements.

(c) Coherence of anomaly -

Whether the anomaly can be traced downstream or if it is reflected by two or more samples within the same catchment area.

(d) Geological setting.

(e) Sample density -

Obviously a single spot anomaly is of greater significance in an area of low sample density than in one of high density.

(f) Contamination.

(g) Coincidence with magnetic and/or INPUT anomalies.

(h) Greater significance was given to lead anomalies within any drainage system.

14.1 Contamination

The major source of contamination is apparent in the Arthur River which drains the Magnet and Mt. Bischoff mines. High values for all elements especially copper, lead and zinc are recorded along the entire length of the river and in many instances at its junction with tributaries where samples have been collected within its alluvial flood plain.

Contamination along the Pieman River is more difficult to assess. The source would be from the Renison Bell mine and from small workings situated to the N.W. of Zeehan. Low metal concentrations occur along the Pieman River, and it is uncertain whether they are locally derived or caused by contamination.

14.2 Major Anomalies

These are the most extensive, regionally anomalous areas that have been delineated by the study.

037
14.2.1. Trowutta District

A north easterly trending anomalous zone, approximately 25 km in length and 7 km in width is centred around Trowutta. Values within this area vary from high background to anomalous for copper, lead, zinc, cobalt, cold extraction copper, molybdenum and nickel. A comparison with the regional geological map indicated that this zone corresponds to the outcrop of Cambrian basic volcanics and Cambrian siltstone-greywacke sequence within the Smithton trough.

*are
problem?* { The basic volcanics may be the causative rock type but consideration of the surrounding geology which includes the Smithton dolomite and black pyritic shales probably of the Balfour group indicates similarities with the geology of the Selwyn Basin.

The aeromagnetic data of this area shows a strong linear zone of complex magnetic responses overlying the area of Cambrian volcanics whilst a number of INPUT anomalies occur on the south-eastern margin of the geochemically anomalous zone.

This area is of prime importance in exploration for Selwyn Basin type deposits.

14.2.2. Granville Harbour

All three categories of sample type occur in an area extending north from Granville Harbour to Duck Creek, a distance of 5 km. The most interesting feature of this anomaly is the existence of a central core of anomalous copper, cold extraction copper, nickel, cobalt, high background lead surrounded by a halo of anomalous zinc which may indicate a mineral zonation. Tin is anomalous to the north of Granville Harbour but may be a product of either the Heemskirk granite or tin contained in Tertiary sediments.

038

The geology of this area indicates the possibility of mineralisation developed along the northern margin of the Heemskirk granite since these anomalies occur along strike from the St.Dizier tin mine. Copper mineralisation is recorded in the vicinity of Gourlays Creek but it is doubtful whether this is the single source. Tertiary basalt has been mapped in this area but some of the anomalies occur in creeks not directly draining the basalt. Intense aeromagnetic anomalies are present in parts of this area.

The implications are two fold:

- (a) Mineralisation is more extensive than just at the granite margin.
- (b) The northernmost apophysis of the Heemskirk granite is more extensive than is mapped at present. Similarly, the extent of basalt cover may not be as great with the possibility of erosional "windows" developed.

This area shows high potential for possibly skarn type mineralisation and also for other base metal environments.

14.2.3. Pieman Heads Area

The margin of the Pieman granite has been referred to by Prof.Carey as being a suitable target for Sn, W skarn mineralisation since he correlates the Delville chert with carbonates observed on King Island. The present study appears to confirm this interpretation.

A number of zinc, lead, copper and minor cobalt anomalies occur in creeks draining the northern contact of the granite. Anomalous copper is apparent along the eastern margin whilst high background values of zinc, copper and lead are recorded in creeks draining into Ahrberg Bay.

039

Anomalous tin is ubiquitous in this area. Two aeromagnetic anomalies occur in the vicinity of the granite margin which enhances the potential of the area.

Of equal interest in this area is the presence of anomalous lead and zinc values recorded in the middle and upper reaches of the Violet Rivulet and creeks to the north. Paralleling these anomalies to the south east, is a NE trend of INPUT anomalies outlined by ESSO Australia. The geochemical and geophysical anomalies lie to the northwest of rocks contained within the Arthur lineament which includes the Delville chert, generally regarded as equivalent to the Smithton dolomite, and a sequence of Precambrian quartzites and mudstones. It is apparent from initial observations that this area could be of significant potential for Selwyn Basin type lead and zinc mineralisation and is therefore of high priority.

14.2.4. Corinna Area

The Corinna area of anomalies extends from Mt. Donaldson south eastwards to the Pieman River damsite, a distance of approximately 12 km. Several anomalous copper and cold extraction copper values occur in the Whyte River area near the eastern boundary of the lease. Anomalous lead, arsenic, and copper anomalies occur in Corinna Creek whilst lead, copper and cold extraction copper are anomalous in Delville Creek.

In the high background category, the area becomes alive with indications of mainly copper, cold extraction copper with associated zinc, nickel, lead and *minor* cobalt.

The majority of the sampling has been limited to the Pieman River and the junctions of its tributaries. No sampling has been undertaken, for example, within the headwaters of Newdegate Creek. The apparent trend of anomalies is to the NNW which is contrary to the regional NE strike though this may be an effect of lack of samples.

040
Examination of the geological map indicates that a number of NE trending units of amphibolite crop out in the vicinity of Corinna itself and may explain the copper anomalies observed in the Whyte River. Less extensive amphibolite bodies occur in the Pieman River in the vicinity of Hades Ridge, which may also account for the copper, nickel, zinc anomalies obtained. In the vicinity of the Pieman damsite, a number of copper, Cu/Ni and minor zinc anomalies occur within Precambrian undifferentiated meta sediments. These anomalies occur just outside EL 1/77 but the creeks concerned have their sources within the licence area. Since these anomalies have high Cu/Ni ratios, the copper values may relate to mineralisation not associated with basic rocks and therefore warrant an explanation.

The aeromagnetic picture in the Corinna area is very complex. A zone of high magnetic intensity strikes NE through Lefroy Ridge whilst a second intense magnetic zone trends through Hades Ridge. Both correspond with the outcrop of basic rocks. It is noted that the abovementioned Cu/Ni anomalies do not appear to be related to these areas of high magnetic intensity.

The Cu/Ni anomalies definitely warrant an explanation whilst the remainder in the area deserve limited follow up to confirm their origin.

14.3 Minor Anomalies

These anomalies can be classified as being suitable for follow up unless otherwise stated. They contain element values ranging from high background through to anomalous but tend to be more restricted in size.

The following areas are classed as anomalous to possibly anomalous -

14.3.1. Nelson Bay River

A cluster of five anomalous lead values occur in the middle reaches of this river and are overlain by a significant aeromagnetic anomaly. The regional geology indicates a monotonous sequence of Precambrian unmetamorphosed sediments and old iron workings are recorded in this area. Recent investigations by GEOPEKO in joint venture with CRAE indicate a number of narrow 10-20m wide cross-cutting, steeply dipping, magnetite lodes within a sequence of psammo-pelitic siltstones. Maximum rock chip assays indicate 105 ppm lead, 475 ppm copper, 130 ppm zinc, and 170 ppm arsenic from various points along the Nelson River lode. Pickands Mather drilled one hole into this body and maximum lead values were 260 ppm on recent re-evaluation of this drill core. No further work is warranted on these geochemical anomalies.

14.3.2. Frankland River

Anomalous molybdenum values (>7 ppm) occur over a 12 km dispersion train downstream from Balfour in the Frankland River and have no apparent source such as granite. Black pyritic shales crop out in this vicinity but it is uncertain whether they are causative. Recent re-sampling of anomalous molybdenum values from the Stephens Rivulet are much lower (maximum 1.5 ppm) which suggests that molybdenum assays conducted in the mid 1960's are likely to be spurious. These anomalies warrant explanation.

14.3.3. Horton River

Four anomalous copper, cobalt values are located between the junction of Lagunta Creek and the Horton River and the junction of the Horton and Lindsay Rivers. The regional geological map indicates their derivation from a sequence of Cambrian grey-wackes. The geochemical anomalies coincide with a magnetic low, though zones of high magnetic intensity are located 2-3 km to the north. Field checking is required.

042

14.3.4. Leigh River

Single spot Sn, Cu/Ni and copper anomalies occur near the junction of the Leigh and Lindsay Rivers. The anomalies are located on the NW margin of the Leigh River aeromagnetic anomaly and may be of significance. Recent field investigations have shown that the aeromagnetic anomaly is caused by basalt of high magnetic susceptibility and that these anomalies have not been repeated. No further work is necessary.

14.3.5. Lovells Creek

A single spot anomalous tin value occurs within Smithton dolomite and Cambrian greywackes. Recent investigations reveal previously unmapped Tertiary gravels in this area and these are probably causative. Re-sampling in this vicinity has returned maximum tin values of 53 ppm. No further work is required here.

x 14.3.6. Thornton River

Two anomalous localities occur in this river.

- (a) Lower reaches, at the junction of the Thornton and McLeod Rivers. Combined lead, arsenic and Cu/Ni anomalies.
- (b) Upper reaches of the Thornton and McLeod Rivers. Arsenic and cold extraction copper are the two anomalous elements.

Both sets of anomalies occur within Precambrian unmetamorphosed sediments. Both rivers have been sampled reasonably intensely and the anomalies may reflect analytical errors. However, re-sampling and an explanation is warranted.

x 14.3.7. Daisy Creek

A single spot anomalous zinc value occurs within Precambrian unmetamorphosed sediment. Limited field checking is required.

043

14.3.8. N. Pedder River

A single spot lead anomaly is located in the headwaters of the N. Pedder River. This creek drains the western slopes of West Bluff and Mt. Lily which is an area of known lead-silver vein mineralisation. This anomaly may be draining some of the old workings but field checking and examination of these vein systems is warranted.

14.3.9. Eighty Creek (South)

A single spot lead anomaly lies in an unnamed creek to the southwest of Eighty Creek. It lies in Precambrian unmetamorphosed sediments and is inexplicable. It may drain the on-strike continuation of the Poseidon lead-silver workings but definitely warrants follow up.

Poseidon
Pb-Ag or
Cu?

14.3.10. Toner River

Several anomalous molybdenum, lead, arsenic, cold extraction copper and free copper anomalies reflect the Toner River (Copper Reward) workings. L.K. Ward reports only the presence of copper-bearing minerals in the workings on either side of the river. Rock chips taken in the vicinity indicate high copper values up to a maximum 12.2% copper, 30 ppm lead. Mt. Lyell concluded that these workings were too small to be of economic importance but the presence of a lead geochemical anomaly indicates that further work is warranted.

14.3.11. Chimney Creek

Two anomalous lead values occur in a first order stream within Precambrian mudstones bordered by quartzites. Anomalous Cu/Ni and cold extraction copper values occur further upstream. There are no known lead workings in this immediate vicinity and an explanation is warranted.

044

14.3.12. Rocky Cape

Two twin spot anomalies exist on either side of the southern margin of the Interview Pinnacles EL. There are known lead - silver veins of varying strike directions in the Interview River, but these do not appear to have a strike continuation to the south. These anomalies warrant field checking. Three single spot tin anomalies occur in this area and are related to both the Interview granite and the Precambrian sediments. One of the anomalies drains an area of Tertiary sediments whilst the other two appear to drain known tungsten occurrences of the Interview mining field. The tin anomalies have an adequate explanation.

14.3.13. Ford Creek

Most of the lower and central reaches of Ford Creek show anomalous tin values but appear to be erratic. The creek drains areas of Tertiary gravels which are considered to contain detrital tin. No further work is required.

14.3.14. Destination Creek

A single spot lead, copper, Cu/Ni anomaly is recorded within a sequence of Precambrian mudstones. The creek drains a small magnetic high and definitely warrants an explanation. Dolerite dykes have been mapped to the west but none are recorded in this vicinity.

14.3.15. George Town Packet Creek

Several zinc and free copper anomalies together with tin and cobalt exist in this creek. The creek directly drains outcrops of Tertiary basalt and can be regarded as of a low priority.

14.3.16. Hoyle Creek

A single spot copper, lead and zinc anomaly exists in the upper reaches of this creek which drains areas of Tertiary gravels and Precambrian undifferentiated meta-sediments. The anomalies lie towards the SW end of the zone of high magnetic intensity corresponding to the Arthur lineament.

14.3.17. Rupert Point

Significant tin anomalies occur over a strike length of 4 km. in streams draining the western margin of the Interview granite. Minor Tertiary gravels crop out to the east and high background levels of tin may be causative. A significant aeromagnetic high overlies these anomalies and there is potential for skarn type mineralisation development at the granite margin. Substantial investigations have been undertaken by the ACI syndicate but their results appear to be inconclusive. Further work is justified at this prospect in the form of reconnaissance ground magnetics, soil and rock chip sampling as well as a thorough review of the ACI data.

14.4 High Background Samples

The majority of high background samples support those areas outlined in sections 14.2 and 14.3. These are of low priority and may warrant limited follow up since they could conceivably represent regional trends.

14.4.1. Nelsons Bay River

The upper reaches of this river contain a number of lead values which appear to drain an area west of the Clump copper prospect.

14.4.2. Norfolk Ranges

High background lead and free copper values are recorded in creeks draining the western slopes of the Norfolk Ranges. These samples were collected outside the confines of EL 1/77. These values may reflect weak lead mineralisation within the Norfolk Ranges or alternatively could be a product of recent sediments deposited along the coastal plain during its formation.

14.4.3. Lindsay River and Whitehead Rivers

A number of weak free copper anomalies occur along the length of these rivers but it is uncertain what they represent. It is possible that they represent weak copper mineralisation but they are more likely to be a background feature related to the coastal peneplain.

14.4.4. Thornton River

The headwaters of this river contain mainly copper values with associated zinc, arsenic, nickel and Cu/Ni. The river drains the Mt. Balfour area and may reflect weak vein type mineralisation.

14.4.5. Pieman Heads and Interview Granites

Numerous high background tin and lead values occur along the coastal plain corresponding to the outcrop of the Devonian granites. These values probably reflect the influence of the Tertiary sediments as well as high backgrounds within the granites.

14.4.6. Rocky Creek and Interview River

Weak lead values are recorded within both creeks. Those observed in Rocky Creek may drain the westernmost of the Interview aeromagnetic anomalies whilst those in the Interview River are probably associated with the Interview East mining field.

15. DISCUSSION

The anomalies outlined in the preceeding sections appear to be fairly reasonable. Assay values of molybdenum especially and possibly arsenic may be suspect owing to poor analytical methods employed in the mid 1960's. Free copper ratios appear to be somewhat spurious as in many instances there is much more cold extractable copper than total copper. Population cut offs may be slightly low in comparison with those obtained for each rock type. However, the need to "explore" the area is great due to impending Mines Department regulations and therefore areas of high background values are of significance if that ground can be readily relinquished after initial exploration.

this gives an incomplete listing
of data sources :- see p.3-4
of appendix V

16. REFERENCES

1. D.H.Bell 1972 Annual Report, EL 48/70 and EL 49/70 N.W.Tasmania, Unpub. Report ACI Syndicate.
2. G.M.Bainbridge 1967 Regional stream geochemical survey EL 12/65. Unpub. Report. Pickands Mather International.
3. S.W.Carey 1981 Notes to accompany the photo interpretation of the country between the Arthur and Pieman Rivers, Tasmania. CRAE Internal Memo, Burnie Office.
4. R.C.Carne and R.J.Cathro 1982 Sedimentary exhalative (SEDEX) Zn-Pb-Ag deposits, Northern Canadian Cordillera. CIM Bulletin Vol. 75 No. 840.
5. J.C.Davis 1973 Statistics and data analysis in geology Pub. John Wiley and Sons.
6. T.W.Dickson 1980 Geological setting and genesis of Selwyn Basin and Coeur d'Alene Pb-Zn-Ag deposits. Unpublished Report CRAE No. 10506.
7. M.J.Hutton 1981 Progress Report EL 27/78, Donaldson area. Unpublished Report, Mount Lyell Mining and Railway Co.
8. O.P.Lavin and I.Nichol 1981 Q'Gas: a minicomputer-based system to aid in the interpretation of exploration-oriented geochemical data. Journal Geochem Expl. Vol.15 No.1-3 pp 521 - 539.
9. P.J.Legge & Associates 1980 The lead zinc potential of the younger Precambrian rocks of North West Tasmania. Unpub. Report CRAE No.10235
10. P.J.Legge & Associates 1981 Further lead-zinc data preliminary field reconnaissance of the Rocky Cape group N.Tasmania. Unpub. Report CRAE No.10534.

11. A.A.Levinson 1974 Introduction to Exploration geochemistry
2nd Edition. Applied Publishing Ltd.
12. R.C.Neale 1974 Completion report, Exploration Licence
2/73, Pieman River, Tasmania.
Unpublished Report, ESSO Australia.
13. T.M.Porter 1972 The Arthur River Pb-Zn-Cu anomalies,
a geochemical case history. Unpublished
Report CRAE No. 3787.
14. T.M.Porter 1977 Northwest Tasmanian tin project, progress
report. Unpublished report CRAE No.9031.
15. M.Solomon 1981 An introduction to the geology and
metallic ore deposits of Tasmania.
Econ. Geol. Vol 76 pp 194 - 208.
16. A.Spry and M.R. Banks
 (Editors) 1962 The Geology of Tasmania. Journal Geol.
Soc. Aust. Vol. 9.
17. L.K.Ward 1911 The Mt.Balfour Mining Field Geol. Surv.
Bull. No.10. Tas. Dept. Mines.

17. KEYWORDS

Geochem-drainage, stream sediments, computer, statistical methods,
regional geology, regional geophysics, shale hosted lead-zinc.

18. LOCATION

Burnie SK 55-3, Queenstown SK 55-5

19. LIST OF PLANSVOL 2Scale

TASH	21	✓	Structural interpretation of N.W.Tasmania	1:500 000
TASH	062	✓	Compilation of Geophysical data and Geochemical anomalies N.Sheet	1:100 000
TASH	063	✓	Compilation of Geophysical data and Geochemical anomalies S.Sheet	1: 100 000
TASH	064	✓	Geochemical targets warranting exploration.	1: 100 000
TASH	776	✓	Regional Stream Geochemistry. Lead (N.Sheet)	1: 100 000
TASH	777	✓	" " " Lead (S.Sheet)	1: 100 000
TASH	778	✓	" " " Arsenic (N.Sheet)	1: 100 000
TASH	779	✓	" " " Arsenic (S.Sheet)	1: 100 000
TASH	780	✓	" " " Tin (N.Sheet)	1: 100 000
TASH	781	✓	" " " Tin (S.Sheet)	1: 100 000
TASH	782	✓	" " " Nickel (N.Sheet)	1: 100 000
TASH	783	✓	" " " Nickel (S.Sheet)	1: 100 000
TASH	784	✓	" " " Molybdenum (N.Sheet)	1: 100 000
TASH	785	✓	" " " Molybdenum (S.Sheet)	1: 100 000
<u>VOL 3</u> TASH	786	✓	" " " Cobalt (N.Sheet)	1: 100 000
TASH	787	✓	" " " Cobalt (S.Sheet)	1: 100 000
TASH	788	✓	" " " Copper (N.Sheet)	1: 100 000
TASH	789	✓	" " " Copper (S.Sheet)	1: 100 000
TASH	790	✓	" " " Zinc (N.Sheet)	1: 100 000
TASH	791	✓	" " " Zinc (S.Sheet)	1: 100 000
TASH	792	✓	" Lead with selections (N.Sheet)	1: 100 000
TASH	793	✓	" Lead with selections (S.Sheet)	1: 100 000
TASH	794	✓	" Copper/Nickel (N.Sheet)	1: 100 000
TASH	795	✓	" Copper/Nickel (S.Sheet)	1: 100 000
TASH	796	✓	" Cold Extractable Copper (N.Sheet)	1: 100 000
TASH	797	✓	" Cold Extractable Copper (S.Sheet)	1: 100 000
TASH	798	✓	" Free Copper (N.Sheet)	1: 100 000
TASH	799	✓	" Free Copper (S.Sheet)	1: 100 000

20. LIST OF APPENDICES

- Appendix I Summary Statistics for Individual Company's Data Files
- Appendix II DSTATS for File NWTASSS
- Appendix III Summary Statistics for Rock Types
- Appendix IV List of Sample Locations Not Plotted Because of
Coincidental Locations
- Appendix V Listing of File NWTASSS

APPENDIX I

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

053

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: LEAD

COMPANY	$\log \bar{x}$	$\log \bar{x} + 1SD$	$\log \bar{x} + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	0.88	1.44	2.00	< 22		22 - 112.2	>112
ACI	NOT ANALYSED						
CRAE EL 1/77	0.73	1.04	1.35	< 8.0	8.0 - 31.6	> 31.6	
Mt. Lyell EL 27/78	1.09	1.40	1.71	< 20	20 - 31.6	> 31.6	
CRAE Arthur River	1.47	2.20	2.93	< 22	22 - 39.8	39.8 - 100	> 100

739054

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: COBALT

COMPANY	$\log \Sigma$	$\log \Sigma + 1SD$	$\log \Sigma + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
ickands Mather L 12/65	0.83	1.34	1.85	< 18.5	18.5 - 70.7	70.7 - 112	> 112
ICI	NOT ANALYSED						
DRAE EL 1/77	NOT ANALYSED						
Mt. Lyell EL 27/78	0.85	1.36	1.87	< 10		> 10	
DRAE Arthur River	1.01	1.37	1.73	< 10	10 - 17.8	17.8 - 32.1	> 32.1

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: COPPER

COMPANY	$\log \bar{x}$	$\log \bar{x} + 1SD$	$\log \bar{x} + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	0.97	1.46	1.95		5.6 - 20	20 - 63	> 63
ACI	1.07	1.36	1.65	< 17.5	17.5 - 30	30 - 132	> 132
CRAE EL 1/77	0.48	1.00	1.52	< 10	10 - 45	> 45	
Mt.Lyell EL 27/78	1.17	1.60	2.03	< 25.1		> 25.1	
CRAE Arthur River	1.33	2.01	2.69	< 35		35 - 120	> 120

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: NICKEL

COMPANY	$\log \bar{x}$	$\log \bar{x} + 1SD$	$\log \bar{x} + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	1.11	1.73	2.35	< 28		28 - 178	> 178
ACI	NOT ANALYSED						
CRAE EL 1/77	0.85	1.45	1.99	< 15.8	15.8 - 63	63 - 125	> 125
Mt. Lyell EL 27/78	NOT ANALYSED						
CRAE Arthur River	1.29	1.68	2.07	< 28	28 - 100	> 100	

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: MOLYBDENUM

COMPANY	$\log \Sigma$	$\log \Sigma + 1SD$	$\log \Sigma + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	0.18	0.24	0.30		<1.5	<1.5	.
ACI	NOT ANALYSED						
CRAE EL 1/77	NOT ANALYSED						
Mt.Lye11 EL 27/78	1.27	1.58	1.89	<5.0		5.35	>35
CRAE Arthur River	0.03	0.15	0.27	<1	1 - 2	>2	

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: TIN

COMPANY	$\log \bar{x}$	$\log \bar{x} + 1SD$	$\log \bar{x} + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	0.4	1.19	1.98	<39.8	39.8 - 158	158 - 1584	> 1584
ACI	1.42	2.16	2.90	<10	10 - 316	316 - 2511	> 2511
CRAE EL 1/77	1.20	1.90	2.60	<20	20 - 158	158 - 794	> 794
Mt.Lyell EL 27/78	1.31	1.61	1.91	<15.8	15.8		
CRAE Arthur River	NOT ANALYSED						

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: ZINC

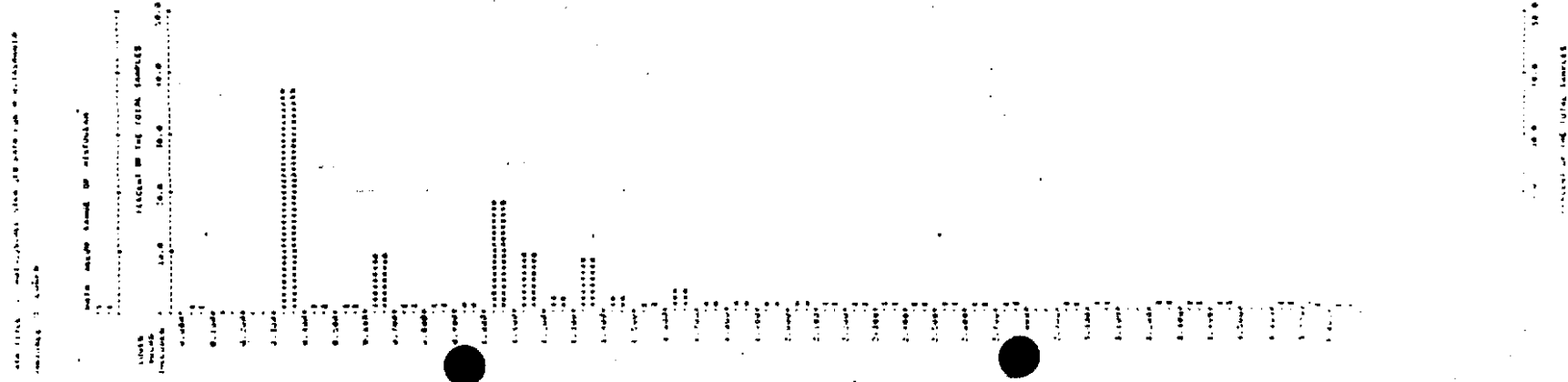
COMPANY	$\log \Sigma$	$\log \Sigma + 1SD$	$\log \Sigma + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	1.49	2.05	2.61	<35.5	35.5 - 104	104 - 281	> 281
ACI	NOT ANALYSED						
CRAE EL 1/77	0.88	1.53	2.18	< 50.1	50.1 - 100	100 - 250	> 250
Mt.Lye11 EL 27/78	1.37	1.91	2.45	< 40	40 - 89.1	89.1- 125	> 125
CRAE Arthur River	2.23	3.12	4.01	< 35.3	35.3 - 157	157 - 895	> 895

SUMMARY STATISTICS FOR INDIVIDUAL COMPANY'S DATA FILES

ELEMENT: ARSENIC

COMPANY	$\log \leq$	$\log \leq + 1SD$	$\log \leq + 2SD$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Pickands Mather EL 12/65	0.52	0.84	1.16	< 8	8 - 14	14 - 156	> 156
ACI	NOT ANALYSED						
CRAE EL 1/77	NOT ANALYSED						
Mt. Lyell EL 27/78	0.99	1.49	1.99	< 10		< 10	
CRAE Arthur River	1.22	2.18	3.14		< 20	20 - 398	> 398

APPENDIX IIDSTATS FOR FILE NWTASSS



063

VARIABLE: LOGPB

NUMBER OF OBSERVATIONS: 3237

MINIMUM: 0.000

MAXIMUM: 2.000

MEAN: 0.863

STANDARD ERROR OF MEAN: 0.008

STANDARD DEVIATION: 0.454

COEFFICIENT OF VARIATION: 52.579

SKEWNESS: 0.548

KURTOSIS: -0.692

CHI-SQUARE TEST FOR "GOODNESS OF FIT" WITH A NORMAL DISTRIBUTION

VARIABLE : LOGPB

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	0.281	1	323.7	-322.7	321.703
0.281	TO	0.481	1269	323.7	945.3	2760.556
0.481	TO	0.625	1	323.7	-322.7	321.703
0.625	TO	0.748	297	323.7	-26.7	2.202
0.748	TO	0.863	20	323.7	-303.7	294.936
0.863	TO	0.977	49	323.7	-274.7	233.117
0.977	TO	1.100	615	323.7	291.3	262.143
1.100	TO	1.244	315	323.7	-8.7	0.234
1.244	TO	1.444	308	323.7	-15.7	0.761
1.444	TO	+INFINITY	362	323.7	38.3	4.532

CHI-SQUARED VALUE IS 4191.89. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

1 ILLEGAL CALCULATIONS WERE ATTEMPTED. IN EACH CASE
THE SPECIAL VALUE WAS SUBSTITUTED FOR THE OUTPUT VARIABLE.
THEY ARE LISTED BELOW.

739064

DATA TITLE : WATERSHED SEDIMENT DATA FOR N.W. TASMANIA

VARIABLE : LOGFB

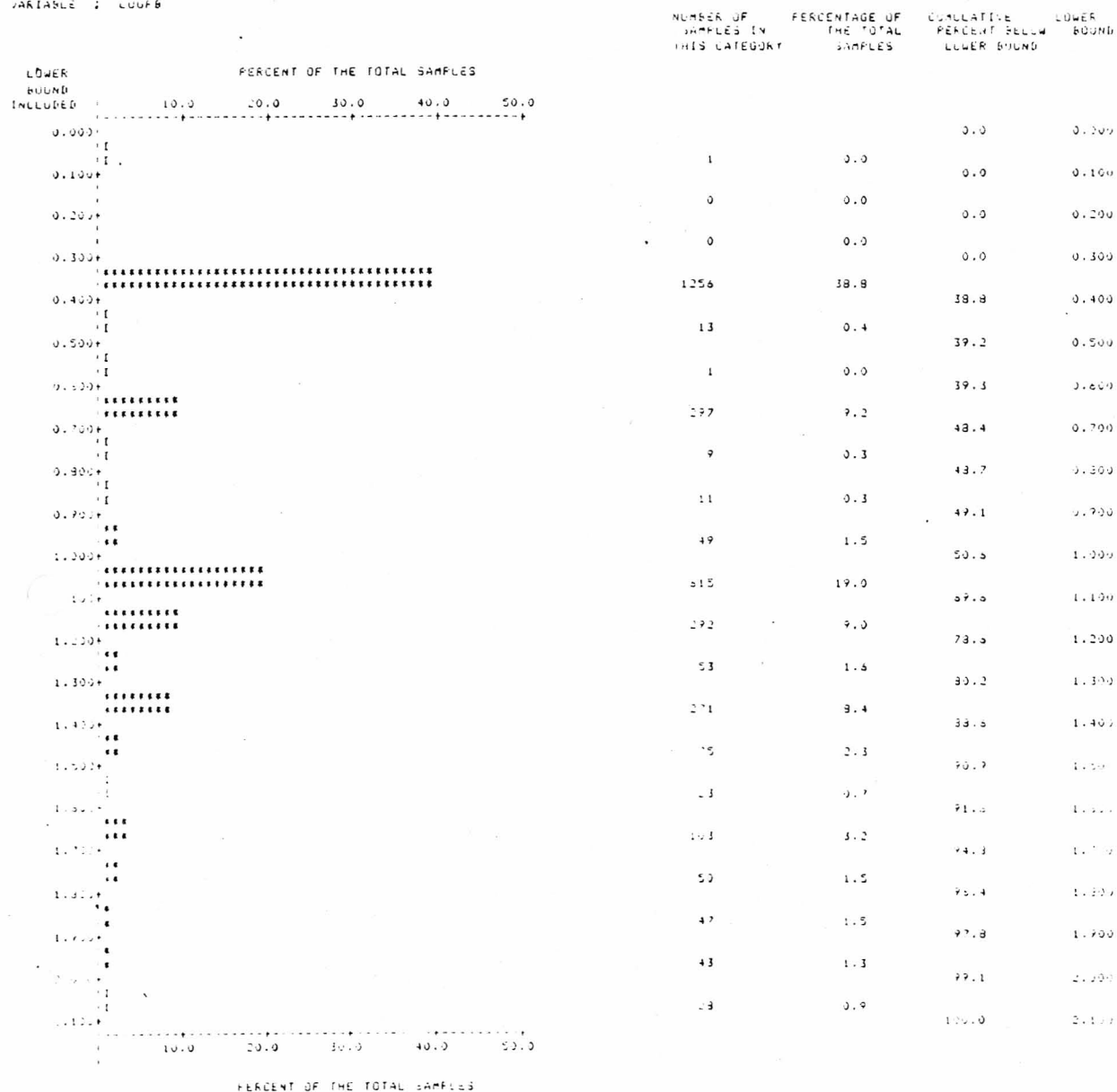


Fig. 5
LEAD (with selections, 0 - 2.0
log units.)

VARIABLE:	LOGPB
NUMBER OF OBSERVATIONS:	2693
MINIMUM:	0.398
MAXIMUM:	4.322
MEAN:	0.883
STANDARD ERROR OF MEAN:	0.011
STANDARD DEVIATION:	0.558
COEFFICIENT OF VARIATION:	63.194
SKEWNESS:	1.304
KURTOSIS:	2.405

DATA FILE: 1. MATHALLALL (100.00) DATA FOR N.W. 14. MAR 1964
 VARIABLE: 1. LOG10

LOG10		PERCENT OF THE TOTAL SAMPLES					NUMBER OF SAMPLES IN THIS INTERVAL	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOG10 BOUND	LOG10 BOUND
BOUND INCLUDED		5.0	10.0	15.0	20.0	25.0				
0.000	0.000								0.0	0.000
0.000	0.000						42	1.2	1.2	0.100
0.000	0.000						4	0.1	1.3	0.200
0.000	0.000						9	0.0	1.4	0.300
0.000	0.000						149	4.4	5.8	0.400
0.000	0.000						12	0.4	6.2	0.500
0.000	0.000						9	0.0	6.1	0.600
0.000	0.000						245	7.2	13.3	0.700
0.000	0.000						34	1.1	14.4	0.800
0.000	0.000						75	2.2	16.6	0.900
0.000	0.000						17	1.1	17.7	1.000
0.000	0.000						277	8.2	25.9	1.100
0.000	0.000						240	6.8	32.7	1.200
0.000	0.000						20	0.6	33.3	1.300
0.000	0.000						519	15.3	48.6	1.400
0.000	0.000						149	4.4	53.0	1.500
0.000	0.000						99	2.9	55.9	1.600
0.000	0.000						131	9.4	65.3	1.700
0.000	0.000						131	3.9	69.2	1.800
0.000	0.000						143	5.7	74.9	1.900
0.000	0.000						224	6.4	81.3	2.000
0.000	0.000						150	4.4	85.7	2.100
0.000	0.000						40	2.4	88.1	2.200
0.000	0.000						90	2.7	90.8	2.300
0.000	0.000						92	2.7	93.5	2.400
0.000	0.000						47	1.4	94.9	2.500
0.000	0.000						18	0.5	95.4	2.600
0.000	0.000						10	0.3	95.7	2.700
0.000	0.000						4	0.2	95.9	2.800
0.000	0.000						1	0.0	95.9	2.900
0.000	0.000						9	0.3	96.2	3.000
0.000	0.000						14	0.4	96.6	3.100
0.000	0.000						5	0.1	96.7	3.200
0.000	0.000						8	0.2	96.9	3.300
0.000	0.000						4	0.2	97.1	3.400
0.000	0.000						7	0.2	97.3	3.500
0.000	0.000						4	0.2	97.5	3.600
0.000	0.000						4	0.2	97.7	3.700
0.000	0.000						1	1.0	98.7	3.800
0.000	0.000						1	0.0	98.7	3.900
0.000	0.000						1	1.0	99.7	4.000
0.000	0.000						0	0.0	99.7	4.100
0.000	0.000						0	0.0	99.7	4.200
0.000	0.000						0	0.0	99.7	4.300
0.000	0.000						0	0.0	99.7	4.400
0.000	0.000						1	0.0	99.7	4.500

Fig. 6 ZINC

VARIABLE: LOGZN

NUMBER OF OBSERVATIONS: 3386

MINIMUM: 0.000

MAXIMUM: 4.491

MEAN: 1.458

STANDARD ERROR OF MEAN: 0.010

STANDARD DEVIATION: 0.609

COEFFICIENT OF VARIATION: 41.750

SKEWNESS: 0.323

KURTOSIS: 0.780

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGZN

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	((OBS.-EXP.)**2 / EXP.)
-INFINITY	TO	0.678	279	338.6	-59.6	10.471
0.678	TO	0.946	315	338.6	-23.6	1.645
0.946	TO	1.139	285	338.6	-53.6	8.485
1.139	TO	1.304	620	338.6	281.4	233.863
1.304	TO	1.458	206	338.6	-132.6	51.928
1.458	TO	1.612	382	338.6	43.4	5.563
1.612	TO	1.777	254	338.6	-84.6	21.138
1.777	TO	1.970	462	338.6	123.4	44.972
1.970	TO	2.238	287	338.6	-51.6	7.863
2.238	TO	+INFINITY	296	338.6	-42.6	5.360

CHI-SQUARED VALUE IS 391.31. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	4.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

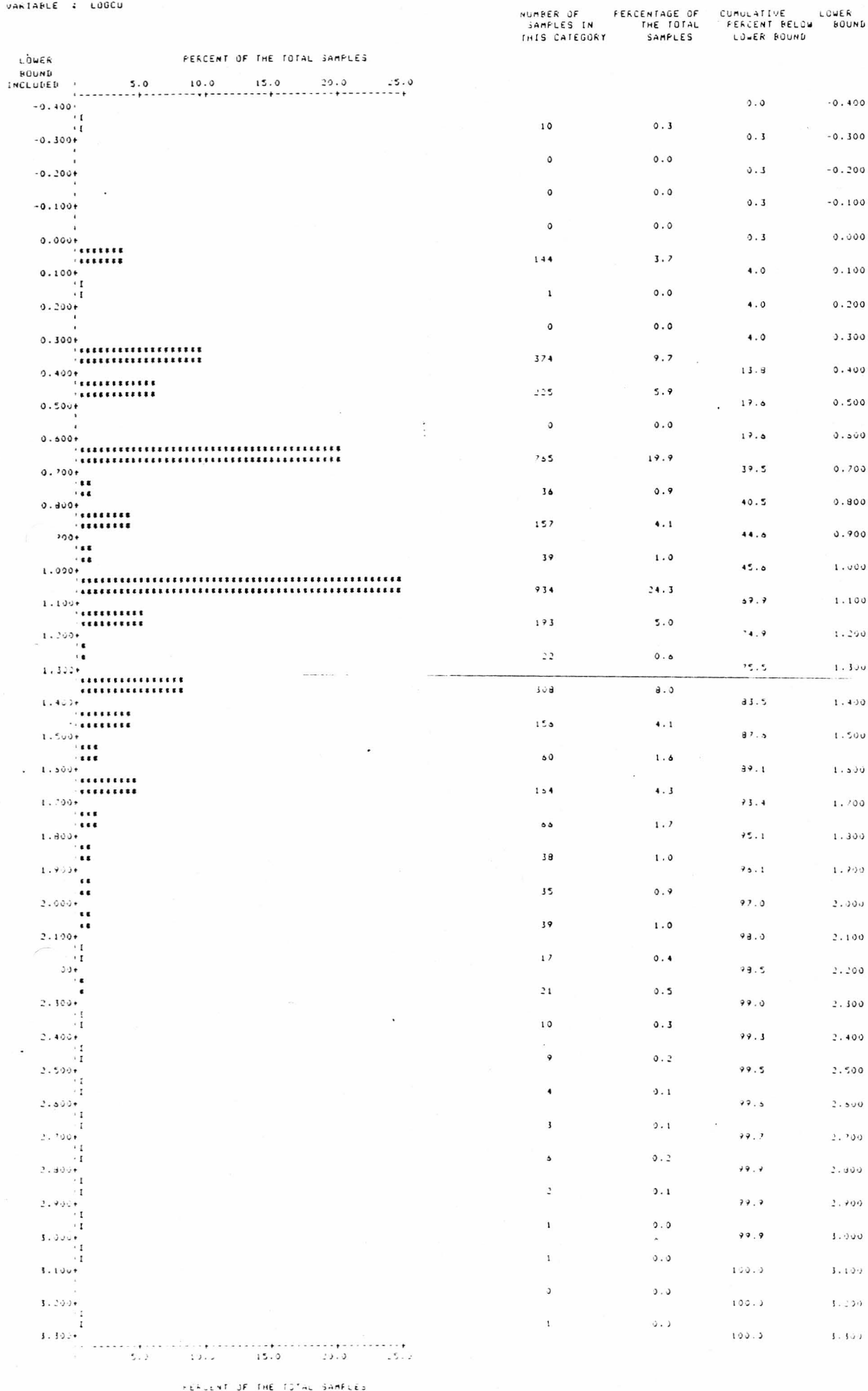


Fig. 7 COPPER

739069

069

VARIABLE: LOGCU

NUMBER OF OBSERVATIONS: 3841

MINIMUM: -0.301

MAXIMUM: 3.267

MEAN: 0.950

STANDARD ERROR OF MEAN: 0.008

STANDARD DEVIATION: 0.491

COEFFICIENT OF VARIATION: 51.700

SKEWNESS: 0.475

KURTOSIS: 0.620

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGCU

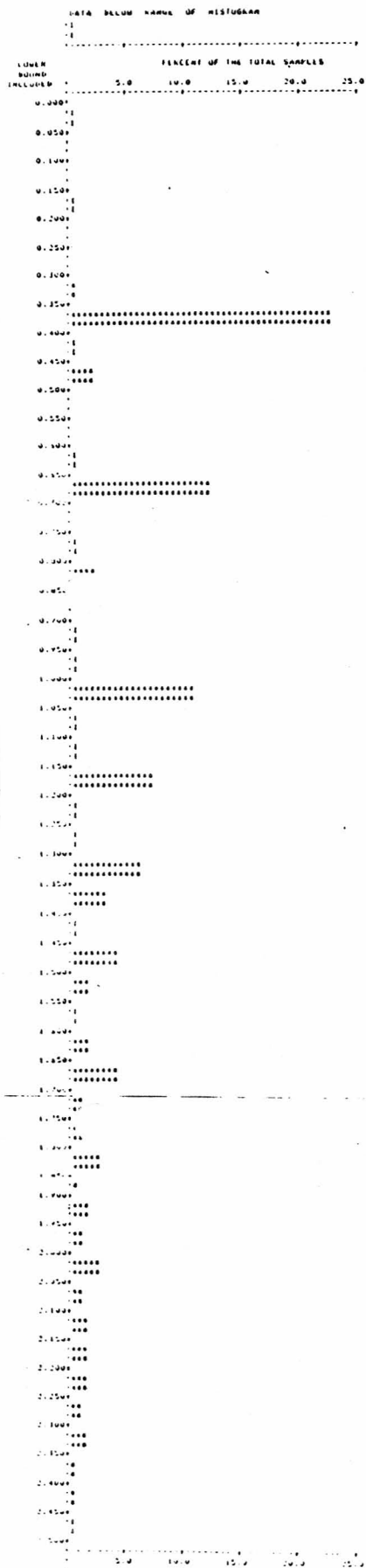
CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	0.320	526	384.1	141.9	52.423
0.320	TO	0.536	228	384.1	-156.1	63.440
0.536	TO	0.692	69	384.1	-315.1	258.495
0.692	TO	0.925	732	384.1	347.9	315.112
0.825	TO	0.950	191	384.1	-193.1	97.078
0.950	TO	1.074	927	384.1	542.9	767.353
1.074	TO	1.207	213	384.1	-171.1	76.218
1.207	TO	1.363	204	384.1	-180.1	84.447
1.363	TO	1.579	330	384.1	-54.1	7.620
1.579	TO	+INFINITY	421	384.1	36.9	3.545

CHI-SQUARED VALUE IS 1725.73. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

739070

739071



NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
1	0.0	0.0	
1	0.1	0.2	0.050
0	0.0	0.2	0.100
0	0.0	0.2	0.150
10	0.3	0.5	0.200
0	0.0	0.5	0.250
0	0.0	0.5	0.300
20	0.6	1.1	0.350
69	22.4	23.7	0.400
1	0.0	23.7	0.450
60	2.1	25.9	0.500
0	0.0	25.9	0.550
0	0.0	25.9	0.600
5	0.2	26.0	0.650
168	11.9	38.0	0.700
0	0.0	38.0	0.750
10	0.3	38.3	0.800
60	2.1	40.4	0.850
0	0.0	40.4	0.900
11	0.6	40.8	0.950
5	0.2	41.0	1.000
110	10.7	51.7	1.050
2	0.1	51.7	1.100
5	0.2	51.9	1.150
214	6.9	58.8	1.200
5	0.2	59.0	1.250
13	0.4	59.4	1.300
167	6.1	65.5	1.350
93	3.0	68.5	1.400
1	0.0	68.5	1.450
119	3.9	72.4	1.500
39	1.3	73.7	1.550
6	0.2	73.9	1.600
52	1.7	75.5	1.650
149	6.2	79.7	1.700
75	0.8	80.5	1.750
40	1.3	81.8	1.800
73	3.4		
22	0.7	84.9	1.900
45	1.5	86.4	1.950
17	1.2	87.6	2.000
43	2.7	89.3	2.050
27	0.9	91.1	2.100
42	1.4	92.5	2.150
32	1.7	94.2	2.200
30	1.0	95.0	2.250
13	1.1	96.9	2.300
47	1.5	98.4	2.350
19	0.6	99.0	2.400
17	0.6	99.6	2.450
0	0.0	99.6	2.500
5	0.2	100.0	

Fig. 8 NICKEL

071

VARIABLE: LOGNI

NUMBER OF OBSERVATIONS: 3077

MINIMUM: 0.000

MAXIMUM: 2.498

MEAN: 1.125

STANDARD ERROR OF MEAN: 0.011

STANDARD DEVIATION: 0.613

COEFFICIENT OF VARIATION: 54.434

SKEWNESS: 0.374

KURTOSIS: -1.018

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGNI

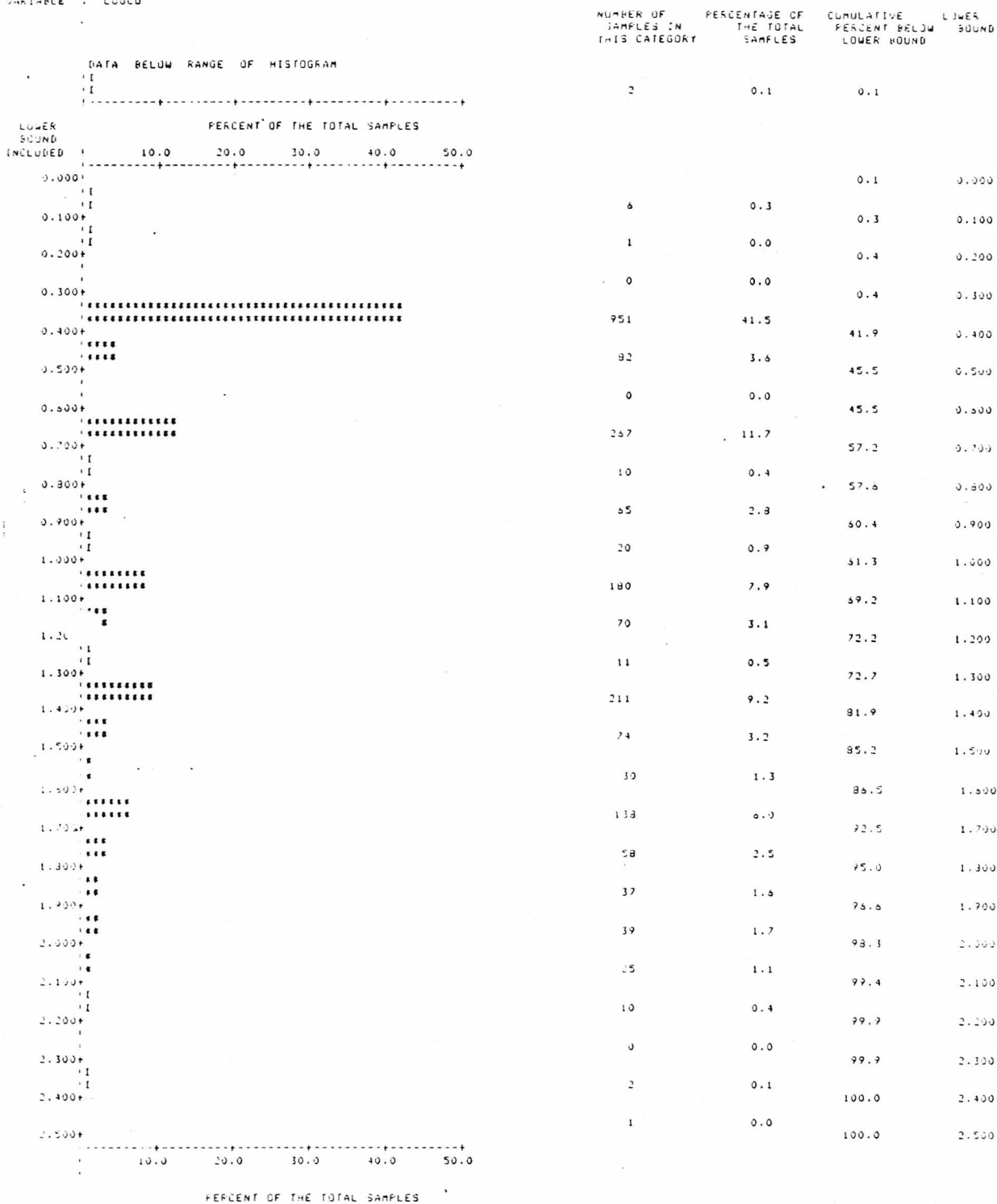
CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	0.340	35	308.3	-273.3	242.273
0.340	TO	0.610	768	308.3	459.7	685.450
0.610	TO	0.804	378	308.3	69.7	15.758
0.804	TO	0.970	82	308.3	-226.3	166.110
0.970	TO	1.125	332	308.3	23.7	1.922
1.125	TO	1.281	237	308.3	-71.3	16.489
1.281	TO	1.447	280	308.3	-28.3	2.598
1.447	TO	1.641	217	308.3	-91.3	27.038
1.641	TO	1.911	310	308.3	1.7	0.009
1.911	TO	+INFINITY	444	308.3	135.7	59.729

CHI-SQUARED VALUE IS 1217.28. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

739072

VARIABLE : LOGCO



739073

072

073

VARIABLE: LOGCO
 NUMBER OF OBSERVATIONS: 2288
 MINIMUM: 0.000
 MAXIMUM: 2.462
 MEAN: 0.852
 STANDARD ERROR OF MEAN: 0.011
 STANDARD DEVIATION: 0.513
 COEFFICIENT OF VARIATION: 60.164
 SKEWNESS: 0.752
 KURTOSIS: -0.731

 CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGCO

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	0.195	9	229.0	-220.0	211.354
0.195	TO	0.421	951	229.0	722.0	2276.349
0.421	TO	0.583	83	229.0	-147.0	94.362
0.583	TO	0.722	267	229.0	38.0	6.306
0.722	TO	0.852	75	229.0	-154.0	103.563
0.852	TO	0.982	20	229.0	-209.0	190.747
0.982	TO	1.121	185	229.0	-44.0	8.454
1.121	TO	1.283	76	229.0	-153.0	102.223
1.283	TO	1.509	236	229.0	57.0	14.188
1.509	TO +INFINITY		339	229.0	110.0	52.838

CHI-SQUARED VALUE IS 3060.38. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

739074

VARIABLE : LOGAS

NUMBER OF
SAMPLES IN
THIS CATEGORY

PERCENTAGE OF
THE TOTAL
SAMPLES

CUMULATIVE
PERCENT BELOW
LOWER BOUND

LOWER
BOUND

739075

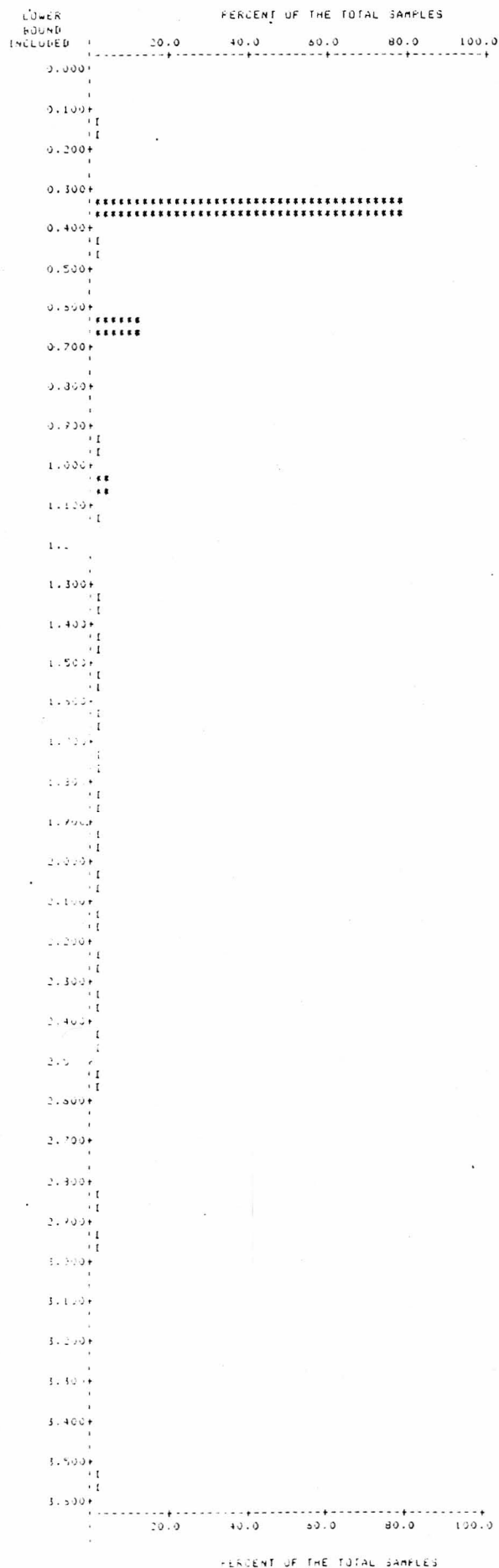


Fig. 10 ARSENIC

VARIABLE: LOGAS

NUMBER OF OBSERVATIONS: 2743

MINIMUM: 0.176

MAXIMUM: 3.556

MEAN: 0.547

STANDARD ERROR OF MEAN: 0.007

STANDARD DEVIATION: 0.368

COEFFICIENT OF VARIATION: 67.411

SKEWNESS: 3.359

KURTOSIS: 12.718

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGAS

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	0.074	0	274.3	-274.3	274.300
0.074	TO	0.237	2	274.3	-272.3	270.315
0.237	TO	0.353	1	274.3	-273.3	272.304
0.353	TO	0.453	2117	274.3	1842.7	12378.941
0.453	TO	0.547	1	274.3	-273.3	272.304
0.547	TO	0.640	1	274.3	-273.3	272.304
0.640	TO	0.740	332	274.3	57.7	12.137
0.740	TO	0.857	0	274.3	-274.3	274.300
0.857	TO	1.019	108	274.3	-166.3	100.823
1.019	TO	+INFINITY	181	274.3	-93.3	31.735

CHI-SQUARED VALUE IS 14159.46. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

VARIABLE : LOUAD

739077

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES					NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
	20.0	40.0	60.0	80.0	100.0				
0.000+								0.0	0.000
0.050+						119	4.6	4.6	0.050
0.100+						0	0.0	4.6	0.100
0.150+						1	0.0	4.7	0.150
0.200+						2289	89.3	94.0	0.200
0.250+						0	0.0	94.0	0.250
0.300+						0	0.0	94.0	0.300
0.350+						33	1.3	95.3	0.350
0.400+						4	0.2	95.4	0.400
0.450+						0	0.0	95.4	0.450
0.500+						4	0.2	95.6	0.500
0.550+						0	0.0	95.6	0.550
0.600+						0	0.0	95.6	0.600
0.650+						1	0.0	95.6	0.650
0.700+						40	1.6	97.2	0.700
0.750+						0	0.0	97.2	0.750
0.800+						1	0.0	97.2	0.800
0.850+						2	0.1	97.3	0.850
0.900+						0	0.0	97.3	0.900
0.950+						0	0.0	97.3	0.950
1.000+						0	0.0	97.3	1.000
1.050+						20	0.8	98.1	1.050
1.100+						1	0.0	98.1	1.100
1.150+						0	0.0	98.1	1.150
1.200+						9	0.4	98.5	1.200
1.250+						0	0.0	98.5	1.250
1.300+						0	0.0	98.5	1.300
1.350+						10	0.4	98.9	1.350
1.400+						4	0.2	99.0	1.400
1.450+						0	0.0	99.0	1.450
1.500+						3	0.1	99.1	1.500
1.550+						2	0.1	99.2	1.550
1.600+						0	0.0	99.2	1.600
1.650+						2	0.1	99.3	1.650
1.700+						8	0.3	99.6	1.700
1.750+						2	0.1	99.7	1.750
1.800+						2	0.1	99.8	1.800
1.850+						2	0.1	99.9	1.850
1.900+						1	0.0	99.9	1.900
1.950+						1	0.0	99.9	1.950
2.000+						1	0.0	100.0	2.000
2.050+						1	0.0	100.0	2.050

Fig. 11 MOL YBDENUM

076

VARIABLE: LOGMO
 NUMBER OF OBSERVATIONS: 2563
 MINIMUM: 0.000
 MAXIMUM: 2.000
 MEAN: 0.211
 STANDARD ERROR OF MEAN: 0.004
 STANDARD DEVIATION: 0.212
 COEFFICIENT OF VARIATION: 100.384
 SKEWNESS: 5.254
 KURTOSIS: 30.361

 CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGMO

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	-0.060	0	256.3	-256.3	256.300
-0.060	TO	0.033	119	256.3	-137.3	73.552
0.033	TO	0.100	0	256.3	-256.3	256.300
0.100	TO	0.157	1	256.3	-255.3	254.304
0.157	TO	0.211	2237	256.3	2032.7	16121.224
0.211	TO	0.265	0	256.3	-256.3	256.300
0.265	TO	0.322	13	256.3	-223.3	194.549
0.322	TO	0.389	0	256.3	-256.3	256.300
0.389	TO	0.482	8	256.3	-248.3	240.550
0.482	TO	+INFINITY	113	256.3	-143.3	80.121

CHI-SQUARED VALUE IS 17939.50. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

DATA FILE : MATA..VIM..TIN..JED DATA FOR W.W.TANARUA

VARIABLE : ANGRM

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000	*****	168	17.1	17.1	0.000
0.100	*****	290	13.9	31.0	0.100
0.200	*****	0	0.0	31.0	0.200
0.300	*****	0	0.0	31.0	0.300
0.400	*****	254	11.8	42.8	0.400
0.500	*****	95	4.4	47.2	0.500
0.600	*****	0	0.0	47.2	0.600
0.700	*****	165	17.0	64.2	0.700
0.800	*****	33	1.5	65.7	0.800
0.900	*****	30	1.4	67.1	0.900
1.000	*****	35	1.6	68.7	1.000
1.100	*****	56	2.5	71.2	1.100
1.200	*****	32	1.5	72.8	1.200
1.300	*****	2	0.1	72.8	1.300
1.400	*****	66	1.0	75.8	1.400
1.500	*****	43	2.0	77.8	1.500
1.600	*****	17	0.8	78.6	1.600
1.700	*****	59	2.7	81.4	1.700
1.800	*****	10	1.4	82.8	1.800
1.900	*****	44	2.0	84.8	1.900
2.000	*****	36	1.7	86.5	2.000
2.100	*****	61	2.8	89.3	2.100
2.200	*****	27	1.3	90.6	2.200
2.300	*****	10	0.8	91.4	2.300
2.400	*****	45	2.1	93.5	2.400
2.500	*****	30	1.4	94.9	2.500
2.600	*****	9	0.4	95.3	2.600
2.700	*****	32	1.5	96.8	2.700
2.800	*****	0	0.4	97.2	2.800
2.900	*****	9	0.4	97.6	2.900
3.000	*****	0	0.4	98.0	3.000
3.100	*****	15	0.7	98.7	3.100
3.200	*****	5	0.2	99.0	3.200
3.300	*****	1	0.0	99.0	3.300
3.400	*****	10	0.5	99.5	3.400
3.500	*****	2	0.1	99.6	3.500
3.600	*****	2	0.1	99.7	3.600
3.700	*****	3	0.1	99.8	3.700
3.800	*****	1	0.0	99.9	3.800
3.900	*****	2	0.1	100.0	3.900
4.000	*****	0	0.0	100.0	4.000
4.100	*****	1	0.0	100.0	4.100

Fig. 12 TIN

VARIABLE: LOGSN

NUMBER OF OBSERVATIONS: 1783

MINIMUM: 0.000

MAXIMUM: 4.000

MEAN: 0.982

STANDARD ERROR OF MEAN: 0.020

STANDARD DEVIATION: 0.860

COEFFICIENT OF VARIATION: 87.520

SKEWNESS: 0.868

KURTOSIS: -0.084

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGSN

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	-0.119	368	215.1	152.9	108.686
-0.119	TO	0.259	299	215.1	82.9	31.950
0.259	TO	0.531	349	215.1	133.9	83.353
0.531	TO	0.764	365	215.1	149.9	104.463
0.764	TO	0.982	98	215.1	-117.1	63.749
0.982	TO	1.200	87	215.1	-128.1	76.288
1.200	TO	1.433	68	215.1	-147.1	100.577
1.433	TO	1.706	117	215.1	-98.1	44.740
1.706	TO	2.084	167	215.1	-48.1	10.756
2.084	TO	+INFINITY	234	215.1	18.9	1.661

CHI-SQUARED VALUE IS 626.24. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

3 ILLEGAL CALCULATIONS WERE ATTEMPTED. IN EACH CASE
THE SPECIAL VALUE WAS SUBSTITUTED FOR THE OUTPUT VARIABLE.
THEY ARE LISTED BELOW

739081

DATA TITLE : NUTASSS:ALL STRM SED DATA FOR N.W.TASMANIA

VARIABLE : LOGGXCU

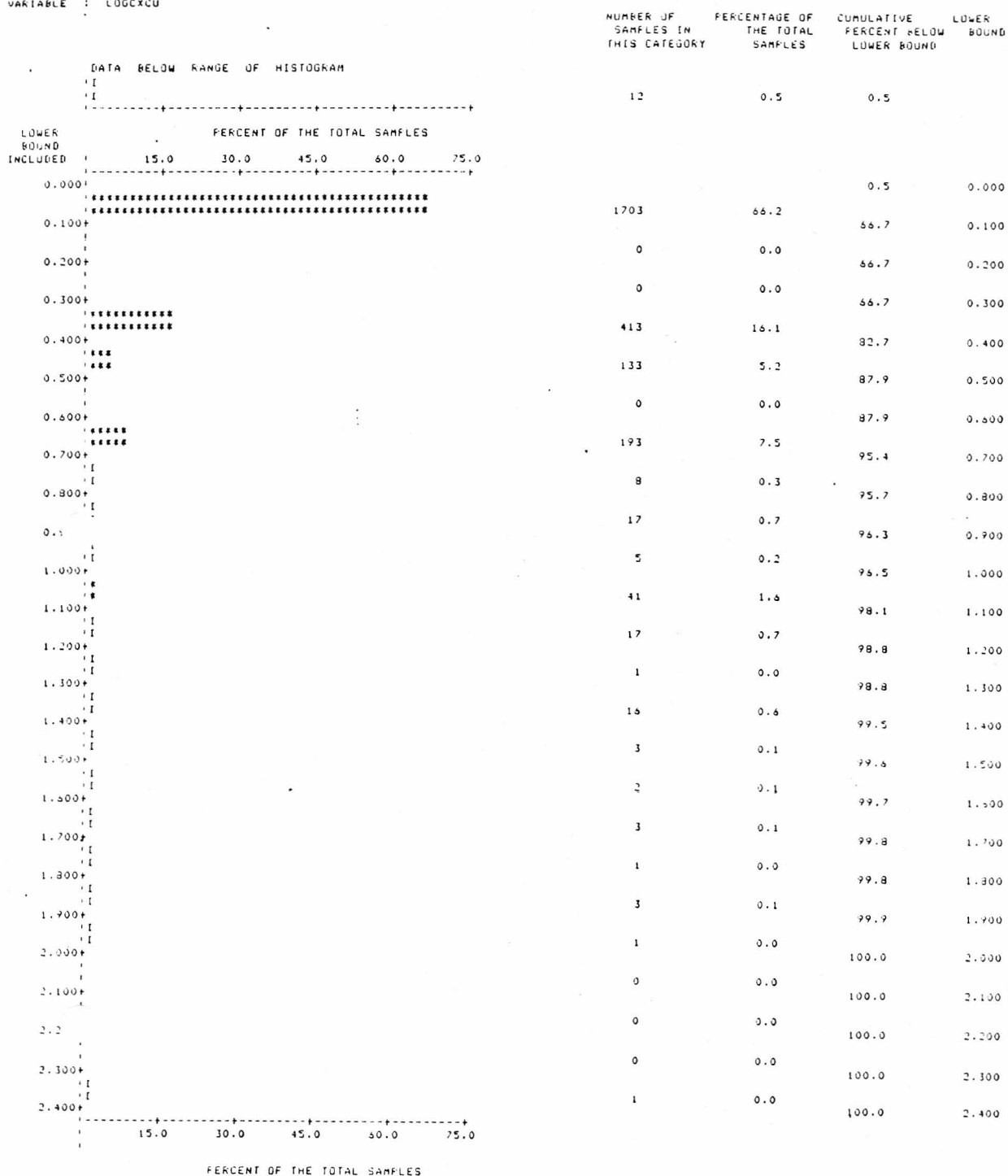


Fig. 13 COLD EXTRACTABLE COPPER

080

VARIABLE: LOGCXCU
 NUMBER OF OBSERVATIONS: 2561
 MINIMUM: 0.000
 MAXIMUM: 2.301
 MEAN: 0.176
 STANDARD ERROR OF MEAN: 0.006
 STANDARD DEVIATION: 0.302
 COEFFICIENT OF VARIATION: 171.511
 SKEWNESS: 2.107
 KURTOSIS: 5.320

 CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : LOGCXCU

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	-0.211	12	257.3	-245.3	233.860
-0.211	TO	-0.078	0	257.3	-257.3	257.300
-0.078	TO	0.018	1703	257.3	1445.7	9123.004
0.018	TO	0.100	0	257.3	-257.3	257.300
0.100	TO	0.176	0	257.3	-257.3	257.300
0.176	TO	0.253	0	257.3	-257.3	257.300
0.253	TO	0.335	390	257.3	132.7	68.439
0.335	TO	0.430	23	257.3	-234.3	213.356
0.430	TO	0.563	133	257.3	-124.3	60.049
0.563	TO	+INFINITY	312	257.3	54.7	11.629

CHI-SQUARED VALUE IS 9739.54. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	18.50
0.995	20.30

VARIABLE: CU/NI

NUMBER OF OBSERVATIONS: 3062

MINIMUM: 0.036

MAXIMUM: 24.000

MEAN: 1.405

STANDARD ERROR OF MEAN: 0.044

STANDARD DEVIATION: 2.445

COEFFICIENT OF VARIATION: 174.099

SKEWNESS: 4.753

KURTOSIS: 29.261

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : CU/NI

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	((OBS.-EXP.)**2 / EXP.)
-INFINITY	TO	-1.729	0	308.0	-308.0	308.000
-1.729	TO	-0.653	0	308.0	-308.0	308.000
-0.653	TO	0.122	143	308.0	-160.0	83.117
0.122	TO	0.785	1354	308.0	1046.0	5040.535
0.785	TO	1.405	554	308.0	256.0	212.729
1.405	TO	2.024	285	308.0	-79.0	19.753
2.024	TO	2.687	34	308.0	-274.0	243.753
2.687	TO	3.463	41	308.0	-217.0	152.896
3.463	TO	4.539	123	308.0	-185.0	111.120
4.539	TO	INFINITY	120	308.0	-128.0	53.195

CHI-SQUARED VALUE IS 6533.24. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL	CHI-SQUARE VALUE
0.500	6.35
0.250	9.04
0.100	12.00
0.050	14.10
0.025	16.00
0.010	18.50
0.005	22.30

739085

DATA TITLE : NUTASSS:ALL STRM SED DATA FOR N.W.TASMANIA

VARIABLE : FCU

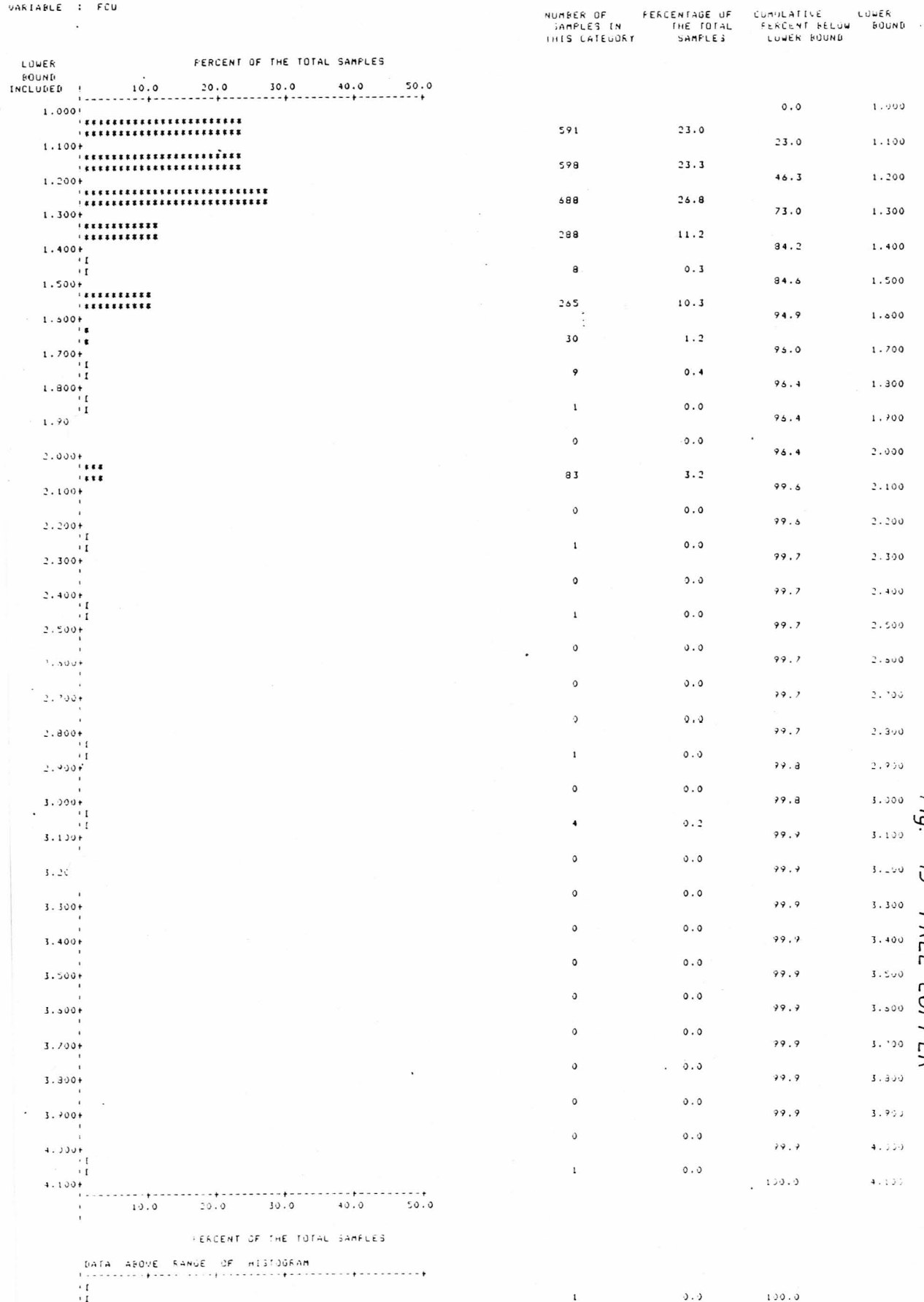


Fig. 15 FREE COPPER

VARIABLE: FCU

NUMBER OF OBSERVATIONS: 2569

MINIMUM: 1.001

MAXIMUM: 4.000

MEAN: 1.237

STANDARD ERROR OF MEAN: 0.004

STANDARD DEVIATION: 0.228

COEFFICIENT OF VARIATION: 18.429

SKEWNESS: 2.980

KURTOSIS: 16.962

CHI-SQUARE TEST FOR 'GOODNESS OF FIT' WITH A NORMAL DISTRIBUTION

VARIABLE : FCU

CLASS BOUNDS			OBSERVED	EXPECTED	(OBS-EXP)	[(OBS.-EXP.)**2 / EXP.]
-INFINITY	TO	0.945	0	257.0	-257.0	257.000
0.945	TO	1.045	186	257.0	-71.0	19.615
1.045	TO	1.117	775	257.0	518.0	1044.062
1.117	TO	1.179	228	257.0	-29.0	3.272
1.179	TO	1.237	612	257.0	355.0	490.370
1.237	TO	1.294	60	257.0	-197.0	151.008
1.294	TO	1.356	214	257.0	-43.0	7.195
1.356	TO	1.428	92	257.0	-165.0	105.934
1.428	TO	1.529	269	257.0	12.0	0.560
1.529	TO	+INFINITY	134	257.0	-123.0	58.868

CHI-SQUARED VALUE IS 2137.88. DEGREES OF FREEDOM ARE 7.

SIGNIFICANCE LEVEL CHI-SQUARE VALUE

0.500	6.35
0.750	9.04
0.900	12.00
0.950	14.10
0.975	16.00
0.990	19.50
0.995	20.30

APPENDIX III

SUMMARY STATISTICS FOR ROCK TYPES

SUMMARY STATISTICS FOR ROCK TYPES

087

ELEMENT: ZINC

ROCK TYPE	$\log \Sigma$	$\log \Sigma + 1\sigma$	$\log \Sigma + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	1.40	1.79	2.18		100 - 199.5	199.5 - 389	>389
Tertiary Basalt	1.91	2.27	2.63			39.8 - 316	>316
PE Undiff. Metaseds	1.78	2.40	3.02		22 - 110	100 - 339	>339
PE Dolomite	1.74	2.32	2.90		30 - 100	100 - 235	>235
PE O'Qtzite + Congl	1.14	1.62	2.10		29.5 - 63	63 - 126	>126
PE Greywackes	1.37	1.84	2.31		36 - 100	100 - 282	>282
PE Undiff. Seds.	1.14	1.77	2.40		25 - 93	93 - 281	>281
Cambrian Volcanics	1.86	2.33	2.80		40.7 - 125	> 125	
Cambrian Greywackes	1.89	2.36	2.83		60 - 173	173 - 389	>389
Ordov. SST. & Congl.	1.48	1.98	2.48		31 - 126	> 126	
Ordov. Limestones	1.58	2.08	2.58		50 - 200	> 200	
Dev. Qtz. SST.	1.41	1.83	2.25			63 - 125	>125
Dev. Siltstone Shale	Insufficient Data						
Permo Carbonif.	1.65	2.07	2.49		40 - 158	158 - 316	>316
Tertiary Sediments	1.34	1.71	2.08		25 - 125	> 125	

739088

SUMMARY STATISTICS FOR ROCK TYPES

ELEMENT: LEAD

ROCK TYPE	$\log \bar{x}$	$\log \bar{x} + 1\sigma$	$\log \bar{x} + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	0.80	1.29	1.78		7.9 - 13.8	13.8 - 36	>36
Tertiary Basalt	0.95	1.41	1.87		6.3 - 20	20 - 39.8	>39.8
PE Undiff. Metaseds	1.09	1.70	2.31		13.8 - 21	21 - 47.9	>47.9
PE Dolomite	0.83	1.28	1.73		6.3 - 15.8	15.8 - 50.1	>50.1
PE O'Qtzite & Congl.	0.84	1.35	1.86		12.5 - 25.1	25.1 - 83.2	>83.2
PE Greywackes	0.94	1.32	1.70		6 - 20	20 - 40	>40
PE Undiff. Seds	0.87	1.42	1.97		6.3 - 22.9	22.9 - 47.8	>47.8
Cambrian Volcanics	0.99	1.34	1.69			10 - 31.6	>31.6
Cambrian Greywackes	0.94	1.38	1.82			18.6 - 41.6	>41.6
Ordov. SST & Congl.	0.79	1.30	1.81		10 - 31.6		>31.6
Ordov. Limestones	0.99	1.64	2.29			27.5 - 93.3	>93.3
Dev. Qtz. SST	0.54	1.15	1.76			15.5 - 31.6	>31.6
Dev. Siltstone Shale	Insufficient Data						
Permo - Carbonif.	1.11	1.68	2.25		20 - 39.8	39.8 - 125	>125
Tertiary Sediments	0.75	1.15	1.55		10 - 25	>25	

SUMMARY STATISTICS FOR ROCK TYPES

089

ELEMENT: COPPER

ROCK TYPE	$\log \bar{x}$	$\log \bar{x} + 1\sigma$	$\log \bar{x} + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	0.87	1.19	1.51		19.9 - 31.6	31 - 63	>63
Tertiary Basalt	1.31	1.68	2.05	< 39.8	39.8 - 63	> 63	
PE Undiff. Metaseds	1.19	1.70	2.21			24 - 63	>63
PE Dolomite	1.06	1.54	2.02			41.6 - 83.1	>83.1
PE O'Qtzite & Congl	0.82	1.17	1.52	< 7.9	7.9 - 20	>20	
PE Greywackes	0.96	1.40	1.84		24 - 72.5	72.5 - 125	>125
PE Undiff. Seds	0.73	1.20	1.67		12 - 20.8	20.8 - 63	>63
Cambrian Volcanics	1.43	2.0	2.57		25 - 63	63 - 125	>125
Cambrian Greywackes	1.28	1.78	2.28	< 31		31 - 158	>158
Ordov. SST & Congl.	0.92	1.35	1.78		7.9 - 31	>31	
Ordov. Limestones	0.90	1.18	1.46	< 25		>25	
Dev. Qtz. SST	0.94	1.28	1.62		16 - 39.8	>39.8	
Dev. Siltstone Shale	Insufficient Data						
Permo - Carbonif.	1.18	1.56	1.94			31.6 - 79.4	>79.4
Tertiary Sediments	0.83	1.23	1.63	< 16		16 - 50	>50

739090

SUMMARY STATISTICS FOR ROCK TYPES

030

ELEMENT: NICKEL

ROCK TYPE	$\log \leq$	$\log \leq + 1\sigma$	$\log \leq + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	0.84	1.32	1.80			39.8 - 100	>100
Tertiary Basalt	1.91	2.43	2.95	<83.2	20 - 39.8 83.2 - 316	> 316	
PE Undiff. Metaseds	1.30	1.75	2.20		10 - 79	>79	
PE Dolomite	1.32	1.91	2.50	< 63		63 - 126	>126
PE O'Qtzite & Congl.	0.73	1.15	1.57			20 - 50.1	>50.1
PE Greywackes	0.89	1.40	1.91		15.8 - 31.6	31.6 - 126	>126
PE Undiff. Seds	0.87	1.29	1.71	< 25		25 - 50	>50
Cambrian Volcanics	1.55	2.10	2.65	<31	All appear to be one population		
Cambrian Greywackes	1.42	2.01	2.60		20 - 200	> 200	
Ordov. SST & Congl.	1.01	1.59	2.17			32.6 - 126	>126
Ordov. Limestones	1.09	1.65	2.21		7.9 - 50	> 50	
Dev. Qtz. SST	1.00	1.49	1.98		12.5 - 100	>100	
Dev. Siltstone Shale	Insufficient Data						
Permo - Carbonif.	1.34	1.87	2.40	< 79.4		79.4 - 200	>200
Tertiary Sediments	0.98	1.54	2.10		12.5 - 125	>125	

739091

SUMMARY STATISTICS FOR ROCK TYPES

ELEMENT: COBALT

ROCK TYPE	$\log \Sigma$	$\log \Sigma + 1\sigma$	$\log \Sigma + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	0.66	1.04	1.42			20 - 31.6	> 31.6
Tertiary Basalt	1.46	1.98	2.50	< 63		63 - 125	> 125
PE Undiff. Metaseds	0.93	1.32	1.71		8 - 31.5	31.5 - 63	> 63
PE Dolomite	0.93	1.47	2.01			39.8 - 100	> 100
PE O'Qtzite & Congl	0.57	0.91	1.25		8 - 31.6	> 31.6	
PE Greywackes	0.69	1.13	1.57			16 - 50.1	> 50.1
PE Undiff. Sed	0.58	0.89	1.20	< 15			> 15
Cambrian Volcanics	1.18	1.78	2.38		< 63	> 63	
Cambrian Greywackes	1.16	1.66	2.16		18 - 71	> 71	
Ordov.SST & Congl.	1.0	1.49	1.98		25 - 63	63 - 100	> 100
Ordov. Limestones	Insufficient Data						
Dev. Qtz. SST	0.98	1.45	1.92		10 - 31.6	> 31.6	
Dev. Siltstone Shale	Insufficient Data						
Permo - Carbonif.	1.06	1.54	2.02		8 - 20	20 - 63	> 63
Tertiary Sediments	0.77	1.24	1.71	< 16		16 - 50	> 50

SUMMARY STATISTICS FOR ROCK TYPES

092

ELEMENT: ARSENIC

ROCK TYPE	$\log \bar{x}$	$\log \bar{x} + 1\sigma$	$\log \bar{x} + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	0.44	0.60	0.76		2 - 5	5 - 16	>16
Tertiary Basalt	0.49	0.69	0.89			5 - 15.8	>15.8
PG Undiff. Metaseds	0.81	1.43	2.05	<20		20 - 50	>50
PG Dolomite	0.55	0.88	1.21			5 - 20	>20
PG O'Qtzite & Congl	0.50	0.74	0.98			6.3 - 25	>25
PG Greywackes	0.49	0.79	1.09		5 - 20	20 - 50	>50
PG Undiff. Seds	0.54	0.90	1.26			11 - 30	>30
Cambrian Volcanics	0.52	0.75	0.98	<15.8		>15.8	
Cambrian Greywackes	0.54	0.81	1.08		10 - 16	16 - 31	>31
Ordov.SST & Congl.	0.46	0.66	0.86		5 - 16	>16	
Ordov. Limestones	Insufficient Data						
Dev. Qtz. SST	All Background						
Dev. Siltstone Shale	Insufficient Data						
Permo - Carbonif.	0.54	0.96	1.38			10 - 20	>20
Tertiary Sediments	0.54	0.78	1.02			6 - 25	>25

739093

SUMMARY STATISTICS FOR ROCK TYPESELEMENT: TIN

ROCK TYPE	$\log \bar{x}$	$\log \bar{x} + 1\sigma$	$\log \bar{x} + 2\sigma$	ppm LBG	ppm HBG	ppm P.A.	ppm A.
Granite	1.27	2.12	2.97		56 - 346.7	346.7 - 2630	>2630
Tertiary Basalt	0.26	0.83	1.60		16.2 - 91	> 91	
PE Undiff. Metaseds	0.60	1.46	2.32		15.4 - 52.5	52.5 - 214	>214
PE Dolomite	0.36	0.96	1.56		Insufficient Data		
PE O'Qtzite & Congl	0.66	1.57	2.48		27 - 158	158 - 398	>398
PE Greywackes	1.01	2.02	3.03		77 - 251	251 - 1318	>1318
PE Undiff. Seds	0.64	1.34	2.04		15.8 - 36	36 - 125	>125
Cambrian Volcanics	Insufficient Data						
Cambrian Greywackes	0.56	1.44	2.32		21 - 54	54 - 295	>295
Ordov.SST & Congl.	0.24	0.76	1.28		Insufficient Data		
Ordov. Limestones	Insufficient Data						
Dev. Qtz. SST	1.17	2.01	2.95		Insufficient Data		
Dev. Siltstone Shale	Insufficient Data						
Permo - Carbonif.	Insufficient Data						
Tertiary Sediments	0.85	1.79	2.73		5 - 100	100 - 891	>891

739094

APPENDIX IV

LIST OF SAMPLE LOCATIONS

NOT PLOTTED BECAUSE OF

COINCIDENTAL LOCATIONS

COPPER (ppm)

567 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

[illegible]

COLD EXTRACTABLE COPPER (ppm)

310 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5400557.0	323294.0	1	5428667.0	409806.0	1
5481113.0	322105.0	2	5401117.0	323314.0	1	5426106.0	409977.0	3
5479572.0	331886.0	1	5400516.0	323406.0	1	5427148.0	410000.0	3
5475922.0	335647.0	1	5396405.0	323707.0	1	5426361.0	410026.0	2
5459402.0	337736.0	1	5395008.0	323759.0	1	5427261.0	410030.0	3
5467571.0	340881.0	4	5394139.0	324097.0	1	5426310.0	410084.0	4
5473650.0	349507.0	5	5393733.0	324300.0	1	5426630.0	410183.0	5
5468561.0	349937.0	1	5392685.0	324406.0	1	5423603.0	410416.0	1
5472558.0	351284.0	1	5393869.0	324623.0	1	5421592.0	412241.0	1
5471064.0	351629.0	2	5396336.0	324700.0	1	5430387.0	412331.0	1
5459857.0	361132.0	1	5397278.0	324806.0	1	5418363.0	413146.0	2
5468041.0	380101.0	1	5401295.0	324894.0	1	5417821.0	414127.0	1
5442861.0	309678.0	1	5395424.0	325030.0	1	5426899.0	414227.0	1
5451537.0	313504.0	1	5395582.0	325111.0	1	5373284.0	334777.0	1
5446461.0	314955.0	1	5398500.0	325402.0	1	5373202.0	334812.0	1
5446056.0	315685.0	1	5399550.0	325444.0	1	5372021.0	336826.0	1
5438449.0	321731.0	1	5400683.0	325449.0	1	5369010.0	337526.0	2
5454533.0	324594.0	1	5398242.0	325493.0	1	5371784.0	337540.0	3
5441150.0	325814.0	1	5400964.0	326278.0	2	5368877.0	339000.0	1
5431413.0	326232.0	1	5400724.0	326279.0	1	5371185.0	339002.0	2
5431947.0	326771.0	1	5394799.0	326344.0	1	5366434.0	339900.0	1
5440069.0	327125.0	1	5400727.0	326629.0	1	5368807.0	340302.0	1
5439540.0	327246.0	4	5398854.0	326696.0	2	5366927.0	340327.0	1
5439356.0	327546.0	2	5395205.0	326787.0	1	5374229.0	340634.0	1
5441299.0	328773.0	4	5387959.0	326792.0	1	5365712.0	340867.0	1
5442434.0	329097.0	4	5387818.0	327021.0	1	5370202.0	341618.0	2
5445226.0	330429.0	3	5399699.0	327827.0	4	5366496.0	342291.0	1
5444908.0	330831.0	3	5381013.0	328094.0	1	5367823.0	344863.0	2
5438043.0	331295.0	2	5393655.0	328102.0	2	5367941.0	346144.0	1
5444540.0	331325.0	4	5380840.0	328790.0	1	5372222.0	354056.0	2
5432721.0	331447.0	2	5396847.0	328797.0	1	5371959.0	354174.0	2
5444311.0	334787.0	4	5395390.0	328823.0	2	5370935.0	354315.0	3
5443364.0	335054.0	4	5380748.0	329272.0	1	5371144.0	354752.0	2
5444819.0	335238.0	4	5384385.0	329722.0	1	5373080.0	354828.0	5
5433212.0	335506.0	1	5379833.0	329795.0	1	5373272.0	354984.0	3
5440255.0	335909.0	3	5391262.0	329907.0	1	5366316.0	357243.0	1
5440458.0	335914.0	4	5397435.0	329922.0	1	5370730.0	357892.0	1
5440596.0	335962.0	3	5397372.0	330069.0	1	5371331.0	357971.0	2
5440346.0	335993.0	3	5402584.0	330108.0	3	5369433.0	358028.0	2
5451992.0	336045.0	3	5397659.0	330143.0	1	5371475.0	358062.0	3
5450704.0	336932.0	3	5392432.0	330482.0	1	5371464.0	358085.0	1
5451137.0	337272.0	1	5402452.0	331057.0	3	5369236.0	358105.0	1
5451043.0	337624.0	2	5402231.0	331391.0	2	5367129.0	358112.0	1
5452135.0	338951.0	1	5388006.0	331435.0	1	5366688.0	358166.0	1
5436130.0	339911.0	1	5398953.0	331479.0	2	5369525.0	358232.0	1
5452228.0	340044.0	3	5386103.0	331481.0	1	5367382.0	358408.0	1
5447022.0	342311.0	1	5382982.0	331737.0	1	5366839.0	358805.0	1
5450834.0	342647.0	1	5399322.0	331793.0	1	5368301.0	358822.0	1
5446410.0	344159.0	1	5385081.0	331849.0	1	5368713.0	359210.0	1
5446862.0	345086.0	1	5396175.0	332184.0	1	5367520.0	359225.0	1
5441827.0	345475.0	1	5375323.0	333597.0	1	5369527.0	359302.0	1
5451410.0	345873.0	1	5375343.0	333794.0	1	5367862.0	359755.0	1
5451009.0	347376.0	1	5376302.0	335468.0	1	5349423.0	359812.0	2
5458945.0	347384.0	1	5390428.0	336496.0	1	5348994.0	360171.0	2
5454203.0	349485.0	5	5385081.0	336796.0	2	5357592.0	360186.0	1
5442633.0	350090.0	1	5375168.0	336927.0	1	5357686.0	360430.0	1
5454319.0	350299.0	1	5386447.0	337389.0	1	5357914.0	360623.0	1
5436090.0	350485.0	1	5386217.0	337780.0	2	5374397.0	361058.0	2
5442078.0	350732.0	1	5378092.0	338032.0	1	5349095.0	361135.0	2
5442303.0	350886.0	1	5394220.0	339445.0	2	5353520.0	361519.0	1
5436810.0	351266.0	1	5378846.0	339823.0	1	5374470.0	361824.0	5
5436553.0	351299.0	1	5390983.0	340219.0	2	5374345.0	361862.0	1
5451987.0	351776.0	1	5391175.0	340313.0	2	5349130.0	362213.0	2
5442240.0	352067.0	1	5379853.0	340693.0	4	5349001.0	362269.0	2
5434730.0	353090.0	1	5388927.0	340850.0	1	5357202.0	362293.0	2
5434592.0	353600.0	1	5379418.0	341069.0	1	5353150.0	362397.0	1
5434208.0	353932.0	1	5390553.0	341208.0	2	5353017.0	362402.0	1
5435803.0	354092.0	1	5378933.0	341575.0	1	5352869.0	362781.0	1
5433915.0	354263.0	1	5387800.0	342044.0	2	5356352.0	362793.0	1
5434274.0	354979.0	3	5380234.0	342704.0	1	5351508.0	363860.0	1
5434731.0	355068.0	1	5389657.0	342786.0	1	5351649.0	363975.0	2
5434207.0	355185.0	2	5379305.0	342833.0	1	5349664.0	364294.0	1
5435565.0	355597.0	1	5383792.0	342860.0	5	5350187.0	365134.0	1
5449055.0	355971.0	1	5380334.0	342913.0	1	5349700.0	378161.0	1
5449695.0	356355.0	1	5382798.0	343723.0	4	5349999.0	378629.0	1
5451373.0	356389.0	2	5376332.0	344922.0	1	5351458.0	378774.0	1
5432855.0	356667.0	1	5379715.0	345036.0	3	5352484.0	379453.0	1
5451388.0	357567.0	1	5380891.0	345193.0	2	5350586.0	380052.0	1
5449410.0	358067.0	2	5376740.0	349164.0	1	5351704.0	380587.0	1
5451826.0	358389.0	2	5421962.0	315271.0	1	5352217.0	380866.0	1
5430990.0	359173.0	1	5426674.0	320742.0	1	5349388.0	383496.0	1
5455929.0	360169.0	2	5423006.0	324588.0	4	5350511.0	384079.0	1
5446301.0	360966.0	1	5415744.0	323576.0	1	5351185.0	384135.0	1
5447272.0	361014.0	1	5412636.0	323775.0	1			
5449611.0	364670.0	2	5417033.0	325526.0	1			
5443590.0	364854.0	1	5403578.0	326940.0	1			
5447136.0	366439.0	1	5424453.0	330080.0	1			
5446981.0	366461.0	1	5420538.0	331886.0	2			
5442334.0	369460.0	2	5409850.0	336911.0	4			
5436963.0	373396.0	1	5409635.0	337280.0	2			
5435842.0	376254.0	1	5409374.0	337415.0	2			
5454502.0	376326.0	2	5430001.0	340633.0	3			
5450339.0	379235.0	2	5429154.0	341117.0	1			
5433392.0	380391.0	1	5429149.0	374118.0	1			
5432134.0	380464.0	1	5426480.0	389142.0	2			
5441548.0	384097.0	2	5427874.0	391013.0	1			
5441458.0	384325.0	2	5426409.0	394667.0	2			
5442365.0	389210.0	2	5425698.0	397062.0	2			
5432744.0	389771.0	2	5423720.0	397064.0	1			
5458128.0	392380.0	1	5416519.0	398611.0	2			
5434510.0	392768.0	3	5430642.0	399153.0	2			
5436982.0	393281.0	2	5430102.0	399405.0	1			
5433099.0	400911.0	1	5427011.0	401768.0	1			
5434775.0	401567.0	1	5415790.0	404972.0	1			
5440083.0	405058.0	1	5423303.0	405314.0	1			
5441523.0	410440.0	1	5429682.0	406757.0	1			
5438413.0	411705.0	2	5426505.0	408097.0	1			
5442774.0	411930.0	1	5423302.0	408099.0	1			
5444297.0	412192.0	2	5426882.0	409397.0	1			
5441522.0	412207.0	2	5430487.0	409485.0	2			
5442885.0	412639.0	1	5430181.0	409653.0	4			
5443899.0	412677.0	2	5430352.0	409691.0	1			
5441508.0	412952.0	2	5430495.0	409709.0	1			
			5429885.0	409726.0	1			

384 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5451373.0	356389.0	1	5423720.0	397064.0	1	5390428.0	336496.0	1
5481113.0	322105.0	1	5432855.0	356667.0	1	5416519.0	398611.0	1	5385081.0	336796.0	1
5479572.0	331886.0	1	5451388.0	357567.0	1	5430269.0	398796.0	1	5375148.0	336927.0	1
5475922.0	335447.0	1	5449410.0	358067.0	2	5430662.0	399153.0	1	5384447.0	337389.0	1
5459402.0	337736.0	1	5451826.0	358389.0	1	5430102.0	399605.0	1	5384217.0	337780.0	1
5467571.0	340881.0	1	5430990.0	359173.0	1	5427011.0	401768.0	1	5378092.0	338032.0	1
5474444.0	347009.0	1	5455929.0	360169.0	1	5415790.0	404972.0	1	5378180.0	338546.0	1
5473650.0	349507.0	1	5446301.0	360966.0	1	5423303.0	405314.0	1	5391175.0	340313.0	1
5468561.0	349937.0	1	5447272.0	361014.0	1	5429682.0	406757.0	1	5387800.0	342044.0	1
5472558.0	351284.0	1	5449611.0	364670.0	1	5426505.0	408097.0	1	5389657.0	342786.0	1
5471064.0	351629.0	1	5443590.0	364854.0	1	5423302.0	409009.0	1	5383792.0	342860.0	2
5459857.0	361132.0	1	5447136.0	366439.0	1	5404210.0	409043.0	1	5382798.0	343723.0	1
5465185.0	372949.0	1	5444981.0	366461.0	1	5426882.0	409397.0	1	5374332.0	344922.0	3
5469784.0	377853.0	1	5437584.0	368718.0	1	5430487.0	409485.0	5	5379715.0	345036.0	1
5448041.0	380101.0	1	5444981.0	368883.0	1	5430352.0	409491.0	1	5380891.0	345193.0	1
5468186.0	380135.0	1	5435885.0	369404.0	1	5430495.0	409709.0	1	5376740.0	349166.0	2
5442861.0	389678.0	1	5434886.0	369452.0	1	5429885.0	409726.0	1	5387620.0	341438.0	1
5451537.0	313504.0	1	5442334.0	369460.0	1	5428647.0	409806.0	3	5387092.0	346031.0	1
5447409.0	313716.0	1	5440257.0	370847.0	3	5426106.0	409977.0	4	5386905.0	345511.0	1
5444461.0	314955.0	1	5440039.0	371487.0	1	5426023.0	409997.0	1	5392340.0	34742.0	1
5446056.0	315685.0	1	5437549.0	371581.0	1	5427148.0	410000.0	3	5392030.0	348240.0	1
5434454.0	319012.0	1	5438564.0	371897.0	4	5426361.0	410026.0	2	5383519.0	370008.0	3
5438449.0	321731.0	1	5437201.0	372051.0	3	5427261.0	410030.0	4	5392201.0	370423.0	1
5454533.0	324594.0	1	5439344.0	372311.0	1	5426310.0	410084.0	2	5378118.0	373138.0	1
5441150.0	325814.0	1	5438841.0	372780.0	1	5426630.0	410183.0	3	5379349.0	373278.0	1
5431413.0	326232.0	1	5438854.0	372822.0	1	5423603.0	410416.0	1	5379185.0	373380.0	1
5431947.0	326771.0	1	5436963.0	373396.0	1	5426392.0	410989.0	1	5400693.0	406472.0	1
5440049.0	327125.0	1	5435842.0	374254.0	1	5421592.0	412241.0	1	5401327.0	407113.0	1
5439540.0	327246.0	1	5454502.0	374326.0	1	5430387.0	412331.0	2	5401979.0	408894.0	1
5439356.0	327546.0	1	5434564.0	379223.0	1	5405016.0	412576.0	1	5402256.0	408919.0	1
5441299.0	328773.0	1	5450339.0	379235.0	1	5404841.0	412672.0	1	5400310.0	410187.0	1
5442434.0	329097.0	1	5433392.0	380391.0	3	5422013.0	412942.0	1	5400874.0	410602.0	1
5445226.0	330429.0	1	5432134.0	380444.0	1	5422333.0	412946.0	1	5400887.0	411374.0	1
5446908.0	330831.0	1	5441548.0	384097.0	1	5418363.0	413144.0	1	5401756.0	413419.0	1
5438043.0	331295.0	1	5441458.0	384325.0	1	5419548.0	413718.0	1	5373286.0	434777.0	1
5444540.0	331325.0	1	5432877.0	388582.0	1	5419087.0	414100.0	1	5373202.0	434812.0	1
5444311.0	334787.0	1	5442365.0	389210.0	1	5417821.0	414127.0	1	5372021.0	434826.0	1
5443364.0	335054.0	1	5432744.0	389771.0	1	5426899.0	414227.0	1	5369010.0	437526.0	1
5433139.0	335054.0	1	5458128.0	392380.0	1	5419487.0	414393.0	1	5371786.0	437540.0	1
5444819.0	335238.0	4	5434510.0	392768.0	1	5422930.0	414407.0	1	5368877.0	439000.0	1
5433212.0	335506.0	1	5437497.0	393272.0	1	5400557.0	423294.0	1	5371185.0	439002.0	1
5447274.0	335545.0	1	5436982.0	393281.0	1	5401117.0	423316.0	1	5366434.0	439900.0	1
5445418.0	335585.0	1	5451086.0	395840.0	1	5400516.0	423604.0	2	5366807.0	440302.0	1
5440255.0	335909.0	1	5454999.0	396200.0	1	5395130.0	423704.0	1	5366927.0	440327.0	1
5440458.0	335914.0	1	5433099.0	400911.0	1	5396405.0	423707.0	1	5374229.0	440634.0	1
5440594.0	335962.0	1	5440049.0	400920.0	1	5395008.0	423759.0	1	5365712.0	440867.0	1
5440346.0	335993.0	1	5434775.0	401567.0	1	5394139.0	424097.0	1	5370202.0	441418.0	1
5451992.0	336045.0	1	5437750.0	402396.0	1	5393733.0	424300.0	1	5366496.0	442291.0	1
5451509.0	336331.0	1	5431684.0	402407.0	1	5392685.0	424406.0	1	5367923.0	444843.0	2
5451277.0	336495.0	1	542617.0	402617.0	1	5393869.0	424623.0	1	5367941.0	444144.0	1
5450704.0	336932.0	1	5441533.0	402965.0	1	5396336.0	424700.0	4	5373272.0	444984.0	1
5451137.0	337272.0	1	5437117.0	404314.0	1	5397278.0	424806.0	1	5366316.0	447243.0	1
5451043.0	337624.0	1	5435137.0	404722.0	1	5401295.0	424894.0	1	5370730.0	447892.0	1
5452135.0	338951.0	1	5436977.0	404731.0	1	5395424.0	425030.0	1	5371444.0	448085.0	1
5436130.0	339911.0	1	5440083.0	405058.0	1	5395582.0	425111.0	1	5369236.0	448105.0	1
5452228.0	340044.0	1	545105.0	405105.0	1	5398500.0	425402.0	1	5367129.0	448112.0	1
5444457.0	340670.0	1	5439970.0	405112.0	1	5399550.0	425444.0	1	5366688.0	448144.0	1
5447058.0	342227.0	1	545405.0	405405.0	1	5400683.0	425449.0	1	5369525.0	448232.0	1
5447022.0	342311.0	4	5433276.0	405733.0	1	5395510.0	425458.0	1	5366839.0	448805.0	1
5450834.0	342647.0	2	5439356.0	405748.0	1	5398242.0	425493.0	1	5368301.0	448822.0	1
5438446.0	343295.0	1	5437453.0	406599.0	1	5400964.0	426278.0	1	5368713.0	449210.0	1
5435999.0	343566.0	2	5442105.0	408201.0	1	5400726.0	426279.0	1	5367520.0	449225.0	1
5446410.0	344159.0	1	5442586.0	409262.0	1	5394799.0	426344.0	1	5369527.0	449302.0	1
5446862.0	345086.0	1	5443327.0	409891.0	1	5400727.0	426629.0	1	5367862.0	449755.0	1
5441827.0	345475.0	1	5434114.0	410170.0	1	5398854.0	426696.0	1	5349422.0	449810.0	3
5451410.0	345873.0	1	5441523.0	410440.0	1	5395205.0	426787.0	1	5349423.0	449812.0	2
5442598.0	347160.0	1	5434472.0	410455.0	1	5387959.0	426792.0	1	5348994.0	450171.0	2
5451009.0	347376.0	1	411705.0	411705.0	1	5387818.0	427021.0	1	5357592.0	450186.0	1
5458545.0	347384.0	1	5442774.0	411930.0	1	5399699.0	427827.0	2	5357686.0	450430.0	1
5442850.0	348264.0	1	5444297.0	412192.0	1	5381013.0	428096.0	2	5357914.0	450623.0	1
5452584.0	348323.0	6	5441522.0	412207.0	1	5393455.0	428102.0	1	5374397.0	451058.0	1
5442561.0	348788.0	1	5442885.0	412639.0	1	5380840.0	428790.0	1	5349095.0	451135.0	2
5454203.0	349485.0	5	5443899.0	412677.0	1	5396847.0	428797.0	1	5353520.0	451519.0	1
5442633.0	350090.0	1	5441508.0	412952.0	1	5395390.0	428823.0	1	5374470.0	451824.0	7
5454319.0	350299.0	1	5421962.0	413271.0	1	5380748.0	429272.0	1	5374345.0	451862.0	3
5436090.0	350485.0	1	5414141.0	417014.0	1	5384385.0	429722.0	2	5349130.0	452213.0	1
5442078.0	350732.0	1	5426674.0	420742.0	1	5379833.0	429775.0	1	5349001.0	452269.0	1
5442303.0	350886.0	1	5423006.0	422458.0	1	5391242.0	429907.0	1	5357202.0	452293.0	1
5452647.0	351160.0	1	5415744.0	423576.0	1	5397435.0	429922.0	1	5353150.0	452397.0	1
5436810.0	351266.0	1	5412636.0	423775.0	1	5397372.0	430069.0	1	5353017.0	452402.0	1
5448034.0	351276.0	1	5417033.0	425526.0	1	5402584.0	430108.0	2	5352849.0	452781.0	1
5454553.0	351299.0	1	5403578.0	426940.0	1	5397659.0	430143.0	2	5356352.0	452793.0	1
5449924.0	351680.0	2	5424453.0	430080.0	1	5392432.0	430482.0	1	5351508.0	453860.0	1
5451987.0	351776.0	1	5420538.0	431886.0	1	5402452.0	431057.0	2	5351649.0	453975.0	2
5442240.0	352067.0	1	5430001.0	436033.0	1	5402231.0	431391.0	1	5349664.0	454294.0	1
5447456.0	352079.0	1	5421117.0	436117.0	1	5388006.0	431435.0	1	5350187.0	454334.0	1
5436730.0	353090.0	1	5427534.0	437408.0	1	5398953.0	431479.0	1	5349700.0	454761.0	1
5434592.0	353400.0	1	5429149.0	437418.0	3	5386103.0	431481.0	1	5349999.0	454782.0	1
5434208.0	353932.0	1	5429110.0	437509.0							

TIN (ppm)

304 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5449410.0	358067.0	1	5423303.0	405314.0	1	5375168.0	336927.0	1
5481113.0	322105.0	1	5451826.0	358389.0	1	5429682.0	406757.0	1	5384447.0	337389.0	1
5479572.0	331884.0	1	5430990.0	359173.0	1	5424505.0	408097.0	1	5386217.0	337800.0	1
5475922.0	335647.0	1	5455929.0	360169.0	2	5423302.0	409009.0	1	5378092.0	338032.0	1
5459402.0	337736.0	1	5446301.0	360946.0	1	5426882.0	409397.0	1	5379180.0	338546.0	1
5447571.0	340881.0	3	5447272.0	361014.0	1	5430487.0	409485.0	1	5394220.0	339445.0	1
5473650.0	349507.0	3	5449611.0	364670.0	1	5430181.0	409653.0	1	5378844.0	339823.0	1
5468561.0	349937.0	1	5443590.0	364854.0	1	5430352.0	409691.0	1	5390983.0	340219.0	3
5472558.0	351284.0	2	5447136.0	364639.0	1	5430495.0	409709.0	1	5391175.0	340313.0	3
5471064.0	351629.0	2	5446981.0	364661.0	1	5429885.0	409726.0	1	5379853.0	340693.0	1
5459857.0	361132.0	3	5437584.0	368718.0	1	5428667.0	409806.0	1	5388927.0	340850.0	1
5465185.0	372949.0	1	5437549.0	368883.0	1	5426106.0	409977.0	1	5379418.0	341069.0	1
5442861.0	309678.0	1	5435885.0	369404.0	1	5427148.0	410000.0	1	5390553.0	341208.0	1
5451537.0	313504.0	1	5436886.0	369452.0	1	5426361.0	410026.0	1	5378933.0	341575.0	1
5446461.0	314955.0	1	5442334.0	369460.0	1	5427261.0	410030.0	1	5387800.0	342044.0	2
5446054.0	315685.0	1	5440257.0	370847.0	3	5426310.0	410084.0	1	5380334.0	342076.0	1
5436456.0	319012.0	1	5440039.0	371487.0	1	5426630.0	410183.0	1	5389657.0	342833.0	1
5438449.0	321731.0	1	5439926.0	371581.0	1	5426403.0	410416.0	1	5379305.0	342860.0	1
5454533.0	324594.0	1	5438564.0	371897.0	3	5421582.0	412241.0	1	5383792.0	342913.0	3
5441150.0	325814.0	1	5438954.0	372051.0	1	5430387.0	412331.0	1	5380334.0	343723.0	3
5431413.0	326232.0	1	5439344.0	372311.0	1	5425013.0	412942.0	1	5382798.0	344922.0	3
5431947.0	326721.0	1	5438854.0	372822.0	1	5422333.0	412946.0	1	5376332.0	345036.0	3
5440069.0	327125.0	1	5436943.0	373396.0	1	5418363.0	413146.0	1	5380891.0	345193.0	3
5439540.0	327246.0	1	5435842.0	374254.0	1	5419548.0	413718.0	2	5376740.0	349166.0	1
5439356.0	327546.0	1	5454502.0	376326.0	1	5419087.0	414100.0	1	5373286.0	349812.0	1
5441299.0	328773.0	1	5434564.0	379223.0	1	5417821.0	414127.0	1	5373202.0	349812.0	1
5442434.0	329097.0	1	5433392.0	380391.0	1	5426899.0	414227.0	1	5372021.0	349812.0	1
5445226.0	330429.0	2	5432134.0	380464.0	1	5419487.0	414393.0	2	5369010.0	349812.0	1
5444908.0	330831.0	2	5432744.0	389771.0	1	5422930.0	414407.0	1	5371786.0	349812.0	1
5438043.0	331295.0	1	5434510.0	392768.0	1	5400557.0	414407.0	1	5368877.0	349812.0	1
5444540.0	331325.0	1	5436982.0	393281.0	1	5401117.0	414407.0	1	5371885.0	349812.0	1
5432721.0	331447.0	1	5454999.0	396200.0	1	5400516.0	414407.0	1	5366434.0	349812.0	2
5444311.0	334787.0	1	5433099.0	400911.0	1	5394405.0	414407.0	1	5368807.0	349812.0	1
5443364.0	335054.0	1	5434775.0	401567.0	1	5395008.0	414407.0	1	5366927.0	349812.0	1
5444819.0	335238.0	1	5437750.0	402396.0	1	5394139.0	414407.0	1	5374229.0	349812.0	1
5433212.0	335506.0	1	5431684.0	402407.0	1	5393733.0	414407.0	1	5365712.0	349812.0	1
5440255.0	335909.0	1	5434723.0	402617.0	1	5392685.0	414407.0	1	5370202.0	349812.0	1
5440458.0	335914.0	1	5441533.0	402965.0	2	5393869.0	414407.0	1	5366496.0	349812.0	2
5440596.0	335962.0	1	5437117.0	403144.0	1	5393536.0	414407.0	1	5367823.0	349812.0	1
5440346.0	335993.0	1	5435137.0	404722.0	1	5392728.0	414407.0	1	5367941.0	349812.0	1
5451992.0	336045.0	1	5436977.0	404731.0	1	5401295.0	414407.0	1	5373272.0	349812.0	3
5451509.0	336331.0	1	5440083.0	405058.0	1	5395424.0	414407.0	1	5366316.0	349812.0	1
5451277.0	336495.0	1	5439962.0	405105.0	1	5395582.0	414407.0	1	5370730.0	349812.0	1
5450704.0	336932.0	1	5439970.0	405112.0	1	5395500.0	414407.0	1	5368077.0	349812.0	1
5451137.0	337272.0	1	5439623.0	405405.0	1	5395550.0	414407.0	1	5366927.0	349812.0	1
5451043.0	337624.0	1	5433276.0	405733.0	1	5400683.0	414407.0	1	5374229.0	349812.0	1
5452135.0	338951.0	1	5437453.0	406599.0	1	5395510.0	414407.0	1	5365712.0	349812.0	1
5436130.0	339911.0	1	5442105.0	408201.0	1	5395242.0	414407.0	1	5369236.0	349812.0	3
5452228.0	340044.0	1	5442586.0	409262.0	2	5400964.0	414407.0	1	5369525.0	349812.0	1
5444457.0	340670.0	1	5443327.0	409891.0	1	5400726.0	414407.0	1	5368397.0	349812.0	3
5447022.0	342311.0	1	5434114.0	410170.0	1	5394799.0	414407.0	1	5368301.0	349812.0	1
5450834.0	342647.0	1	5441523.0	410440.0	1	5400727.0	414407.0	1	5368713.0	349812.0	1
5438446.0	343295.0	1	5434472.0	410455.0	1	5398854.0	414407.0	1	5367520.0	349812.0	1
5435999.0	343566.0	1	5438413.0	411705.0	1	5395205.0	414407.0	1	5369527.0	349812.0	1
5446410.0	344159.0	1	5442774.0	411930.0	1	5387959.0	414407.0	1	5367862.0	349812.0	1
5446862.0	345086.0	1	5444297.0	412192.0	1	5387818.0	414407.0	1	5349423.0	349812.0	1
5441827.0	345475.0	1	5441522.0	412207.0	1	5396999.0	414407.0	1	5348994.0	349812.0	1
5451410.0	345873.0	1	5442885.0	412639.0	1	5391013.0	414407.0	1	5357592.0	349812.0	1
5442598.0	347160.0	1	5443899.0	412677.0	1	5393655.0	414407.0	1	5357486.0	349812.0	2
5451009.0	347376.0	1	5441508.0	412952.0	1	5390840.0	414407.0	1	5357914.0	349812.0	2
5458545.0	347384.0	1	5421962.0	415271.0	1	5396847.0	414407.0	1	5374397.0	349812.0	3
5442850.0	348264.0	1	5426674.0	420742.0	1	5395390.0	414407.0	1	5349095.0	349812.0	1
5442561.0	348788.0	1	5423006.0	422458.0	1	5380748.0	414407.0	1	5353520.0	349812.0	1
5442633.0	350090.0	1	5415744.0	423576.0	1	5384385.0	414407.0	1	5374470.0	349812.0	3
5454319.0	350299.0	1	5412636.0	423775.0	1	5379833.0	414407.0	1	5374345.0	349812.0	1
5436090.0	350485.0	1	5417033.0	425526.0	1	5391262.0	414407.0	1	5349130.0	349812.0	1
5442078.0	350732.0	1	5403578.0	426940.0	1	5397435.0	414407.0	1	5349001.0	349812.0	1
5442303.0	350886.0	1	5424453.0	430080.0	1	5397372.0	414407.0	1	5357202.0	349812.0	3
5436810.0	351266.0	1	5420538.0	431886.0	1	5402584.0	414407.0	1	5353150.0	349812.0	1
5448036.0	351276.0	1	5409850.0	436911.0	1	5397659.0	414407.0	1	5353017.0	349812.0	1
5436553.0	351299.0	1	5409635.0	437280.0	3	5392432.0	414407.0	1	5352869.0	349812.0	1
5442240.0	352067.0	1	5409374.0	437415.0	2	5402452.0	414407.0	1	5356352.0	349812.0	1
5447456.0	352079.0	1	5430001.0	438633.0	1	5402231.0	414407.0	1	5351508.0	349812.0	1
5434730.0	353090.0	1	5429154.0	438117.0	1	5388006.0	414407.0	1	5351649.0	349812.0	3
5434592.0	353600.0	1	5429149.0	438118.0	1	5398953.0	414407.0	1	5349644.0	349812.0	1
5434208.0	353932.0	1	5429110.0	438094.0	3	5386103.0	414407.0	1	5350187.0	349812.0	1
5435803.0	354092.0	1	5426480.0	438142.0	1	5382982.0	414407.0	1	5349700.0	349812.0	1
5433915.0	354263.0	1	5427874.0	438103.0	1	5399322.0	414407.0	1	5349999.0	349812.0	2
5434274.0	354979.0	1	5426409.0	438667.0	1	5385081.0	414407.0	1	5351458.0	349812.0	1
5434731.0	355068.0	1	5425698.0	438706.0	1	5396175.0	414407.0	1	5352484.0	349812.0	1
5434207.0	355185.0	1	5423720.0	438706.0	1	5375323.0	414407.0	1	5350584.0	349812.0	3
5435565.0	355597.0	1	5416519.0	438811.0	1	5375343.0	414407.0	1	5351704.0	349812.0	1
5449055.0	355971.0	1	5430269.0	438796.0	1	5380017.0	414407.0	1	5352217.0	349812.0	1
5449695.0	356355.0	1	5430662.0	439153.0	1	5376302.0	414407.0	1	5349380.0	349812.0	1
5451373.0	356389.0	1	5430102.0	439605.0	1	5370428.0	414407.0	1	5350511.0	349812.0	1
5432855.0	356667.0	1	5427011.0	401768.0	1	5385081.0	414407.0	1	5351185.0	349812.0	1
5451388.0	357567.0	1	5415790.0	404972.0	1						

ARSENIC (ppm)

346 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5405189.0	327580.0	3	5397195.0	324869.0	4	5395428.0	327695.0	3
5481113.0	322105.0	1	5404798.0	327610.0	1	5401295.0	324894.0	1	5399699.0	327827.0	1
5479572.0	331886.0	1	5409850.0	336911.0	3	5398365.0	324916.0	1	5382963.0	327883.0	4
5475922.0	335647.0	1	5409635.0	337280.0	3	5391557.0	324921.0	3	5383127.0	327936.0	1
5459402.0	337736.0	1	5409374.0	337415.0	2	5401014.0	324936.0	4	5384346.0	327958.0	4
5467571.0	340881.0	1	5430001.0	360633.0	1	5395424.0	325030.0	4	5393428.0	327985.0	1
5473650.0	349507.0	1	5429154.0	361117.0	1	5397001.0	325048.0	5	5385573.0	328009.0	5
5468561.0	349937.0	1	5423720.0	397064.0	1	5395202.0	325080.0	4	5390755.0	328017.0	1
5472558.0	351284.0	1	5416519.0	398611.0	1	5398978.0	325108.0	1	5383252.0	328028.0	6
5471064.0	351629.0	1	5401809.0	319866.0	4	5395582.0	325111.0	1	5383944.0	328050.0	1
5465135.0	372949.0	1	5401770.0	319887.0	2	5391848.0	325128.0	4	5393418.0	328057.0	3
5454533.0	324594.0	1	5401981.0	319892.0	3	5401108.0	325129.0	4	5381013.0	328096.0	1
5441827.0	345475.0	1	5402153.0	320072.0	1	5391006.0	325288.0	5	5382984.0	328097.0	1
5458545.0	347384.0	1	5402365.0	320392.0	1	5395916.0	325361.0	5	5393655.0	328102.0	1
5442633.0	350090.0	1	5402916.0	321312.0	4	5399449.0	325387.0	1	5384229.0	328279.0	1
5454319.0	350299.0	1	5402007.0	321341.0	4	5395633.0	325389.0	4	5380712.0	328294.0	4
5436090.0	350485.0	1	5400154.0	321639.0	1	5398500.0	325402.0	1	5386987.0	328315.0	1
5442078.0	350732.0	1	5400369.0	321971.0	1	5398128.0	325410.0	1	5384953.0	328402.0	6
5443303.0	350886.0	1	5401960.0	322100.0	5	5399550.0	325444.0	1	5380033.0	328468.0	4
5436810.0	351266.0	1	5400515.0	322156.0	1	5400683.0	325449.0	1	5380493.0	328480.0	4
5436553.0	351399.0	1	5400621.0	322445.0	1	5399184.0	325458.0	3	5382271.0	328494.0	4
5442240.0	352067.0	1	5399956.0	322511.0	6	5395510.0	325458.0	1	5380436.0	328519.0	5
5434730.0	353090.0	1	5401187.0	322530.0	1	5398242.0	325493.0	1	5395041.0	328687.0	3
5434592.0	353400.0	1	5401186.0	322535.0	2	5397945.0	325566.0	1	5380598.0	328736.0	3
5434208.0	353932.0	1	5399774.0	322580.0	1	5391182.0	325566.0	4	5380840.0	328790.0	5
5435803.0	354092.0	1	5401989.0	322598.0	4	5395684.0	325651.0	1	5396847.0	328797.0	1
5433915.0	354263.0	1	5399218.0	322847.0	1	5395298.0	325821.0	1	5382369.0	328810.0	5
5435565.0	355597.0	1	5400872.0	322878.0	1	5387904.0	325846.0	4	5395390.0	328823.0	2
5430990.0	359173.0	1	5399965.0	322941.0	1	5390725.0	325930.0	4	5383989.0	328832.0	4
5451086.0	395840.0	1	5399381.0	322965.0	1	5388323.0	325949.0	1	5380816.0	328970.0	3
5421962.0	315271.0	1	5399776.0	323060.0	4	5394373.0	325972.0	5	5379587.0	328884.0	2
5413932.0	315674.0	1	5399069.0	323178.0	1	5394373.0	325972.0	1	5385685.0	328888.0	3
5414141.0	317014.0	4	5400925.0	323180.0	1	5397519.0	325985.0	1	5383148.0	328915.0	6
5412710.0	317015.0	5	5399805.0	323236.0	1	5387603.0	326001.0	3	5385053.0	328941.0	4
5409409.0	317069.0	2	5396811.0	323258.0	1	5392599.0	326140.0	1	5380143.0	328944.0	1
5414177.0	317092.0	1	5400557.0	323294.0	5	5392930.0	326193.0	1	5385930.0	329226.0	3
5409107.0	317279.0	1	5401125.0	323299.0	4	5388772.0	326208.0	6	5380524.0	329229.0	4
5412592.0	317410.0	1	5401117.0	323316.0	1	5388954.0	326231.0	2	5380748.0	329272.0	1
5414074.0	317467.0	1	5397088.0	323318.0	1	5387888.0	326242.0	3	5380834.0	329314.0	5
5408991.0	317706.0	1	5398828.0	323375.0	3	5396211.0	326244.0	2	5384648.0	329317.0	1
5405788.0	317910.0	4	5400856.0	323405.0	1	5400964.0	326278.0	1	5384178.0	329320.0	1
5412258.0	317931.0	1	5400225.0	323422.0	1	5400726.0	326279.0	1	5391299.0	329323.0	5
5408250.0	318263.0	1	5400516.0	323606.0	1	5394792.0	326303.0	4	5393167.0	329345.0	4
5412304.0	318298.0	3	5398823.0	323683.0	5	5392241.0	326311.0	3	5380645.0	329359.0	3
5405760.0	318351.0	1	5399201.0	323685.0	1	5394079.0	326333.0	1	5384750.0	329434.0	1
5409316.0	318572.0	1	5395130.0	323704.0	1	5394799.0	326344.0	1	5383745.0	329482.0	4
5408483.0	319595.0	1	5396405.0	323707.0	1	5386882.0	326360.0	6	5388454.0	329512.0	1
5405937.0	318621.0	1	5399231.0	323746.0	1	5397663.0	326413.0	1	5384964.0	329628.0	4
5414251.0	318626.0	1	5400432.0	323752.0	5	5387987.0	326572.0	1	5379966.0	329701.0	3
5409222.0	318717.0	1	5395008.0	323759.0	2	5400727.0	326629.0	1	5397087.0	329713.0	1
5408239.0	318733.0	1	5398942.0	323817.0	5	5392577.0	326635.0	1	5384385.0	329722.0	1
5409390.0	319144.0	1	5398660.0	323855.0	6	5385517.0	326637.0	5	5383492.0	329731.0	2
5409191.0	319156.0	1	5394139.0	324097.0	1	5398854.0	326696.0	1	5393608.0	329787.0	1
5406260.0	319176.0	1	5400612.0	324133.0	1	5392831.0	326708.0	1	5397983.0	329785.0	3
5409163.0	319468.0	1	5399719.0	324149.0	1	5387076.0	326779.0	3	5391262.0	329967.0	1
5406357.0	319944.0	1	5395336.0	324169.0	5	5395205.0	326787.0	1	5397435.0	329922.0	1
5426674.0	320742.0	1	5396216.0	324187.0	1	5387959.0	326792.0	3	5398145.0	329975.0	1
5403750.0	320917.0	1	5399688.0	324227.0	1	5387616.0	326815.0	1	5373286.0	334777.0	3
5402916.0	321312.0	4	5395026.0	324229.0	4	5395236.0	326822.0	4	5373202.0	334812.0	1
5403993.0	322817.0	3	5400189.0	324236.0	4	5384784.0	326840.0	5	5370995.0	335639.0	2
5423006.0	322458.0	1	5394613.0	324258.0	3	5381734.0	326841.0	1	5372021.0	336826.0	4
5403016.0	322476.0	1	5394290.0	324271.0	1	5380421.0	326912.0	3	5369010.0	337526.0	4
5404192.0	323244.0	3	5399044.0	324275.0	1	5390834.0	326987.0	1	5371784.0	337540.0	5
5403204.0	323388.0	2	5396936.0	324283.0	1	5387142.0	326989.0	1	5368877.0	339000.0	3
5415744.0	323576.0	1	5393733.0	324300.0	2	5387818.0	327021.0	1	5371185.0	339002.0	1
5412636.0	323775.0	1	5392685.0	324406.0	2	5380841.0	327078.0	5	5366434.0	339900.0	6
5404769.0	324388.0	4	5398539.0	324602.0	2	5396693.0	327114.0	1	5366807.0	340302.0	1
5404994.0	324482.0	1	5393869.0	324623.0	1	5382742.0	327136.0	3	5366927.0	340327.0	1
5404939.0	324650.0	4	5393689.0	324635.0	1	5383592.0	327231.0	4	5374229.0	340634.0	1
5417033.0	325526.0	1	5398384.0	324646.0	2	5381091.0	327448.0	3	5365712.0	340847.0	1
5405127.0	325621.0	4	5398484.0	324657.0	4	5395090.0	327478.0	4	5370202.0	341618.0	4
5405474.0	325967.0	3	5392316.0	324689.0	2	5383429.0	327575.0	4	5366494.0	342291.0	5
5405735.0	326425.0	3	5396336.0	324700.0	1	5383444.0	327588.0	6	5373272.0	354986.0	2
5405018.0	326571.0	4	5397323.0	324773.0	5	5383323.0	327602.0	4	5374397.0	361058.0	1
5405197.0	326818.0	3	5401341.0	324799.0	4	5381035.0	327662.0	4	5374470.0	361824.0	6
5403578.0	326940.0	1	5397278.0	324804.0	1	5384741.0	327670.0	6	5374345.0	361842.0	1

NICKEL (ppm)

386 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5449495.0	356355.0	1	5423720.0	397044.0	1	5390428.0	336496.0	1
5481113.0	322105.0	1	5451373.0	356389.0	1	5414519.0	398411.0	5	5385081.0	336796.0	4
5479572.0	331886.0	1	5432955.0	356467.0	1	5430249.0	398796.0	2	5375168.0	336927.0	1
5475922.0	335647.0	1	5451388.0	357567.0	1	5410462.0	399153.0	5	5384447.0	337389.0	1
5459402.0	337734.0	3	5449410.0	358067.0	1	5410102.0	399405.0	4	5384217.0	337780.0	3
5467571.0	340881.0	5	5451826.0	358389.0	2	5427011.0	401768.0	1	5378092.0	338032.0	1
5476464.0	347009.0	1	5430990.0	359173.0	1	5415290.0	404972.0	5	5378180.0	338546.0	1
5473650.0	349507.0	4	5455929.0	360169.0	3	5423303.0	405314.0	1	5391175.0	340313.0	3
5468561.0	349937.0	3	5446301.0	360966.0	1	5429682.0	406757.0	1	5387900.0	342044.0	4
5472558.0	351284.0	3	5447272.0	361014.0	1	5426505.0	408097.0	1	5389657.0	342786.0	4
5471064.0	351629.0	2	5449411.0	364670.0	1	5423302.0	409009.0	1	5383792.0	342860.0	3
5459857.0	361132.0	2	5443590.0	364854.0	1	5404210.0	409043.0	1	5382798.0	343723.0	3
5465185.0	372949.0	1	5447136.0	366439.0	3	5426882.0	409397.0	1	5376332.0	344922.0	1
5469784.0	377853.0	1	5446981.0	366461.0	1	5430487.0	409485.0	1	5377715.0	345036.0	4
5468041.0	380101.0	3	5437584.0	368718.0	4	5430352.0	409491.0	1	5380891.0	345193.0	3
5468186.0	380135.0	3	5437549.0	368883.0	1	5430495.0	409709.0	1	5376740.0	349166.0	1
5442841.0	309678.0	1	5435885.0	369404.0	2	5429885.0	409726.0	1	5387620.0	361438.0	2
5451537.0	313504.0	1	5436886.0	369452.0	1	5428657.0	409804.0	1	5387092.0	364031.0	4
5447409.0	313716.0	1	5442334.0	369460.0	1	5426104.0	409977.0	1	5386695.0	364511.0	2
5446441.0	314955.0	1	5440257.0	370847.0	2	5426023.0	409997.0	1	5392340.0	364742.0	2
5446056.0	315685.0	3	5440039.0	371487.0	2	5427148.0	410000.0	1	5392030.0	368240.0	1
5436456.0	319012.0	1	5439926.0	371581.0	1	5426361.0	410026.0	1	5383519.0	370008.0	1
5438449.0	321731.0	1	5438564.0	371897.0	1	5427241.0	410030.0	1	5392201.0	370423.0	1
5454533.0	324594.0	3	5438954.0	372051.0	2	5426310.0	410084.0	1	5379118.0	373138.0	1
5441150.0	325814.0	1	5439344.0	372311.0	1	5426630.0	410183.0	1	5377349.0	373278.0	2
5431413.0	326232.0	1	5438841.0	372780.0	4	5423603.0	410416.0	1	5379185.0	373398.0	2
5431747.0	326771.0	1	5438854.0	372822.0	3	5426392.0	410989.0	1	5400693.0	406672.0	4
5440069.0	327125.0	2	5436963.0	373396.0	4	5421592.0	412241.0	1	5401327.0	407113.0	2
5439540.0	327246.0	3	5435842.0	376254.0	1	5430387.0	412331.0	1	5401979.0	408894.0	1
5439356.0	327546.0	4	5454502.0	376326.0	5	5405016.0	412576.0	3	5402256.0	408919.0	2
5441299.0	328773.0	5	5434564.0	379233.0	3	5404841.0	412672.0	2	5400310.0	410187.0	4
5442434.0	329097.0	5	5450339.0	379235.0	5	5422013.0	412942.0	1	5400874.0	410602.0	4
5445226.0	330429.0	5	5433392.0	380391.0	1	5422333.0	412946.0	1	5400887.0	411374.0	4
5444908.0	330831.0	4	5432134.0	380464.0	2	5418363.0	413146.0	1	5401756.0	413419.0	2
5438043.0	331295.0	3	5441548.0	384097.0	6	5419548.0	413718.0	2	5373286.0	434777.0	1
5444540.0	331325.0	5	5441458.0	384325.0	3	5417087.0	414100.0	2	5373202.0	434812.0	3
5432721.0	331447.0	1	5432877.0	388582.0	4	5417821.0	414127.0	1	5372021.0	436826.0	2
5444311.0	334787.0	4	5442365.0	389210.0	5	5426899.0	414227.0	3	5369010.0	437526.0	4
5443364.0	335054.0	2	5432744.0	389771.0	5	5419487.0	414393.0	3	5371786.0	437540.0	4
5433139.0	335056.0	1	5458128.0	392380.0	3	5422930.0	414407.0	1	5368877.0	439000.0	2
5444819.0	335238.0	1	5434510.0	392768.0	5	5400557.0	414477.0	1	5371185.0	439002.0	5
5433212.0	335506.0	1	5437497.0	393272.0	5	5401117.0	414707.0	1	5366434.0	439900.0	1
5447274.0	335565.0	5	5436982.0	393281.0	6	5400516.0	414707.0	1	5366807.0	440302.0	1
5445418.0	335585.0	4	5451086.0	395840.0	5	5395130.0	414707.0	1	5366927.0	440327.0	1
5440255.0	335909.0	5	5454999.0	396200.0	5	5396405.0	414707.0	2	5374229.0	440634.0	1
5440458.0	335914.0	5	5433099.0	400911.0	3	5395008.0	414707.0	1	5365712.0	440867.0	1
5440596.0	335962.0	5	5440049.0	400920.0	5	5394139.0	414707.0	1	5370202.0	441618.0	1
5440346.0	335993.0	5	5434775.0	401567.0	2	5393733.0	414707.0	1	5366496.0	442291.0	1
5451992.0	336045.0	5	5437750.0	402396.0	4	5392685.0	414707.0	1	5367823.0	444863.0	1
5451509.0	336131.0	6	5431684.0	402407.0	2	5393869.0	414707.0	1	5367941.0	446144.0	1
5451277.0	336495.0	5	5434723.0	402617.0	2	5396336.0	414707.0	1	5373272.0	449866.0	1
5450704.0	336932.0	3	5441533.0	402965.0	5	5397278.0	414707.0	1	5366316.0	457263.0	2
5451137.0	337272.0	3	5437117.0	404314.0	2	5401295.0	414707.0	1	5370730.0	457892.0	2
5451043.0	337624.0	4	5435137.0	404722.0	2	5395424.0	414707.0	1	5371444.0	458085.0	1
5452135.0	338951.0	5	5436977.0	404731.0	1	5395582.0	414707.0	1	5369236.0	458105.0	2
5436130.0	339911.0	1	5440083.0	405058.0	4	5398500.0	414707.0	1	5367129.0	458112.0	1
5452228.0	340044.0	3	5439942.0	405105.0	2	5399550.0	414707.0	1	5366888.0	458166.0	1
5444457.0	340670.0	2	5439970.0	405112.0	1	5400683.0	414707.0	1	5369525.0	458232.0	1
5447058.0	342227.0	1	5439623.0	405405.0	1	5395510.0	414707.0	2	5366839.0	458805.0	1
5447022.0	342311.0	1	5433276.0	405733.0	4	5398242.0	414707.0	1	5368301.0	458822.0	1
5450834.0	342647.0	1	5439356.0	405748.0	1	5400964.0	414707.0	1	5368713.0	459210.0	1
5438446.0	343295.0	2	5437453.0	406599.0	2	5400726.0	414707.0	1	5367520.0	459225.0	2
5435999.0	343566.0	1	5442105.0	408201.0	3	5394799.0	414707.0	1	5369527.0	459302.0	1
5444410.0	344159.0	1	5442586.0	409262.0	3	5400727.0	414707.0	1	5367862.0	459755.0	1
5446862.0	344506.0	1	5443327.0	409891.0	5	5398854.0	414707.0	1	5369422.0	459810.0	1
5441827.0	345475.0	1	5434114.0	410170.0	2	5395205.0	414707.0	1	5349423.0	459812.0	1
5451410.0	345873.0	1	5441523.0	410440.0	6	5387959.0	414707.0	1	5348994.0	460171.0	1
5442598.0	347160.0	1	5434472.0	410455.0	4	5387818.0	414707.0	1	5357592.0	460186.0	1
5451009.0	347376.0	1	5438413.0	411705.0	4	5399699.0	414707.0	1	5357686.0	460430.0	2
5458545.0	347384.0	1	5442774.0	411930.0	1	5381013.0	414707.0	1	5357914.0	460423.0	2
5442850.0	348264.0	3	5444297.0	412192.0	4	5393655.0	414707.0	1	5374397.0	461058.0	1
5452586.0	348323.0	1	5441522.0	412207.0	4	5380840.0	414707.0	1	5349095.0	461135.0	1
5442561.0	348788.0	1	5442885.0	412639.0	6	5396847.0	414707.0	1	5353520.0	461519.0	1
5454203.0	349485.0	1	5443899.0	412677.0	5	5395390.0	414707.0	1	5374470.0	461824.0	1
5442633.0	350090.0	1	5441508.0	412952.0	5	5380748.0	414707.0	1	5374345.0	461862.0	1
5454319.0	350299.0	1	5421962.0	415271.0	2	5384385.0	414707.0	1	5349130.0	462213.0	1
5436090.0	350485.0	1	5414141.0	417014.0	2	5379833.0	414707.0	1	5349001.0	462269.0	1
5442078.0	350732.0	1	5426674.0	420742.0	1	5391262.0	414707.0	1	5357202.0	462293.0	2
5442303.0	350886.0	1	5423006.0	422458.0	1	5397435.0	414707.0	1	5353130.0	462397.0	1
5452647.0	351160.0	1	5415744.0	423576.0	2	5397372.0	414707.0	1	5353017.0	462402.0	1
5436810.0	351266.0	1	5412636.0	423775.0	2	5402584.0	414707.0	1	5352869.0	462781.0	2
5448036.0	351276.0	1	5417033.0	425526.0	2	5397459.0	414707.0	1	5354352.0	462793.0	4
5436553.0	351299.0	1	5403578.0	426940.0	1	5392432.0	414707.0	1	5351508.0	463860.0	1
5449926.0	351680.0	1	5424453.0	430080.0	1	5402452.0	414707.0	1	5351449.0	463975.0	1
5451987.0	351776.0	1	5420538.0	431886.0	1	5402231.0	414707.0	1	5349444.0	464294.0	1
5442240.0	352067.0	1	5430001.0	436033.0	4	5388004.0	414707.0	1	5350187.0	465134.0	1
5447456.0	352079.0	1	5429154.0	461117.0	3	5398953.0	414707.0	1	5349700.0	465161.0	1
5434730.0	353090.0	1	5427534.0	474086.0	1	5386103.0	414707.0	1	5349999.0	465229.0	2
5434592.0	353400.0	1	5429149.0	474118.0	1	5387982.0					

MOLYBDENUM (ppm)

317 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
549141.0	308850.0	1	5435565.0	355597.0	1	5427874.0	391013.0	1	5396175.0	332184.0	1
5481113.0	322105.0	1	5449055.0	355971.0	1	5426409.0	394667.0	1	5375323.0	333597.0	1
5479572.0	331886.0	1	5449695.0	356355.0	1	5425698.0	397062.0	1	5375343.0	333794.0	1
5475922.0	335647.0	1	5451373.0	356389.0	1	5423720.0	397064.0	1	5380017.0	335100.0	1
5459402.0	337736.0	1	5432855.0	356667.0	1	5416519.0	398611.0	1	5376302.0	335468.0	1
5467571.0	340881.0	1	5451388.0	357567.0	1	5430269.0	398796.0	-	5390428.0	336496.0	1
5473650.0	349507.0	1	5449410.0	358067.0	1	5430662.0	399153.0	1	5385081.0	336796.0	1
5468561.0	349937.0	1	5451826.0	358389.0	1	5430102.0	399605.0	1	5375168.0	336927.0	1
5472558.0	351284.0	1	5430990.0	359173.0	1	5427011.0	401768.0	1	5386447.0	337389.0	1
5471064.0	351629.0	1	5455929.0	360169.0	2	5415790.0	404972.0	1	5386217.0	337780.0	1
5459857.0	361132.0	1	5446301.0	360966.0	1	5423303.0	405314.0	1	5378092.0	338032.0	1
5465185.0	372949.0	1	5447272.0	361014.0	1	5429682.0	406757.0	1	5378180.0	338546.0	1
5442861.0	309678.0	1	5449611.0	364670.0	1	5426505.0	408097.0	1	5394220.0	339445.0	5
5446461.0	314955.0	1	5443590.0	364854.0	1	5423302.0	409009.0	1	5390983.0	340219.0	4
5446056.0	315685.0	3	5447136.0	366439.0	1	5426882.0	409397.0	1	5391175.0	340313.0	1
5436456.0	319012.0	1	5446981.0	366461.0	1	5430487.0	409485.0	1	5388927.0	340850.0	1
5438449.0	321731.0	1	5437584.0	368718.0	1	5430181.0	409653.0	1	5390553.0	341208.0	5
5454533.0	324594.0	1	5437549.0	368883.0	1	5430352.0	409691.0	1	5383792.0	342860.0	1
5441150.0	325814.0	1	5435885.0	369404.0	1	5430495.0	409709.0	1	5382798.0	343723.0	1
5431413.0	326232.0	1	5436886.0	369452.0	-	5429885.0	409726.0	1	5376332.0	344922.0	1
5431947.0	327771.0	1	5442334.0	369460.0	1	5428667.0	409806.0	1	5379715.0	345036.0	1
5440069.0	327125.0	1	5440257.0	370847.0	-	5426106.0	409977.0	1	5380891.0	345193.0	1
5439540.0	327246.0	1	5440039.0	371487.0	-	5427148.0	410000.0	1	5376740.0	349166.0	1
5439356.0	327546.9	1	5439926.0	371581.0	-	5426361.0	410226.0	1	5387620.0	361438.0	3
5441299.0	328773.0	1	5438564.0	371897.0	-	5427261.0	410330.0	1	5387092.0	364031.0	1
5442434.0	329097.0	-	5438954.0	372051.0	1	5426310.0	410084.0	1	5386905.0	364511.0	1
5445226.0	330429.0	1	5439344.0	372311.0	2	5426630.0	410183.0	1	5392340.0	364742.0	2
5444908.0	330831.0	1	5438854.0	372822.0	1	5423603.0	410416.0	1	5392030.0	368240.0	1
5438043.0	331295.0	1	5436963.0	373376.0	1	5421592.0	412241.0	1	5383519.0	370008.0	1
5444540.0	331325.0	1	5435842.0	374254.0	1	5430387.0	412331.0	1	5392201.0	370423.0	1
5432721.0	331447.0	1	5454502.0	374326.0	1	5422013.0	412942.0	-	5378118.0	373138.0	1
5444311.0	334787.0	1	5434564.0	379223.0	-	5422333.0	412946.0	1	5379349.0	373278.0	1
5443364.0	335054.0	1	5433392.0	380391.0	1	5418363.0	413146.0	1	5379185.0	373388.0	1
5444819.0	335238.0	1	5432134.0	380464.0	1	5419548.0	413718.0	-	5373286.0	374777.0	1
5433212.0	335506.0	1	5432744.0	389771.0	1	5419087.0	414100.0	1	5373202.0	374812.0	1
5440255.0	335909.0	1	5434510.0	392768.0	1	5417921.0	414127.0	1	5372021.0	376826.0	1
5440404.0	335914.0	1	5436982.0	393281.0	1	5426899.0	414227.0	1	5369010.0	377526.0	1
5440596.0	335962.0	1	5454999.0	396200.0	1	5419487.0	414393.0	-	5371786.0	377540.0	1
5440346.0	335993.0	1	5433099.0	400911.0	1	5422930.0	414407.0	-	5368877.0	379000.0	1
5451992.0	336045.0	1	5434775.0	401567.0	1	5376405.0	423707.0	1	5371185.0	379002.0	1
5451509.0	336331.0	1	5437750.0	402396.0	2	5395008.0	423759.0	1	5366434.0	379900.0	1
5451277.0	336495.0	1	5431684.0	402407.0	1	5394139.0	424097.0	1	5366807.0	380102.0	1
5450704.0	336932.0	1	5434723.0	402617.0	-	5393733.0	424300.0	1	5366927.0	380327.0	1
5451137.0	337272.0	1	5441533.0	402945.0	2	5392685.0	424406.0	1	5374229.0	380634.0	1
5451043.0	337624.0	1	5437117.0	404314.0	-	5393849.0	424623.0	1	5365712.0	380867.0	1
5452135.0	338951.0	1	5435137.0	404722.0	-	5396336.0	424700.0	1	5370202.0	381618.0	1
5436130.0	339711.0	1	5436977.0	404731.0	-	5397278.0	424806.0	1	5366496.0	382291.0	1
5452228.0	340044.0	1	5440083.0	405058.0	1	5395424.0	425030.0	1	5367823.0	384863.0	1
5444457.0	340670.0	2	5439962.0	405105.0	-	5395582.0	425111.0	1	5373272.0	384986.0	1
5447022.0	342311.0	1	5439970.0	405112.0	-	5398500.0	425402.0	1	5349423.0	389812.0	1
5450934.0	342647.0	1	5439623.0	405405.0	1	5399550.0	425444.0	1	5348994.0	390171.0	1
5438446.0	343295.0	1	5433276.0	405733.0	1	5400683.0	425449.0	1	5357592.0	390186.0	1
5435999.0	343566.0	1	5437453.0	406599.0	2	5395510.0	425458.0	1	5357686.0	390430.0	1
5446410.0	344159.0	1	5442105.0	408201.0	2	5398242.0	425493.0	1	5357914.0	390623.0	1
5446862.0	345086.0	1	5442586.0	409262.0	2	5400964.0	426278.0	1	5374397.0	391058.0	1
5441827.0	345475.0	1	5443327.0	409891.0	2	5400726.0	426279.0	1	5349095.0	391135.0	1
5451410.0	345873.0	1	5434114.0	410170.0	1	5394799.0	426344.0	1	5353520.0	391519.0	1
5442598.0	347160.0	1	5441523.0	410440.0	1	5400727.0	426629.0	1	5374470.0	391824.0	1
5451009.0	347376.0	1	5434472.0	410455.0	2	5398854.0	426696.0	1	5349130.0	392213.0	1
5458545.0	347384.0	1	5438413.0	411705.0	1	5395205.0	426787.0	1	5349001.0	392269.0	1
5442350.0	348264.0	1	5442774.0	411930.0	1	5387959.0	426792.0	1	5357202.0	392293.0	1
5442561.0	348788.0	1	5444297.0	412192.0	1	5387818.0	427021.0	1	5353150.0	392397.0	1
5442633.0	350090.0	1	5441522.0	412207.0	1	5399699.0	427827.0	1	5353017.0	392402.0	1
5454319.0	350299.0	1	5442885.0	412639.0	1	5393655.0	428102.0	1	5352869.0	392781.0	1
5436090.0	350485.0	1	5443899.0	412677.0	1	5396847.0	428797.0	1	5356352.0	392793.0	1
5442078.0	350732.0	1	5441508.0	412952.0	1	5395390.0	428823.0	1	5351508.0	393860.0	1
5442303.0	350886.0	1	5426674.0	320742.0	1	5384385.0	329722.0	1	5351649.0	393975.0	1
5436810.0	351266.0	1	5423006.0	322458.0	1	5391262.0	329907.0	1	5349644.0	394294.0	1
5448036.0	351276.0	1	5403578.0	326740.0	1	5397435.0	329922.0	1	5350187.0	394334.0	1
5436553.0	351299.0	1	5424453.0	330080.0	1	5397372.0	330069.0	1	5349700.0	394811.0	1
5442240.0	352067.0	1	5420538.0	331886.0	1	5402584.0	330108.0	1	5349999.0	394829.0	1
5447456.0	352079.0	1	5409850.0	336711.0	4	5397659.0	330143.0	1	5351458.0	394774.0	1
5434730.0	353090.0	1	5409635.0	337280.0	5	5392432.0	330492.0	1	5352484.0	394533.0	1
5434592.0	353600.0	1	5409374.0	337415.0	3	5402452.0	331057.0	1	5350586.0	390052.0	1
5434208.0	353932.0	1	5430001.0	360633.0	1	5402231.0	331391.0	1	5351704.0	390587.0	1
5435803.0	354092.0	1	5429154.0	361117.0	1	5388006.0	331435.0	1	5352217.0	390866.0	1
5433915.0	354263.0	1	5429149.0	374118.0	1	5398953.0	331479.0	1	5349388.0	393496.0	1
5434274.0	354979.0	1	5429110.0	375094.0	-	5386103.0	331481.0	1	5350511.0	394079.0	1
5434731.0	355068.0	1	5426480.0	389142.0	1	5399322.0	331793.0	1	5351185.0	394135.0	1

485 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	543854.0	371397.0	5	5400557.0	323294.0	1	5366494.0	342291.0	3
5481113.0	322105.0	2	5438954.0	372051.0	7	5401117.0	323316.0	1	5367823.0	344863.0	1
5479572.0	331886.0	1	5439344.0	372111.0	1	5397088.0	323318.0	1	5367941.0	346144.0	1
5475922.0	335647.0	1	5438841.0	372790.0	1	5400516.0	323606.0	1	5367993.0	354004.0	1
5459402.0	337736.0	3	5438854.0	373222.0	4	5395130.0	323704.0	1	5372222.0	354056.0	1
5467571.0	340881.0	5	5436963.0	373396.0	4	5396405.0	323707.0	1	5370774.0	354164.0	1
5476464.0	347009.0	1	5435842.0	376254.0	3	5395008.0	323759.0	1	5371959.0	354174.0	1
5473650.0	349507.0	1	5454502.0	376326.0	4	5394139.0	324097.0	1	5373095.0	354288.0	2
5468561.0	349937.0	2	5434564.0	379223.0	3	5394615.0	324258.0	1	5371470.0	354300.0	1
5472558.0	351284.0	3	5450339.0	379235.0	1	5393733.0	324300.0	3	5373200.0	354300.0	3
5471064.0	351629.0	2	5433392.0	380391.0	2	5392685.0	324406.0	1	5371273.0	354313.0	1
5459857.0	361132.0	1	5432134.0	380464.0	1	5393869.0	324623.0	1	5370935.0	354315.0	4
5465185.0	372949.0	1	5441458.0	384097.0	7	5396336.0	324700.0	2	5370797.0	354354.0	1
5469784.0	377853.0	1	5441458.0	384325.0	1	5397278.0	324806.0	1	5372644.0	354532.0	1
5468041.0	380101.0	1	5432077.0	388582.0	3	5401295.0	324894.0	1	5372249.0	354536.0	4
5468186.0	380135.0	1	5442265.0	389210.0	3	5395424.0	325030.0	1	5372991.0	354552.0	3
5447204.0	388295.0	1	5432744.0	389771.0	4	5395582.0	325111.0	1	5372250.0	354611.0	1
5442861.0	389678.0	2	5458128.0	392380.0	1	5391006.0	325288.0	1	5368204.0	354716.0	1
5451537.0	313504.0	1	5434510.0	392768.0	3	5398500.0	325402.0	1	5372850.0	354720.0	1
5447409.0	313716.0	1	5437497.0	393272.0	3	5399550.0	325444.0	1	5371144.0	354752.0	1
5444461.0	314955.0	1	5436982.0	393281.0	4	5400683.0	325449.0	1	5373080.0	354828.0	5
5446056.0	315685.0	1	5451086.0	395840.0	3	5395510.0	325458.0	3	5373441.0	354896.0	1
5436456.0	319012.0	1	5454999.0	396200.0	4	5398242.0	325493.0	1	5368160.0	354901.0	1
5438449.0	321731.0	1	5433099.0	400911.0	4	5387906.0	325846.0	1	5373272.0	354986.0	3
5454533.0	324594.0	3	5440049.0	400920.0	3	5400944.0	326278.0	1	5368004.0	355037.0	1
5441150.0	325814.0	2	5434775.0	401567.0	2	5400726.0	326279.0	1	5371859.0	355123.0	1
5431413.0	326232.0	1	5437750.0	402396.0	3	5394799.0	326344.0	1	5372800.0	355170.0	1
5431947.0	326771.0	1	5431684.0	402407.0	3	5400727.0	326629.0	1	5370597.0	355317.0	1
5440069.0	327125.0	2	5434723.0	402517.0	1	5398854.0	326696.0	1	5368766.0	355415.0	1
5439540.0	327146.0	1	5435137.0	402965.0	3	5395205.0	326787.0	1	5369170.0	355549.0	1
5439354.0	327546.0	3	5437117.0	404314.0	1	5387959.0	326792.0	1	5372710.0	355630.0	1
5441299.0	328773.0	4	5435137.0	404722.0	2	5387818.0	327021.0	1	5372997.0	355947.0	1
5440434.0	329097.0	4	5436977.0	404731.0	1	5383444.0	327588.0	1	5372570.0	355954.0	1
5445226.0	330429.0	4	5440083.0	405058.0	3	5399699.0	327827.0	1	5373326.0	356142.0	1
5444908.0	330831.0	3	5439962.0	405105.0	1	5381013.0	328096.0	1	5372621.0	356272.0	1
5438043.0	331295.0	1	5439970.0	405112.0	1	5393655.0	328102.0	2	5370064.0	356321.0	1
5444540.0	331325.0	4	5439623.0	405405.0	1	5380840.0	328790.0	1	5370670.0	356350.0	1
5432721.0	331447.0	2	5433276.0	405733.0	2	5396847.0	328797.0	1	5368546.0	356351.0	1
5432651.0	333078.0	3	5439356.0	405748.0	1	5395390.0	328823.0	1	5371729.0	356942.0	1
5444711.0	334787.0	1	5437453.0	406599.0	2	5380748.0	329272.0	1	5372080.0	357127.0	1
5443364.0	335054.0	5	5442105.0	408201.0	2	5384385.0	329722.0	1	5366316.0	357263.0	1
5433139.0	335056.0	1	5442586.0	409262.0	1	5379833.0	329795.0	1	5370120.0	357451.0	1
5444819.0	335238.0	2	5443327.0	409891.0	4	5391262.0	329907.0	1	5372388.0	357655.0	1
5433212.0	335506.0	1	5434114.0	410170.0	2	5397435.0	329922.0	1	5369093.0	357656.0	1
5447274.0	335565.0	4	5441523.0	410440.0	5	5397372.0	330069.0	1	5370730.0	357892.0	1
5445418.0	335585.0	4	5434472.0	410455.0	1	5402584.0	330108.0	2	5369274.0	357897.0	1
5440255.0	335909.0	4	5438413.0	411705.0	1	5397459.0	330143.0	1	5371331.0	357971.0	1
5440458.0	335914.0	4	5442774.0	411930.0	1	5392432.0	330482.0	1	5369433.0	358028.0	1
5440596.0	335962.0	4	5444297.0	412192.0	3	5402452.0	331057.0	1	5370293.0	358045.0	1
5440346.0	335981.0	4	5441522.0	412207.0	3	5402331.0	331391.0	1	5371475.0	358062.0	1
5451992.0	336045.0	4	5442985.0	412639.0	2	5388006.0	331435.0	1	5371444.0	358085.0	1
5451509.0	336331.0	4	5443899.0	412677.0	4	5398953.0	331479.0	1	5369236.0	358105.0	1
5451277.0	336495.0	4	5441508.0	412952.0	4	5386103.0	331481.0	1	5367129.0	358112.0	1
5450704.0	336932.0	1	5421962.0	415271.0	1	5392982.0	331737.0	1	5370650.0	358120.0	1
5451137.0	337272.0	3	5414141.0	417014.0	1	5399322.0	331793.0	1	5369287.0	358137.0	1
5451043.0	337624.0	1	5425160.0	418138.0	1	5385081.0	331849.0	1	5366688.0	358166.0	5
5452135.0	338951.0	4	5426674.0	420742.0	1	5396175.0	332184.0	1	5369705.0	358220.0	1
5436130.0	339911.0	1	5416369.0	421902.0	1	5375323.0	333597.0	1	5369525.0	358232.0	1
5452228.0	340044.0	3	5423006.0	422458.0	2	5375343.0	333794.0	1	5370216.0	358299.0	1
5444457.0	340670.0	2	5415744.0	423576.0	1	5380017.0	335100.0	3	5367558.0	358333.0	1
5447058.0	342227.0	1	5412636.0	423775.0	1	5376302.0	335468.0	1	5367382.0	358408.0	1
5447022.0	342311.0	1	5407989.0	425416.0	1	5390428.0	336496.0	1	5370386.0	358559.0	1
5450834.0	342647.0	1	5417033.0	425526.0	1	5385081.0	336796.0	3	5366682.0	358779.0	5
5438782.0	343180.0	1	5403578.0	426940.0	1	5375168.0	336927.0	1	5366839.0	358805.0	5
5438446.0	343295.0	1	5424453.0	430080.0	1	5386447.0	337389.0	1	5368301.0	358822.0	1
5435999.0	343566.0	1	5420538.0	431886.0	1	5386217.0	337780.0	2	5371689.0	359142.0	1
5446410.0	344159.0	1	5409850.0	436911.0	1	5378092.0	338032.0	1	5368713.0	359210.0	1
5446862.0	345086.0	1	5409635.0	437280.0	1	5378180.0	338546.0	1	5367333.0	359219.0	1
5441827.0	345475.0	1	5409374.0	437415.0	1	5394220.0	339445.0	1	5367520.0	359225.0	1
5451410.0	345873.0	1	5430001.0	460633.0	3	5378846.0	339823.0	1	5371713.0	359274.0	1
5442598.0	347160.0	1	5429154.0	461117.0	1	5390983.0	340219.0	1	5367225.0	359301.0	1
5451009.0	347376.0	1	5429344.0	474086.0	4	5391175.0	340313.0	3	5369527.0	359302.0	1
5458545.0	347384.0	2	5429149.0	474118.0	1	5379853.0	340693.0	1	5369553.0	359547.0	1
5442850.0	348264.0	1	5429110.0	475094.0	5	5388927.0	340850.0	2	5369297.0	359609.0	1
5452586.0	348323.0	5	5422647.0	475658.0	4	5379418.0	341069.0	1	5367862.0	359755.0	1
5442561.0	348788.0	1	5423628.0	475833.0	3	5390553.0	341208.0	3	5349422.0	359810.0	2
5454203.0	349485.0	5	5426366.0	479206.0	3	5378933.0	341575.0	1	5349423.0	359812.0	1
5442633.0	350090.0	1	5426494.0	479564.0	2	5387800.0	342044.0	1	5369058.0	359848.0	1
5454319.0	350299.0	1	5426480.0	489142.0	4	5380234.0	342704.0	2	5371211.0	360160.0	1
5436090.0	350485.0	1	5427874.0	491013.0	4	5389657.0	342783.0	1	5368994.0	360171.0	1
5442078.0	350732.0	1	5426409.0	494667.0	4	5379305.0	342833.0	1	5357592.0	360186.0	1
5442303.0	350886.0	1	5425698.0	497062.0	3	5383792.0	342860.0	5	5371093.0	360209.0	1
5452647.0	351160.0	1	5423720.0	497064.0	2	5380334.0	342913.0	2	5357686.0	360430.0	1
5436810.0	351266.0	1	5416519.0	498611.0	4	5382798.0	343723.0	4	5370513.0	360522.0	1
5448036.0	351276.0	1	5430269.0	498796.0	3	5376332.0	344922.0	2	5369815.0	360559.0	1
5436553.0	351299.0	1	5430662.0	499153.0	3	5379715.0	345036.0	4	5369172.0	360589.0	1
5449926.0	351680.0	1	5430102.0	499605.0	4	5380891.0	345193.0	3	5370972.0	360608.0	1
5451987.0	351776.0	2	5427011.0	401768.0	1	5376740.0	349166.0	2	5357914.0	360623.0	1
5442240.0	352067.0	1	5415790.0	404972							

FREE COPPER (ppm)

307 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	2	5451826.0	358389.0	1	5421592.0	412241.0	1	5383792.0	342860.0	1
5481113.0	322105.0	1	5430990.0	359173.0	1	5430387.0	412331.0	1	5380334.0	342913.0	1
5479572.0	331886.0	1	5455929.0	360169.0	1	5418363.0	413146.0	1	5382798.0	343723.0	1
5475922.0	335647.0	2	5446301.0	360966.0	1	5417821.0	414127.0	1	5376332.0	344922.0	1
5459402.0	337736.0	1	5447272.0	361014.0	1	5426899.0	414227.0	2	5379715.0	345036.0	1
5467571.0	340881.0	1	5449611.0	364670.0	1	5400557.0	423294.0	1	5380891.0	345193.0	1
5473650.0	349507.0	1	5443590.0	364854.0	1	5401117.0	423316.0	1	5376740.0	349146.0	1
5468561.0	349937.0	1	5447136.0	365439.0	1	5400516.0	423360.0	1	5373286.0	34777.0	1
5472558.0	351284.0	1	5446981.0	366461.0	1	5395008.0	423370.0	3	5373202.0	34812.0	1
5471064.0	351629.0	1	5442334.0	369460.0	1	5396405.0	423759.0	1	5372021.0	34826.0	1
5459857.0	351132.0	1	5436963.0	373396.0	1	5394139.0	424097.0	1	5369010.0	34752.0	1
5468041.0	360101.0	1	5435842.0	376254.0	1	5393733.0	424300.0	1	5371786.0	347540.0	1
5442861.0	369678.0	1	5454502.0	376326.0	1	5392685.0	424406.0	1	5368877.0	349000.0	1
5451537.0	313504.0	1	5450339.0	379235.0	1	5393869.0	424623.0	1	5371185.0	349002.0	1
5446461.0	314925.0	1	5433392.0	380391.0	1	5396336.0	424700.0	1	5366434.0	349900.0	1
5446056.0	315685.0	1	5432134.0	380464.0	1	5397278.0	424806.0	1	5366807.0	340302.0	1
5438449.0	321731.0	1	5441548.0	384097.0	1	5401295.0	424894.0	1	5366927.0	340327.0	1
5454533.0	324594.0	1	5441458.0	384325.0	1	5395424.0	425030.0	1	5374229.0	340634.0	1
5441150.0	325814.0	1	5442365.0	389210.0	1	5395582.0	425111.0	1	5365712.0	340867.0	1
5431413.0	326232.0	2	5432744.0	389771.0	1	5398500.0	425402.0	1	5370202.0	341618.0	2
5431947.0	326771.0	1	5458128.0	392380.0	1	5399550.0	425444.0	1	5366496.0	342291.0	1
5440069.0	327125.0	1	5434510.0	392768.0	1	5400683.0	425449.0	1	5367823.0	344863.0	1
5439540.0	327246.0	1	5436982.0	393281.0	1	5398242.0	425493.0	1	5367941.0	346144.0	1
5439356.0	327546.0	1	5433099.0	400911.0	1	5400964.0	426278.0	1	5372222.0	345056.0	3
5441299.0	328773.0	1	5434775.0	401567.0	1	5400726.0	426279.0	1	5371959.0	345174.0	2
5442434.0	329097.0	1	5440083.0	405058.0	1	5394799.0	426344.0	1	5370935.0	345315.0	2
5445226.0	330429.0	1	5441523.0	410440.0	1	5400727.0	426629.0	1	5371144.0	345752.0	2
5444708.0	330831.0	1	5438413.0	411705.0	1	5398854.0	426696.0	1	5373080.0	345828.0	1
5438043.0	331295.0	1	5442774.0	411930.0	1	5395205.0	426787.0	1	5373272.0	345986.0	2
5444540.0	331325.0	1	5444297.0	412192.0	1	5387959.0	426792.0	1	5366316.0	347263.0	1
5444311.0	334787.0	1	5441522.0	412207.0	1	5387818.0	427021.0	1	5370730.0	347892.0	1
5443364.0	335054.0	1	5442885.0	412639.0	1	5399699.0	427827.0	3	5371331.0	347971.0	3
5444819.0	335238.0	1	5443899.0	412677.0	1	5381013.0	428096.0	1	5369433.0	348028.0	1
5443212.0	335506.0	3	5441508.0	412952.0	1	5397655.0	428102.0	1	5371475.0	348062.0	4
5440255.0	335909.0	1	5421962.0	415271.0	1	5380840.0	428790.0	1	5371464.0	348085.0	1
5440458.0	335914.0	1	5426674.0	420742.0	1	5396847.0	428797.0	2	5369236.0	348105.0	1
5440596.0	335942.0	1	5423006.0	422458.0	2	5395390.0	428823.0	1	5367129.0	348112.0	1
5440346.0	335993.0	1	5415744.0	423576.0	1	5380748.0	429272.0	1	5366688.0	348166.0	1
5451992.0	336045.0	1	5412636.0	423775.0	1	5384385.0	429722.0	1	5369525.0	348232.0	1
5450704.0	336932.0	1	5417033.0	425526.0	1	5379833.0	429795.0	2	5366839.0	348805.0	1
5451137.0	337272.0	1	5403578.0	426940.0	1	5391262.0	429907.0	1	5368301.0	348822.0	1
5451043.0	337634.0	1	5424453.0	430080.0	1	5397435.0	429922.0	1	5368713.0	349210.0	1
5452135.0	338951.0	1	5420538.0	431886.0	1	5397372.0	430069.0	1	5367520.0	349225.0	1
5436130.0	339911.0	1	5409850.0	436911.0	2	5402584.0	430108.0	2	5369527.0	349302.0	1
5452228.0	340044.0	1	5409635.0	437280.0	2	5407659.0	430143.0	1	5367862.0	349755.0	1
5447022.0	342311.0	1	5409374.0	437415.0	1	5392432.0	430482.0	1	5349423.0	349812.0	1
5450834.0	342647.0	1	5430001.0	440633.0	1	5402452.0	431057.0	2	5348994.0	3460171.0	1
5446410.0	344159.0	2	5429154.0	441117.0	1	5402231.0	431391.0	2	5357592.0	3460186.0	1
5446862.0	345086.0	1	5429149.0	441118.0	1	5388006.0	431435.0	2	5357686.0	3460430.0	1
5441927.0	345475.0	1	5426480.0	449142.0	1	5398953.0	431479.0	1	5357914.0	3460623.0	1
5451410.0	345873.0	2	5427874.0	459103.0	1	5386103.0	431481.0	1	5374397.0	3461058.0	1
5451009.0	347376.0	2	5426409.0	459667.0	1	5382982.0	431737.0	1	5349095.0	3461135.0	1
5458545.0	347384.0	1	5425698.0	4597062.0	1	5399322.0	431793.0	1	5353520.0	3461519.0	1
5454203.0	349485.0	1	5423720.0	4597064.0	1	5385081.0	431849.0	1	5374470.0	3461824.0	1
5442633.0	350090.0	3	5416519.0	459811.0	1	5396175.0	432184.0	1	5374345.0	3461862.0	1
5454319.0	350299.0	1	5430662.0	4599153.0	1	5375323.0	433597.0	2	5349130.0	3462213.0	1
5436090.0	350485.0	1	5430102.0	4599605.0	1	5375343.0	433794.0	1	5349001.0	3462269.0	1
5442078.0	350732.0	1	5427011.0	4601768.0	1	5376302.0	435468.0	1	5357202.0	3462293.0	1
5442303.0	350886.0	1	5415790.0	460972.0	1	5390428.0	436496.0	1	5353150.0	3462397.0	1
5436810.0	351266.0	2	5423303.0	4605314.0	2	5385081.0	436796.0	1	5353017.0	3462402.0	1
5436553.0	351299.0	2	5429682.0	460757.0	2	5375168.0	436927.0	1	5352869.0	3462781.0	1
5451987.0	351776.0	1	5426505.0	460897.0	2	5386447.0	437189.0	1	5356352.0	3462793.0	1
5442240.0	352067.0	2	5423302.0	4609009.0	2	53864217.0	437780.0	1	5351508.0	3463860.0	1
5434730.0	353090.0	1	5426882.0	4609397.0	2	5378092.0	438032.0	1	5351649.0	3463975.0	1
5434592.0	353600.0	1	5430487.0	4609485.0	1	5394220.0	439445.0	2	5349664.0	3464294.0	1
5434208.0	353932.0	1	5430181.0	4609653.0	1	5378846.0	439823.0	1	5350187.0	3465134.0	1
5435803.0	354092.0	1	5430352.0	4609691.0	2	5390983.0	440219.0	1	5349700.0	3465161.0	1
5433915.0	354263.0	1	5430495.0	4609709.0	2	5391175.0	440313.0	1	5349999.0	3465229.0	1
5434274.0	354979.0	1	5429885.0	4609726.0	1	5379853.0	440493.0	1	5351458.0	3465774.0	1
5434731.0	355068.0	1	5428667.0	4609806.0	1	5388927.0	440850.0	1	5352484.0	3465953.0	1
5434207.0	355185.0	1	5426106.0	4609977.0	1	5379418.0	441069.0	1	5350586.0	3466052.0	1
5435565.0	355597.0	1	5426361.0	4610000.0	1	5390553.0	441208.0	1	5351704.0	3466087.0	2
5449695.0	356335.0	3	5427261.0	4610026.0	1	5378933.0	441575.0	1	5352217.0	3466464.0	2
5451373.0	356389.0	1	5426310.0	4610030.0	2	5387800.0	442044.0	1	5349388.0	3466496.0	1
5432855.0	356667.0	2	5426310.0	4610084.0	1	5380234.0	442704.0	1	5350511.0	3467079.0	1
5451388.0	357567.0	1	5426630.0	4610183.0	2	5389637.0	442786.0	1	5351185.0	3467135.0	1
5449410.0	358067.0	1	5423603.0	4610416.0	3	5379305.0	442833.0	1			

LEAD WITH SELECTIONS (ppm)

487 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5438564.0	371897.0	+	5400557.0	323294.0	1	5367941.0	346144.0	1
5481113.0	322105.0	+	5438954.0	372051.0	+	5401117.0	323316.0	2	5367993.0	354004.0	3
5479572.0	331886.0	1	5439344.0	372311.0	4	5397098.0	323318.0	1	5372222.0	354056.0	4
5475922.0	335647.0	1	5438841.0	372780.0	3	5400516.0	323606.0	4	5370744.0	354164.0	4
5459402.0	337736.0	3	5438854.0	372822.0	4	5395130.0	323704.0	3	5371959.0	354174.0	4
5467571.0	340881.0	4	5436963.0	373396.0	1	5394405.0	323707.0	3	5373095.0	354288.0	3
5476444.0	347009.0	3	5435842.0	376254.0	3	5395008.0	323759.0	4	5371470.0	354300.0	3
5473650.0	349507.0	3	5454502.0	376326.0	4	5394139.0	324097.0	1	5373200.0	354300.0	1
5468561.0	349937.0	3	5434564.0	379223.0	2	5394615.0	324258.0	1	5371273.0	354313.0	4
5472558.0	351284.0	3	5450339.0	379235.0	3	5393733.0	324300.0	1	5370997.0	354315.0	+
5471064.0	351629.0	2	5433392.0	380391.0	1	5392685.0	324404.0	3	5370797.0	354354.0	4
5459857.0	361132.0	+	5432134.0	380464.0	1	5393869.0	324623.0	3	5372646.0	354532.0	3
5465185.0	372949.0	2	5441548.0	384097.0	6	5396336.0	324700.0	4	5372249.0	354534.0	3
5469784.0	377853.0	2	5441458.0	384325.0	1	5397278.0	324804.0	4	5372991.0	354532.0	6
5468041.0	380101.0	6	5432877.0	388582.0	3	5401295.0	324894.0	1	5372250.0	354611.0	3
5468186.0	380135.0	3	5442365.0	389210.0	7	5395424.0	325030.0	4	5368204.0	354716.0	3
5447204.0	308295.0	3	5432744.0	389771.0	1	5395582.0	325111.0	3	5372850.0	354720.0	3
5442861.0	309678.0	6	5458128.0	392380.0	6	5391006.0	325288.0	3	5371144.0	354752.0	4
5451537.0	313504.0	1	5434510.0	392768.0	3	5398500.0	325402.0	3	5373080.0	354828.0	+
5447409.0	313716.0	3	5437497.0	393272.0	3	5395550.0	325444.0	1	5373441.0	354896.0	4
5446461.0	314955.0	1	5436982.0	393281.0	2	5400483.0	325449.0	4	5368160.0	354901.0	4
5446056.0	315685.0	1	5451086.0	395840.0	5	5395510.0	325458.0	4	5373272.0	354984.0	3
5436456.0	319012.0	2	5454999.0	396200.0	3	5398242.0	325493.0	3	5368004.0	355037.0	4
5438449.0	321731.0	1	5433099.0	400911.0	3	5387906.0	325846.0	3	5371859.0	355123.0	4
5454533.0	324594.0	7	5440049.0	400920.0	3	5400944.0	326278.0	3	5372800.0	355170.0	4
5441150.0	325814.0	1	5434775.0	401567.0	1	5400726.0	326279.0	3	5370597.0	355317.0	3
5431413.0	326232.0	1	5437750.0	402396.0	3	5394799.0	326344.0	3	5368766.0	355415.0	3
5431947.0	326771.0	1	5431684.0	402407.0	4	5400727.0	326629.0	3	5371840.0	355525.0	3
5440069.0	327125.0	1	5434723.0	402617.0	3	5398854.0	326696.0	3	5369170.0	355549.0	4
5439540.0	327246.0	3	5441533.0	402965.0	3	5395205.0	326787.0	3	5372997.0	355947.0	4
5439356.0	327546.0	1	5437117.0	404314.0	3	5387959.0	326792.0	3	5372570.0	355954.0	4
5441299.0	328773.0	1	5435137.0	404722.0	3	5387818.0	327021.0	3	5372326.0	356142.0	4
5442434.0	329097.0	1	5436977.0	404731.0	3	5383444.0	327588.0	1	5372621.0	356272.0	1
5445226.0	330429.0	3	5440083.0	405058.0	3	5399699.0	327827.0	3	5370064.0	356321.0	4
5444908.0	330831.0	3	5439962.0	405105.0	3	5381013.0	328096.0	4	5370670.0	356350.0	3
5438043.0	331295.0	4	5439970.0	405112.0	3	5393655.0	328102.0	4	5368546.0	356351.0	3
5444540.0	331325.0	3	5439623.0	405405.0	3	5380840.0	328790.0	1	5371729.0	356942.0	4
5432721.0	331447.0	1	5433276.0	405733.0	3	5396847.0	328797.0	1	5372080.0	357127.0	4
5432651.0	333078.0	1	5439356.0	405748.0	3	5395390.0	328823.0	3	5366316.0	357263.0	4
5444311.0	334787.0	3	5437453.0	406599.0	3	5380748.0	329272.0	2	5370120.0	357451.0	4
5443364.0	335054.0	7	5442105.0	408201.0	4	5384385.0	329722.0	3	5372388.0	357655.0	4
5433139.0	335056.0	1	5442586.0	409242.0	3	5379833.0	329795.0	1	5367093.0	357656.0	3
544819.0	335238.0	1	5443327.0	409891.0	3	5391262.0	329907.0	3	5370730.0	357892.0	6
5433212.0	335504.0	1	5434114.0	410170.0	3	5397435.0	329922.0	3	5369274.0	357897.0	3
5447274.0	335565.0	1	5441523.0	410440.0	3	5397372.0	330067.0	3	5371331.0	357971.0	3
5445418.0	335585.0	4	5434472.0	410455.0	3	5402584.0	330108.0	3	5369433.0	358028.0	3
5440255.0	335909.0	2	5438413.0	411705.0	1	5397659.0	330143.0	1	5370293.0	358045.0	3
5440458.0	335914.0	2	5442774.0	411930.0	2	5392432.0	330482.0	1	5371475.0	358062.0	3
5440596.0	335962.0	3	5444297.0	412192.0	3	5402452.0	331057.0	1	5371464.0	358085.0	6
5440346.0	335993.0	2	5445522.0	412207.0	5	5402231.0	331391.0	1	5369236.0	358105.0	4
5451992.0	336045.0	7	5442885.0	412639.0	1	5388006.0	331435.0	1	5367129.0	358112.0	4
5451509.0	336331.0	5	5443899.0	412677.0	3	5398953.0	331479.0	1	5370650.0	358120.0	3
5451277.0	336495.0	4	5441508.0	412952.0	1	5386103.0	331481.0	4	5369287.0	358137.0	3
5450704.0	336932.0	3	5421962.0	413571.0	2	5382982.0	331737.0	1	5366688.0	358166.0	+
5451137.0	337272.0	3	5414141.0	417014.0	2	5399322.0	331793.0	1	5369705.0	358220.0	4
5451043.0	337624.0	3	5425160.0	418138.0	1	5385081.0	331849.0	1	5369525.0	358232.0	4
5452135.0	338951.0	4	5426674.0	420742.0	1	5396175.0	332184.0	1	5370216.0	358299.0	4
5436130.0	339911.0	1	5416369.0	421902.0	2	5395323.0	332597.0	1	5367558.0	358333.0	3
5452228.0	340044.0	3	5423006.0	422458.0	1	5395343.0	332794.0	1	5367382.0	358400.0	6
5444457.0	340670.0	1	5415744.0	423576.0	2	5380017.0	333100.0	1	5370114.0	358524.0	3
5447058.0	342227.0	3	5412636.0	423775.0	1	5376102.0	333468.0	1	5370386.0	358539.0	3
5447022.0	342311.0	1	5407789.0	425416.0	1	5390428.0	334494.0	3	5366682.0	358779.0	+
5450834.0	342647.0	1	5407033.0	425526.0	2	5395168.0	334927.0	1	5368301.0	358822.0	6
5438782.0	343180.0	1	5403578.0	426940.0	1	5386447.0	337389.0	1	5371689.0	359142.0	4
5438446.0	343295.0	5	5424453.0	430080.0	1	5386217.0	337790.0	1	5368713.0	359210.0	4
5435999.0	343566.0	1	5420538.0	431886.0	1	5378092.0	338032.0	1	5367333.0	359219.0	3
5446410.0	344159.0	1	5409850.0	436911.0	4	5378130.0	338546.0	1	5367520.0	359225.0	7
5446862.0	345086.0	1	5409635.0	437280.0	1	5394220.0	339445.0	3	5371713.0	359274.0	3
5441827.0	345475.0	1	5409374.0	437415.0	2	5379846.0	339923.0	1	5367225.0	359301.0	3
5451410.0	345873.0	1	5430001.0	438633.0	6	5390983.0	340219.0	2	5369527.0	359302.0	6
5442598.0	347160.0	1	5429154.0	438117.0	3	5391175.0	340313.0	6	5369553.0	359347.0	3
5451009.0	347376.0	1	5427514.0	437408.0	1	5398953.0	340693.0	1	5369297.0	359609.0	6
5458545.0	347384.0	3	5429149.0	437418.0	1	5388927.0	340850.0	1	5367862.0	359755.0	4
5442850.0	348264.0	1	5429110.0	437509.0	+	5397941.0	341047.0	1	5349422.0	359810.0	7
5452586.0	348323.0	+	5422647.0	437558.0	1	5397941.0	341047.0	1	5349423.0	359812.0	4
5442561.0	348788.0	1	5423628.0	437833.0	1	5390553.0	341208.0	3	5367058.0	359848.0	3
5454203.0	349485.0	+	5426494.0	439564.0	4	5378933.0	341575.0	1	5371211.0	360160.0	3
5442633.0	350090.0	1	5426480.0	439914.0	1	5387800.0	342044.0	1	5348994.0	360171.0	6
5454319.0	350299.0	1	5427874.0	439103.0	1	5380234.0	342704.0	1	5357592.0	360186.0	4
5436090.0	350485.0	1	5426409.0	439667.0	4	5389657.0	342786.0	1	5371093.0	360209.0	3
5442078.0	350732.0	3	5425698.0	4397062.0	3	5379305.0	342833.0	1	5371320.0	360211.0	3
5442303.0	350886.0	1	5423720.0	4397064.0	1	5383392.0	342860.0	7	5371320.0	360211.0	3
5452647.0	351160.0	2	5416519.0	4398611.0	1	5380334.0	342860.0	7	5371320.0	360211.0	3
5436810.0	351266.0	1	5430269.0	4398796.0	1	5382798.0	342723.0	7	5370513.0	360322.0	3
5448036.0	351276.0	1	5430662.0	4399153.0	4	5367332.0	342723.0	3	5369815.0	360359.0	3
5436553.0	351299.0	1	5430102.0	4399605.0	1	5379715.0	345036.0	8	5369172.0	360589.0	3
5449926.0	351680.0	1	5427011.0	401768.0	1	5380891.0	345173.0	8	5370972.0	360608.0	3
5451878.0	351776.0	3	5415790.0	404972.0	1	5376740.0	349166.0	7	5357914.0	360623.0	+
5442240.0	352067.0	1	5423303.0	405314.0							

COBALT (ppm)

262 SAMPLES WERE NOT PLOTTED BECAUSE OF COINCIDENT LOCATIONS.

NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL	NORTHING	EASTING	SYMBOL
5491417.0	308850.0	1	5448036.0	351276.0	1	5400516.0	323604.0	1	5402254.0	408919.0	1
5481113.0	322105.0	2	5436553.0	351299.0	1	5396405.0	323707.0	1	5400310.0	410187.0	1
5479572.0	331886.0	1	5442240.0	352067.0	1	5395008.0	323759.0	1	5400874.0	410602.0	2
5475922.0	335647.0	1	5447456.0	352079.0	1	5396336.0	324700.0	1	5400887.0	411374.0	5
5459402.0	337736.0	3	5434730.0	353090.0	1	5397278.0	324806.0	1	5401756.0	413419.0	5
5467571.0	340881.0	5	5434592.0	353600.0	1	5401295.0	324894.0	1	5373286.0	334777.0	1
5473650.0	349507.0	4	5434208.0	353932.0	1	5395424.0	325030.0	2	5373202.0	334812.0	1
5468561.0	349937.0	4	5435803.0	354092.0	1	5395582.0	325111.0	1	5372021.0	336826.0	3
5472558.0	351284.0	4	5433915.0	354263.0	1	5398500.0	325402.0	1	5369010.0	337526.0	3
5471064.0	351629.0	4	5434274.0	354979.0	1	5399550.0	325444.0	1	5371786.0	337540.0	3
5459857.0	361132.0	3	5434731.0	355068.0	1	5400683.0	325449.0	1	5368877.0	339000.0	1
5465185.0	372949.0	1	5434207.0	355185.0	1	5395510.0	325458.0	1	5371185.0	339002.0	4
5469784.0	377953.0	1	5435565.0	355597.0	1	5398242.0	325493.0	1	5366434.0	339900.0	1
5468041.0	380101.0	1	5432855.0	356667.0	1	5400964.0	326278.0	1	5366807.0	340302.0	1
5468186.0	380135.0	1	5430990.0	359173.0	1	5400726.0	326279.0	1	5366927.0	340327.0	1
5442861.0	309678.0	1	5455929.0	360169.0	2	5400727.0	326629.0	1	5374229.0	340634.0	1
5451537.0	313504.0	1	5440039.0	371487.0	2	5398854.0	326696.0	1	5365712.0	340867.0	1
5446461.0	314955.0	1	5439926.0	371581.0	1	5399699.0	327827.0	1	5370202.0	341618.0	1
5446056.0	315685.0	1	5438564.0	371897.0	2	5381013.0	328094.0	1	5366496.0	342291.0	1
5436456.0	319012.0	1	5438954.0	372051.0	1	5393655.0	328102.0	1	5373272.0	344986.0	1
5438449.0	321731.0	1	5439344.0	372311.0	3	5380840.0	328790.0	1	5366316.0	357263.0	1
5454533.0	324594.0	1	5438854.0	372822.0	1	5380748.0	329272.0	1	5370730.0	357892.0	1
5441150.0	325814.0	3	5433392.0	380391.0	3	5384385.0	329722.0	1	5371464.0	358085.0	1
5431413.0	326232.0	1	5432134.0	380464.0	3	5379833.0	329795.0	1	5369236.0	358105.0	1
5431947.0	326771.0	1	5441548.0	384097.0	5	5402584.0	330108.0	1	5367129.0	358112.0	1
5440069.0	327125.0	3	5432877.0	388582.0	4	5402452.0	331057.0	1	5366688.0	358166.0	1
5439540.0	327246.0	3	5458128.0	392380.0	1	5402231.0	331391.0	1	5369525.0	358232.0	1
5439356.0	327546.0	1	5451086.0	395840.0	5	5388006.0	331435.0	1	5366839.0	358805.0	1
5441299.0	328773.0	1	5435137.0	404722.0	3	5386103.0	331481.0	1	5368301.0	358822.0	2
5442434.0	329097.0	4	5439970.0	405112.0	2	5382982.0	331737.0	1	5368713.0	359210.0	1
5445226.0	330429.0	4	5439356.0	405748.0	1	5385081.0	331849.0	1	5367520.0	359225.0	1
5444908.0	330831.0	2	5437453.0	406599.0	2	5375323.0	331977.0	1	5369527.0	359302.0	1
5438043.0	331295.0	3	5441523.0	410440.0	5	5375343.0	331994.0	1	5367862.0	359755.0	1
5444540.0	331325.0	2	5444297.0	412192.0	4	5380017.0	335100.0	3	5349422.0	359810.0	4
5432721.0	331447.0	1	5442885.0	412639.0	4	5376302.0	335468.0	1	5349423.0	359812.0	5
5444311.0	331787.0	1	5443899.0	412677.0	5	5390428.0	336496.0	1	5348994.0	360171.0	3
5443364.0	335054.0	3	5421962.0	415271.0	1	5385081.0	336796.0	3	5357592.0	360186.0	2
5444819.0	335238.0	2	5426674.0	420742.0	1	5375168.0	336927.0	1	5357686.0	360430.0	3
5433212.0	335506.0	1	5423006.0	422458.0	1	5386447.0	337389.0	1	5357914.0	360623.0	3
5440255.0	335909.0	4	5415744.0	423576.0	1	5386217.0	337780.0	1	5374397.0	361058.0	1
5440458.0	335914.0	3	5412636.0	423775.0	1	5378092.0	338032.0	1	5349095.0	361135.0	3
5440596.0	335962.0	3	5417033.0	425526.0	1	5378180.0	338546.0	1	5353520.0	361519.0	3
5440346.0	335993.0	4	5403578.0	426940.0	1	5394220.0	339445.0	1	5374470.0	361824.0	1
5451992.0	336045.0	5	5424453.0	430080.0	1	5378846.0	339823.0	1	5374345.0	361862.0	1
5451509.0	336331.0	3	5420538.0	431886.0	1	5390983.0	340219.0	2	5349130.0	362213.0	2
5451277.0	336495.0	4	5409850.0	436911.0	1	5391175.0	340313.0	2	5349001.0	362269.0	3
5450704.0	336932.0	1	5409635.0	437280.0	1	5379853.0	340693.0	4	5357202.0	362293.0	3
5451137.0	337272.0	4	5409374.0	437415.0	1	5388927.0	340850.0	1	5353150.0	362397.0	2
5451043.0	337624.0	4	5430001.0	460633.0	3	5379418.0	341049.0	1	5353017.0	362402.0	1
5452135.0	338951.0	3	5429154.0	461117.0	2	5390553.0	341208.0	3	5352869.0	362781.0	3
5436130.0	339911.0	1	5429149.0	474118.0	1	5378933.0	341575.0	1	5356352.0	362793.0	3
5452228.0	340044.0	1	5429110.0	475094.0	1	5378900.0	342044.0	3	5351508.0	363860.0	3
5444457.0	340470.0	1	5426366.0	479206.0	3	5380234.0	342704.0	2	5351649.0	363975.0	3
5438446.0	343295.0	1	5426494.0	479564.0	3	5389657.0	342796.0	1	5349644.0	364294.0	3
5435999.0	343566.0	1	5423720.0	497064.0	1	5379305.0	342833.0	1	5350187.0	365134.0	2
5441827.0	345475.0	1	5416519.0	498611.0	4	5383792.0	342840.0	1	5349700.0	378161.0	1
5442598.0	347160.0	2	5430269.0	498796.0	2	5380334.0	342913.0	2	5349999.0	378629.0	1
5458545.0	347384.0	4	5427011.0	401768.0	1	5382798.0	343223.0	3	5351458.0	378774.0	1
5442850.0	348264.0	1	5404210.0	409043.0	1	5376332.0	344922.0	1	5352484.0	379453.0	1
5442561.0	348788.0	1	5405016.0	412576.0	2	5379715.0	345036.0	3	5350584.0	380052.0	2
5442633.0	350090.0	1	5404841.0	412672.0	2	5380891.0	345193.0	2	5351704.0	380587.0	1
5454319.0	350298.0	1	5422013.0	412942.0	2	5376740.0	349164.0	1	5352217.0	380846.0	1
5436090.0	350485.0	1	5422333.0	412946.0	1	5400693.0	406672.0	3	5349388.0	383494.0	1
5442078.0	350732.0	1	5422930.0	414407.0	3	5401327.0	407113.0	2	5350511.0	384079.0	1
5442303.0	350886.0	1	5400557.0	423294.0	1	5401979.0	408894.0	1	5351185.0	384135.0	2
5436810.0	351266.0	1	5401117.0	423316.0	1						

APPENDIX V

LISTING OF FILE NWTASSS

ARCHIVAL INFORMATION

FILE NWTASS9 CONTAINS -800 STREAM SEDIMENT DATA COLLATED FROM INFORMATION HELD AT THE TASMANIAN MINES DEPT. AS WELL AS CRA'S INTERNAL REPORTS, SOME OF WHICH ARE ON OPEN FILE AT THE MINES DEPT.

THIS INFORMATION WAS COLLATED BY D.J. WEIR AS PART OF THE ROCKY CAPE EL 1/77 PROGRAMME DURING 1981-1982.

THIS FILE RESULTS FROM THE MERGE OF THE FOLLOWING FILES:

1. ACCU	4. HGHMCU	11. PW1265
2. ANZ3768	7. LYRIUMCU	12. 177SSU
3. ARTHMCU	8. LYTEA	
4. BPEAK	9. HL277BU	
5. HAMPSS	10. PRINEX	

THESE FILES CONTAIN DIFFERING ANALYTICAL VARIABLES THE MOST COMMON OF WHICH HAVE BEEN UTILISED

FOR FURTHER INFORMATION REFER TO LIST OF REFERENCES OR TO INDIVIDUAL FILES

NOTES ON VARIABLES USED

VARIABLES USED WITHIN THIS FILE I.E. GEOLOGICAL ARE COMMON TO THE AFOREMENTIONED FILES

STRMORD (STREAM ORDER)

STREAM ORDER WILL GIVE AN INDICATION OF CATCHMENT SIZE. STREAM ORDERS HAVE BEEN CALCULATED ON THE BASIS OF:

STREAM SOURCES ARE ASSIGNED 1ST. ORDER; WHEN TWO 1ST. ORDER STREAMS JOIN TOGETHER, THE STREAM BECOMES 2ND. ORDER ETC. ETC.

GEOLOGY

THREE GEOLOGICAL VARIABLES HAVE BEEN ASSIGNED AS FOLLOWS:

1. SITEGEO (SITE GEOLOGY)
2. FORMGEO (FORMATIONAL GEOLOGY)
3. PROFCAR (PROF. CAREY GEOLOGY)

SITEGEO

THIS VARIABLE REPRESENTS THE GEOLOGY OBSERVED AT EACH SAMPLE SITE AND IS A COMBINATION OF OUTCROP AND FLOAT GEOLOGY. 28 ROCK TYPES HAVE BEEN USED AS FOLLOWS:

1 SAND DUNES	15 CHERT
2 GRAVELS	16 SLATES
3 BASALT	17 CARBONACEOUS SLATES
4 GREYWACKE	18 CONGLOMERATE
5 DOLOMITE	19 GRANITE
6 QUARTZITE	20 VOLCANICS
7 GREYWACKE	21 SCHISTS
8 BLACK SILTSTONE	22 TILLITE
9 SILTSTONE	23 LIMESTONE
10 SHALE	24 AMPHIBOLITE
11 MICACEOUS QUARTZITE	25 DOLERITE
12 MUDSTONE	26 BLACK SLATES
13 SANDSTONE	27 SERPENTINITE
14 BLACK SHALE	28 HORNFELS

VALUES OF -1 REPRESENT EITHER NO OUTCROP OR THIS INFORMATION WAS NOT INCLUDED IN THE ORIGINAL REPORT.

FORMGEO

THIS CONSISTS OF BROAD FORMATIONAL DIVISIONS AS RECOGNISED BY THE TASMANIAN DEPT. OF MINES AND PUBLISHED ON THE 1:250 000 GEOLOGICAL ATLAS SHEETS ENTITLED BURNIE AND QUEENSTOWN. 20 FORMATIONS HAVE BEEN USED.

SEDIMENTARY ROCKS

1	UNCONSOLIDATED SEDIMENTS	RECENT AND TERTIARY
2	GLACIO-MARINE SEQUENCES	CARBONIFEROUS/PERMIAN
3	SILTSTONE-SHALE SEQUENCES	DEVONIAN
4	QUARTZ SANDSTONE SEQUENCES	DEVONIAN
5	LIMESTONE SEQUENCES	ORDOVICIAN
6	CONGLOMERATES, SANDSTONES, SILTSTONES	DEVONIAN
7	GREYWACKE-TURBIDITE SEQUENCES	CAMBRIAN
8	DOMINANTLY VOLCANIC SEQUENCES	CAMBRIAN
9	UNDIFFERENTIATED, UNMETAMORPHOSED SEQUENCES	PRECAMBRIAN
10	DOMINANTLY MUDSTONES AND TURBIDITES	PRECAMBRIAN
11	DOMINANTLY ORTHOQUARTZITE AND CONGLOMERATES	PRECAMBRIAN
12	DOMINANTLY DOLOMITE	PRECAMBRIAN
13	UNDIFFERENTIATED METAMORPHIC SEQUENCES	PRECAMBRIAN
14	META-FELTIC SEQUENCES	PRECAMBRIAN
15	META-QUARTZITE SEQUENCES	PRECAMBRIAN

IGNEOUS ROCKS

16	BASALT	TERTIARY
17	DOLERITE	JURASSIC
18	GRANITE	CARB.-DEVONIAN
19	SERPENTINITES, PERIDOTITES	CAMBRIAN
20	DOLERITE	PRECAMBRIAN

PROFCAR

THIS VARIABLE RESULTS FROM A PHOTO-INTERPRETATIONAL STUDY OF PART OF N.W. TASMANIA CONDUCTED BY PROF. CAREY OF TAS. UNIV. FOR FURTHER INFORMATION SEE UNPUBLISHED REPORT: "NOTES TO ACCOMPANY THE PHOTO-INTERPRETATION OF THE COUNTRY BETWEEN THE ARTHUR AND PIEMAN RIVERS, TASMANIA" BY S. WARREN CAREY.

15 ROCK GROUPINGS HAVE BEEN UTILISED

SEDIMENTS

1	QUATERNARY DUNES	7	PRECAMBRIAN SIGMA GROUP
2	TERTIARY GRAVELS	8	PHI GROUP
3	PERMIAN TILLITE	9	EPSILON GROUP
4	ORD.-SIL. JUMEE GROUP	10	ALPHA GROUP
5	CAMBRIAN NU GROUP	11	RHO GROUP
6	UPSILON GROUP		

IGNEOUS

12 TERTIARY BASALT 14 DEVONIAN GRANITE
13 JURASSIC DOLERITE 15 EOCAMBRIAN KAPPA GROUP

VALUES OF -1 REPRESENT SAMPLES OUTSIDE OF
THE AREA OF PHOTO-INTERPRETATION

TOPO

A TOPOGRAPHICAL INDEX HAS BEEN ESTIMATED FROM OBSERVATIONS OF CONTOURS
ON THE 1:100 000 TOPOGRAPHICAL SHEETS AS FOLLOWS:

- 1 SWAMPY, MARSHY AREAS
- 2 LOW LYING
- 3 MODERATE TOPOGRAPHY
- 4 STEEP TOPOGRAPHY
- 5 VERY STEEP TOPOGRAPHY

SHPTYP

DISTINGUISHES BETWEEN TYPES OF SAMPLE

- 1 -80% STREAM SEDIMENTS
- 2 PANNEED CONCENTRATE

EAST NORTH

COORDINATES FOR ALL SAMPLES WERE DIGITISED USING A CALCOMP TABLE BY
TECHNICAL COMPUTER SYSTEMS IN ADELAIDE. ALL COORDINATES ARE IN A.M.S.
METRIC UNITS.

ANALYTICAL VARIABLES

ALL VALUES THAT ARE BELOW DETECTION LIMITS HAVE BEEN ENTERED AS
HALF OF DETECTION LIMIT

VALUES OF -1 INDICATE THAT A SAMPLE WAS NOT ANALYSED FOR A PARTICULAR
ELEMENT

REFERENCES

FOR FURTHER INFORMATION ON ANY PARTICULAR FILE, THE SOURCES ARE AS FOLLOWS:

FILE NAME

REPORT

(ON OPEN FILE AT TASMANIAN DEPT. OF MINES.)

ACCU	ACI	ANNUAL REPORT EL 48/70 AND EL 49/70. N.W. TASMANIA D.M. BELL JUNE 1972
ANZ3745	ANZECO	PROGRESS REPORT ON EL 3/74, WILSON RIVER, TASMANIA. J.D. LOCKHART JULY 1977

BPEAK	PICKANDS MATHER	BOND PEAK AREA, GEOLOGY AND STREAM SAMPLING SURVEY, W. SMITH APRIL 1968
ML2778U	MOUNT LYELL	PROGRESS REPORT EL 27/78, DONALDSON AREA M.J. HUTTON JANUARY 1981
PMINEX	PACMINEX	PROGRESS REPORT ON ACTIVITIES, SOUTHERN PART OF EL 18/74 PIEMAN RIVER, TASMANIA, TO JUNE 1ST. 1973 A.L. GOVEY JULY 1973
PM1265	PICKANDS MATHER	REGIONAL STREAM GEOCHEMICAL SURVEY EL 12/65 G.M. BAINBRIDGE JUNE 1967

CRA INTERNAL REPORTS

ARTHMCU	CRAE NO: 3787	THE ARTHUR RIVER Pb-ZN-CU ANOMALIES, A GEOCHEMICAL CASE HISTORY, T.M. PORTER FEBRUARY 1972
HAMPSS	CRAE NO: 3796	THE HAMPSHIRE URANIUM ANOMALIES AND THE POSSIBILITY OF ASSOCIATED SEDIMENTARY URANIUM IN N.W. TASMANIA, PRELIMINARY REPORT T.M. PORTER FEBRUARY 1972
HGMHCU	CRAE NO: 3795	EL 4/72 HIGHCLERE N.W. TASMANIA, FINAL REPORT T.M. PORTER AUGUST 1972
LYRIHVCU	CRAE NO: 3788	LYONS RIVER COPPER OCCURRENCE EL 43/70 N.W. TASMANIA, T.M. PORTER MAY 1972 DRAINAGE LEDGER, LYONS RIVER PROSPECT TASMANIA, T.M. PORTER APRIL 1972
LYTEA	CRAE NO: 7469	EL 10/73 LOYATEA, N.W. TASMANIA, FINAL REPORT T.M. PORTER FEBRUARY 1974
177SSU	CRAE NO: 9031	NORTHWEST TASMANIAN TIN PROJECT, PROGRESS REPORT, T.M. PORTER AUGUST 1977.

JONATHAN WEIR MAY 28 1982

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	FB	ZN	CU
210292	341021	5445830	5	2	1	-	12	-	6	12	1.000
188847	305701	5453002	3	2	1	12	9	1	8	5	1.000
188850	309201	5452691	3	3	1	6	9	7	8	2	2.000
188852	316271	5452456	4	2	1	12	11	7	5	18	5.000
188855	327315	5448855	4	2	1	-	12	5	15	90	38.000
188944	328235	5445535	3	2	1	5	12	5	10	190	55.000
188833	322461	5433542	4	3	1	12	9	9	8	2	1.000
188819	307779	5431715	3	2	1	13	9	1	10	2	1.000
188817	308036	5437902	4	2	1	6	9	1	5	8	2.000
188818	306126	5441829	3	2	1	1	9	1	2.500	1	1.000
188816	306177	5444193	4	2	1	6	9	1	5	2	2.000
188815	305469	5445499	3	2	1	6	9	1	2.500	2	1.000
188814	305691	5447139	3	2	1	12	9	1	2.500	2	2.000
188813	305832	5449962	3	2	1	12	1	1	2.500	2	2.000
188975	307673	5450214	2	2	1	6	9	9	2.500	5	5.000
188976	308134	5448107	2	2	1	-	9	7	2.500	5	1.000
188977	308231	5447447	2	2	1	-	9	7	2.500	5	1.000
188978	308295	5447204	2	2	1	6	9	8	10	5	1.000
188979	308158	5445933	2	2	1	9	9	8	5	5	2.000
188980	312234	5443994	3	2	1	6	9	7	5	5	1.000
188839	315496	5439166	4	3	1	12	9	8	1	2	1.000
188829	318456	5444419	3	2	1	12	9	8	2.500	1	1.000
188851	313716	5447409	6	2	1	14	9	7	8	5	2.000
188838	313371	5447887	6	2	1	9	9	7	5	5	5.000
188974	324764	5442893	4	2	1	14	9	7	5	40	8.000
188854	319581	5447640	1	2	1	14	9	7	5	2	5.000
188853	317747	5447435	2	2	1	6	9	8	2.500	1	1.000
188820	309687	5428093	2	2	1	12	9	1	2.500	5	1.000
188821	309696	5427390	3	2	1	6	9	1	2.500	5	1.000
188822	311139	5424081	3	2	1	10	9	1	2.500	1	1.000
188831	315207	5422113	4	2	1	9	9	12	2.500	5	1.000
188823	315618	5421687	3	2	1	9	9	1	10	8	2.000
188955	320988	5422293	3	2	1	6	9	9	2.500	2	1.000
188956	321041	5423145	2	3	1	6	9	9	2.500	2	1.000
188954	318892	5423387	2	3	1	9	9	12	5	2	1.000
188953	318905	5424465	4	3	1	9	9	12	2.500	2	1.000
188949	318056	5425150	3	3	1	6	9	12	2.500	2	2.000
188952	317518	5425621	3	3	1	6	9	8	2.500	5	2.000
188834	331054	5429201	4	2	1	-	9	8	8	5	85.000
188835	330547	5429093	5	2	1	-	9	7	8	1	2.000
188836	329432	5425780	4	3	1	13	9	8	5	1	2.000
188837	329913	5425538	5	3	1	9	9	9	5	1	2.000
188971	327438	5423090	3	3	1	6	9	8	2.500	2	2.000
188972	326951	5423132	2	3	1	6	9	8	2.500	5	5.000
188973	325468	5422622	2	2	1	6	9	8	5	2	1.000
188846	340028	5425226	5	2	1	-	9	-	5	5	1.000
188945	335190	5422931	4	2	1	10	9	-	5	2	1.000
188864	334085	5427232	2	3	1	15	9	-	10	8	2.000
188844	335102	5432528	5	2	1	6	11	-	5	5	1.000
188842	335056	5433139	4	2	1	6	11	-	2.500	2	2.000
188981	333055	5432598	2	3	1	20	11	-	8	110	35.000
188947	340335	5441573	3	3	1	15	9	-	5	8	1.000
188948	339148	5441781	4	3	1	12	9	-	15	60	12.000
188860	341289	5442071	5	3	1	4	9	-	12	8	5.000
188857	335585	5445418	3	3	1	14	7	-	18	170	32.000
188859	338305	5445453	3	3	1	15	7	-	12	32	5.000
188858	336408	5446686	3	3	1	12	7	-	15	900	20.000
188856	335412	5447358	2	2	1	12	7	-	40	250	70.000
188945	340741	5445988	5	2	1	5	12	-	10	15	5.000
188808	333776	5459660	5	1	1	1	1	-	10	90	42.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU
188809	334844	5459451	4	1	1	1	1	-	5	80	12.000
680422	336402	5428798	5	2	1	-	9	8	2.500	7	2.000
680421	336847	5429378	2	2	1	-	9	8	2.500	1	2.000
680420	336887	5429744	3	2	1	-	9	8	2.500	6	3.000
680423	337027	5430171	1	2	1	-	9	8	2.500	2	2.000
680427	335422	5432156	1	2	1	-	9	8	2.500	1	2.000
680428	335528	5432274	5	2	1	-	11	8	2.500	8	2.000
680426	335298	5432257	1	2	1	-	9	8	2.500	3	3.000
680437	334805	5432500	1	2	1	-	9	8	2.500	5	1.000
680440	333078	5432651	2	3	1	-	11	7	2.500	65	25.000
680429	335002	5433103	4	2	1	-	11	8	2.500	4	2.500
680436	335480	5433049	1	2	1	-	11	8	2.500	1.500	2.000
680435	335506	5433212	1	2	1	-	11	8	2.500	2.500	1.000
680424	336560	5433295	3	2	1	-	9	8	2.500	4	2.000
680432	335629	5433913	4	2	1	-	11	8	2.500	6	2.000
680425	335827	5434063	4	2	1	-	11	8	2.500	4	2.000
680431	335544	5434095	2	2	1	-	11	8	2.500	2	2.000
680433	335861	5434344	1	2	1	-	11	8	2.500	1	2.000
680434	336272	5434519	1	2	1	-	11	8	2.500	2.500	1.000
680476	336730	5435037	2	2	1	-	11	8	2.500	30	2.000
680477	337306	5435320	1	2	1	-	11	8	5	5	2.000
680492	337456	5434992	4	2	1	-	11	8	2.500	2.500	5.000
680485	337574	5434736	1	2	1	-	9	8	2.500	2	2.000
680475	337698	5435222	3	2	1	-	11	8	2.500	2.500	2.000
680474	337637	5435667	1	2	1	-	11	8	2.500	2.500	2.000
680479	337916	5435585	2	2	1	-	11	8	2.500	2.500	2.000
680472	338385	5435634	2	2	1	-	9	8	2.500	5	2.000
680471	338545	5435468	3	2	1	-	9	8	2.500	2	2.000
680478	338265	5435049	2	2	1	-	9	8	2.500	8	3.000
680481	339911	5436130	3	2	1	-	9	8	2.500	1	2.000
680490	339772	5436266	2	2	1	-	9	8	2.500	1.500	2.000
680483	340883	5436205	2	2	1	-	9	8	2.500	1.500	2.000
680482	340715	5436066	1	2	1	-	9	8	2.500	1.500	2.000
680484	341572	5435671	3	2	1	-	9	8	5	5	2.000
680430	335146	5433535	1	2	1	-	11	8	2.500	3	2.000
680511	335825	5440324	1	3	1	-	7	7	15	230	40.000
680510	335909	5440255	1	3	1	-	7	7	5	270	70.000
680509	335742	5440365	1	3	1	-	7	7	5	260	35.000
680508	335993	5440346	1	3	1	-	7	7	5	200	55.000
680507	335914	5440458	2	2	1	-	7	7	5	205	40.000
680506	335962	5440596	2	2	1	-	7	7	10	150	50.000
680505	335791	5440896	2	2	1	-	12	7	5	220	30.000
680504	335729	5440843	1	2	1	-	12	7	5	140	50.000
680503	335602	5441154	2	2	1	-	12	7	15	180	30.000
680502	335656	5441614	1	2	1	-	12	7	25	130	35.000
680501	335577	5441728	1	2	1	-	12	7	2.500	15	7.000
680515	335155	5441705	2	2	1	-	12	7	10	190	40.000
680500	334641	5442006	2	3	1	-	12	7	10	170	35.000
680528	334757	5442355	1	3	1	-	12	7	25	190	35.000
680529	334591	5442406	3	3	1	-	12	7	15	40	7.000
680530	334662	5443112	1	3	1	-	12	7	15	40	7.000
680531	334948	5443263	3	3	1	-	12	7	15	160	50.000
680532	335054	5443764	3	3	1	-	12	7	80	1000	45.000
680533	335122	5443503	3	3	1	-	12	7	910	3900	110.000
680534	334797	5443511	3	3	1	-	12	7	15	190	30.000
680535	334552	5443713	3	3	1	-	12	7	10	190	30.000
680536	334438	5443804	1	3	1	-	7	7	25	210	55.000
680493	334787	5444311	3	3	1	-	7	7	10	110	105.000
680495	335238	5444819	1	3	1	-	7	7	2.500	45	110.000
680496	335543	5445393	3	3	1	-	7	7	15	110	75.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU
680499	334436	5442236	2	3	1	-	7	7	10	260	45.000
680497	333445	5442141	1	2	1	-	7	7	25	260	50.000
680498	333427	5441979	1	2	1	-	7	7	15	210	60.000
680516	333918	5441702	1	3	1	-	7	7	10	200	25.000
680517	334081	5441654	2	3	1	-	7	7	15	140	20.000
680525	333368	5440465	1	2	1	-	7	7	2,500	40	5.000
680527	333600	5440938	2	3	1	-	7	7	10	140	40.000
680494	334684	5444380	1	3	1	-	7	7	25	120	140.000
670537	335037	5444682	1	3	1	-	8	7	5	205	80.000
670279	335908	5445645	3	3	1	-	7	7	2,500	190	25.000
670252	336568	5446249	6	3	1	-	12	7	290	4625	255.000
670276	336601	5446544	2	3	1	-	12	7	25	70	12.000
670277	336437	5446700	1	2	1	-	12	7	2,500	170	55.000
670281	335555	5447006	6	2	1	-	7	7	27	200	350.000
670283	334222	5446699	1	3	1	-	8	7	25	210	50.000
670282	335192	5447306	2	2	1	-	7	7	25	230	55.000
670280	335565	5447274	1	2	1	-	7	7	2,500	195	75.000
785772	338658	5448225	2	3	1	-	12	7	2,500	25	2.000
785775	339444	5449133	1	2	1	-	12	7	2,500	10	2.000
670260	341767	5441414	3	3	1	-	9	-	2,500	5	5.000
670259	341719	5441621	5	3	1	-	9	-	2,500	15	7.000
670258	341723	5442109	2	3	1	-	12	-	2,500	5	3.000
670257	340550	5442147	3	3	1	-	11	-	2,500	15	3.000
670268	339159	5441436	2	3	1	-	12	-	2,500	20	3.000
670269	338726	5441491	4	3	1	-	12	-	2,500	60	10.000
670270	338919	5441653	1	3	1	-	12	-	2,500	30	3.000
670253	339808	5443110	4	2	1	-	12	-	2,500	60	5.000
670254	340081	5443221	5	2	1	-	12	-	2,500	15	3.000
670256	340188	5442897	1	2	1	-	12	-	2,500	35	3.000
785611	332360	5451346	2	3	1	-	7	5	20	260	160.000
785612	332649	5452022	1	3	1	-	7	5	20	170	200.000
785613	333328	5453048	4	3	1	-	7	7	15	200	125.000
785614	334220	5452364	4	3	1	-	8	7	15	210	125.000
785615	333226	5454259	4	2	1	-	12	5	20	150	150.000
785616	333114	5453208	4	2	1	-	1	5	15	175	120.000
785623	334303	5455488	3	2	1	-	8	5	20	220	175.000
785617	333966	5453837	4	2	1	-	12	5	20	175	130.000
785618	334642	5456293	3	2	1	-	12	5	10	90	140.000
785619	335224	5457163	2	2	1	-	1	5	20	70	40.000
785620	335789	5457575	3	3	1	-	12	5	20	200	100.000
785624	337198	5458025	2	3	1	-	8	5	15	90	80.000
785625	338304	5458544	3	3	1	-	8	7	20	219	125.000
785626	338303	5458804	4	3	1	-	8	7	20	85	60.000
785608	337492	5458884	4	2	1	-	8	7	15	80	25.000
785609	337736	5459402	2	2	1	-	1	5	15	60	30.000
785627	335866	5459391	4	2	1	-	1	5	20	90	175.000
785628	335323	5459379	3	2	1	-	1	6	10	30	30.000
785605	338204	5454035	3	2	1	-	7	7	20	90	60.000
785607	338376	5451735	2	2	1	-	8	7	20	55	70.000
785606	338562	5450464	2	2	1	-	12	7	10	25	15.000
785774	338844	5450118	1	2	1	-	12	7	2,500	90	50.000
785601	339576	5451302	1	2	1	-	7	7	15	60	60.000
785602	341739	5451307	3	3	1	-	12	7	20	40	15.000
670505	336318	5451346	4	3	1	-	7	7	10	190	85.000
670502	336590	5450994	1	3	1	-	7	7	15	230	45.000
670501	336931	5450699	5	3	1	-	7	7	15	190	130.000
670500	337011	5450882	3	3	1	-	8	7	10	110	35.000
670510	338783	5450945	2	2	1	-	12	7	5	20	7.000
670495	338112	5450866	2	2	1	-	8	7	10	250	45.000
670497	337624	5451043	3	3	1	-	8	7	10	150	30.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU
670496	337617	5451225	1	3	1	-	8	7	10	55	55.000
670493	338526	5451294	2	2	1	-	8	7	10	140	80.000
670487	340023	5452141	1	2	1	-	8	7	5	85	90.000
670484	339530	5452350	2	2	1	-	8	7	35	240	660.000
670504	336331	5451509	1	3	1	-	7	7	35	260	80.000
785621	336173	5451719	4	3	1	-	7	7	20	30	90.000
670247	341564	5446585	5	2	1	-	12	7	5	35	3.000
670246	341683	5446644	2	2	1	-	12	7	5	15	3.000
670248	340531	5446579	2	3	1	-	12	7	2.500	5	2.000
670274	340477	5445341	2	3	1	-	16	-	2.500	10	3.000
670275	341037	5445570	2	3	1	-	16	-	2.500	10	2.000
670273	340641	5444473	2	3	1	-	12	7	2.500	50	10.000
785693	325740	5459995	1	1	1	-	1	-	2.500	25	2.000
680311	331713	5421296	1	2	1	-	9	8	2.500	4	7.000
680313	330761	5422775	5	2	1	-	9	8	2.500	4	2.000
680312	330420	5422545	3	2	1	-	9	8	2.500	4	3.000
680316	330260	5424304	2	3	1	-	9	8	2.500	2.500	2.000
680314	329882	5424380	3	3	1	-	9	8	2.500	1	2.000
680315	330080	5424453	5	3	1	-	9	8	2.500	2	3.000
680317	330039	5424905	1	3	1	-	9	9	2.500	2	2.000
680318	329612	5424964	1	3	1	-	9	9	2.500	2.500	2.000
680320	328582	5425766	4	2	1	-	9	8	2.500	5	5.000
680319	329504	5425974	5	4	1	-	9	9	2.500	1	3.000
680321	328505	5426259	2	2	1	-	9	8	2.500	5	3.000
680322	329993	5427367	2	3	1	-	9	15	2.500	2	3.000
785599	316829	5426499	2	3	1	-	9	8	2.500	25	10.000
785581	316800	5425502	2	2	1	-	9	8	2.500	40	15.000
785582	317165	5425443	3	2	1	-	9	8	2.500	40	15.000
785583	317890	5425282	3	2	1	-	9	12	2.500	25	15.000
785584	318138	5425160	1	2	1	-	9	12	2.500	20	30.000
785585	319252	5425298	2	2	1	-	9	12	2.500	15	10.000
785586	319410	5425040	2	2	1	-	9	12	2.500	20	25.000
785587	319630	5424552	2	2	1	-	9	12	2.500	20	30.000
785588	319952	5423831	2	2	1	-	9	8	2.500	20	10.000
785589	321340	5424248	2	2	1	-	9	8	2.500	15	10.000
785590	321635	5425342	3	2	1	-	9	8	2.500	15	20.000
785591	321602	5425527	1	2	1	-	9	8	1.500	15	15.000
785592	321036	5426360	1	2	1	-	9	8	2.500	10	10.000
785593	320742	5426674	1	2	1	-	9	8	3.500	20	15.000
785594	320677	5426839	1	2	1	-	9	8	2.500	15	10.000
785595	319962	5426980	2	2	1	-	9	8	2.500	10	10.000
785596	319614	5427153	1	2	1	-	9	8	2.500	15	10.000
785597	319098	5427090	2	2	1	-	9	8	3.500	75	15.000
785598	318969	5427999	3	2	1	-	9	8	2.500	85	15.000
780461	311223	5422838	2	1	1	-	9	1	2.500	15	5.000
780462	312003	5422009	2	2	1	-	9	1	2.500	15	5.000
780372	315310	5423086	2	3	1	-	9	12	5	15	3.000
780364	315068	5421816	4	3	1	-	9	12	10	25	7.000
780363	315203	5421640	3	3	1	-	9	1	10	20	5.000
780365	314827	5421316	4	3	1	-	9	1	120	25	40.000
780366	314717	5421080	1	2	1	-	9	12	60	20	25.000
780371	315271	5421962	1	3	1	-	9	12	5	20	15.000
780373	315564	5423012	4	3	1	-	9	12	5	15	3.000
780470	319332	5421366	3	3	1	-	9	8	2.500	85	35.000
780475	322458	5423006	2	3	1	-	9	9	2.500	40	15.000
780474	322433	5423630	1	2	1	-	9	9	2.500	20	15.000
780473	322290	5422661	2	2	1	-	9	9	2.500	25	10.000
780468	322466	5421743	3	3	1	-	9	9	2.500	20	10.000
795154	309277	5442724	1	3	1	-	9	8	55	30	3.000
795152	309673	5442861	4	3	1	-	9	8	70	45	5.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEO	FORMGEO	PROFGR	PB	ZN	CU
795165	309575	5442703	3	2	1	-	9	8	10	30	5.000
795156	310314	5441675	1	1	1	-	9	1	20	25	3.000
795157	310494	5441760	1	1	1	-	9	1	55	20	3.000
795160	310826	5441955	4	2	1	-	9	7	20	25	5.000
785761	303451	5458546	2	2	1	-	9	-	2.500	25	2.000
670327	307209	5453192	7	2	1	-	9	1	105	250	75.000
670326	307015	5452983	2	2	1	-	9	1	2.500	15	10.000
670325	308377	5453274	3	3	1	-	9	7	2.500	20	25.000
670324	308795	5452679	7	2	1	-	9	7	215	250	130.000
670323	309463	5452912	1	3	1	-	9	7	2.500	27	10.000
670322	309726	5452499	2	2	1	-	9	7	2.500	15	5.000
670321	310769	5452506	3	3	1	-	9	7	2.500	10	5.000
670320	310764	5452063	2	2	1	-	9	7	2.500	10	10.000
670319	311070	5451449	2	2	1	-	9	7	2.500	10	10.000
670318	311439	5451746	7	2	1	-	9	7	130	330	80.000
670317	311472	5451889	1	3	1	-	9	7	2.500	10	10.000
670315	313504	5451537	2	3	1	-	9	7	2.500	10	5.000
670316	313356	5451556	6	3	1	-	9	7	870	250	215.000
670314	314203	5452229	2	3	1	-	9	7	2.500	160	5.000
670313	314324	5452945	1	3	1	-	9	7	2.500	15	10.000
670312	314476	5453047	2	3	1	-	9	7	2.500	25	10.000
670311	314855	5452769	2	3	1	-	9	7	2.500	10	10.000
670310	314958	5451659	6	3	1	-	9	7	160	770	135.000
670309	315299	5451741	4	3	1	-	9	7	2.500	20	35.000
670308	314731	5450229	1	3	1	-	9	7	2.500	20	10.000
670307	314234	5449211	1	3	1	-	9	7	2.500	10	5.000
670304	317016	5448677	6	3	1	-	9	7	215	1400	140.000
670303	317034	5448937	1	3	1	-	9	7	2.500	10	5.000
670302	317716	5447632	2	4	1	-	9	8	10	70	15.000
670301	319300	5447445	1	3	1	-	9	7	2.500	15	5.000
670300	319223	5446980	2	3	1	-	9	7	5	95	10.000
670299	319453	5446984	6	3	1	-	9	7	200	1400	110.000
670298	319679	5446543	3	4	1	-	9	7	5	20	10.000
670297	321625	5446214	2	4	1	-	9	7	5	70	25.000
670296	322014	5445663	3	4	1	-	9	7	2.500	25	10.000
670295	323166	5447041	3	2	1	-	12	7	5	70	20.000
670294	323240	5446640	6	2	1	-	12	7	250	1000	190.000
670292	323790	5445659	2	3	1	-	9	7	25	190	14.000
670291	325616	5446834	2	3	1	-	7	7	2.500	70	20.000
670290	326258	5448444	3	2	1	-	12	5	30	225	35.000
670289	327240	5448801	6	2	1	-	12	5	225	2400	165.000
670288	327443	5448863	4	2	1	-	12	5	80	355	70.000
670293	323971	5445787	4	2	1	-	12	7	2.500	80	15.000
680298	312207	5450158	2	3	1	-	9	7	2.500	15	5.000
680297	313355	5450155	1	3	1	-	9	7	2.500	10	5.000
680296	313172	5449602	6	3	1	-	9	7	2.500	25	10.000
680295	313400	5449596	1	3	1	-	9	7	2.500	15	5.000
680294	312754	5449014	6	3	1	-	9	7	2.500	25	5.000
680293	312771	5447966	2	3	1	-	9	7	2.500	25	5.000
680292	313863	5447244	6	2	1	-	9	7	2.500	20	5.000
680291	313632	5447264	2	2	1	-	9	7	2.500	20	10.000
680290	314149	5447550	1	2	1	-	9	7	15	30	30.000
680289	315035	5446854	1	3	1	-	9	7	10	20	10.000
680288	314955	5446461	6	3	1	-	9	7	2.500	20	10.000
680287	314745	5446513	2	3	1	-	9	7	2.500	15	5.000
680286	315164	5445835	3	3	1	-	9	7	2.500	30	10.000
680285	315458	5446099	1	3	1	-	9	7	5	30	10.000
680284	315625	5446056	6	3	1	-	9	7	2.500	10	5.000
680283	315632	5445881	2	3	1	-	9	7	2.500	10	5.000
680279	317126	5444376	1	3	1	-	9	7	2.500	30	5.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU	
680278	317463	5444816	1	3	1	-	9	7	2.500	45	5.000	)
680277	317843	5444877	1	3	1	-	9	7	2.500	70	5.000	)
680276	317806	5443800	6	3	1	-	9	7	2.500	60	15.000	)
680275	317809	5443941	1	3	1	-	9	7	2.500	70	5.000	)
680274	318460	5441762	6	3	1	-	9	7	2.500	10	10.000	)
680273	318568	5442003	1	2	1	-	9	7	2.500	25	5.000	)
680271	319893	5439021	3	3	1	-	9	7	2.500	40	15.000	)
680270	320532	5439398	6	3	1	-	9	7	2.500	45	25.000	)
680269	320495	5439222	1	3	1	-	9	7	5	5	15.000	)
680268	321062	5439722	2	3	1	-	9	7	2.500	10	10.000	)
680267	321731	5438449	6	3	1	-	9	7	2.500	25	10.000	)
680266	321528	5438538	1	3	1	-	9	7	5	80	15.000	)
680546	317774	5436301	3	1	1	-	9	8	10	2.500	5.000	)
680545	319012	5436456	2	2	1	-	9	9	5	2.500	3.000	)
680544	318810	5436282	3	2	1	-	9	8	10	2.500	3.000	)
680547	317984	5435037	3	2	1	-	9	8	5	2.500	3.000	)
680543	318593	5434685	2	2	1	-	9	8	5	2.500	3.000	)
680549	318124	5433786	2	2	1	-	9	8	5	2.500	7.000	)
680548	318387	5433966	1	2	1	-	9	8	10	2.500	10.000	)
680542	319605	5434190	3	2	1	-	9	9	10	2.500	3.000	)
680550	319554	5432145	1	2	1	-	9	9	5	2.500	20.000	)
680541	321205	5431993	2	1	1	-	9	8	5	2.500	2.000	)
680540	321348	5431897	3	1	1	-	9	8	10	2.500	2.000	)
680469	325093	5431599	1	3	1	-	11	7	2.500	2.500	3.000	)
680470	325130	5431360	6	3	1	-	11	7	2.500	1	2.000	)
680468	325412	5431309	1	3	1	-	11	7	2.500	2.500	2.000	)
680465	326016	5431449	1	3	1	-	12	7	2.500	2.500	2.000	)
680466	326232	5431413	6	3	1	-	12	7	2.500	2.500	2.000	)
680467	325967	5430833	2	3	1	-	9	7	2.500	2.500	2.000	)
680462	326594	5431922	1	2	1	-	12	7	280	2.500	2.000	)
680461	326771	5431947	1	2	1	-	12	7	2.500	4	6.000	)
680463	326713	5431365	6	4	1	-	12	9	5	40	10.000	)
680464	326585	5431141	1	4	1	-	9	9	2.500	2.500	2.000	)
680460	327275	5431472	2	2	1	-	9	7	10	60	20.000	)
680459	327924	5431357	1	3	1	-	7	7	5	90	90.000	)
680453	329099	5432140	1	3	1	-	7	7	2.500	2	5.000	)
680458	326365	5431422	1	3	1	-	7	7	2.500	9	40.000	)
680451	329130	5433004	2	3	1	-	7	7	5	50	20.000	)
680450	329490	5432854	5	3	1	-	7	7	5	45	10.000	)
680449	330130	5432876	2	3	1	-	7	7	5	20	10.000	)
680452	329585	5432259	1	3	1	-	7	7	10	90	70.000	)
680455	328822	5431959	1	3	1	-	7	7	2.500	65	55.000	)
680454	329056	5431553	1	3	1	-	7	7	2.500	6	3.000	)
680456	328783	5431332	5	3	1	-	7	7	5	45	25.000	)
680457	328719	5430975	5	3	1	-	9	7	2.500	4	5.000	)
680448	331230	5432549	1	3	1	-	7	7	5	15	25.000	)
680447	331447	5432721	1	3	1	-	7	7	2.500	43	-	)
680446	331674	5432662	1	3	1	-	7	7	2.500	40	3.000	)
680445	332034	5432678	3	3	1	-	7	7	2.500	50	10.000	)
680444	331937	5432333	5	3	1	-	9	7	2.500	20	15.000	)
680443	331792	5431755	1	3	1	-	9	7	2.500	110	60.000	)
680522	331295	5438043	1	3	1	-	7	7	25	30	30.000	)
680523	331149	5437907	2	3	1	-	7	7	25	230	35.000	)
680521	331501	5438160	2	3	1	-	7	7	10	170	30.000	)
680520	331617	5438068	1	3	1	-	7	7	2.500	35	10.000	)
680524	331291	5437746	2	3	1	-	7	7	5	45	7.000	)
670329	329140	5446363	2	2	1	-	12	5	15	120	55.000	)
670330	328684	5445346	3	2	1	-	7	7	30	170	80.000	)
670567	329388	5445324	3	3	1	-	7	7	20	170	50.000	)
670564	330372	5445354	1	3	1	-	7	7	15	150	55.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU	
670563	330429	5445226	3	3	1	-	7	7	15	130	70.000	)
670561	330831	5444908	3	3	1	-	8	7	10	120	45.000	)
670560	330770	5444778	2	3	1	-	8	7	15	200	50.000	)
670556	331325	5444540	1	3	1	-	7	7	10	160	75.000	)
670557	331188	5444423	2	3	1	-	7	7	15	170	80.000	)
670331	328362	5444766	2	2	1	-	7	7	15	120	80.000	)
670333	328085	5444720	3	2	1	-	12	7	10	130	80.000	)
670332	328304	5444616	1	2	1	-	7	7	15	200	100.000	)
670482	328931	5444462	2	3	1	-	7	7	15	100	60.000	)
670481	328617	5444103	1	3	1	-	7	7	10	110	60.000	)
670480	328341	5443610	1	3	1	-	7	7	5	110	50.000	)
670334	327877	5443421	3	3	1	-	7	7	2.500	7	10.000	)
670335	327691	5442865	2	3	1	-	7	7	55	75	30.000	)
670339	327832	5442902	3	3	1	-	7	7	25	190	100.000	)
670338	328011	5442437	1	3	1	-	7	7	90	200	120.000	)
670337	328280	5442485	2	3	1	-	8	7	15	22	130.000	)
670336	328200	5442332	2	3	1	-	7	7	140	55	10.000	)
670537	329027	5442610	3	3	1	-	7	7	5	205	80.000	)
670539	329097	5442434	2	3	1	-	8	7	2.500	210	90.000	)
670540	328932	5442414	1	3	1	-	8	7	2.500	170	80.000	)
670549	328389	5441948	1	3	1	-	8	7	2.500	290	170.000	)
670548	328285	5441652	2	3	1	-	8	7	2.500	230	115.000	)
670545	328773	5441299	2	3	1	-	7	7	2.500	230	85.000	)
670543	329082	5441341	2	3	1	-	7	7	2.500	190	80.000	)
670546	328722	5441168	1	3	1	-	7	7	2.500	140	100.000	)
670547	328333	5440971	1	3	1	-	7	7	2.500	350	180.000	)
670461	325452	5441382	3	3	1	-	7	7	2.500	80	35.000	)
670462	325808	5441280	1	3	1	-	7	7	2.500	40	5.000	)
670463	325814	5441150	1	3	1	-	7	7	2.500	50	15.000	)
670464	326359	5441069	3	2	1	-	12	7	2.500	80	30.000	)
670449	327214	5441265	2	3	1	-	-	7	90	130	10.000	)
670470	327244	5440493	1	2	1	-	7	7	15	130	125.000	)
670468	327371	5440201	1	2	1	-	7	7	5	240	10.000	)
670469	327360	5440046	1	2	1	-	7	7	5	270	50.000	)
670532	327546	5439356	2	3	1	-	7	7	2.500	80	20.000	)
670533	327801	5439281	2	3	1	-	7	7	2.500	40	10.000	)
670531	327412	5439250	2	3	1	-	7	7	2.500	40	10.000	)
670527	327358	5439463	3	3	1	-	7	7	15	90	45.000	)
670526	327246	5439540	3	3	1	-	7	7	10	70	50.000	)
670525	327125	5439569	3	3	1	-	7	7	35	340	175.000	)
670467	327101	5439941	3	3	1	-	7	7	5	110	10.000	)
670466	327125	5440069	3	3	1	-	7	7	2.500	45	10.000	)
670523	325978	5439614	1	3	1	-	7	3	5	5	7.000	)
670524	325931	5439838	2	3	1	-	7	7	10	30	55.000	)
670465	326781	5440426	3	3	1	-	7	7	2.500	110	30.000	)
670457	325626	5440587	2	3	1	-	7	7	5	25	30.000	)
670458	325444	5440644	3	3	1	-	7	7	15	40	510.000	)
670455	325589	5440736	2	3	1	-	7	7	2.500	25	50.000	)
670459	325466	5441010	3	3	1	-	7	7	2.500	30	40.000	)
670460	325411	5441243	3	3	1	-	7	7	2.500	40	65.000	)
785748	316699	5453822	4	2	1	-	11	7	2.500	55	10.000	)
785751	318792	5450924	2	3	1	-	9	7	2.500	25	10.000	)
785744	319474	5449368	2	2	1	-	9	7	2.500	40	5.000	)
785745	320046	5449836	1	3	1	-	9	7	2.500	25	5.000	)
785719	321793	5451676	2	2	1	-	12	7	2.500	25	5.000	)
785718	321448	5452034	2	2	1	-	12	7	2.500	20	10.000	)
785717	320949	5452482	2	2	1	-	12	7	2.500	20	5.000	)
785740	320558	5453930	1	2	1	-	12	7	10	65	5.000	)
785731	319851	5453893	1	2	1	-	12	5	2.500	15	2.000	)
785759	320595	5458844	1	1	1	-	1	5	2.500	20	2.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	FB	ZN	CU	
785728	321219	5456567	1	2	1	-	1	5	2.500	55	5.000	)
785730	320291	5455886	2	2	1	-	12	7	2.500	25	5.000	)
785755	321164	5454301	2	3	1	-	7	7	2.500	50	5.000	)
785752	321962	5452882	2	2	1	-	12	7	2.500	80	20.000	)
785754	322424	5452831	1	2	1	-	7	7	5	75	15.000	)
785753	321938	5452351	2	2	1	-	12	7	2.500	40	10.000	)
785720	323374	5450771	2	3	1	-	7	7	2.500	125	20.000	)
785723	324577	5454506	1	1	1	-	12	5	10	65	15.000	)
785724	324770	5454567	2	1	1	-	12	5	2.500	55	10.000	)
785812	327468	5452945	1	2	1	-	12	6	2.500	65	10.000	)
785811	328542	5450494	1	1	1	-	12	6	2.500	210	10.000	)
785810	329389	5450362	3	2	1	-	12	5	2.500	100	65.000	)
785809	330116	5449058	3	2	1	-	12	5	2.500	40	30.000	)
785695	326306	5458143	1	1	1	-	1	5	2.500	85	5.000	)
785697	326337	5457468	1	1	1	-	1	5	2.500	40	5.000	)
785696	327761	5453443	3	1	1	-	12	5	2.500	80	2.000	)
785610	331184	5450141	3	2	1	-	9	7	15	220	150.000	)
680281	316804	5444944	6	3	1	-	9	7	2.500	70	5.000	)
680280	316537	5444898	2	3	1	-	9	7	2.500	25	5.000	)
670305	315512	5448794	2	3	1	-	9	7	2.500	20	5.000	)
670306	314516	5448959	1	3	1	-	9	7	2.500	5	10.000	)
680282	316526	5445823	2	3	1	-	9	7	2.500	5	5.000	)
785727	321626	5456182	1	2	1	-	1	5	5	60	10.000	)
785729	320108	5455558	1	2	1	-	7	7	2.500	35	5.000	)
785757	320207	5455261	2	2	1	-	12	5	2.500	45	10.000	)
785725	323684	5454705	2	1	1	-	12	5	2.500	150	25.000	)
785722	324594	5454533	1	1	1	-	12	5	90	75	10.000	)
785741	320121	5453603	3	2	1	-	12	7	2.500	80	5.000	)
785742	319295	5451616	2	2	1	-	12	7	2.500	30	2.000	)
785756	323380	5451492	1	2	1	-	7	7	2.500	40	5.000	)
785721	323135	5450610	1	3	1	-	7	7	2.500	90	10.000	)
785743	319475	5449953	2	3	1	-	9	7	2.500	40	2.000	)
785750	315260	5453670	2	2	1	-	9	8	2.500	15	5.000	)
670273	340670	5444457	2	3	1	-	12	7	2.500	50	10.000	)
670486	340044	5452228	1	2	1	-	8	7	10	90	70.000	)
670488	339227	5452219	2	2	1	-	8	7	25	170	110.000	)
670490	338741	5451999	2	2	1	-	8	7	25	205	120.000	)
670491	338951	5452135	2	2	1	-	8	7	25	160	160.000	)
670492	338931	5452247	1	2	1	-	8	7	25	200	90.000	)
670494	338074	5450568	3	2	1	-	12	7	5	65	10.000	)
670498	337272	5451137	1	3	1	-	8	7	10	85	50.000	)
670499	337081	5451041	1	3	1	-	8	7	15	200	75.000	)
670500	336932	5450704	3	3	1	-	8	7	10	10	35.000	)
670503	336495	5451277	1	3	1	-	7	7	25	200	70.000	)
670506	336057	5451737	4	3	1	-	7	7	15	190	60.000	)
670507	336045	5451992	1	3	1	-	7	7	85	290	75.000	)
670508	335910	5452024	3	3	1	-	7	7	15	180	80.000	)
670509	335656	5451663	3	3	1	-	7	7	15	260	55.000	)
680486	338222	5433465	1	2	1	-	9	8	2.500	1	2.000	)
680487	338583	5432949	1	2	1	-	9	8	2.500	1	2.000	)
680488	338820	5432692	2	2	1	-	9	8	2.500	1	2.000	)
680489	339972	5432391	4	2	1	-	9	8	2.500	2	2.000	)
680490	338693	5433523	2	2	1	-	9	8	2.500	5	2.000	)
680491	338700	5433303	2	2	1	-	9	8	2.500	1	2.000	)
680526	333647	5440843	1	3	1	-	7	7	30	130	30.000	)
780502	341875	5458564	4	3	1	-	7	7	10	55	15.000	)
780503	341622	5458712	3	3	1	-	7	7	10	200	40.000	)
785608	337431	5458748	4	2	1	-	8	7	15	80	25.000	)
785609	337728	5459413	2	2	1	-	1	5	15	60	30.000	)
785629	337270	5459418	2	2	1	-	1	5	20	230	35.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEO	FORMGEO	PROFGR	PB	ZN	CU
785622	335361	5451960	3	3	1	-	7	7	15	290	70.000
785604	341605	5452656	3	2	1	-	12	7	15	160	35.000
785771	340007	5447362	1	3	1	-	12	7	2.500	40	2.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
210292	7	4	-	-	-	-
188847	2.500	-	-	-	-	-
188850	2.500	-	-	-	-	-
188852	15	-	-	-	-	-
188855	30	-	-	-	-	-
188944	-	-	-	-	-	-
188833	2.500	-	-	-	10	-
188819	2.500	-	-	-	4	-
188817	2.500	-	-	-	10	-
188818	2.500	-	-	-	10	-
188816	2.500	-	-	-	12	-
188815	2.500	-	-	-	12	-
188814	2.500	-	-	-	340	-
188813	2.500	-	-	-	95	-
188975	-	-	-	-	-	-
188976	-	-	-	-	-	-
188977	-	-	-	-	-	-
188978	-	-	-	-	-	-
188979	-	-	-	-	-	-
188980	-	-	-	-	-	-
188839	-	-	-	-	-	-
188829	2.500	-	-	-	4	-
188851	2.500	-	-	-	-	-
188838	2.500	-	-	-	85	-
188974	-	-	-	-	-	-
188854	2.500	-	-	-	-	-
188853	2.500	-	-	-	-	-
188820	2.500	-	-	-	26	-
188821	2.500	-	-	-	4	-
188822	2.500	-	-	-	10	-
188831	2.500	-	-	-	2	-
188823	2.500	-	-	-	4	-
188955	-	-	-	-	-	-
188956	-	-	-	-	-	-
188954	-	-	-	-	-	-
188953	-	-	-	-	-	-
188949	-	-	-	-	-	-
188952	-	-	-	-	-	-
188834	2.500	-	-	-	800	-
188835	2.500	-	-	-	2	-
188836	2.500	-	-	-	2	-
188837	2.500	-	-	-	2	-
188971	-	-	-	-	-	-
188972	-	-	-	-	-	-
188973	-	-	-	-	-	-
188846	2.500	-	-	-	-	-
188845	2.500	-	-	-	-	-
188864	5	-	-	-	120	-
188844	2.500	-	-	-	-	-
188842	2.500	-	-	-	-	-
188981	-	-	-	-	-	-
188947	-	-	-	-	-	-
188948	-	-	-	-	-	-
188860	8	-	-	-	8	-
188857	85	-	-	-	30	-
188852	8	-	-	-	44	-
188858	30	-	-	-	110	-
188856	200	-	-	-	-	-
188945	-	-	-	-	-	-
188808	150	-	-	-	-	-

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
188809	38	-	-	-	-	-
680422	2.500	7	1.500	5	-	1
680421	7	7	1.500	2.500	-	1
680420	7	7	1.500	2.500	-	1
680423	2.500	5	1.500	2.500	-	1
680427	2.500	7	1.400	2.500	-	1
680428	15	2.500	1.500	2.500	-	1
680426	2.500	5	1.500	2.500	-	1
680437	7	2.500	1.500	5	-	1
680440	25	20	1.500	5	-	2
680429	6	2.500	1.500	2.500	-	1
680436	5	2.500	1.500	2.500	-	1
680435	2.500	2.500	1.500	2.500	-	1
680424	7	5	1.500	2.500	-	1
680432	5	2.500	1.500	2.500	-	1
680425	2.500	5	2.500	5	-	1
680431	7	2.500	1.500	2.500	-	1
680433	5	2.500	1.500	2.500	-	1
680434	7	2.500	1.500	2.500	-	1
680476	7	3	1.500	2.500	-	1
680477	7	3	1.500	2.500	-	1
680492	10	7	1.500	15	-	1
680485	15	7	1.500	2.500	-	1
680475	10	3	1.500	2.500	-	1
680474	7	2.500	1.500	2.500	-	1
680479	15	3	1.500	2.500	-	1
680472	7	2.500	1.500	2.500	-	1
680471	10	2.500	1.500	2.500	-	1
680478	5	3	1.500	2.500	-	2
680481	10	3	1.500	2.500	-	1
680480	10	3	1.500	2.500	-	1
680483	10	7	1.500	2.500	-	1
680482	10	3	1.500	2.500	-	1
680484	15	3	1.500	5	-	1
680430	7	2.500	1.500	2.500	-	1
680511	100	45	1.500	2.500	-	5
680510	210	40	1.500	2.500	-	5
680509	125	30	1.500	2.500	-	5
680508	145	55	1.500	2.500	-	5
680507	130	30	1.500	2.500	-	10
680506	90	25	1.500	2.500	-	5
680505	135	20	1.500	2.500	-	5
680504	75	7	1.500	2.500	-	15
680503	100	30	1.500	2.500	-	5
680502	90	20	1.500	2.500	-	2
680501	2.500	60	1.500	2.500	-	2
680515	90	45	1.500	2.500	-	4
680500	70	50	1.500	2.500	-	2
680528	85	45	1.500	2.500	-	7
680529	2.500	45	1.500	2.500	-	2
680530	2.500	10	1.500	2.500	-	2
680531	70	45	1.500	5	-	5
680532	25	25	1.500	5	-	10
680533	160	130	1.500	10	-	-
680534	65	25	1.500	5	-	3
680535	75	30	1.500	2.500	-	3
680536	150	50	1.500	5	-	12
680493	80	5	1.500	5	-	3
680495	10	10	1.500	5	-	6
680496	110	5	1.500	2.500	-	6

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
680499	150	30	1.500	2.500	-	5
680497	145	2.500	1.500	2.500	-	10
680498	150	2.500	1.500	2.500	-	5
680516	100	30	1.500	2.500	-	4
680517	80	7	1.500	2.500	-	4
680525	5	30	1.500	5	-	1
680527	65	30	1.500	5	-	10
680494	215	75	1.500	2.500	-	15
670537	145	70	1.500	5	-	10
670279	55	2.500	35	2.500	-	-
670252	10	-	1.500	2.500	-	20
670276	25	3	1.500	2.500	-	-
670277	75	5	1.500	2.500	-	2
670281	20	20	1.500	2.500	-	5
670283	85	35	1.500	2.500	-	2
670282	160	55	1.500	2.500	-	2
670280	145	55	1.500	2.500	-	-
785772	2.500	2.500	1.500	2.500	0.500	1
785775	2.500	2.500	1.500	5	0.500	1
670260	1.500	2.500	1.500	2.500	-	1
670259	3	5	1.500	2.500	-	1
670258	5	2.500	1.500	2.500	-	1
670257	3	5	1.500	2.500	-	1
670268	7	2.500	10	2.500	-	-
670269	15	2.500	2	2.500	-	-
670270	15	2.500	7	2.500	-	-
670253	1.500	5	1.500	2.500	-	1
670254	3	2.500	1.500	2.500	-	1
670256	1.500	2.500	1.500	2.500	-	1
785611	150	70	1.500	2.500	1	2
785612	70	50	1.500	2.500	3	2
785613	100	60	1.500	2.500	1	3
785614	100	70	1.500	2.500	3	2
785615	100	65	1.500	2.500	3	2
785616	125	55	1.500	2.500	2	3
785623	120	75	1.500	2.500	7	4
785617	140	65	1.500	2.500	2	2
785618	100	60	1.500	2.500	2	3
785619	40	25	1.500	5	2	1
785620	135	65	1.500	2.500	4	6
785624	130	60	1.500	2.500	1	2
785625	150	70	1.500	2.500	2	7
785626	90	50	1.500	2.500	2	1
785608	70	35	1.500	2.500	2	1
785609	40	20	1.500	5	2	1
785627	150	115	1.500	5	3	45
785628	60	40	1.500	5	3	1
785605	90	50	1.500	10	2	1
785607	100	40	1.500	5	1	1
785606	15	15	1.500	5	20	1
785774	75	15	1.500	10	1	2
785601	65	45	1.500	5	0.500	1
785602	20	25	1.500	10	1	1
670505	120	30	1.500	2.500	-	3
670502	150	30	1.500	2.500	-	4
670501	90	50	1.500	2.500	-	10
670500	45	30	1.500	2.500	-	5
670510	15	7	1.500	2.500	-	2
670495	150	85	1.500	2.500	-	5
670497	70	50	1.500	2.500	-	7

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
670496	45	30	1.500	2.500	-	5
670493	60	30	1.500	2.500	-	4
670487	45	7	1.500	2.500	-	10
670484	55	45	1.500	2.500	-	-
670504	225	35	1.500	2.500	-	-
785621	85	45	1.500	2.500	1	2
670247	3	-	1.500	2.500	-	1
670246	5	-	1.500	2.500	-	1
670248	2.500	-	1.500	2.500	-	1
670274	2.500	2.500	5	2.500	-	-
670275	10	2.500	5	2.500	-	-
670273	20	3	1.500	2.500	-	-
785693	5	2.500	1.500	2.500	1	1
680311	2.500	2.500	1.500	2.500	-	1
680313	10	2.500	1.500	2.500	-	1
680312	2.500	2.500	1.500	2.500	-	1
680316	3	2.500	1.500	2.500	-	1
680314	2.500	2.500	1.500	2.500	-	1
680315	2.500	2.500	1.500	2.500	-	1
680317	3	2.500	1.500	2.500	-	1
680318	2.500	2.500	1.500	2.500	-	1
680320	2.500	2.500	1.500	2.500	-	1
680319	2.500	2.500	1.500	2.500	-	1
680321	2.500	2.500	1.500	2.500	-	1
680322	2.500	2.500	1.500	2.500	-	2
785599	15	2.500	1.500	2.500	0.500	1
785581	2.500	2.500	1.500	2.500	5	2
785582	2.500	2.500	1.500	2.500	0.500	1
785583	5	2.500	1.500	2.500	0.500	1
785584	5	2.500	1.500	10	1	9
785585	5	2.500	1.500	2.500	0.500	1
785586	5	2.500	1.500	70	5	10
785587	5	5	1.500	10	0.500	10
785588	10	10	1.500	2.500	0.500	1
785589	10	5	1.500	2.500	0.500	1
785590	30	5	1.500	2.500	0.500	1
785591	20	5	-	-	0.500	2
785592	70	2.500	1.500	2.500	0.500	2
785593	15	5	1.500	5	0.500	1
785594	20	5	1.500	2.500	0.500	1
785595	30	5	1.500	2.500	0.500	1
785596	10	2.500	1.500	2.500	0.500	3
785597	30	2.500	1.500	2.500	0.500	1
785598	10	2.500	1.500	2.500	0.500	1
780461	2.500	2.500	1.500	2.500	120	1
780462	2.500	2.500	1.500	2.500	0.500	1
780372	20	5	-	2.500	2	1
780364	25	5	-	5	1	1
780363	25	10	-	5	2	1
780365	4	3	3	25	5	-
780366	2	1	1	25	3	-
780371	20	5	-	5	0.500	1
780373	30	2.500	-	5	2	1
780470	45	10	1.500	2.500	1	10
780475	10	5	1.500	2.500	0.500	7
780474	10	5	1.500	2.500	0.500	7
780473	5	5	1.500	2.500	0.500	1
780468	15	10	1.500	2.500	0.500	1
795154	5	2.500	1.500	2.500	-	1
795152	10	5	1.500	2.500	-	1

739126

SAMPLE NO. NI CD MO AS SN CXCU

795165	10	5	1.500	-	1
795156	10	5	2.500	-	1
795157	10	2.500	1.500	-	1
795160	5	10	1.500	-	1
785761	10	2.500	1.500	1	1
670327	20	5	2.500	-	3
670326	5	2.500	1.500	-	1
670325	2.500	2.500	1.500	-	2
670324	20	8	1.500	-	4
670323	5	2.500	1.500	-	1
670322	2.500	2.500	5	-	1
670321	5	2.500	1.500	-	1
670320	5	2.500	5	-	1
670319	5	2.500	5	-	1
670318	30	2.500	10	-	4
670317	10	2.500	5	-	1
670315	2.500	2.500	1.500	-	1
670316	25	2.500	-	-	15
670313	5	2.500	5	-	1
670312	5	2.500	5	-	1
670311	5	2.500	5	-	1
670310	15	2.500	15	-	5
670309	20	2.500	10	-	4
670308	5	2.500	10	-	1
670307	2.500	2.500	5	-	1
670304	30	2.500	10	-	2
670303	2.500	2.500	1.500	-	1
670302	30	2.500	5	-	1
670301	15	2.500	1.500	-	1
670300	10	2.500	1.500	-	1
670299	30	2.500	15	-	3
670298	10	2.500	5	-	1
670297	45	2.500	20	-	2
670296	15	2.500	1.500	-	1
670294	30	2.500	10	-	5
670292	90	2.500	45	-	1
670291	10	2.500	5	-	1
670289	175	2.500	50	-	2
670288	10	2.500	20	-	1
670287	30	2.500	10	-	3
680298	5	2.500	1.500	-	1
680297	3	2.500	5	-	1
680289	3	5	2.500	-	1
680288	5	5	2.500	-	1
680287	3	2.500	5	-	1
680286	5	10	1.500	-	1
680285	15	2.500	5	-	1
680284	45	2.500	5	-	1
680283	3	2.500	1.500	-	1
680279	15	2.500	5	-	1

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
680278	2	2.500	1.500	2.500	-	1
680277	5	2.500	1.500	2.500	-	1
680276	10	2.500	5	2.500	-	1
680275	5	2.500	1.500	2.500	-	1
680274	3	2.500	1.500	2.500	-	1
680273	10	2.500	1.500	2.500	-	1
680271	3	2.500	1.500	2.500	-	1
680270	3	2.500	1.500	2.500	-	2
680269	3	2.500	10	2.500	-	1
680268	5	2.500	1.500	2.500	-	1
680267	10	2.500	1.500	2.500	-	1
680266	25	5	1.500	2.500	-	1
680546	2.500	2.500	1.500	2.500	-	-
680545	2.500	2.500	1.500	2.500	-	-
680544	2.500	2.500	1.500	2.500	-	-
680547	2.500	2.500	1.500	2.500	-	-
680543	2.500	2.500	1.500	2.500	-	-
680549	2.500	2.500	1.500	2.500	-	-
680548	2.500	2.500	1.500	2.500	-	-
680542	2.500	2.500	1.500	2.500	-	-
680550	2.500	2.500	1.500	2.500	-	-
680541	2.500	2.500	1.500	2.500	-	-
680540	2.500	7	1.500	2.500	-	-
680469	15	3	1.500	2.500	-	1
680470	10	7	1.500	2.500	-	1
680468	15	10	1.500	2.500	-	1
680465	10	3	1.500	2.500	-	1
680466	10	3	1.500	2.500	-	1
680467	10	3	1.500	2.500	-	1
680462	15	7	1.500	2.500	-	1
680461	15	7	1.500	2.500	-	1
680463	45	7	1.500	2.500	-	1
680464	15	3	1.500	2.500	-	1
680460	50	20	1.500	2.500	-	3
680459	85	40	1.500	5	-	6
680453	15	7	1.500	5	-	2
680458	25	7	1.500	2.500	-	3
680451	45	7	1.500	2.500	-	2
680450	25	7	1.500	2.500	-	1
680449	25	10	1.500	2.500	-	1
680452	170	50	1.500	2.500	-	4
680455	70	30	1.500	5	-	5
680454	25	3	1.500	2.500	-	1
680456	55	10	1.500	2.500	-	2
680457	25	3	1.500	2.500	-	1
680448	50	7	1.500	5	-	3
680447	7	2.500	1.500	5	-	3
680446	15	3	1.500	5	-	1
680445	30	20	1.500	5	-	1
680444	25	10	1.500	5	-	2
680443	105	55	2.500	5	-	5
680522	40	25	1.500	2.500	-	2
680523	130	50	1.500	2.500	-	2
680521	110	55	1.500	2.500	-	4
680520	15	20	1.500	2.500	-	2
680524	20	20	1.500	2.500	-	1
670329	110	2.500	50	2.500	-	5
670330	185	2.500	50	2.500	-	5
670367	125	30	1.500	2.500	-	3
670364	105	30	1.500	2.500	-	3

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
670563	110	45	1.500	10	-	5
670561	85	10	1.500	10	-	5
670560	115	20	1.500	10	-	5
670556	105	15	1.500	2.500	-	10
670557	90	25	1.500	10	-	10
670331	130	2.500	50	2.500	-	5
670333	125	2.500	60	2.500	-	4
670332	155	2.500	65	2.500	-	5
670482	70	30	1.500	2.500	-	4
670481	70	40	1.500	2.500	-	3
670480	90	45	1.500	2.500	-	3
670334	25	2.500	20	2.500	-	1
670335	80	2.500	40	2.500	-	2
670339	140	2.500	80	2.500	-	5
670338	170	2.500	75	2.500	-	10
670337	180	2.500	90	2.500	-	9
670336	30	20	1.500	5	-	1
670537	145	70	1.500	5	-	10
670539	145	45	1.500	2.500	-	15
670540	130	40	1.500	2.500	-	10
670549	110	65	1.500	2.500	-	15
670548	110	80	1.500	2.500	-	10
670545	140	7	1.500	2.500	-	10
670543	125	50	1.500	2.500	-	5
670546	50	45	1.500	2.500	-	15
670547	180	60	1.500	2.500	-	20
670461	25	30	1.500	2.500	-	3
670462	7	7	1.500	2.500	-	1
670463	7	25	1.500	2.500	-	1
670464	25	20	1.500	2.500	-	5
670449	5	10	1.500	2.500	-	1
670470	85	110	1.500	2.500	-	5
670468	100	60	1.500	2.500	-	4
670469	100	90	1.500	2.500	-	4
670532	70	3	1.500	2.500	-	3
670533	35	15	1.500	2.500	-	2
670531	35	50	1.500	2.500	-	3
670527	60	40	1.500	2.500	-	5
670526	45	30	1.500	2.500	-	10
670525	180	90	1.500	2.500	-	20
670467	25	20	1.500	2.500	-	4
670466	25	20	1.500	2.500	-	1
670523	7	3	1.500	2.500	-	1
670524	15	10	1.500	2.500	-	15
670465	25	30	1.500	2.500	-	5
670457	2.500	7	1.500	2.500	-	3
670458	5	15	1.500	2.500	-	10
670455	7	3	1.500	2.500	-	2
670459	20	10	1.500	2.500	-	12
670460	15	10	1.500	2.500	-	25
785748	15	2.500	1.500	2.500	1	1
785751	15	2.500	1.500	2.500	40	2
785744	2.500	2.500	1.500	2.500	1	1
785745	2.500	2.500	1.500	2.500	250	1
785719	5	2.500	1.500	2.500	0.500	1
785718	25	2.500	1.500	2.500	0.500	1
785717	15	2.500	1.500	2.500	2	1
785740	30	2.500	1.500	2.500	1	2
785731	2.500	2.500	1.500	5	0.500	2
785759	2.500	2.500	1.500	2.500	1	-

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SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
785728	10	2.500	1.500	2.500	0.500	2
785730	10	2.500	1.500	2.500	1	1
785755	10	2.500	1.500	2.500	1	1
785752	85	2.500	1.500	2.500	2	1
785754	65	2.500	1.500	2.500	15	1
785753	35	2.500	1.500	2.500	3	1
785720	140	5	1.500	5	1	2
785723	70	5	1.500	2.500	1	1
785724	15	2.500	1.500	2.500	1	1
785812	20	2.500	1.500	2.500	9	1
785811	140	30	1.500	2.500	7	1
785810	65	15	1.500	2.500	0.500	3
785809	10	2.500	1.500	2.500	2	2
785695	20	2.500	1.500	2.500	2	1
785697	2.500	2.500	1.500	2.500	1	1
785696	10	5	1.500	2.500	0.500	1
785610	100	55	1.500	2.500	4	3
680281	5	2.500	1.500	2.500	-	1
680280	10	2.500	5	2.500	-	1
670305	5	2.500	5	2.500	-	1
670306	2.500	2.500	1.500	2.500	-	1
680282	10	2.500	1.500	2.500	-	1
785727	30	2.500	1.500	5	1	1
785729	10	2.500	1.500	5	3	1
785757	20	10	1.500	2.500	1	1
785725	145	25	1.500	2.500	1	3
785722	40	5	1.500	5	2	1
785741	30	2.500	1.500	2.500	2	3
785742	10	2.500	1.500	2.500	1	1
785756	5	5	1.500	2.500	0.500	1
785721	60	10	1.500	5	2	1
785743	10	2.500	1.500	5	1	1
785750	2.500	2.500	1.500	2.500	1	1
670273	20	2.500	2	2.500	-	-
670486	45	3	1.500	2.500	-	5
670488	85	45	1.500	2.500	-	5
670490	105	40	1.500	2.500	-	5
670491	115	30	1.500	2.500	-	5
670492	140	45	1.500	5	-	10
670494	25	7	1.500	2.500	-	2
670498	45	45	1.500	2.500	-	5
670499	175	80	1.500	2.500	-	4
670500	45	2.500	1.500	2.500	-	5
670503	160	40	1.500	2.500	-	-
670506	100	30	1.500	2.500	-	5
670507	180	80	1.500	2.500	-	5
670508	140	45	1.500	2.500	-	5
670509	140	30	1.500	2.500	-	5
680486	15	7	1.500	2.500	-	1
680487	15	7	1.500	2.500	-	1
680488	15	3	1.500	5	-	1
680489	25	7	1.500	2.500	-	1
680490	15	7	1.500	2.500	-	1
680491	15	3	1.500	10	-	1
680526	40	45	1.500	5	-	2
780502	45	60	1.500	20	0.500	2
780503	100	70	1.500	10	2	2
785603	70	35	1.500	2.500	2	1
785609	40	20	1.500	5	2	1
785629	220	70	1.500	10	2	15

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
785622	60	60	1.500	2.500	2	5
785604	135	50	1.500	5	2	2
785771	2.500	2.500	1.500	2.500	0.500	1

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
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 MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU	)
188824	315482	5420317	3	2	1	12	9	12	15	15	2.000	)
188826	316696	5418293	4	2	1	6	9	8	5	5	1.000	)
785454	315791	5417126	2	2	1	-	9	1	20	80	10.000	)
785456	317223	5418269	2	3	1	-	9	12	10	30	7.000	)
785457	317404	5418542	4	3	1	-	9	12	10	20	5.000	)
785455	315995	5417267	2	3	1	-	9	1	10	40	5.000	)
785458	318152	5418397	2	2	1	-	9	12	10	80	5.000	)
785459	318258	5418933	4	2	1	-	9	12	10	25	5.000	)
780362	313811	5420850	1	3	1	-	9	1	10	7	3.000	)
780367	313936	5420674	4	3	1	-	9	1	10	5	5.000	)
780368	314069	5419933	3	3	1	-	9	1	10	35	5.000	)
780369	315110	5417811	4	2	1	-	9	1	15	20	3.000	)
780472	318641	5419830	1	3	1	-	9	12	2.500	190	20.000	)
780471	318677	5420051	3	3	1	-	9	12	2.500	75	20.000	)

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SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
188824	5	-	-	-	65	-
188826	2.500	-	-	-	4	-
785454	20	2.500	-	2.500	0.500	1
785456	20	5	-	2.500	80	2
785457	15	2.500	-	2.500	1	1
785455	40	2.500	-	2.500	40	1
785458	35	2.500	-	2.500	2	1
785459	20	2.500	-	2.500	1	1
780362	30	5	-	2.500	30	1
780367	25	5	-	30	0.500	1
780368	35	5	-	10	7	1
780369	30	5	-	15	3	1
780472	5	5	1.500	2.500	7	7
780471	50	5	1.500	2.500	1	10

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
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MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
EAST BETWEEN 325000.000 AND 342000.000
AND
NORTH BETWEEN ***** AND *****
WILL BE SELECTED.

*** VARIABLE REMARKS NOT IN OUTPUT LIST

SAMPLE NO.	EAST	NORTH	STRORD	TOPO	SMPTYP	SITEGEO	FORMGEO	PROFCAR	FB	ZN	CU
188941	329746	5419684	3	3	1	9	9	9	5	2	1.000
188942	329440	5418634	3	3	1	9	9	9	2.500	1	1.000
188941	331436	5418514	4	3	1	13	9	9	2.500	1	1.000
188943	329643	5418113	4	4	1	9	9	9	2.500	1	1.000
188840	331494	5418020	4	3	1	10	9	9	5	1	1.000
680303	330863	5417228	2	3	1	-	9	9	2.500	10	2.000
680304	331088	5417463	4	3	1	-	9	9	2.500	5	3.000
680306	331488	5418393	5	3	1	-	9	9	2.500	10	3.000
680307	331757	5418346	3	3	1	-	9	9	2.500	17	2.000
680305	331043	5418615	4	3	1	-	9	9	2.500	4	2.000
680309	331886	5420538	2	2	1	-	9	9	2.500	15	5.000
680310	332047	5420676	3	3	1	-	9	9	5	20	2.000
680308	331706	5420628	5	3	1	-	9	9	2.500	10	2.000
780397	325762	5418158	2	3	1	-	9	10	5	25	3.000
780398	325740	5417970	1	3	1	-	9	10	5	5	2.000
780399	325292	5417071	1	2	1	-	9	9	2.500	10	2.000
780401	325453	5416891	2	2	1	-	9	9	10	2	2.000
780400	325526	5417033	1	2	1	-	9	9	5	5	3.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
188941	-	-	-	-	-	-
188942	-	-	-	-	-	-
188841	2.500	-	-	-	-	-
188943	-	-	-	-	-	-
188840	2.500	-	-	-	-	-
680303	2.500	2.500	1.500	2.500	-	1
680304	2.500	2.500	1.500	2.500	-	1
680306	2.500	5	1.500	2.500	-	1
680307	2.500	2.500	1.500	2.500	-	1
680305	2.500	2.500	1.500	2.500	-	1
680309	2.500	5	1.500	2.500	-	2
680310	2.500	10	1.500	2.500	-	1
680308	2.500	2.500	1.500	2.500	-	1
780397	10	2.500	-	2.500	1	1
780398	30	2.500	-	2.500	1	1
780399	20	2.500	-	2.500	0.500	1
780401	15	2.500	-	2.500	0.500	1
780400	20	2.500	-	2.500	0.500	1

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
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 MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
 EAST BETWEEN 325000.000 AND 337000.000
 AND
 NORTH BETWEEN ***** AND *****
 WILL BE SELECTED.

*** VARIABLE REMARKS NOT IN OUTPUT LIST

739134

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU
188951	329271	5416361	2	4	1	9	9	9	2.500	2	1.000
188950	329708	5416357	4	4	1	9	9	9	2.500	1	1.000
680300	332882	5414954	1	3	1	-	9	9	2.500	3	2.000
680299	333016	5415221	3	3	1	-	9	9	30	5	3.000
680301	331806	5415796	2	2	1	-	9	9	2.500	10	2.000
680302	331225	5416412	2	3	1	-	9	9	2.500	15	2.000
780403	326315	5415569	2	4	1	-	9	10	10	20	2.000
780402	326410	5415822	2	4	1	-	9	10	10	2	2.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
188951	-	-	-	-	-	-
188950	-	-	-	-	-	-
680300	7	2.500	1.500	2.500	-	1
680299	3	2.500	1.500	2.500	-	1
680301	2.500	2.500	1.500	2.500	-	1
680302	2.500	2.500	1.500	2.500	-	1
780403	20	2.500	-	2.500	1	1
780402	15	2.500	-	2.500	0.500	1

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
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 MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
 EAST BETWEEN 327000.000 AND 337000.000
 AND
 NORTH BETWEEN ***** AND *****
 WILL BE SELECTED.

**** VARIABLE REMARKS NOT IN OUTPUT LIST

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	FB	ZN	CU
ML4697	336752	5410643	1	2	1	-	9	9	5	2.500	7.000
ML5706	336963	5409603	2	2	1	-	9	9	10	10	7.000
ML5707	336911	5409850	1	2	1	-	9	9	20	7	16.000
ML5708	336688	5409765	2	2	1	-	9	9	20	8	12.000
188969	331037	5410356	3	3	1	6	9	9	2.500	2	1.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
ML4697	-	2.500	5	2.500	35	2.500
ML5706	-	2.500	15	5	25	2.500
ML5707	-	2.500	10	2.500	35	7
ML5708	-	2.500	15	2.500	30	22
188969	-	-	-	-	-	-

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
EAST BETWEEN 329000.000 AND 337000.000
AND
NORTH BETWEEN ***** AND *****
WILL BE SELECTED.

**** VARIABLE REMARKS NOT IN OUTPUT LIST

SAMPLE NO.	EAST	NORTH	STRMORD	TOFO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PR	ZN	CU
188848	332155	5406261	3	3	1	6	9	9	2.500	1	1.000
188970	331910	5405779	2	3	1	6	9	9	2.500	1	1.000
780034	330108	5402584	2	3	1	-	11	10	10	40	10.000
780032	330016	5402697	2	2	1	-	11	10	10	40	10.000
780035	330737	5402454	3	3	1	-	11	9	10	25	10.000
780036	331057	5402452	2	3	1	-	11	9	2.500	7	10.000
780038	331391	5402231	3	3	1	-	11	9	2.500	10	5.000
780037	331241	5402134	1	3	1	-	11	9	2.500	40	10.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
188848	2.500	-	-	-	-	-
188970	-	-	-	-	-	-
780034	2.500	2.500	1.500	2.500	0.500	5
780032	2.500	2.500	1.500	2.500	2	5
780035	2.500	2.500	1.500	2.500	0.500	5
780036	2.500	2.500	1.500	2.500	0.500	5
780038	2.500	2.500	1.500	2.500	0.500	3
780037	2.500	2.500	1.500	2.500	0.500	5

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
EAST BETWEEN 300000.000 AND 337000.000
AND
NORTH BETWEEN ***** AND *****
WILL BE SELECTED.

*** VARIABLE REMARKS NOT IN OUTPUT LIST

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SHFTYP	SITEREOL	FORMGEOL	PROFCAR	PS	ZN	CU	)
AC1002	319667	5401831	2	1	1	1	1	1	-	-	10.000	)
AC1003	319892	5401981	2	1	1	1	1	1	-	-	10.000	)
AC1016	319866	5401909	1	1	1	1	1	1	-	-	10.000	)
AC1017	321092	5401893	2	2	1	19	1	1	-	-	10.000	)
AC1020	321847	5401951	2	2	1	19	18	14	-	-	10.000	)
AC1021	322100	5401960	2	2	1	19	18	14	-	-	10.000	)
AC1022	322345	5401955	2	2	1	19	18	14	-	-	20.000	)
AC1023	322598	5401989	2	2	1	19	18	14	-	-	10.000	)
AC1025	321062	5400863	2	2	1	1	1	1	-	-	10.000	)
AC1026	321470	5400962	2	2	1	19	18	1	-	-	10.000	)
AC1027	321697	5401088	1	2	1	19	18	1	-	-	10.000	)
AC1028	322520	5401187	2	2	1	19	18	1	-	-	10.000	)
AC1029	322239	5401068	2	2	1	19	18	14	-	-	10.000	)
AC1030	322535	5401186	2	2	1	19	18	14	-	-	10.000	)
AC1031	322807	5401480	2	2	1	19	18	14	-	-	10.000	)
AC1032	323105	5401631	2	2	1	19	18	14	-	-	10.000	)
AC1033	321639	5400154	2	2	1	19	18	1	-	-	10.000	)
AC1034	321860	5400242	2	2	1	19	18	1	-	-	10.000	)
AC1035	321971	5400369	2	2	1	19	18	14	-	-	10.000	)
AC1036	322046	5400661	1	2	1	19	18	14	-	-	10.000	)
AC1037	322156	5400515	2	2	1	19	18	14	-	-	10.000	)
AC1038	322325	5400552	2	2	1	19	18	14	-	-	10.000	)
AC1039	322445	5400621	2	2	1	19	18	14	-	-	10.000	)
AC1040	322564	5400850	1	2	1	19	18	14	-	-	10.000	)
AC1041	322746	5400742	2	2	1	19	18	14	-	-	10.000	)
AC1042	322878	5400872	1	2	1	19	18	14	-	-	10.000	)
AC1043	323064	5400754	2	2	1	19	18	14	-	-	10.000	)
AC1044	323184	5401130	1	2	1	19	18	14	-	-	10.000	)
AC1045	323180	5400925	1	2	1	19	18	14	-	-	10.000	)
AC1046	323405	5400856	1	2	1	19	18	14	-	-	10.000	)
AC1052	323092	5400123	2	2	1	19	18	14	-	-	10.000	)
AC1053	323279	5400267	2	2	1	19	18	14	-	-	10.000	)
AC1054	323422	5400225	1	2	1	19	18	14	-	-	10.000	)
AC1055	323587	5400372	1	2	1	19	18	14	-	-	10.000	)
AC1056	323752	5400432	1	2	1	19	18	14	-	-	10.000	)
AC1057	323938	5400478	1	2	1	19	18	14	-	-	10.000	)
AC1058	324133	5400612	1	2	1	19	18	14	-	-	10.000	)
AC1063	323792	5400200	2	2	1	19	18	14	-	-	10.000	)
AC1064	323998	5400301	2	2	1	19	18	14	-	-	10.000	)
AC1065	324236	5400389	2	2	1	19	18	14	-	-	10.000	)
AC1066	324470	5400451	2	2	1	19	18	14	-	-	10.000	)
AC1067	324660	5400510	2	2	1	6	11	9	-	-	10.000	)
AC1068	324759	5400637	2	2	1	6	11	9	-	-	10.000	)
AC1069	324755	5400638	2	2	1	6	11	9	-	-	10.000	)
AC1070	324936	5401014	2	2	1	6	11	9	-	-	10.000	)
AC1071	325129	5401108	2	2	1	6	11	9	-	-	10.000	)
AC1072	324804	5401101	1	2	1	6	11	9	-	-	10.000	)
AC1073	324799	5401341	1	2	1	6	11	9	-	-	10.000	)
780040	329170	5400281	1	2	1	-	11	8	15	20	5.000	)
780039	329161	5400476	1	2	1	-	11	8	10	10	5.000	)
780031	327935	5400401	2	2	1	-	11	10	10	60	30.000	)
780033	327921	5400586	1	3	1	-	11	10	10	30	10.000	)
780027	326477	5400648	1	2	1	-	10	10	20	20	10.000	)
780020	327320	5400769	2	3	1	-	10	10	2,500	15	5.000	)
780006	326935	5400856	1	2	1	-	10	10	15	15	5.000	)
780005	326629	5400727	1	2	1	-	10	10	10	20	5.000	)
780004	326493	5400913	1	2	1	-	10	10	20	55	5.000	)
780009	326278	5400964	1	2	1	-	11	9	10	20	5.000	)
780010	326153	5400957	3	3	1	-	11	9	10	10	5.000	)
780008	326279	5400726	1	2	1	-	11	10	10	25	5.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	EMFTYP	SITEGEOL	FORMGEOL	PROFDR	PB	ZN	CU
780026	327908	5401419	1	2	1	-	11	10	2.500	10	5.000
780027	327786	5401552	1	2	1	-	11	10	2.500	30	5.000
780025	326442	5401833	1	3	1	-	10	10	2.500	25	5.000
780011	325255	5401871	1	2	1	-	11	9	10	10	5.000
785545	320357	5400801	2	1	1	-	1	1	10	20	5.000
785546	319887	5401770	2	2	1	-	1	1	15	45	5.000
790075	325449	5400683	4	2	1	-	11	9	10	5	5.000
790100	321548	5400443	2	2	1	-	1	1	2.500	10	4.000
790091	323380	5401924	1	3	1	-	18	14	2.500	10	3.000
790089	323127	5401243	2	3	1	-	18	14	2.500	15	4.000
790093	323299	5401125	1	3	1	-	18	14	2.500	20	5.000
790092	323316	5401117	1	3	1	-	18	14	5	20	4.000
790099	323154	5400655	1	3	1	-	18	14	2.500	20	5.000
790097	323512	5400679	1	3	1	-	18	14	2.500	10	4.000
790096	323606	5400516	2	3	1	-	18	14	2.500	15	10.000
790098	323294	5400557	2	3	1	-	18	14	2.500	20	4.000
790074	325354	5400686	1	2	1	-	11	9	10	7	5.000
790095	324894	5401295	2	2	1	-	11	9	2.500	10	7.000
790094	324758	5401441	1	2	1	-	11	9	2.500	7	3.000
790101	321549	5400193	3	2	1	-	1	1	2.500	10	3.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1002	-	-	-	-	20	-
AC1003	-	-	-	-	25	-
AC1016	-	-	-	-	65	-
AC1017	-	-	-	-	115	-
AC1020	-	-	-	-	190	-
AC1021	-	-	-	-	245	-
AC1022	-	-	-	-	45	-
AC1023	-	-	-	-	60	-
AC1025	-	-	-	-	105	-
AC1026	-	-	-	-	120	-
AC1027	-	-	-	-	65	-
AC1028	-	-	-	-	5	-
AC1029	-	-	-	-	5	-
AC1030	-	-	-	-	10	-
AC1031	-	-	-	-	5	-
AC1032	-	-	-	-	30	-
AC1033	-	-	-	-	5	-
AC1034	-	-	-	-	5	-
AC1035	-	-	-	-	5	-
AC1036	-	-	-	-	15	-
AC1037	-	-	-	-	5	-
AC1038	-	-	-	-	5	-
AC1039	-	-	-	-	5	-
AC1040	-	-	-	-	5	-
AC1041	-	-	-	-	30	-
AC1042	-	-	-	-	5	-
AC1043	-	-	-	-	5	-
AC1044	-	-	-	-	75	-
AC1045	-	-	-	-	5	-
AC1046	-	-	-	-	5	-
AC1052	-	-	-	-	5	-
AC1053	-	-	-	-	5	-
AC1054	-	-	-	-	5	-
AC1055	-	-	-	-	110	-
AC1056	-	-	-	-	255	-
AC1057	-	-	-	-	75	-
AC1058	-	-	-	-	5	-
AC1063	-	-	-	-	5	-
AC1064	-	-	-	-	65	-
AC1065	-	-	-	-	80	-
AC1066	-	-	-	-	155	-
AC1067	-	-	-	-	40	-
AC1068	-	-	-	-	90	-
AC1069	-	-	-	-	90	-
AC1070	-	-	-	-	100	-
AC1071	-	-	-	-	70	-
AC1072	-	-	-	-	120	-
AC1073	-	-	-	-	80	-
780040	2.500	2.500	1.500	2.500	0.500	1
780039	2.500	2.500	1.500	2.500	0.500	2
780031	2.500	2.500	1.500	2.500	0.500	20
780033	2.500	2.500	1.500	2.500	0.500	5
780007	2.500	2.500	1.500	2.500	0.500	1
780010	5	2.500	1.500	2.500	2	2
780006	2.500	2.500	1.500	2.500	0.500	2
780005	5	2.500	1.500	2.500	0.500	1
780004	5	2.500	1.500	2.500	0.500	1
780009	2.500	2.500	1.500	2.500	0.500	2
780010	2.500	2.500	1.500	2.500	0.500	2
780008	5	2.500	1.500	2.500	0.500	1

739143

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
780026	2.500	2.500	1.500	2.500	2	1
780027	2.500	2.500	1.500	2.500	0.500	1
780025	2.500	2.500	1.500	2.500	2	1
780011	2.500	2.500	1.500	2.500	2	1
785545	2.500	2.500	1.500	5	20	1
785546	2.500	2.500	1.500	5	8	1
790075	2.500	2.500	1.500	2.500	0.500	1
790100	2.500	2.500	-	2.500	2	1
790091	2.500	2.500	-	2.500	6	5
790089	2.500	2.500	-	2.500	15	1
790093	2.500	2.500	-	2.500	5	3
790092	2.500	2.500	-	2.500	70	1
790099	2.500	2.500	1.500	2.500	7	1
790097	2.500	2.500	-	2.500	3	4
790096	2.500	2.500	-	2.500	2	1
790098	2.500	2.500	-	2.500	500	1
790074	2.500	2.500	1.500	2.500	0.500	1
790095	2.500	2.500	-	2.500	3	1
790094	2.500	2.500	-	2.500	40	1
790101	2.500	2.500	-	2.500	2	1

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCULATIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
EAST BETWEEN 329750.000 AND 337000.000
AND
NORTH BETWEEN ***** AND *****
WILL BE SELECTED.

*** VARIABLE REMARKS NOT IN OUTPUT LIST

739144

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEO	FORMGEO	PROFDR	FB	ZN	CU
AC1194	330078	5397081	2	2	1	9	10	8	-	-	10.000
AC1195	329989	5397659	3	2	1	6	10	8	-	-	520.000
AC1196	329960	5397997	2	3	1	6	10	8	-	-	10.000
AC1197	330223	5397784	3	3	1	6	10	10	-	-	10.000
AC1198	330700	5397919	3	3	1	6	11	10	-	-	10.000
188928	336753	5394597	2	2	1	10	10	8	10	20	2.000
692040	329933	5397177	1	3	1	-	10	8	10	20	10.000
692041	330069	5397372	2	3	1	-	10	8	10	20	10.000
692044	330143	5397659	1	3	1	-	10	10	2.500	5	10.000
692047	330681	5398287	3	3	1	-	11	10	2.500	7	1.000
692048	331062	5398500	1	3	1	-	10	10	2.500	7	5.000
692049	331325	5398644	1	3	1	-	10	10	5	5	1.000
692051	331479	5398953	1	3	1	-	10	10	2.500	7	5.000
692053	331645	5399240	1	2	1	-	10	8	10	7	5.000
692054	331793	5399322	3	2	1	-	10	8	10	20	5.000
692052	331429	5399421	2	3	1	-	10	8	2.500	7	5.000
692050	331187	5399107	1	3	1	-	11	10	10	5	1.000
692045	329975	5398145	2	3	1	-	20	8	2.500	5	5.000
692043	329863	5397543	1	3	1	-	10	8	10	10	5.000
692068	330492	5394722	1	2	1	-	10	8	20	85	5.000
692067	330084	5395019	2	2	1	-	10	8	10	10	5.000
692066	329811	5394913	3	2	1	-	10	8	5	10	5.000
692055	332082	5396303	2	3	1	-	10	8	10	15	5.000
692056	332184	5396175	2	3	1	-	10	8	2.500	10	5.000
692070	331410	5395801	3	2	1	-	10	8	10	10	5.000
692069	331444	5395628	2	2	1	-	10	8	10	10	5.000
692074	332199	5395042	2	3	1	-	10	8	10	10	5.000
692073	331437	5394681	1	2	1	-	10	8	10	7	5.000
692072	331324	5394591	1	2	1	-	10	8	10	15	5.000
692042	329922	5397435	1	3	1	-	10	8	10	7	5.000
692071	330766	5394803	3	2	1	-	10	8	10	30	5.000

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1194	-	-	-	-	5	-
AC1195	-	-	-	-	5	-
AC1196	-	-	-	-	5	-
AC1197	-	-	-	-	5	-
AC1198	-	-	-	-	5	-
188928	-	-	-	-	-	-
692040	5	-	1.500	2.500	1	2
692041	5	-	1.500	2.500	0.500	1
692044	2.500	-	1.500	2.500	1	1
692047	2.500	-	1.500	2.500	1	2
692048	5	-	1.500	2.500	0.500	2
692049	2.500	-	1.500	2.500	0.500	2
692051	2.500	-	1.500	2.500	1	2
692053	2.500	-	1.500	2.500	0.500	2
692054	2.500	-	1.500	2.500	0.500	1
692052	2.500	-	1.500	2.500	0.500	1
692050	2.500	-	1.500	5	0.500	1
692045	2.500	-	1.500	2.500	0.300	3
692043	5	-	1.500	2.500	0.500	1
692068	5	-	1.500	2.500	1	1
692067	5	-	1.500	2.500	1	75
692066	2.500	-	1.500	2.500	1	2
692055	5	-	1.500	2.500	0.500	1
692056	2.500	-	1.500	2.500	4	1
692070	10	-	1.500	2.500	3	1
692069	5	-	1.500	2.500	5	1
692074	2.500	-	1.500	2.500	4	1
692073	5	-	1.500	2.500	2	1
692072	2.500	-	1.500	2.500	0.500	1
692042	5	2.500	1.500	2.500	0.500	1
692071	5	-	1.500	2.500	4	2

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
EAST BETWEEN 300000.000 AND 337000.000
AND
NORTH BETWEEN ***** AND *****
WILL BE SELECTED.

*** VARIABLE REMARKS NOT IN OUTPUT LIST

SAMPLE NO.	EAST	NORTH	STRMORD	TORD	SAPTYP	SITEGEOL	FORMGEOL	PROFGR	FB	ZN	CJ
AC1276	331913	5391894	1	2	1	2	1	15	-	-	10.000
AC1275	331936	5392204	1	2	1	2	1	15	-	-	10.000
AC1274	331424	5392230	1	2	1	2	1	15	-	-	10.000
AC1273	331492	5392558	3	2	1	9	10	8	-	-	10.000
AC1272	331161	5392396	3	2	1	9	10	8	-	-	10.000
AC1270	330754	5392164	3	2	1	9	10	8	-	-	10.000
AC1271	330386	5391781	2	2	1	25	10	8	-	-	10.000
AC1269	330372	5392119	1	2	1	9	10	8	-	-	10.000
AC1268	330108	5391757	3	2	1	9	10	8	-	-	10.000
AC1267	329852	5391643	1	2	1	19	10	14	-	-	10.000
AC1266	329595	5391366	3	3	1	19	18	14	-	-	10.000
AC1265	329323	5391299	3	3	1	19	18	14	-	-	10.000
AC1264	329228	5391455	1	3	1	19	18	14	-	-	10.000
AC1263	328968	5391241	3	3	1	19	18	14	-	-	10.000
AC1262	329056	5391013	3	3	1	19	18	14	-	-	10.000
AC1261	328852	5390874	2	3	1	19	18	14	-	-	10.000
AC1260	328549	5390794	4	3	1	19	18	14	-	-	10.000
AC1259	328321	5390551	1	3	1	19	18	14	-	-	10.000
AC1258	328093	5390546	4	3	1	19	18	14	-	-	10.000
AC1257	327807	5390580	4	2	1	19	18	14	-	-	10.000
AC1256	327428	5390697	4	2	1	19	18	14	-	-	10.000
AC1255	326987	5390834	4	2	1	19	18	14	-	-	10.000
AC1254	326945	5391013	1	2	1	19	18	14	-	-	10.000
AC1253	326745	5391094	1	2	1	19	18	14	-	-	10.000
AC1252	326277	5390781	4	2	1	19	18	14	-	-	10.000
AC1251	325930	5390725	4	2	1	19	18	14	-	-	10.000
AC1250	325615	5390712	4	2	1	19	18	14	-	-	10.000
AC1249	325776	5390132	2	2	1	19	18	14	-	-	10.000
AC1248	325011	5390927	2	2	1	9	11	9	-	-	10.000
AC1243	325555	5391109	2	2	1	19	18	14	-	-	10.000
AC1208	325177	5391639	4	2	1	19	18	14	-	-	10.000
AC1205	324914	5391490	4	2	1	19	18	9	-	-	10.000
AC1206	325123	5391848	1	2	1	19	18	14	-	-	10.000
AC1203	324601	5392085	2	2	1	19	18	9	-	-	10.000
AC1204	324807	5392367	2	2	1	19	18	14	-	-	10.000
AC1207	325562	5392442	1	2	1	19	18	14	-	-	10.000
AC1209	325636	5391780	1	2	1	19	18	14	-	-	10.000
AC1218	326591	5393718	1	1	1	19	18	14	-	-	10.000
AC1217	326408	5393699	1	1	1	19	18	14	-	-	10.000
AC1216	326511	5393553	2	1	1	19	18	14	-	-	10.000
AC1215	326355	5393215	2	1	1	19	18	14	-	-	10.000
AC1214	326193	5392930	2	1	1	19	18	14	-	-	10.000
AC1213	326066	5392927	2	1	1	19	18	14	-	-	10.000
AC1212	326080	5392603	2	1	1	19	18	14	-	-	10.000
AC1211	326120	5392277	2	1	1	19	18	14	-	-	10.000
AC1210	326261	5391912	4	2	1	19	18	14	-	-	10.000
AC1244	325722	5391404	1	2	1	19	18	14	-	-	10.000
AC1245	326024	5391297	2	2	1	19	18	14	-	-	10.000
AC1246	326382	5391961	2	2	1	19	18	14	-	-	10.000
AC1247	326679	5391584	1	2	1	19	18	14	-	-	10.000
AC1248	326860	5391783	1	2	1	19	18	14	-	-	10.000
AC1208	326731	5391227	3	2	1	19	18	14	-	-	10.000
AC1220	326503	5392440	3	2	1	19	18	14	-	-	10.000
AC1219	326311	5392241	4	2	1	19	18	14	-	-	10.000
AC1221	326708	5392831	3	2	1	19	18	14	-	-	10.000
AC1223	327070	5393517	3	2	1	19	18	14	-	-	10.000
AC1224	327213	5393843	1	2	1	19	18	14	-	-	10.000
AC1229	327312	5392699	3	2	1	19	18	14	-	-	10.000

739147

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	FB	ZN	CU
AC1230	327477	5392947	3	2	1	19	18	14	-	-	10.000
AC1231	327792	5393379	3	2	1	19	18	14	-	-	10.000
AC1232	328057	5393418	3	2	1	19	18	14	-	-	10.000
AC1233	328284	5393381	3	2	1	19	18	14	-	-	10.000
AC1234	328449	5393231	3	2	1	19	18	14	-	-	10.000
AC1235	328831	5393046	1	2	1	19	18	14	-	-	10.000
AC1238	329305	5393014	1	2	1	19	1	8	-	-	10.000
AC1239	329721	5393435	2	2	1	2	1	8	-	-	10.000
AC1240	329766	5393276	2	2	1	2	1	8	-	-	10.000
AC1241	330064	5393139	2	2	1	9	11	9	-	-	10.000
AC1236	329107	5393237	3	2	1	19	18	14	-	-	10.000
AC1237	329345	5393167	3	2	1	19	10	8	-	-	10.000
AC1222	326904	5393182	3	2	1	19	18	14	-	-	10.000
AC1202	324396	5392875	1	2	1	19	18	14	-	-	10.000
AC1200	324430	5393492	1	2	1	19	18	14	-	-	10.000
AC1199	324072	5393466	2	2	1	19	11	14	-	-	10.000
AC1201	324340	5393780	1	2	1	19	18	14	-	-	10.000
188914	325017	5391749	4	2	1	19	18	14	5	5	2.000
188916	325278	5390903	4	2	1	19	18	14	2.500	5	2.000
692099	333360	5390924	7	2	1	-	10	8	10	20	5.000
666081	325271	5390578	2	2	1	-	11	9	10	40	5.000
666080	325288	5391006	4	2	1	-	11	9	15	20	5.000
666076	325152	5391254	2	2	1	-	18	1	10	20	5.000
666074	324721	5391557	1	2	1	-	18	14	10	40	10.000
666062	324930	5391952	1	2	1	-	18	9	10	25	10.000
666071	324689	5392316	1	2	1	-	18	9	15	65	5.000
666070	324695	5392493	2	2	1	-	18	9	10	25	5.000
666073	324354	5392830	1	2	1	-	11	9	15	93	5.000
666051	324300	5393733	1	2	1	-	18	14	15	80	5.000
666054	324043	5393751	2	2	1	-	18	14	10	25	5.000
666052	324623	5393869	1	2	1	-	18	14	10	20	10.000
666053	324635	5393689	1	2	1	-	18	14	10	15	5.000
666075	324543	5393214	1	2	1	-	18	14	10	20	5.000
666072	324406	5392685	1	2	1	-	11	9	10	20	5.000
666063	325113	5392142	1	2	1	-	18	14	15	20	5.000
666064	325265	5391911	4	2	1	-	18	14	10	7700	5.000
666077	325566	5391182	1	2	1	-	18	14	15	45	10.000
666078	325623	5391019	4	2	1	-	18	14	10	15	10.000
692094	329883	5391088	2	2	1	-	10	8	10	10	5.000
692092	330507	5390777	1	2	1	-	1	15	10	15	5.000
692090	330031	5392164	3	2	1	-	10	8	10	5	1.000
692091	330510	5390935	1	2	1	-	1	15	2.500	25	5.000
692093	329707	5391262	2	2	1	-	10	8	10	20	5.000
692088	330624	5391857	1	2	1	-	10	8	10	10	5.000
692089	330725	5391991	1	2	1	-	10	8	10	15	5.000
692084	330482	5392432	1	2	1	-	10	8	10	10	5.000
692083	330362	5392453	1	2	1	-	10	8	10	10	1.000
692087	331465	5392583	1	2	1	-	10	15	10	7	1.000
692085	331951	5393223	3	2	1	-	20	8	10	10	5.000
692086	331811	5393371	1	2	1	-	10	8	10	10	5.000
692077	329737	5393608	2	2	1	-	1	8	10	7	5.000
692076	329695	5393718	2	2	1	-	1	8	10	15	5.000
692075	331949	5393946	2	2	1	-	10	8	2.500	7	1.000
666065	326140	5392599	1	2	1	-	18	14	10	100	10.000
666066	326123	5392486	4	2	1	-	18	14	10	55	5.000
666069	326615	5392577	3	2	1	-	18	14	10	10	5.000
666068	326438	5392698	3	2	1	-	18	14	15	40	10.000
780104	334030	5391057	1	2	1	-	10	8	3	40	5.000
780102	334047	5390686	1	2	1	-	10	7	10	35	7.000
780103	334574	5391181	2	2	1	-	10	7	600	20	500.000

SAMPLE NO.	EAST	NORTH	STPHORD	TOPD	SMPTYP	SITEGEO	FORMGEOL	PROFCAR	FS	ZN	CU
780101	334883	5390709	1	2	1	-	10	7	20	45	7.000
780100	335290	5391051	1	2	1	-	7	7	15	40	3.000
780080	336602	5391707	1	2	1	-	10	7	200	30	15.000
780099	338496	5390428	1	3	1	-	11	7	10	15	10.000
780098	336491	5390426	1	3	1	-	11	7	10	25	10.000
692099	333464	5390632	2	3	1	-	10	8	10	20	5.000
780047	327954	5393384	1	2	1	-	18	14	10	25	5.000
780048	328088	5393814	1	2	1	-	18	14	10	20	5.000
780049	328102	5393695	3	2	1	-	18	14	20	40	5.000
780050	327985	5393428	2	2	1	-	18	14	15	30	5.000
780063	328017	5390755	4	2	1	-	18	14	15	15	5.000
780062	328540	5390112	1	2	1	-	18	14	10	10	5.000

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SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1276	-	-	-	-	5	-
AC1275	-	-	-	-	5	-
AC1274	-	-	-	-	100	-
AC1273	-	-	-	-	5	-
AC1272	-	-	-	-	5	-
AC1270	-	-	-	-	5	-
AC1271	-	-	-	-	5	-
AC1269	-	-	-	-	5	-
AC1268	-	-	-	-	5	-
AC1267	-	-	-	-	6468	-
AC1266	-	-	-	-	55	-
AC1265	-	-	-	-	280	-
AC1264	-	-	-	-	20	-
AC1263	-	-	-	-	50	-
AC1262	-	-	-	-	80	-
AC1261	-	-	-	-	170	-
AC1260	-	-	-	-	5	-
AC1259	-	-	-	-	200	-
AC1258	-	-	-	-	55	-
AC1257	-	-	-	-	200	-
AC1256	-	-	-	-	5	-
AC1255	-	-	-	-	5	-
AC1254	-	-	-	-	200	-
AC1253	-	-	-	-	55	-
AC1252	-	-	-	-	30	-
AC1251	-	-	-	-	100	-
AC1250	-	-	-	-	120	-
AC1278	-	-	-	-	5	-
AC1277	-	-	-	-	60	-
AC1249	-	-	-	-	160	-
AC1242	-	-	-	-	40	-
AC1243	-	-	-	-	125	-
AC1208	-	-	-	-	85	-
AC1205	-	-	-	-	45	-
AC1206	-	-	-	-	65	-
AC1203	-	-	-	-	5	-
AC1204	-	-	-	-	75	-
AC1207	-	-	-	-	180	-
AC1207	-	-	-	-	60	-
AC1219	-	-	-	-	60	-
AC1217	-	-	-	-	150	-
AC1216	-	-	-	-	300	-
AC1215	-	-	-	-	5	-
AC1214	-	-	-	-	105	-
AC1213	-	-	-	-	70	-
AC1212	-	-	-	-	75	-
AC1211	-	-	-	-	35	-
AC1210	-	-	-	-	75	-
AC1244	-	-	-	-	80	-
AC1245	-	-	-	-	35	-
AC1246	-	-	-	-	45	-
AC1247	-	-	-	-	5	-
AC1248	-	-	-	-	45	-
AC1228	-	-	-	-	55	-
AC1220	-	-	-	-	3	-
AC1219	-	-	-	-	30	-
AC1221	-	-	-	-	5	-
AC1223	-	-	-	-	25	-
AC1224	-	-	-	-	100	-
AC1229	-	-	-	-	95	-

739150

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1230	-	-	-	-	90	-
AC1231	-	-	-	-	110	-
AC1232	-	-	-	-	20	-
AC1233	-	-	-	-	75	-
AC1234	-	-	-	-	70	-
AC1235	-	-	-	-	105	-
AC1238	-	-	-	-	45	-
AC1239	-	-	-	-	25	-
AC1240	-	-	-	-	40	-
AC1241	-	-	-	-	55	-
AC1236	-	-	-	-	105	-
AC1237	-	-	-	-	105	-
AC1222	-	-	-	-	5	-
AC1202	-	-	-	-	5	-
AC1200	-	-	-	-	15	-
AC1199	-	-	-	-	5	-
AC1201	-	-	-	-	5	-
188914	50	-	-	-	6	-
188916	-	-	-	-	6	-
692099	10	-	1.500	2.500	1	1
666081	10	-	1.500	2.500	20	1
666080	10	-	1.500	2.500	500	2
666076	30	-	1.500	2.500	2	1
666074	20	-	1.500	2.500	40	1
666062	20	-	1.500	2.500	0.500	1
666071	25	-	1.500	2.500	8	1
666070	10	-	1.500	2.500	15	1
666073	50	-	1.500	2.500	120	1
666051	45	-	1.500	2.500	6	1
666054	15	-	1.500	2	1	1
666052	10	-	1.500	2.500	0.500	1
666053	10	-	1.500	2.500	5	1
666075	20	-	1.500	2.500	80	1
666072	10	-	1.500	2.500	7	1
666063	10	-	1.500	2.500	5	3
666064	20	-	1.500	2.500	15	1
666077	10	-	1.500	2.500	150	2
666078	5	-	1.500	2.500	7	1
692094	5	-	1.500	2.500	8	1
692092	5	-	1.500	2.500	3	3
692090	5	-	1.500	2.500	0.500	1
692091	2.500	-	1.500	2.500	700	1
692093	5	-	1.500	2.500	0.500	1
692088	5	-	1.500	2.500	0.500	1
692089	5	-	1.500	2.500	1	1
692094	5	-	1.500	2.500	0.500	1
692083	2.500	-	1.500	2.500	0.500	1
692087	5	-	1.500	2.500	5	1
692085	5	-	1.500	2.500	4	1
692086	2.500	-	1.500	2.500	1	1
692077	2.500	-	1.500	2.500	2	1
692076	2.500	-	1.500	2.500	508	2
692075	2.500	-	1.500	2.500	1	1
666065	10	-	1.500	2.500	4	25
666066	15	-	1.500	2.500	3	2
666069	25	-	1.500	2.500	4	1
666068	20	-	1.500	10	3	7
780104	10	10	1.500	2.500	2	1
780102	10	15	1.500	2.500	1	1
780103	5	2.500	1.500	2.500	2	1

739151

SAMPLE NO.	NI	CD	MD	AS	SN	CXCU
780101	10	10	1.500	2.500	2	1
780100	10	10	1.500	2.500	2	1
780080	10	5	1.500	2.500	2	4
780099	5	2.500	1.500	2.500	1	1
780098	5	2.500	1.500	5	1	1
692099	10	2.500	1.500	2.500	1	1
780047	5	2.500	1.500	2.500	7	2
780048	2.500	2.500	1.500	2.500	1	1
780049	5	2.500	1.500	2.500	3	2
780050	2.500	2.500	1.500	2.500	2	1
780063	5	2.500	1.500	2.500	2	1
780062	5	2.500	1.500	2.500	5	1

NUMBERS THAT ARE CODED - REPRESENT 'SPECIAL VALUES'.
THESE VALUES WILL BE EXCLUDED FROM ALL CALCUALTIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
EAST BETWEEN 300000.000 AND 343650.000
AND
NORTH BETWEEN ***** AND *****
WILL BE SELECTED.

*** VARIABLE REMARKS NOT IN OUTPUT LIST

SAMPLE NO.	EAST	NORTH	STRKORD	TOFO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU	
ML4654	340832	5389975	2	3	1	-	10	7	30	160	33.000	)
ML4655	341040	5389297	2	3	1	-	10	7	10	65	17.000	)
AC1575	333689	5375157	3	1	1	1	1	11	-	-	10.000	)
AC1464	332164	5378697	3	2	1	9	1	15	-	-	10.000	)
AC1465	332404	5378849	3	2	1	9	1	15	-	-	10.000	)
AC1466	332593	5379041	3	2	1	9	1	15	-	-	10.000	)
AC1467	332945	5379105	1	2	1	9	16	15	-	-	10.000	)
AC1468	332993	5379426	3	2	1	20	1	7	-	-	10.000	)
AC1469	333543	5379641	3	2	1	20	1	12	-	-	10.000	)
AC1448	329724	5379583	1	1	1	1	1	1	-	-	10.000	)
AC1450	330047	5379668	3	1	1	9	1	10	-	-	150.000	)
AC1462	330560	5380086	2	2	1	3	1	10	-	-	350.000	)
AC1463	330839	5380360	2	2	1	6	1	10	-	-	30.000	)
AC1449	329701	5379966	1	2	1	2	1	10	-	-	10.000	)
AC1451	330317	5380372	3	2	1	9	1	10	-	-	200.000	)
AC1452	330263	5380571	3	2	1	9	1	10	-	-	270.000	)
AC1453	330180	5380867	3	2	1	19	10	14	-	-	70.000	)
AC1454	330485	5381174	3	2	1	19	18	14	-	-	10.000	)
AC1460	330708	5381568	3	2	1	2	1	12	-	-	10.000	)
AC1461	330842	5381773	3	2	1	2	16	12	-	-	10.000	)
AC1440	328864	5379375	2	2	1	19	18	14	-	-	10.000	)
AC1441	328781	5379581	2	2	1	19	18	14	-	-	10.000	)
AC1442	328793	5379700	2	2	1	19	18	14	-	-	10.000	)
AC1443	328964	5380143	2	2	1	19	18	14	-	-	10.000	)
AC1444	329139	5380304	2	2	1	2	1	2	-	-	10.000	)
AC1445	329410	5380488	1	2	1	2	1	2	-	-	10.000	)
AC1446	329229	5380524	1	2	1	2	1	2	-	-	10.000	)
AC1447	329314	5380834	1	2	1	2	1	2	-	-	10.000	)
AC1455	330447	5381466	1	2	1	19	18	14	-	-	10.000	)
AC1456	330230	5381650	1	2	1	19	18	14	-	-	10.000	)
AC1457	330324	5382000	1	2	1	19	10	14	-	-	10.000	)
AC1458	330420	5382265	1	2	1	9	10	7	-	-	10.000	)
AC1459	330634	5382560	1	2	1	9	10	7	-	-	10.000	)
AC1421	327627	5379250	2	2	1	19	18	14	-	-	10.000	)
AC1422	327706	5379522	2	2	1	19	18	14	-	-	10.000	)
AC1423	328035	5379659	2	2	1	19	18	14	-	-	10.000	)
AC1424	328158	5379901	2	2	1	19	18	14	-	-	10.000	)
AC1425	328222	5380191	2	2	1	19	18	14	-	-	10.000	)
AC1426	328244	5380486	1	2	1	2	18	2	-	-	10.000	)
AC1427	328294	5380712	1	2	1	2	18	2	-	-	10.000	)
AC1428	328386	5380919	1	2	1	2	19	2	-	-	10.000	)
AC1429	328480	5380493	1	2	1	2	18	2	-	-	10.000	)
AC1433	328468	5380033	1	2	1	19	18	14	-	-	10.000	)
AC1432	328321	5379820	1	2	1	19	18	14	-	-	10.000	)
AC1435	328971	5380522	1	2	1	2	1	2	-	-	10.000	)
AC1436	328726	5380608	1	2	1	2	1	2	-	-	10.000	)
AC1437	329089	5380996	1	2	1	2	1	2	-	-	10.000	)
AC1430	328736	5380598	1	2	1	2	18	2	-	-	10.000	)
AC1431	328870	5380816	1	2	1	2	1	2	-	-	10.000	)
AC1438	329117	5381331	1	2	1	2	1	2	-	-	48.000	)
AC1439	329328	5381519	1	2	1	2	1	2	-	-	10.000	)
AC1416	327862	5381033	1	2	1	2	1	2	-	-	10.000	)
AC1415	327806	5381255	1	2	1	2	1	2	-	-	10.000	)
AC1414	327448	5381091	1	2	1	19	18	2	-	-	10.000	)
AC1413	327300	5380914	3	2	1	19	18	2	-	-	10.000	)
AC1412	327078	5380841	2	2	1	19	18	14	-	-	10.000	)
AC1411	326823	5380531	2	2	1	19	18	14	-	-	10.000	)
AC1417	326912	5380421	1	2	1	19	18	14	-	-	10.000	)
AC1418	327151	5380391	1	2	1	19	18	14	-	-	10.000	)
AC1419	327446	5380394	1	2	1	19	18	14	-	-	10.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU	
AC1420	327707	5380418	1	2	1	19	18	14	-	-	10.000	)
AC1407	326572	5381622	1	2	1	19	18	14	-	-	10.000	)
AC1408	326341	5381734	1	2	1	19	18	14	-	-	10.000	)
AC1409	327058	5381872	1	2	1	19	18	2	-	-	10.000	)
AC1410	327419	5381750	1	2	1	2	1	2	-	-	10.000	)
AC1406	327404	5382601	1	2	1	19	1	14	-	-	10.000	)
AC1405	327136	5382742	1	2	1	19	18	2	-	-	10.000	)
AC1404	326891	5382820	1	2	1	19	18	2	-	-	10.000	)
AC1403	326674	5382930	1	2	1	19	18	14	-	-	10.000	)
AC1394	328017	5382454	2	2	1	9	1	2	-	-	10.000	)
AC1381	327231	5383592	3	1	1	19	10	8	-	-	10.000	)
AC1382	327410	5383424	3	2	1	19	10	8	-	-	10.000	)
AC1383	327602	5383323	3	2	1	9	10	8	-	-	10.000	)
AC1384	328028	5383252	2	2	1	9	10	8	-	-	10.000	)
AC1385	328294	5383281	2	2	1	9	10	8	-	-	10.000	)
AC1390	327936	5383127	1	2	1	9	10	8	-	-	10.000	)
AC1391	328097	5382984	1	2	1	9	10	8	-	-	10.000	)
AC1392	327883	5382963	2	2	1	9	18	8	-	-	10.000	)
AC1393	327970	5382703	2	2	1	9	18	8	-	-	10.000	)
AC1395	328209	5382270	2	2	1	2	1	2	-	-	620.000	)
AC1396	328494	5382271	2	2	1	2	1	2	-	-	65.000	)
AC1397	328810	5382369	1	2	1	2	1	2	-	-	20.000	)
AC1400	328809	5382179	1	2	1	2	1	2	-	-	100.000	)
AC1398	329304	5382483	1	2	1	2	1	2	-	-	20.000	)
AC1399	329711	5382397	1	2	1	2	1	2	-	-	10.000	)
AC1389	329536	5382851	1	2	1	2	1	2	-	-	65.000	)
AC1388	329222	5383063	1	2	1	2	1	2	-	-	65.000	)
AC1387	328915	5383148	1	2	1	9	1	8	-	-	65.000	)
AC1386	328675	5383171	1	2	1	9	1	8	-	-	65.000	)
AC1354	328459	5383768	4	2	1	9	10	8	-	-	670.000	)
AC1358	329151	5384514	1	2	1	9	10	8	-	-	10.000	)
AC1352	328050	5383964	4	2	1	9	10	8	-	-	10.000	)
AC1351	327918	5384115	4	2	1	9	10	8	-	-	10.000	)
AC1348	327952	5384249	2	2	1	9	10	8	-	-	10.000	)
AC1336	327670	5384741	2	2	1	9	10	8	-	-	10.000	)
AC1335	327438	5384754	2	2	1	9	10	8	-	-	10.000	)
AC1337	327903	5384756	2	2	1	9	10	8	-	-	52.000	)
AC1329	328014	5385418	1	2	1	9	10	8	-	-	10.000	)
AC1330	329354	5385467	1	3	1	9	10	8	-	-	10.000	)
AC1339	328402	5384953	2	2	1	9	10	8	-	-	10.000	)
AC1338	329142	5384886	2	2	1	9	10	8	-	-	10.000	)
AC1349	328253	5384355	1	2	1	9	10	8	-	-	10.000	)
AC1350	328279	5384229	1	2	1	9	10	8	-	-	10.000	)
AC1357	329004	5384136	4	2	1	9	10	8	-	-	10.000	)
AC1356	328832	5383989	4	2	1	0	10	8	-	-	230.000	)
AC1365	329320	5384173	4	2	1	9	10	8	-	-	10.000	)
AC1355	328691	5383813	4	2	1	9	10	8	-	-	830.000	)
AC1368	329523	5383561	3	2	1	9	10	8	-	-	10.000	)
AC1369	329731	5383492	3	2	1	9	10	8	-	-	10.000	)
AC1370	329963	5383467	3	2	1	9	10	8	-	-	10.000	)
AC1371	330264	5383718	3	2	1	9	10	8	-	-	10.000	)
AC1367	329482	5383745	3	2	1	9	10	8	-	-	10.000	)
AC1366	329465	5383933	3	2	1	9	10	8	-	-	10.000	)
AC1372	327701	5384186	3	2	1	9	10	8	-	-	10.000	)
AC1374	330310	5384452	3	2	1	9	10	8	-	-	10.000	)
AC1375	330663	5384708	3	2	1	9	10	8	-	-	10.000	)
AC1376	330789	5385039	3	2	1	9	10	8	-	-	10.000	)
AC1377	330943	5385417	3	2	1	9	10	8	-	-	10.000	)
AC1379	331540	5385838	3	3	1	9	10	8	-	-	10.000	)
AC1380	331310	5385936	2	3	1	9	10	8	-	-	10.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMTYP	SITEGEO	FORMGEO	PROFCAR	PB	ZN	CU	
AC1378	331306	5385638	3	3	1	9	10	8	-	-	10.000	)
AC1327	328009	5385573	1	2	1	9	10	8	-	-	10.000	)
AC1329	328204	5385630	1	3	1	9	10	8	-	-	10.000	)
AC1331	328630	5385511	1	3	1	9	10	8	-	-	10.000	)
AC1332	328888	5385685	1	3	1	9	10	8	-	-	10.000	)
AC1333	329070	5385982	1	3	1	9	10	8	-	-	10.000	)
AC1334	329226	5385930	1	3	1	9	10	8	-	-	10.000	)
AC1342	328895	5385347	2	2	1	9	10	8	-	-	50.000	)
AC1343	329239	5385627	1	2	1	9	10	8	-	-	60.000	)
AC1344	329284	5385470	2	2	1	9	10	8	-	-	10.000	)
AC1345	329526	5385372	2	2	1	9	10	8	-	-	55.000	)
AC1347	330013	5385572	2	2	1	9	10	8	-	-	10.000	)
AC1346	329792	5385466	2	2	1	9	10	8	-	-	10.000	)
AC1363	329846	5385139	1	2	1	2	10	8	-	-	10.000	)
AC1362	329420	5384948	1	2	1	9	10	8	-	-	10.000	)
AC1361	329628	5384966	1	2	1	9	10	8	-	-	10.000	)
AC1341	328941	5385053	1	2	1	9	10	8	-	-	55.000	)
AC1340	328638	5385068	2	2	1	9	10	8	-	-	60.000	)
AC1360	329434	5384750	1	2	1	9	10	8	-	-	10.000	)
AC1359	329419	5384518	1	2	1	9	10	8	-	-	10.000	)
AC1364	329273	5381345	2	2	1	9	10	8	-	-	10.000	)
AC1373	329911	5384337	3	2	1	9	10	8	-	-	10.000	)
AC1326	332302	5389748	1	3	1	9	10	8	-	-	10.000	)
AC1325	332031	5389942	1	3	1	9	10	8	-	-	10.000	)
AC1324	331695	5389843	2	3	1	9	10	8	-	-	10.000	)
AC1323	331875	5389617	2	3	1	9	10	8	-	-	10.000	)
AC1322	331117	5389368	1	3	1	9	10	8	-	-	10.000	)
AC1321	330913	5389100	1	3	1	9	10	8	-	-	10.000	)
AC1320	330187	5388760	2	2	1	9	10	8	-	-	10.000	)
AC1319	330121	5388405	2	3	1	9	10	8	-	-	10.000	)
AC1318	329512	5388454	1	2	1	2	1	2	-	-	10.000	)
AC1317	329411	5388342	1	2	1	2	18	2	-	-	10.000	)
AC1316	328901	5388111	1	2	1	19	18	14	-	-	10.000	)
AC1315	328878	5387722	1	2	1	19	18	14	-	-	10.000	)
AC1314	329133	5387558	2	2	1	9	10	8	-	-	10.000	)
AC1313	329289	5387408	2	3	1	9	10	8	-	-	10.000	)
AC1310	328266	5386786	1	3	1	14	18	14	-	-	10.000	)
AC1311	328337	5387126	1	2	1	2	13	13	-	-	10.000	)
AC1312	328511	5387503	1	2	1	2	13	14	-	-	10.000	)
AC1303	327531	5386957	1	2	1	2	1	14	-	-	10.000	)
AC1300	327291	5387275	2	2	1	19	18	14	-	-	10.000	)
AC1292	327392	5387787	1	2	1	9	11	9	-	-	10.000	)
AC1308	326878	5386422	1	2	1	19	18	14	-	-	10.000	)
AC1302	326840	5386784	1	2	1	19	11	14	-	-	10.000	)
AC1299	326989	5387142	2	2	1	19	18	14	-	-	10.000	)
AC1298	326779	5387076	2	2	1	19	10	14	-	-	10.000	)
AC1295	326253	5387210	1	2	1	6	10	9	-	-	10.000	)
AC1291	326540	5387746	2	2	1	19	18	14	-	-	10.000	)
AC1290	326559	5387926	1	2	1	19	13	14	-	-	10.000	)
AC1289	326242	5387888	2	2	1	9	11	9	-	-	10.000	)
AC1288	326036	5387840	2	2	1	9	11	9	-	-	10.000	)
AC1286	325949	5388323	1	2	1	9	11	9	-	-	10.000	)
AC1282	326105	5388636	2	2	1	9	11	9	-	-	10.000	)
AC1281	326084	5388884	2	2	1	9	11	9	-	-	10.000	)
AC1279	325895	5389142	1	2	1	9	11	9	-	-	10.000	)
AC1280	325660	5389910	3	2	1	9	11	9	-	-	10.000	)
AC1283	325397	5388683	2	2	1	9	11	9	-	-	10.000	)
AC1285	325810	5389292	1	2	1	9	11	9	-	-	10.000	)
AC1287	325658	5387634	2	2	1	6	10	9	-	-	10.000	)
AC1284	325610	5388534	2	2	1	9	11	9	-	-	10.000	)

SAMPLE NO.	EAST	NORTH	STRMORD	TOFO	SMPTYP	SITEGEO	FORMGEO	PROFCAR	FB	ZN	CU
AC1293	326001	5387603	1	2	1	9	11	9	-	-	10.000
AC1294	325722	5387102	1	2	1	6	10	9	-	-	10.000
AC1297	326360	5386882	2	2	1	19	10	14	-	-	10.000
AC1296	325996	5386666	2	2	1	6	10	9	-	-	10.000
AC1301	326652	5386845	1	2	1	9	11	9	-	-	10.000
AC1307	326613	5386406	1	2	1	9	11	9	-	-	10.000
AC1304	326093	5386257	1	1	1	6	10	9	-	-	10.000
AC1306	326610	5386081	2	2	1	9	11	9	-	-	10.000
AC1305	326401	5385797	2	1	1	9	11	9	-	-	10.000
AC1309	326637	5385517	1	1	1	9	11	9	-	-	10.000
AC1470	333889	5375254	1	1	1	1	1	11	-	-	10.000
AC1471	334250	5375662	3	2	1	21	13	11	-	-	10.000
AC1472	334412	5375910	3	2	1	21	13	11	-	-	10.000
AC1473	334783	5375682	1	2	1	21	1	11	-	-	60.000
AC1474	334807	5375930	3	2	1	21	1	11	-	-	110.000
AC1475	334899	5376119	3	2	1	21	13	11	-	-	10.000
AC1476	335369	5376145	3	2	1	21	1	11	-	-	10.000
AC1477	335751	5376435	3	2	1	21	1	11	-	-	50.000
AC1353	328192	5384104	4	2	1	9	10	8	-	-	590.000
AC1401	329162	5382238	1	2	1	2	1	2	-	-	370.000
AC1402	329467	5382104	1	2	1	2	1	2	-	-	170.000
AC1434	328519	5380436	1	2	1	19	13	14	-	-	10.000
188926	335639	5370995	2	1	1	6	1	11	12	10	5.000
188925	335141	5374271	3	2	1	6	1	4	5	5	1.000
188924	334332	5375783	3	2	1	21	13	11	2.500	5	2.000
188982	343474	5380972	3	3	1	21	13	11	25	75	22.000
188983	339245	5386350	3	3	1	15	10	7	2.500	10	5.000
188984	338277	5386968	3	2	1	-	12	7	2.500	12	5.000
188917	325846	5387906	4	2	1	9	13	14	13	20	8.000
188918	326085	5386879	2	2	1	6	11	7	3.500	5	2.000
188919	328735	5384046	2	2	1	21	10	9	2.500	8	1.000
188920	327575	5383429	4	2	1	9	10	8	5	5	2.000
188921	327588	5383444	3	2	1	6	10	8	2.500	12	1.000
188922	330141	5380795	3	2	1	10	1	10	5	5	2.000
188923	332255	5378960	3	2	1	3	1	15	2.500	10	5.000
780108	333655	5375415	2	1	1	-	1	11	2.500	35	2.000
780107	333528	5375548	1	1	1	-	1	11	2.500	35	1.000
780105	333023	5377563	2	2	1	-	1	7	19500	10	450.000
780106	333036	5377733	2	2	1	-	1	7	2.500	30	5.000
790168	331621	5378307	3	1	1	-	1	1	5	35	30.000
790158	332840	5379307	1	2	1	-	1	15	2.500	15	2.000
790159	332806	5379482	3	2	1	-	10	7	2.500	10	2.000
790125	331020	5379317	2	1	1	-	1	1	2.500	15	2.000
790127	330293	5379786	2	1	1	-	1	10	2.500	40	20.000
790128	330103	5379901	3	1	1	-	1	10	2.500	40	7.000
790108	328469	5379059	1	2	1	-	13	14	2.500	7	3.000
790107	328884	5379587	2	3	1	-	13	14	2.500	10	2.000
790104	329413	5379927	1	2	1	-	13	14	2.500	7	2.000
790103	329483	5379814	1	2	1	-	1	10	2.500	50	2.000
790102	329795	5379833	1	2	1	-	1	1	2.500	10	2.000
790130	330313	5380493	3	2	1	-	1	10	2.500	10	55.000
790129	330129	5380596	1	1	1	-	1	10	15	20	30.000
790131	330452	5380855	1	2	1	-	1	10	15	25	5.000
790133	330658	5381636	3	2	1	-	10	14	10	20	4.000
790132	330501	5381685	1	2	1	-	13	14	2.500	35	7.000
790134	331224	5382236	1	1	1	-	13	12	5	20	5.000
790135	331195	5382452	3	2	1	-	2	7	20	30	5.000
790136	331526	5382300	3	2	1	-	2	12	300	80	80.000
790138	331737	5382982	3	2	1	-	2	12	10	10	3.000
790137	331608	5383182	1	2	1	-	2	7	1700	20	4.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEO	FORMGEO	PRGFCAR	PR	ZN	CU
790139	332604	5382880	1	3	1	-	16	12	2.500	25	4.000
790109	327676	5379475	2	2	1	-	18	14	2.500	10	3.000
790110	326901	5380646	1	2	1	-	18	14	2.500	15	4.000
790111	326900	5380793	2	2	1	-	18	14	2.500	7	4.000
790113	326790	5380904	1	2	1	-	18	14	2.500	7	4.000
790114	326589	5381835	1	2	1	-	18	14	2.500	10	4.000
790124	327968	5381086	1	2	1	-	1	2	2.500	10	3.000
790123	328096	5381013	1	2	1	-	18	14	2.500	20	10.000
790122	328184	5380740	1	2	1	-	18	2	2.500	15	3.000
790121	328597	5380858	1	2	1	-	18	2	2.500	15	10.000
790120	328790	5380840	1	2	1	-	1	2	2.500	10	4.000
790119	329030	5380786	1	2	1	-	1	2	2.500	7	2.000
790117	329272	5380748	1	2	1	-	1	2	5	5	4.000
790118	329359	5380645	1	2	1	-	1	2	2.500	7	2.000
780051	326421	5383273	2	2	1	-	18	14	15	40	5.000
780052	327022	5383638	1	2	1	-	10	14	10	40	5.000
780075	327958	5384346	4	2	1	-	10	8	20	20	5.000
780074	328004	5384531	2	2	1	-	10	8	15	55	5.000
780077	327671	5385015	2	2	1	-	10	8	20	80	5.000
780066	327982	5385689	1	2	1	-	10	8	20	65	5.000
780065	328042	5385868	1	3	1	-	10	8	15	30	5.000
780067	329993	5386002	1	2	1	-	10	8	20	30	5.000
780068	330113	5385904	2	2	1	-	1	8	15	15	5.000
780069	331332	5386226	2	3	1	-	10	8	20	20	5.000
780070	331481	5386103	3	3	1	-	10	7	20	20	5.000
780073	329317	5384648	1	2	1	-	10	8	20	65	5.000
780076	329475	5384259	3	2	1	-	10	8	10	20	5.000
780055	328064	5383511	2	2	1	-	10	8	20	40	5.000
780054	327976	5383374	1	2	1	-	10	8	20	250	5.000
780079	330082	5387427	2	3	1	-	10	8	20	15	5.000
790140	330922	5383995	1	2	1	-	10	7	2.500	40	4.000
790141	330845	5384268	3	2	1	-	2	7	2.500	20	7.000
790142	331849	5385081	1	2	1	-	2	7	2.500	10	4.000
790169	332635	5385243	3	2	1	-	2	7	10	10	5.000
790144	332347	5385261	3	2	1	-	10	7	2.500	25	5.000
790143	331827	5385219	3	2	1	-	2	7	2.500	20	3.000
790175	333079	5387886	2	2	1	-	10	7	20	15	5.000
790172	331419	5387786	1	2	1	-	10	8	20	2340	15.000
790171	331435	5388006	2	3	1	-	10	8	2.500	5	2.000
692095	328315	5386987	1	3	1	-	13	14	10	20	5.000
692096	329643	5387564	2	3	1	-	10	8	10	3300	5.000
692097	330382	5388620	2	3	1	-	10	15	10	25	5.000
692098	331871	5389951	2	3	1	-	10	8	15	20	5.000
666099	326597	5385682	1	2	1	-	11	8	2.500	7	5.000
666089	326343	5386026	2	2	1	-	10	9	2.500	40	5.000
666098	325669	5387341	2	2	1	-	10	8	2.500	20	5.000
666086	325747	5387954	2	2	1	-	10	9	10	55	10.000
666085	325449	5388895	1	2	1	-	11	9	15	100	5.000
666084	325525	5389190	3	2	1	-	11	9	10	45	5.000
666083	325553	5389367	1	2	1	-	11	9	2.500	15	5.000
666082	325476	5389955	2	2	1	-	11	9	10	10	5.000
666097	326147	5389159	2	2	1	-	13	9	10	25	5.000
666096	326231	5389954	1	2	1	-	13	8	2.500	15	5.000
666095	326203	5389772	1	2	1	-	13	14	2.500	20	5.000
666094	326543	5389178	1	2	1	-	13	14	2.500	30	5.000
666092	326792	5387959	1	2	1	-	13	14	10	30	5.000
666029	326797	5387951	1	2	1	-	13	14	10	35	20.000
666030	327021	5387816	1	2	1	-	13	14	10	15	5.000
666091	326815	5387616	1	2	1	-	13	9	10	30	10.000
666092	326934	5387343	1	2	1	-	13	14	2.500	25	5.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPD	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	FB	ZN	CU
666093	326938	5387063	1	2	1	-	18	14	2,500	25	5,000
666025	327044	5386815	1	2	1	-	18	14	10	25	10,000
666026	326491	5387195	2	2	1	-	11	9	10	20	5,000
666090	326408	5387573	1	2	1	-	11	9	2,500	35	5,000
666027	326572	5387987	2	2	1	-	18	14	10	20	5,000
780158	335545	5370947	2	1	1	-	1	11	15	220	30,000
780192	334897	5371905	1	2	1	-	18	12	5	40	15,000
780191	334431	5372564	1	2	1	-	18	12	2,500	20	10,000
780189	334776	5373066	1	2	1	-	1	14	5	30	5,000
780190	334777	5373286	1	2	1	-	1	14	2,500	85	4,000
780163	334087	5374324	1	2	1	-	1	4	10	25	7,000
780115	333786	5375166	1	2	1	-	1	11	2,500	15	1,000
780200	341618	5370202	1	2	1	-	9	11	2,500	85	4,000
780202	341113	5370411	2	2	1	-	9	11	2,500	15	3,000
780203	341138	5370601	2	2	1	-	9	11	5	10	4,000
780204	340495	5371088	2	2	1	-	1	12	5	15	5,000
780208	339973	5370938	2	1	1	-	1	12	5	30	3,000
780205	339350	5371047	1	2	1	-	16	12	10	175	40,000
780207	338867	5371062	1	2	1	-	16	12	15	75	40,000
780206	339002	5371185	1	2	1	-	16	12	10	90	20,000
780180	337540	5371786	1	2	1	-	16	12	5	80	20,000
780179	337467	5371927	1	2	1	-	16	12	5	70	10,000
780152	336826	5372021	1	2	1	-	16	11	10	40	5,000
780151	336746	5372198	1	2	1	-	16	11	15	140	30,000
780153	336367	5371888	2	2	1	-	16	12	10	130	33,000
780177	336757	5374628	3	2	1	-	13	11	2,500	20	5,000
780178	336927	5375168	1	2	1	-	1	11	2,500	20	5,000
780219	339497	5374980	1	2	1	-	1	4	2,500	20	10,000
780218	339920	5374709	1	2	1	-	1	4	5	40	7,000
780217	339875	5374520	3	2	1	-	1	4	2,500	15	10,000
780220	338974	5374793	2	2	1	-	1	4	10	85	10,000
780223	340081	5373397	1	2	1	-	1	11	10	20	10,000
780222	340096	5373201	1	2	1	-	1	11	10	45	10,000
780215	340234	5372379	1	2	1	-	1	11	2,500	20	5,000
780221	340685	5374651	2	2	1	-	1	4	2,500	100	10,000
780194	340634	5374229	1	2	1	-	6	11	2,500	10	5,000
780160	334269	5380157	1	2	1	-	16	7	2,500	15	3,000
780161	334407	5380043	3	2	1	-	16	7	2,500	15	1,000
780162	335034	5380303	3	2	1	-	16	7	10	60	30,000
780164	335100	5380017	2	2	1	-	13	7	10	60	30,000
780163	334981	5379912	1	2	1	-	16	7	2,500	25	2,000
780125	333794	5375343	3	2	1	-	1	11	2,500	10	2,000
780116	334777	5375639	1	2	1	-	1	11	5	40	10,000
780123	334727	5375870	3	2	1	-	1	11	2,500	7	2,000
780119	335405	5376095	1	2	1	-	1	11	2,500	35	2,000
780147	335936	5376810	2	2	1	-	13	11	5	15	30,000
780120	335468	5376302	3	2	1	-	1	11	2,500	15	3,000
780117	335174	5376213	3	2	1	-	1	11	2,500	25	2,000
780164	335852	5376419	1	2	1	-	1	11	5	25	5,000
780150	336247	5376720	3	2	1	-	1	11	10	20	5,000
780165	336820	5376927	3	2	1	-	13	11	10	20	5,000
780166	338028	5377625	1	2	1	-	1	11	5	20	5,000
780167	337934	5377873	3	2	1	-	13	11	10	15	4,000
780168	338032	5378092	1	2	1	-	13	11	2,500	20	5,000
780171	338546	5378160	1	2	1	-	1	11	2,500	15	5,000
780170	338448	5378326	1	2	1	-	13	11	20	580	175,000
780175	338773	5378311	2	2	1	-	1	11	5	20	5,000
780173	338597	5378539	1	2	1	-	13	11	2,500	15	20,000
780174	338747	5378607	2	2	1	-	13	11	2,500	15	5,000
780233	339671	5378848	1	2	1	-	13	11	2,500	7	3,000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	FB	ZN	CU
780234	339823	5378846	1	2	1	-	13	11	2.500	15	3.000
780232	340161	5378536	1	2	1	-	1	11	2.500	7	5.000
780231	340183	5378696	1	2	1	-	1	11	2.500	10	5.000
780240	340501	5379896	1	2	1	-	13	11	2.500	25	3.000
780244	340607	5379782	1	2	1	-	13	11	10	20	5.000
780238	341069	5379418	1	2	1	-	13	11	2.500	20	5.000
780229	341457	5379070	1	2	1	-	13	11	2.500	20	7.000
780228	341575	5378933	1	2	1	-	13	11	2.500	15	5.000
780227	341785	5378993	1	2	1	-	1	11	2.500	15	5.000
780246	342621	5379188	1	2	1	-	13	11	2.500	40	20.000
780245	342833	5379305	1	2	1	-	13	11	2.500	25	30.000
780226	341855	5379442	1	2	1	-	13	11	10	40	20.000
780225	341614	5379773	2	2	1	-	13	11	2.500	20	5.000
780247	342704	5380234	2	2	1	-	13	11	2.500	40	10.000
780250	342913	5380334	2	3	1	-	13	11	10	55	50.000
780248	342544	5380287	3	2	1	-	13	11	2.500	25	10.000
780249	342582	5380464	1	2	1	-	13	11	2.500	40	5.000
780328	343376	5381752	2	2	1	-	13	11	50	90	35.000
780109	334405	5377137	2	2	1	-	1	11	5	390	1.000
780110	334865	5377443	2	2	1	-	16	11	2.500	25	1.000
780111	335009	5377586	1	2	1	-	16	11	2.500	60	10.000
780113	335035	5377798	1	2	1	-	16	12	2.500	30	2.000
780112	334973	5378012	1	2	1	-	16	12	2.500	6050	1.000
780127	334750	5382255	1	2	1	-	16	7	2.500	20	2.000
780126	335005	5382257	1	2	1	-	16	7	2.500	20	3.000
780145	335245	5383118	2	2	1	-	16	7	2.500	15	1.000
780144	335452	5383123	1	3	1	-	12	7	2.500	95	2.000
780129	336175	5384144	1	2	1	-	12	7	2.500	20	10.000
780131	336339	5384255	1	2	1	-	12	7	10	50	25.000
780130	336370	5384467	1	2	1	-	12	7	2.500	40	10.000
780134	336613	5385061	2	2	1	-	12	7	2.500	20	5.000
780133	336796	5385081	2	2	1	-	12	7	5	65	30.000
780135	336784	5385433	1	2	1	-	12	7	2.500	15	1.000
780136	336831	5385620	1	2	1	-	12	7	2.500	10	5.000
780137	336909	5385779	1	2	1	-	12	7	10	40	15.000
780138	337061	5385962	1	2	1	-	12	7	2.500	55	25.000
780139	337780	5386217	1	2	1	-	12	7	10	55	30.000
780140	337645	5386224	1	2	1	-	12	7	10	75	50.000
780143	337328	5386248	3	2	1	-	12	7	2.500	10	2.000
780142	337389	5386447	1	2	1	-	12	7	2.500	20	6.000
780085	337979	5389937	2	3	1	-	11	10	160	30	5.000
780086	337496	5389559	1	3	1	-	11	10	100	15	10.000
780095	337784	5389244	2	3	1	-	10	7	290	20	6.000
780094	338387	5387735	2	2	1	-	12	7	2.500	10	4.000
780093	338488	5387066	3	3	1	-	12	7	550	20	7.000
780089	339336	5387294	1	3	1	-	20	7	300	40	45.000
780090	339412	5386858	3	2	1	-	10	7	45	35	7.000
780352	339781	5389893	1	2	1	-	12	7	30	40	20.000
780351	340046	5389174	2	2	1	-	20	7	50	75	30.000
780447	340850	5388927	1	2	1	-	10	7	15	45	5.000
780440	340703	5388639	1	3	1	-	10	7	2.500	45	7.000
780430	342158	5388576	1	2	1	-	10	7	-	100	20.000
780435	341728	5387929	1	2	1	-	20	11	2.500	20	15.000
780434	341909	5387634	2	3	1	-	20	11	-	40	50.000
780433	342044	5387800	1	3	1	-	20	11	10	65	65.000
780432	341200	5387910	1	3	1	-	20	11	10	50	50.000
780431	342257	5388177	1	3	1	-	20	11	10	55	60.000
780426	342791	5388486	1	3	1	-	20	11	10	60	65.000
780427	343057	5388518	1	3	1	-	13	11	10	50	65.000
780428	343271	5388792	2	3	1	-	10	11	10	70	115.000

SAMPLE NO.	EAST	NORTH	STRMORD	TOPO	SMPTYP	SITEGEOL	FORMGEOL	PROFCAR	PB	ZN	CU
780425	342755	5388719	2	3	1	-	20	11	10	50	40.000
780439	342151	5389313	1	3	1	-	10	7	15	20	25.000
780429	342786	5389657	1	3	1	-	10	7	10	35	40.000
780424	342533	5389798	1	3	1	-	10	7	2.500	5	20.000
780348	342833	5386368	1	3	1	-	13	11	50	75	20.000
780350	342476	5386601	2	3	1	-	13	11	100	315	70.000
780345	343631	5385179	3	3	1	-	13	11	40	40	10.000
780335	343060	5383909	1	3	1	-	13	11	60	80	20.000
780337	342860	5383792	1	3	1	-	13	11	95	1680	200.000
780338	342607	5383721	1	3	1	-	13	11	30	115	35.000
780340	342001	5384037	3	3	1	-	20	11	30	30	15.000
780343	342284	5384906	1	3	1	-	13	11	50	35	10.000
780344	342474	5385248	1	3	1	-	13	11	50	85	20.000
780342	342540	5384652	1	3	1	-	20	11	20	60	20.000
780336	343097	5384224	1	3	1	-	20	11	10	55	5.000
780360	338940	5384967	1	2	1	-	10	7	20	20	10.000
780361	339155	5384841	2	2	1	-	20	7	30	25	10.000
780358	339367	5385108	2	2	1	-	20	7	40	20	10.000
780357	339297	5385797	3	2	1	-	10	7	50	90	40.000
780091	340529	5386439	1	2	1	-	20	11	35	60	30.000
780092	341180	5386702	2	2	1	-	20	11	20	30	15.000
780349	342324	5386293	1	3	1	-	13	11	60	185	35.000
780442	341234	5389560	1	3	1	-	10	7	2.500	25	15.000
780341	342204	5384615	3	3	1	-	13	11	50	75	20.000
780241	340693	5379853	1	2	1	-	13	11	2.500	15	110.000
780237	340983	5379524	1	2	1	-	13	11	5	40	20.000
780155	336896	5371128	2	2	1	-	9	11	10	75	10.000
780154	336895	5370950	1	2	1	-	9	11	10	70	15.000
790176	336583	5374636	2	2	1	-	1	4	2.500	410	7.000
790177	336711	5374744	3	2	1	-	4	4	2.500	400	5.000
790178	336858	5375169	1	2	1	-	4	4	2.500	40	3.000
790179	337447	5374683	2	2	1	-	1	4	2.500	30	2.000
790180	337079	5374880	3	2	1	-	4	4	2.500	35	5.000
790181	338265	5375074	2	2	1	-	4	4	2.500	20	2.000
790182	338249	5374909	3	2	1	-	1	4	2.500	25	2.000
790184	337439	5375208	2	2	1	-	4	4	2.500	20	5.000
790185	337531	5374839	3	2	1	-	4	4	2.500	25	3.000
790186	335498	5374275	1	1	1	-	4	4	2.500	30	10.000
790187	335511	5374521	1	1	1	-	4	4	2.500	20	5.000
790188	334717	5374159	3	3	1	-	1	4	2.500	20	3.000
790189	334820	5372942	2	1	1	-	1	11	2.500	25	5.000
790190	334812	5373202	2	1	1	-	1	11	2.500	25	5.000
790191	334465	5372513	1	1	1	-	1	11	2.500	20	5.000
790192	334885	5371803	1	1	1	-	1	11	2.500	15	3.000
790193	340616	5374164	1	2	1	-	6	11	2.500	15	3.000
790195	339287	5376859	1	2	1	-	1	4	2.500	5	3.000
790197	339457	5376782	2	2	1	-	1	4	2.500	25	5.000
780061	328743	5389655	1	2	1	-	18	14	10	7	5.000
780053	327710	5383178	2	2	1	-	10	8	15	40	5.000
780108	333597	5375323	2	1	1	-	1	11	2.500	35	2.000
790170	329722	5384386	3	3	1	-	10	5	10	30	8.000
790105	329184	5379579	1	2	1	-	18	14	2.500	7	3.000

SAMPLE NO.	NI	CO	MO	AS	SN	OXCU
ML4654	-	25	20	5	25	12
ML4655	-	25	45	40	50	2,500
AC1575	-	-	-	-	15	-
AC1464	-	-	-	-	15	-
AC1465	-	-	-	-	35	-
AC1466	-	-	-	-	20	-
AC1467	-	-	-	-	15	-
AC1468	-	-	-	-	5	-
AC1469	-	-	-	-	40	-
AC1448	-	-	-	-	15	-
AC1450	-	-	-	-	25	-
AC1462	-	-	-	-	10	-
AC1463	-	-	-	-	440	-
AC1449	-	-	-	-	30	-
AC1451	-	-	-	-	125	-
AC1452	-	-	-	-	5	-
AC1453	-	-	-	-	75	-
AC1454	-	-	-	-	25	-
AC1460	-	-	-	-	135	-
AC1461	-	-	-	-	80	-
AC1440	-	-	-	-	20	-
AC1441	-	-	-	-	5	-
AC1442	-	-	-	-	110	-
AC1443	-	-	-	-	5	-
AC1444	-	-	-	-	80	-
AC1445	-	-	-	-	135	-
AC1446	-	-	-	-	75	-
AC1447	-	-	-	-	200	-
AC1455	-	-	-	-	60	-
AC1456	-	-	-	-	35	-
AC1457	-	-	-	-	70	-
AC1458	-	-	-	-	5	-
AC1459	-	-	-	-	15	-
AC1421	-	-	-	-	130	-
AC1422	-	-	-	-	410	-
AC1423	-	-	-	-	350	-
AC1424	-	-	-	-	130	-
AC1425	-	-	-	-	70	-
AC1426	-	-	-	-	200	-
AC1427	-	-	-	-	150	-
AC1428	-	-	-	-	220	-
AC1429	-	-	-	-	175	-
AC1433	-	-	-	-	60	-
AC1432	-	-	-	-	130	-
AC1435	-	-	-	-	120	-
AC1436	-	-	-	-	100	-
AC1437	-	-	-	-	490	-
AC1430	-	-	-	-	50	-
AC1431	-	-	-	-	50	-
AC1438	-	-	-	-	80	-
AC1439	-	-	-	-	125	-
AC1416	-	-	-	-	70	-
AC1415	-	-	-	-	55	-
AC1414	-	-	-	-	30	-
AC1413	-	-	-	-	50	-
AC1412	-	-	-	-	300	-
AC1411	-	-	-	-	5	-
AC1417	-	-	-	-	20	-
AC1418	-	-	-	-	120	-
AC1419	-	-	-	-	260	-

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1420	-	-	-	-	5	-
AC1407	-	-	-	-	5	-
AC1408	-	-	-	-	5	-
AC1409	-	-	-	-	15	-
AC1410	-	-	-	-	355	-
AC1406	-	-	-	-	65	-
AC1405	-	-	-	-	35	-
AC1404	-	-	-	-	285	-
AC1403	-	-	-	-	320	-
AC1394	-	-	-	-	685	-
AC1381	-	-	-	-	75	-
AC1382	-	-	-	-	200	-
AC1383	-	-	-	-	80	-
AC1384	-	-	-	-	747	-
AC1385	-	-	-	-	20	-
AC1390	-	-	-	-	5	-
AC1391	-	-	-	-	5	-
AC1392	-	-	-	-	100	-
AC1393	-	-	-	-	25	-
AC1395	-	-	-	-	185	-
AC1396	-	-	-	-	70	-
AC1397	-	-	-	-	200	-
AC1400	-	-	-	-	725	-
AC1398	-	-	-	-	120	-
AC1399	-	-	-	-	4090	-
AC1389	-	-	-	-	5	-
AC1388	-	-	-	-	3960	-
AC1387	-	-	-	-	3360	-
AC1386	-	-	-	-	1610	-
AC1354	-	-	-	-	5	-
AC1358	-	-	-	-	15	-
AC1352	-	-	-	-	5	-
AC1351	-	-	-	-	5	-
AC1348	-	-	-	-	180	-
AC1336	-	-	-	-	570	-
AC1335	-	-	-	-	300	-
AC1337	-	-	-	-	420	-
AC1329	-	-	-	-	45	-
AC1330	-	-	-	-	110	-
AC1339	-	-	-	-	2000	-
AC1338	-	-	-	-	400	-
AC1349	-	-	-	-	5	-
AC1350	-	-	-	-	5	-
AC1357	-	-	-	-	45	-
AC1356	-	-	-	-	70	-
AC1345	-	-	-	-	5	-
AC1355	-	-	-	-	130	-
AC1368	-	-	-	-	200	-
AC1369	-	-	-	-	15	-
AC1370	-	-	-	-	5	-
AC1371	-	-	-	-	5	-
AC1367	-	-	-	-	165	-
AC1366	-	-	-	-	5	-
AC1372	-	-	-	-	5	-
AC1374	-	-	-	-	50	-
AC1375	-	-	-	-	5	-
AC1376	-	-	-	-	5	-
AC1377	-	-	-	-	5	-
AC1379	-	-	-	-	5	-
AC1380	-	-	-	-	5	-

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SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1378	-	-	-	-	5	-
AC1327	-	-	-	-	245	-
AC1328	-	-	-	-	130	-
AC1331	-	-	-	-	60	-
AC1332	-	-	-	-	40	-
AC1333	-	-	-	-	15	-
AC1334	-	-	-	-	40	-
AC1342	-	-	-	-	415	-
AC1343	-	-	-	-	600	-
AC1344	-	-	-	-	165	-
AC1345	-	-	-	-	155	-
AC1347	-	-	-	-	5760	-
AC1346	-	-	-	-	-	-
AC1363	-	-	-	-	1340	-
AC1362	-	-	-	-	70	-
AC1361	-	-	-	-	120	-
AC1341	-	-	-	-	1305	-
AC1340	-	-	-	-	7880	-
AC1360	-	-	-	-	5	-
AC1359	-	-	-	-	5	-
AC1364	-	-	-	-	5	-
AC1373	-	-	-	-	5	-
AC1326	-	-	-	-	5	-
AC1325	-	-	-	-	5	-
AC1324	-	-	-	-	5	-
AC1323	-	-	-	-	5	-
AC1322	-	-	-	-	5	-
AC1321	-	-	-	-	5	-
AC1320	-	-	-	-	5	-
AC1319	-	-	-	-	5	-
AC1318	-	-	-	-	5	-
AC1317	-	-	-	-	5	-
AC1316	-	-	-	-	5	-
AC1315	-	-	-	-	5	-
AC1314	-	-	-	-	155	-
AC1313	-	-	-	-	5	-
AC1310	-	-	-	-	5	-
AC1311	-	-	-	-	5	-
AC1312	-	-	-	-	5	-
AC1303	-	-	-	-	20	-
AC1300	-	-	-	-	915	-
AC1292	-	-	-	-	-	-
AC1308	-	-	-	-	10	-
AC1302	-	-	-	-	460	-
AC1299	-	-	-	-	5	-
AC1298	-	-	-	-	30	-
AC1295	-	-	-	-	150	-
AC1291	-	-	-	-	5	-
AC1290	-	-	-	-	60	-
AC1289	-	-	-	-	45	-
AC1288	-	-	-	-	180	-
AC1286	-	-	-	-	5	-
AC1282	-	-	-	-	5	-
AC1281	-	-	-	-	5	-
AC1279	-	-	-	-	5	-
AC1280	-	-	-	-	5	-
AC1283	-	-	-	-	40	-
AC1285	-	-	-	-	15	-
AC1287	-	-	-	-	75	-
AC1284	-	-	-	-	35	-

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
AC1293	-	-	-	-	45	-
AC1294	-	-	-	-	75	-
AC1297	-	-	-	-	600	-
AC1296	-	-	-	-	35	-
AC1301	-	-	-	-	295	-
AC1307	-	-	-	-	190	-
AC1304	-	-	-	-	5	-
AC1306	-	-	-	-	5	-
AC1305	-	-	-	-	75	-
AC1309	-	-	-	-	240	-
AC1470	-	-	-	-	24	-
AC1471	-	-	-	-	25	-
AC1472	-	-	-	-	15	-
AC1473	-	-	-	-	5	-
AC1474	-	-	-	-	5	-
AC1475	-	-	-	-	10	-
AC1476	-	-	-	-	5	-
AC1477	-	-	-	-	20	-
AC1353	-	-	-	-	100	-
AC1401	-	-	-	-	130	-
AC1402	-	-	-	-	890	-
AC1434	-	-	-	-	210	-
188926	-	-	-	-	14	-
188925	-	-	-	-	40	-
188924	-	-	-	-	32	-
188932	-	-	-	-	-	-
188983	-	-	-	-	-	-
188984	-	-	-	-	-	-
188917	-	-	-	-	840	-
188918	-	-	-	-	46	-
188919	-	-	-	-	44	-
188920	-	-	-	-	140	-
188921	-	-	-	-	1250	-
188922	-	-	-	-	70	-
188923	-	-	-	-	16	-
790108	2.500	2.500	1.500	2.500	8	1
790107	2.500	2.500	1.500	2.500	8	1
790105	10	2.500	1.500	2.500	0.500	0.500
790106	2.500	5	1.500	2.500	4	1
790168	10	2.500	1.500	2.500	20	1
790158	5	2.500	1.500	2.500	2	1
790159	2.500	2.500	1.500	2.500	25	1
790125	5	2.500	-	2.500	4	1
790127	15	5	-	2.500	250	1
790128	15	10	-	2.500	12	2
790108	2.500	2.500	-	2.500	3	1
790107	2.500	2.500	-	2.500	8	1
790104	2.500	2.500	-	2.500	0.500	1
790103	10	10	-	2.500	250	1
790102	2.500	2.500	-	2.500	50	1
790130	2.500	2.500	-	10	3	1
790129	2.500	2.500	-	2.500	0.500	1
790131	5	2.500	-	2.500	30	1
790133	5	2.500	1.500	2.500	2	1
790132	5	5	-	2.500	21	1
790134	10	5	1.500	2.500	2	1
790135	5	2.500	-	2.500	3	1
790136	90	15	-	2.500	5	-
790138	2.500	2.500	-	2.500	100	1
790137	5	2.500	-	2.500	1	1

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
790139	5	10	-	2.500	70	1
790109	2.500	5	-	2.500	60	1
790110	2.500	2.500	-	2.500	2	1
790111	2.500	2.500	-	2.500	1	1
790113	2.500	2.500	-	2.500	1	1
790114	2.500	2.500	-	2.500	4	1
790124	2.500	2.500	-	2.500	6	1
790123	2.300	2.500	-	2.500	1	1
790122	2.500	2.500	-	2.500	500	1
790121	2.500	2.500	-	2.500	3	4
790120	2.500	2.500	-	2.500	500	1
790119	2.500	2.500	-	2.500	30	1
790117	2.500	2.500	-	2.500	1	1
790118	2.500	2.500	-	2.500	25	1
780051	5	2.500	1.500	2.500	40	1
780052	10	2.500	1.500	2.500	8	1
780075	10	2.500	1.500	2.500	60	1
780074	15	10	1.500	2.500	500	1
780077	10	2.500	1.500	2.500	2000	1
780066	10	2.500	1.500	2.500	2	1
780065	5	2.500	1.500	2.500	2	1
780067	10	2.500	1.500	2.500	800	1
780068	5	2.500	1.500	2.500	200	1
780069	5	2.500	1.500	2.500	7	1
780070	5	2.500	1.500	2.500	2	1
780073	10	2.500	1.500	2.500	2	1
780076	5	2.500	1.500	2.500	2	1
780055	10	5	1.500	2.500	1000	1
780054	45	90	1.500	2.500	1000	1
780079	5	2.500	1.500	2.500	600	1
790140	10	2.500	-	2.500	2000	1
790141	2.500	2.500	-	2.500	250	1
790142	2.500	2.500	-	2.500	5	1
790169	2.500	2.500	1.500	2.500	2	1
790144	2.500	5	-	2.500	50	1
790143	2.500	2.500	-	2.500	5	1
790175	2.500	2.500	1.500	2.500	3	1
790172	2.500	2.500	1.500	2.500	40	1
790171	2.500	2.500	1.500	2.500	3	1
692095	5	-	1.500	2.500	2	1
692096	10	-	1.500	2.500	4	1
692097	10	-	1.500	2.500	2	1
692098	5	-	1.500	2.500	3	1
666099	20	-	1.500	2.500	40	1
666089	25	-	1.500	2.500	70	1
666093	30	-	1.500	2.500	7	1
666086	10	-	1.500	2.500	1	1
666085	70	-	1.500	2.500	700	1
666084	30	-	1.500	2.500	70	1
666083	5	-	1.500	2.500	2	1
666082	20	-	1.500	2.500	0.500	1
666097	30	-	1.500	2.500	7	1
666096	20	-	1.500	2.500	12	1
666095	20	-	1.500	2.500	800	1
666094	20	-	1.500	2.500	60	1
666028	5	-	1.500	2.500	10	1
666029	5	-	1.500	2.500	1	5
666030	5	-	1.500	2.500	1	1
666031	20	-	1.500	2.500	2	1
666092	15	-	1.500	2.500	500	1

SAMPLE NO.	NI	CO	MO	AS	SN	CKCU
666093	20	-	1.500	2.500	250	2
666025	2.500	-	1.500	2.500	100	4
666026	2.500	-	1.500	2.500	300	1
666090	30	-	1.500	2.500	250	1
666027	5	-	1.500	2.500	2	2
780158	80	100	1.500	300	8	3
780192	20	5	1.500	5	6	3
780191	10	5	1.500	2.500	10	2
780189	2.500	2.500	1.500	2.500	1	1
780190	5	2.500	1.500	2.500	25	1
780163	35	15	1.500	5	0.500	2
780115	2.500	2.500	1.500	2.500	2	1
780200	5	2.500	1.500	2.500	100	2
780202	2.500	2.500	1.500	2.500	1	1
780203	5	2.500	1.500	2.500	2	1
780204	10	2.500	1.500	2.500	3	2
780208	10	2.500	1.500	2.500	150	1
780205	195	100	1.500	2.500	0.500	5
780207	230	25	1.500	2.500	12	2
780206	180	50	1.500	2.500	3	3
780180	90	35	1.500	2.500	400	4
780179	65	15	1.500	2.500	10	3
780152	50	20	1.500	2.500	80	1
780151	140	90	1.500	2.500	0.500	4
780153	150	95	1.500	2.500	8	5
780177	10	5	1.500	2.500	25	1
780178	5	2.500	1.500	2.500	15	1
780219	2.500	5	1.500	2.500	3	1
780218	2.500	2.500	1.500	2.500	3	1
780217	2.500	2.500	1.500	5	150	2
780220	2.500	5	1.500	2.500	6	2
780223	5	2.500	1.500	2.500	-	1
780222	2.500	2.500	1.500	2.500	6	1
780215	2.500	2.500	1.500	2.500	2	1
780221	2.500	5	1.500	2.500	2	1
780194	5	2.500	1.500	2.500	2	1
780160	5	2.500	1.500	2.500	4	1
780161	2.500	2.500	1.500	2.500	12	1
780162	35	2.500	1.500	2.500	2	-
780164	35	25	1.500	2.500	2	-
780163	2.500	2.500	1.500	2.500	7	1
780125	2.500	2.500	1.500	2.500	7	1
780116	10	20	1.500	2.500	0.500	1
780123	2.500	2.500	1.500	2.500	3	1
780119	5	5	1.500	2.500	3	1
780147	15	2.500	1.500	40	0.500	-
780120	2.500	2.500	1.500	2.500	4	1
780117	25	2.500	1.500	2.500	3	0.500
780164	20	5	1.500	2.500	2	1
780150	10	5	1.500	2.500	4	1
780185	10	5	1.500	2.500	4	1
780166	5	2.500	1.500	2.500	1	1
780167	10	2.500	1.500	5	1	1
780168	15	2.500	1.500	2.500	0.500	1
780171	5	2.500	1.500	2.500	0.500	1
780170	50	20	1.500	2.500	0.500	-
780175	10	2.500	1.500	2.500	4	1
780173	15	5	1.500	2.500	2	10
780174	10	2.500	1.500	2.500	5	1
780233	-	2.500	-	2.500	5	1

SAMPLE NO.	NI	CO	MO	AS	SN	CXCU
780234	-	2.500	-	2.500	70	1
780232	-	2.500	-	2.500	3	1
780231	-	5	-	2.500	0.500	1
780240	-	2.500	-	2.500	0.500	-
780244	-	5	-	5	0.500	1
780238	-	2.500	-	2.500	0.500	1
780229	-	5	-	2.500	8	1
780228	-	2.500	-	2.500	0.500	1
780227	-	2.500	-	2.500	0.500	1
780246	-	5	-	2.500	0.500	1
780245	-	5	-	2.500	0.500	1
780226	-	5	-	2.500	1	1
780225	-	2.500	-	5	0.500	1
780247	-	10	-	2.500	0.500	1
780250	-	10	-	20	1	1
780248	-	10	-	2.500	0.500	1
780249	-	5	-	2.500	1	1
780328	70	20	1.500	80	2	5
780109	10	15	1.500	2.500	500	1
780110	2.500	2.500	1.500	2.500	6	1
780111	5	60	1.500	2.500	1	1
780113	5	2.500	1.500	2.500	9	2
780112	5	2.500	1.500	2.500	7	1
780127	2.500	2.500	1.500	2.500	80	1
780126	2.500	2.500	1.500	2.500	80	1
780145	2.500	2.500	1.500	2.500	4	1
780144	20	10	1.500	2.500	400	1
780129	10	2.500	1.500	2.500	2	1
780131	35	10	1.500	2.500	150	4
780130	10	5	1.500	2.500	70	1
780134	2.500	2.500	1.500	2.500	8	1
780133	60	20	1.500	2.500	2	2
780135	5	2.500	1.500	2.500	50	1
780136	2.500	2.500	1.500	2.500	3	2
780137	20	2.500	1.500	2.500	1	1
780138	40	5	1.500	2.500	4	3
780139	40	5	1.500	2.500	7	2
780140	70	20	1.500	2.500	2	7
780143	2.500	2.500	1.500	2.500	30	1
780142	10	2.500	1.500	2.500	1	1
780085	2.500	2.500	1.500	2.500	0.500	1
780084	2.500	5	1.500	2.500	2	3
780095	2.500	2.500	1.500	2.500	3	1
780094	2.500	2.500	1.500	2.500	2	1
780093	10	5	1.500	2.500	20	1
780089	15	15	1.500	2.500	5	3
780090	5	5	1.500	2.500	300	1
780352	50	5	1.500	50	1	2
780351	85	20	1.500	75	2	2
780447	2.500	2.500	1.500	5	1	1
780440	30	2.500	-	5	4	1
780430	50	10	-	5	1	1
780435	35	2.500	-	5	3	1
780434	70	5	-	5	20	1
780433	100	20	-	10	5	3
780432	70	10	-	5	8	2
780431	70	10	-	10	30	5
780426	85	20	-	60	2	2
780427	85	20	-	2.500	0.500	2
780428	90	30	-	10	50	7

STRUCTURAL INTERPRETATION
OF
NORTHWEST TASMANIA

S. WARREN CAREY

January 1981

1:500 000

0 50 km

LEGEND

Ordovician-Silurian June Group
Eocambrian-Cambrian undifferentiated Sigma Group
Proterozoic undifferentiated
Phi Group
Epsilon Group
Alpha Group
Rho Group
Intrusive Rocks
Jurassic dolerite cone sheet
Devonian granite
Eocambrian to Cambrian
Acid to intermediate volcanics
Mafic intrusives
Serpentinities
Proterozoic granite

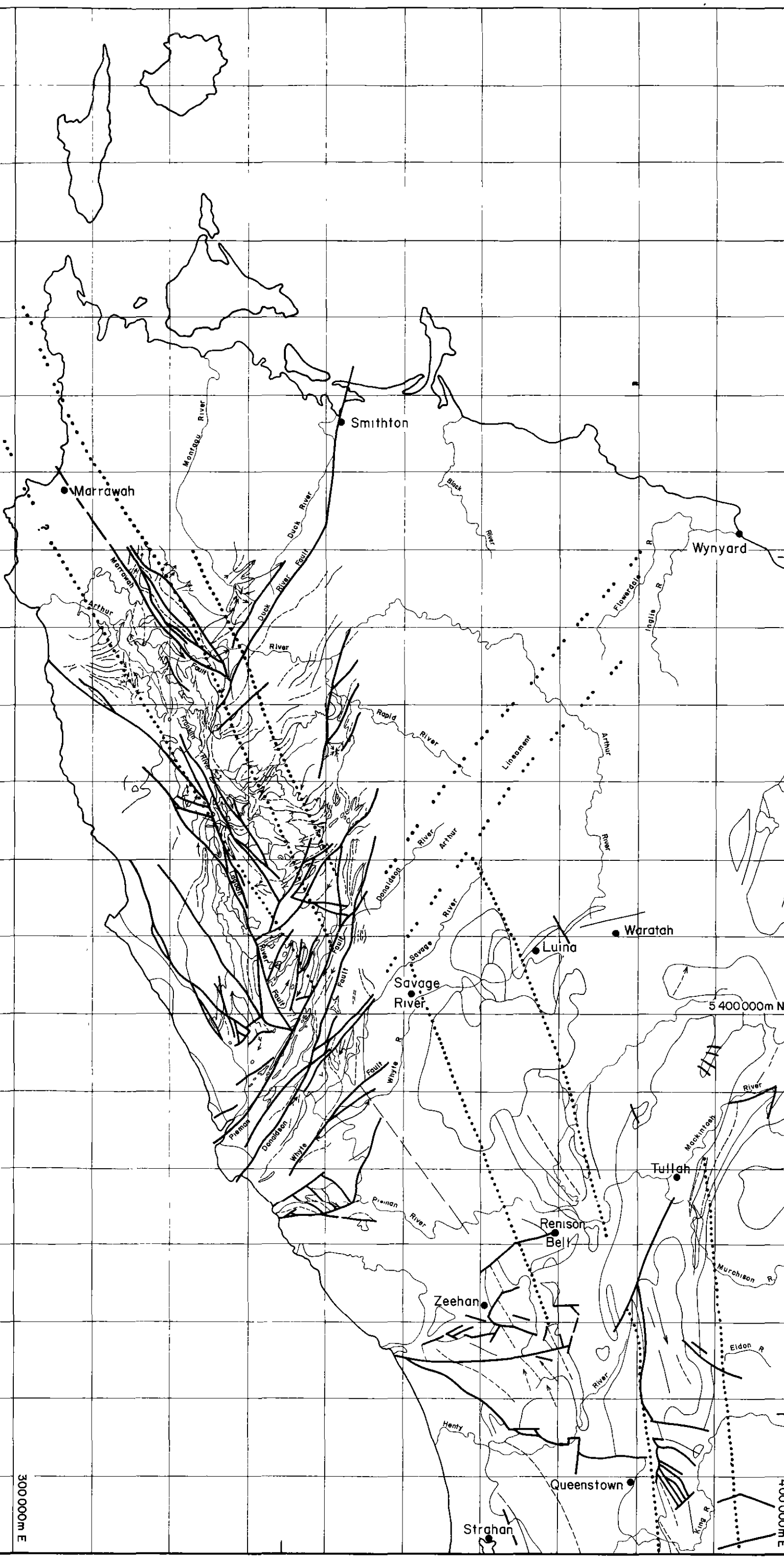
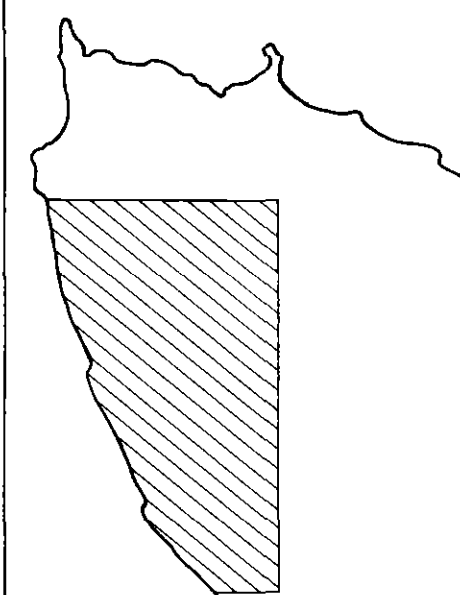
O
B-C
S
P
F
E
A
R
Jd
Dg
Ev
Em
Es
Eg

Structures

Anticlines
Synclines
Faults
Faults projected
"Deep faults"
"Deep faults"-projected

SOURCE DIAGRAM

Photo interpretation by S Warren Carey
Tasmanian Geological Survey maps



759168

5 cm

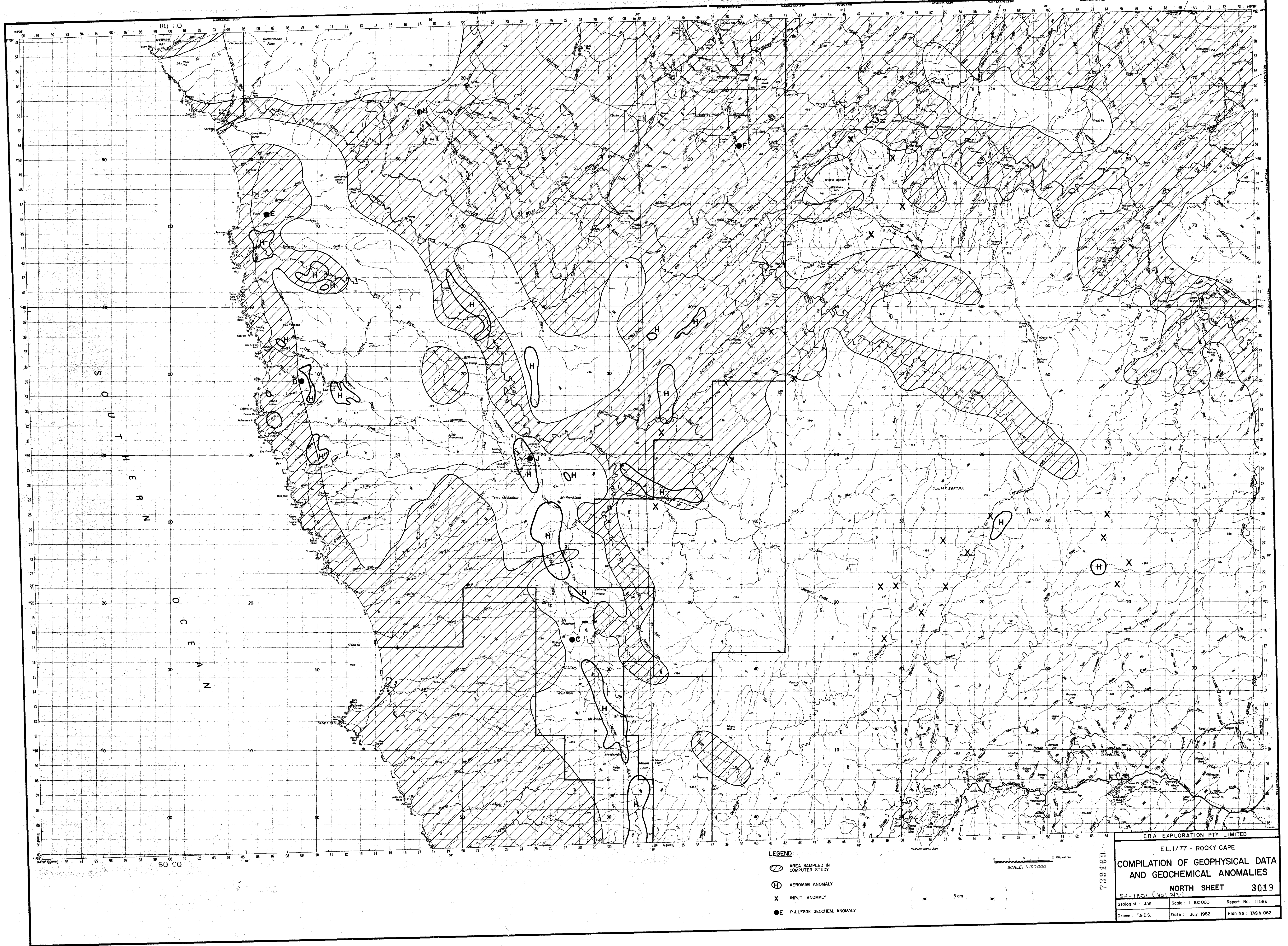
3018

CRA EXPLORATION PTY LIMITED

STRUCTURAL INTERPRETATION
OF N.W. TASMANIA.

82-1801 (Vol 2/3)

Geologist S.W. Carey	Scale 1:500 000	Report No
Drawn T.G.D.S.	Date August 1981	Plan No TAS h 21



CRA EXPLORATION PTY. LIMITED

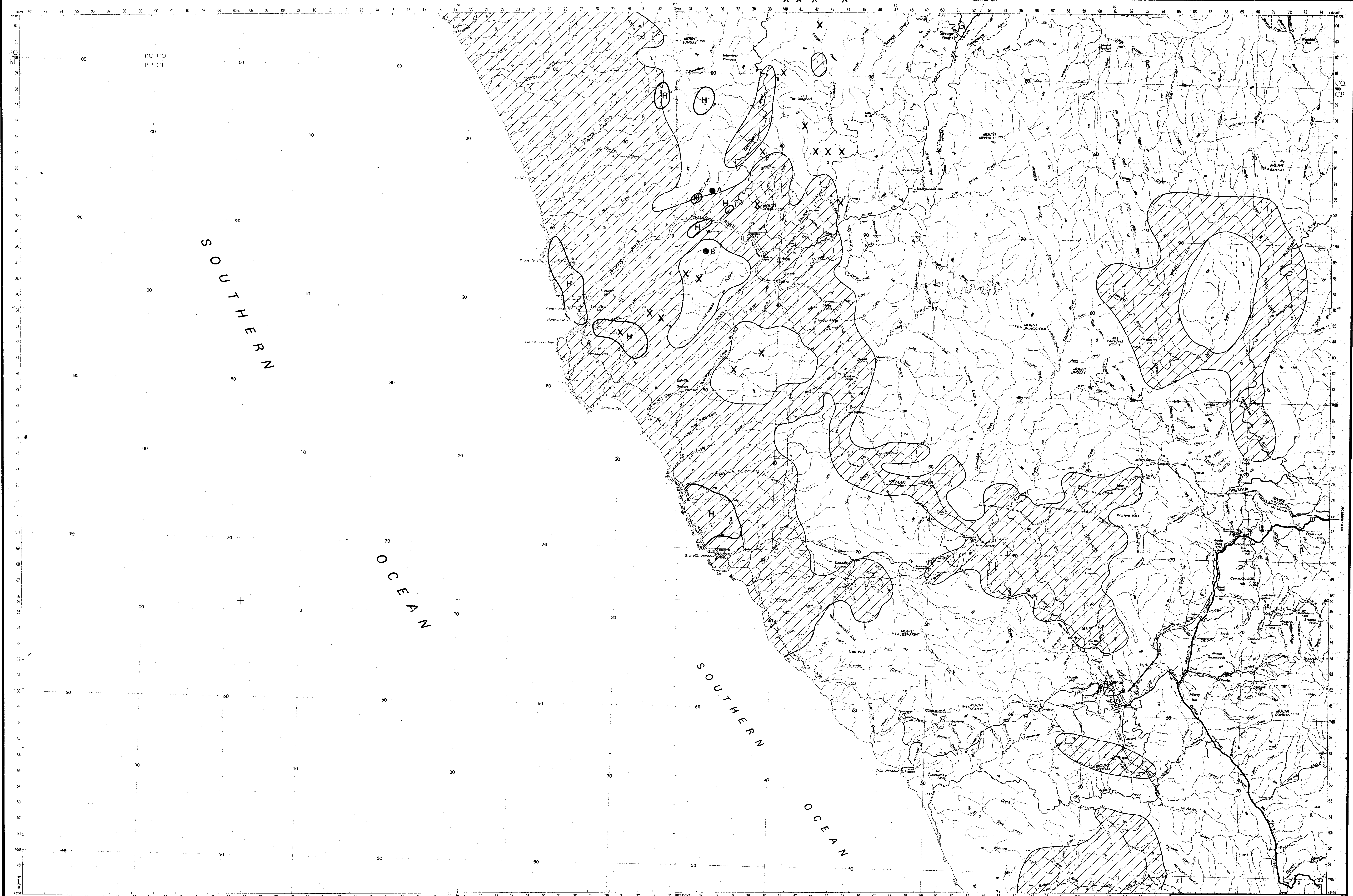
E.L.1/77 - ROCKY CAPE

**COMPILATION OF GEOPHYSICAL DATA
AND GEOCHEMICAL ANOMALIES**

NORTH SHEET 3019

82-1501 (Vol 1 of 3)

Geologist: J.W.	Scale: 1:100,000	Report No: 11586
Drawn: T.G.D.S.	Date: July 1982	Plan No: TASH 062



- LEGEND:**
- AREA SAMPLED IN COMPUTER STUDY
 - AEROMAG ANOMALY
 - INPUT ANOMALY
 - P.J. LEGGE GEOCHEM. ANOMALY

SCALE: 1:100 000

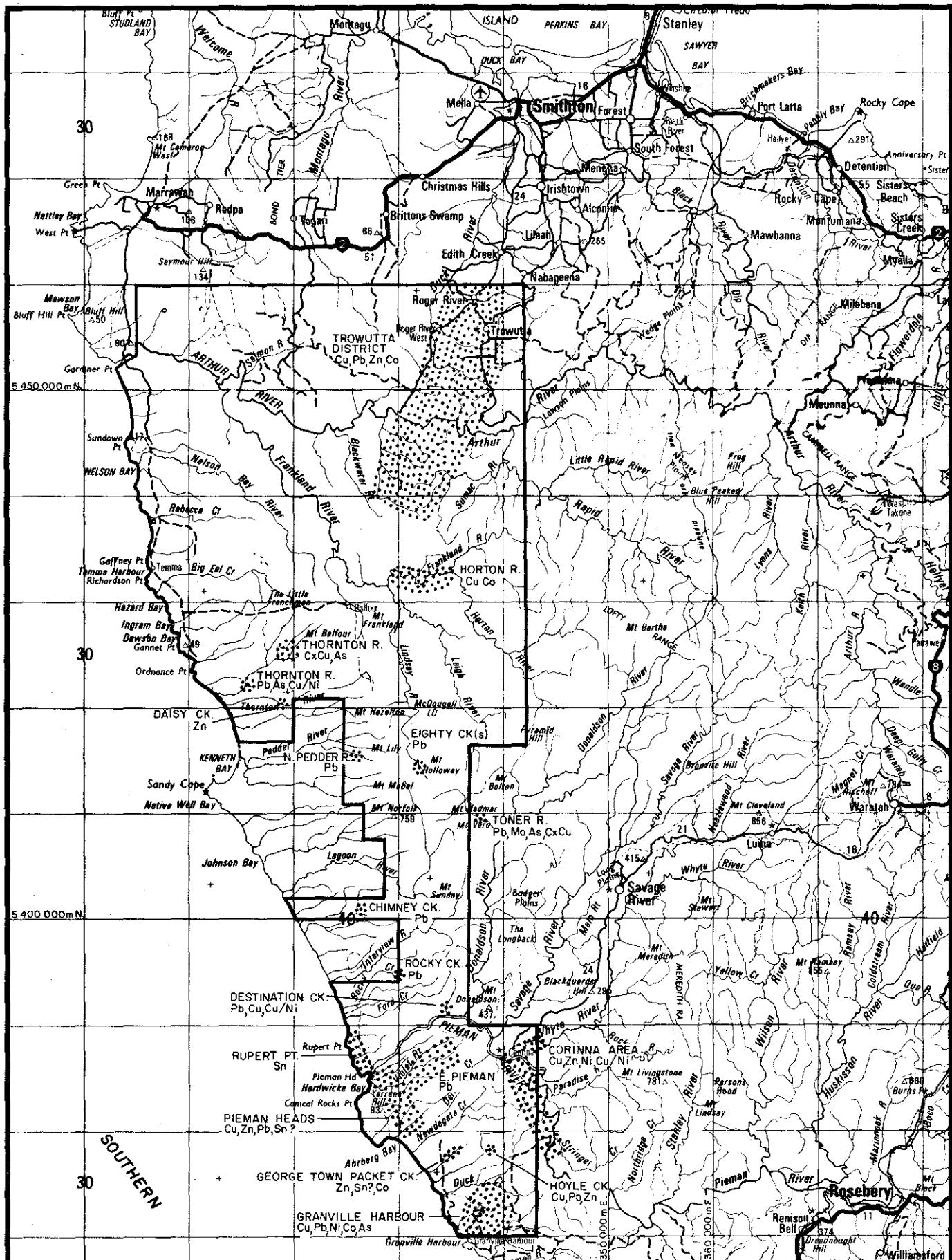
5 cm

739170

132-1801 (Vol 2/3)

CRA EXPLORATION PTY. LIMITED		
E.L. 1/77 - ROCKY CAPE		
COMPILATION OF GEOPHYSICAL DATA AND GEOCHEMICAL ANOMALIES		
SOUTH SHEET 3020		
Geologist: J.W.	Scale: 1:100 000	Report No: 11596
Drawn: T.G.D.S.	Date: July 1982	Plan No: TASH 063

82-1801 (Vol 2/3)



CRA EXPLORATION PTY. LIMITED

ROCKY CAPE - E.Ls (1/77 12/80 & 36/80)

GEOCHEMICAL TARGETS

WARRANTING EXPLORATION

82-1801 (Vol 2/3)

Geologist: J.W.	Scale: 1:500 000	Report No. 11586
Drawn: T.G.D.S.	Date: July 1982	Plan No. TAS h 064

LEGEND

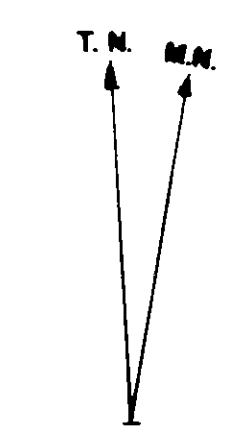
SYMBOL MAP FOR:		LEAD (ppm)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW	51	1	5		
51	75	2	2279		
75	100	3	424		
100	125	4	343		
125	150	5	296		
150	175	6	187		
175	200	7	12		
200	250	8	0		
250	300	9	0		
300	350	10	0		
350	400	11	0		
400	450	12	0		
450	500	13	0		
500	550	14	0		
550	600	15	0		
600	650	16	0		
650	700	17	0		
700	750	18	0		
750	800	19	0		
800	850	20	0		
850	900	21	0		
900	950	22	0		
950	1000	23	0		
1000	1050	24	0		
1050	1100	25	0		
1100	1150	26	0		
1150	1200	27	0		
1200	1250	28	0		
1250	1300	29	0		
1300	1350	30	0		
1350	1400	31	0		
1400	1450	32	0		
1450	1500	33	0		
1500	1550	34	0		
1550	1600	35	0		
1600	1650	36	0		
1650	1700	37	0		
1700	1750	38	0		
1750	1800	39	0		
1800	1850	40	0		
1850	1900	41	0		
1900	1950	42	0		
1950	2000	43	0		
2000	2050	44	0		
2050	2100	45	0		
2100	2150	46	0		
2150	2200	47	0		
2200	2250	48	0		
2250	2300	49	0		
2300	2350	50	0		
2350	2400	51	0		
2400	2450	52	0		
2450	2500	53	0		
2500	2550	54	0		
2550	2600	55	0		
2600	2650	56	0		
2650	2700	57	0		
2700	2750	58	0		
2750	2800	59	0		
2800	2850	60	0		
2850	2900	61	0		
2900	2950	62	0		
2950	3000	63	0		
3000	3050	64	0		
3050	3100	65	0		
3100	3150	66	0		
3150	3200	67	0		
3200	3250	68	0		
3250	3300	69	0		
3300	3350	70	0		
3350	3400	71	0		
3400	3450	72	0		
3450	3500	73	0		
3500	3550	74	0		
3550	3600	75	0		
3600	3650	76	0		
3650	3700	77	0		
3700	3750	78	0		
3750	3800	79	0		
3800	3850	80	0		
3850	3900	81	0		
3900	3950	82	0		
3950	4000	83	0		
4000	4050	84	0		
4050	4100	85	0		
4100	4150	86	0		
4150	4200	87	0		
4200	4250	88	0		
4250	4300	89	0		
4300	4350	90	0		
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4450	4500	93	0		
4500	4550	94	0		
4550	4600	95	0		
4600	4650	96	0		
4650	4700	97	0		
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4750	4800	99	0		
4800	4850	100	0		

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

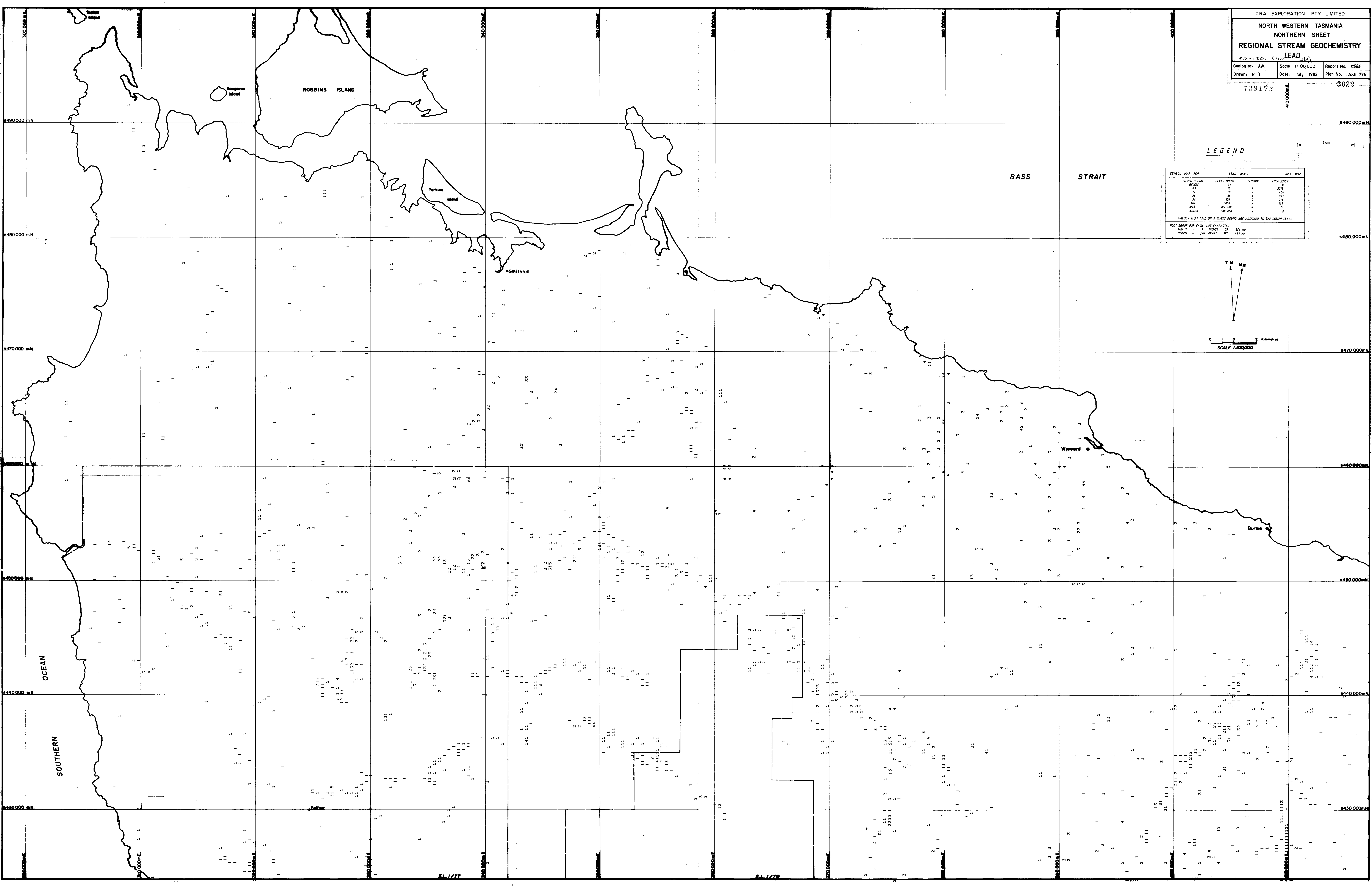
PLOT ERROR FOR EACH PLOT CHARACTER

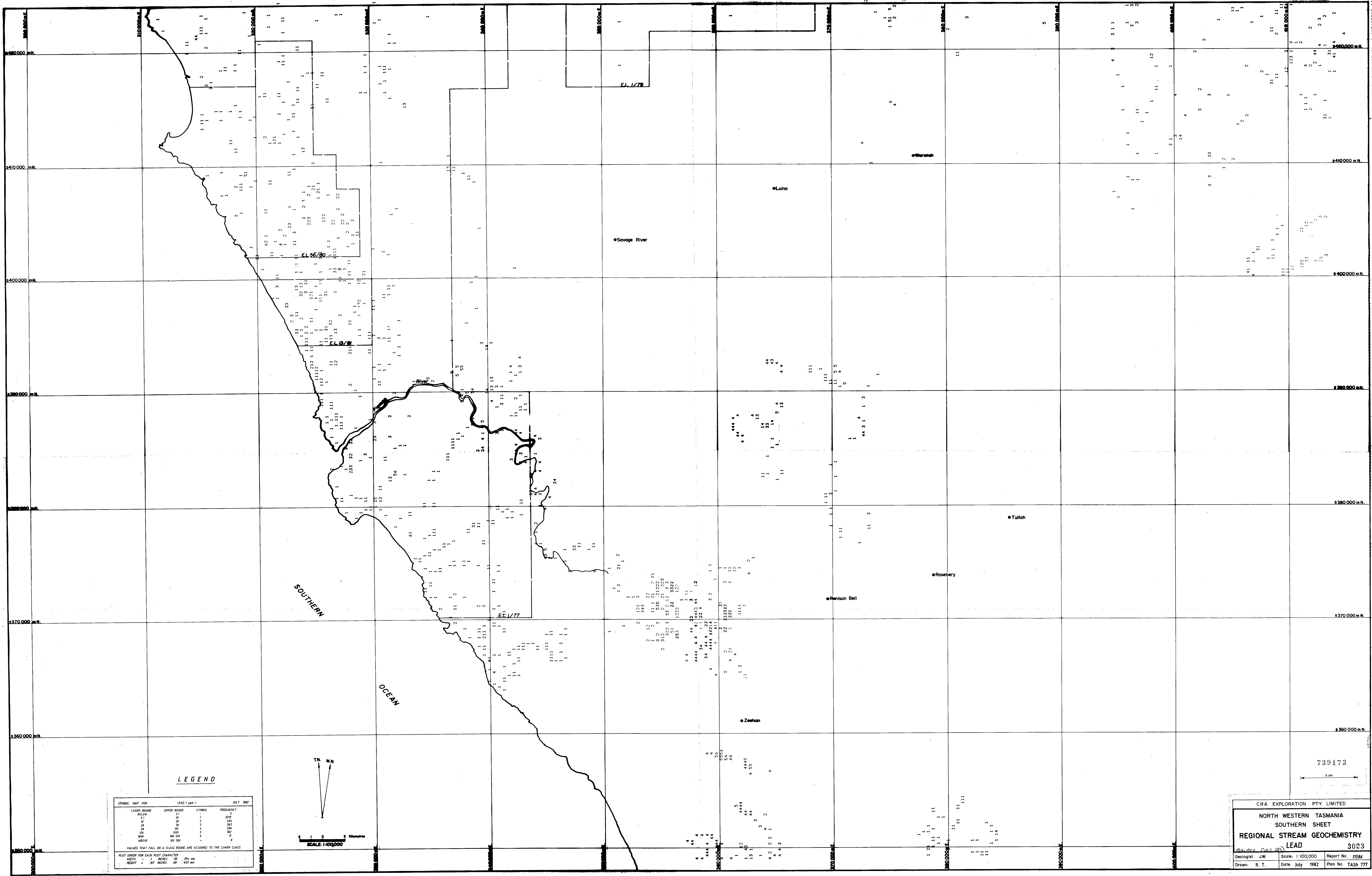
WIDTH = 1/4 INCH OR 254 mm

HEIGHT = 1/4 INCH OR 254 mm



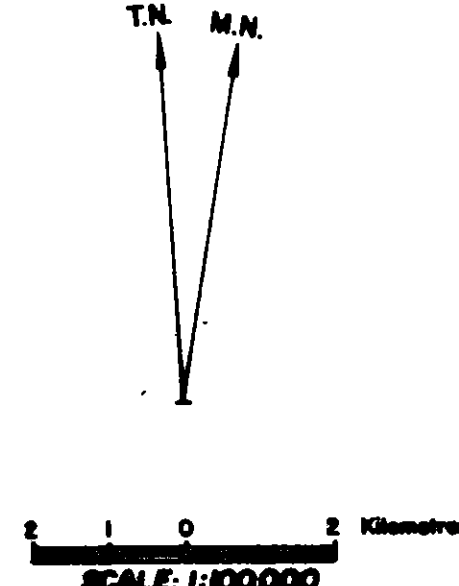
SCALE: 1:100,000





LEGEND

SYMBOL	MAP FOR	LEAD (ppm)	JULY 1982
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
BELOW	5	1	270
5	10	2	145
10	20	3	245
20	30	4	290
30	50	5	190
50	100	6	12
100	200	7	10
200	500	8	10
500	1000	9	10
1000	2000	10	10
2000	5000	11	10
5000	10000	12	10
10000	20000	13	10
20000	50000	14	10
50000	100000	15	10
100000	200000	16	10
200000	500000	17	10
500000	1000000	18	10
1000000	2000000	19	10
2000000	5000000	20	10
5000000	10000000	21	10
10000000	20000000	22	10
20000000	50000000	23	10
50000000	100000000	24	10
100000000	200000000	25	10
200000000	500000000	26	10
500000000	1000000000	27	10
1000000000	2000000000	28	10
2000000000	5000000000	29	10
5000000000	10000000000	30	10
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50000000000	100000000000	33	10
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500000000000	1000000000000	36	10
1000000000000	2000000000000	37	10
2000000000000	5000000000000	38	10
5000000000000	10000000000000	39	10
10000000000000	20000000000000	40	10
20000000000000	50000000000000	41	10
50000000000000	100000000000000	42	10
100000000000000	200000000000000	43	10
200000000000000	500000000000000	44	10
500000000000000	1000000000000000	45	10
1000000000000000	2000000000000000	46	10
2000000000000000	5000000000000000	47	10
5000000000000000	10000000000000000	48	10
10000000000000000	20000000000000000	49	10
20000000000000000	50000000000000000	50	10
50000000000000000	100000000000000000	51	10
100000000000000000	200000000000000000	52	10
200000000000000000	500000000000000000	53	10
500000000000000000	1000000000000000000	54	10
1000000000000000000	2000000000000000000	55	10
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200000000000000000000	500000000000000000000	62	10
500000000000000000000	1000000000000000000000	63	10
1000000000000000000000	2000000000000000000000	64	10
2000000000000000000000	5000000000000000000000	65	10
5000000000000000000000	10000000000000000000000	66	10
10000000000000000000000	20000000000000000000000	67	10
20000000000000000000000	50000000000000000000000	68	10
50000000000000000000000	100000000000000000000000	69	10
100000000000000000000000	200000000000000000000000	70	10
200000000000000000000000	500000000000000000000000	71	10
500000000000000000000000	1000000000000000000000000	72	10
1000000000000000000000000	2000000000000000000000000	73	10
2000000000000000000000000	5000000000000000000000000	74	10
5000000000000000000000000	10000000000000000000000000	75	10
10000000000000000000000000	20000000000000000000000000	76	10
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1000000000000000000000000000	2000000000000000000000000000	82	10
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5000000000000000000000000000	10000000000000000000000000000	84	10
10000000000000000000000000000	20000000000000000000000000000	85	10
20000000000000000000000000000	50000000000000000000000000000	86	10
50000000000000000000000000000	100000000000000000000000000000	87	10
100000000000000000000000000000	200000000000000000000000000000	88	10
200000000000000000000000000000	500000000000000000000000000000	89	10
500000000000000000000000000000	1000000000000000000000000000000	90	10
1000000000000000000000000000000	2000000000000000000000000000000	91	10
2000000000000000000000000000000	5000000000000000000000000000000	92	10
5000000000000000000000000000000	10000000000000000000000000000000	93	10
10000000000000000000000000000000	20000000000000000000000000000000	94	10
20000000000000000000000000000000	50000000000000000000000000000000	95	10
50000000000000000000000000000000	100000000000000000000000000000000	96	10
100000000000000000000000000000000	200000000000000000000000000000000	97	10
200000000000000000000000000000000	500000000000000000000000000000000	98	10
500000000000000000000000000000000	1000000000000000000000000000000000	99	10
1000000000000000000000000000000000	2000000000000000000000000000000000	100	10



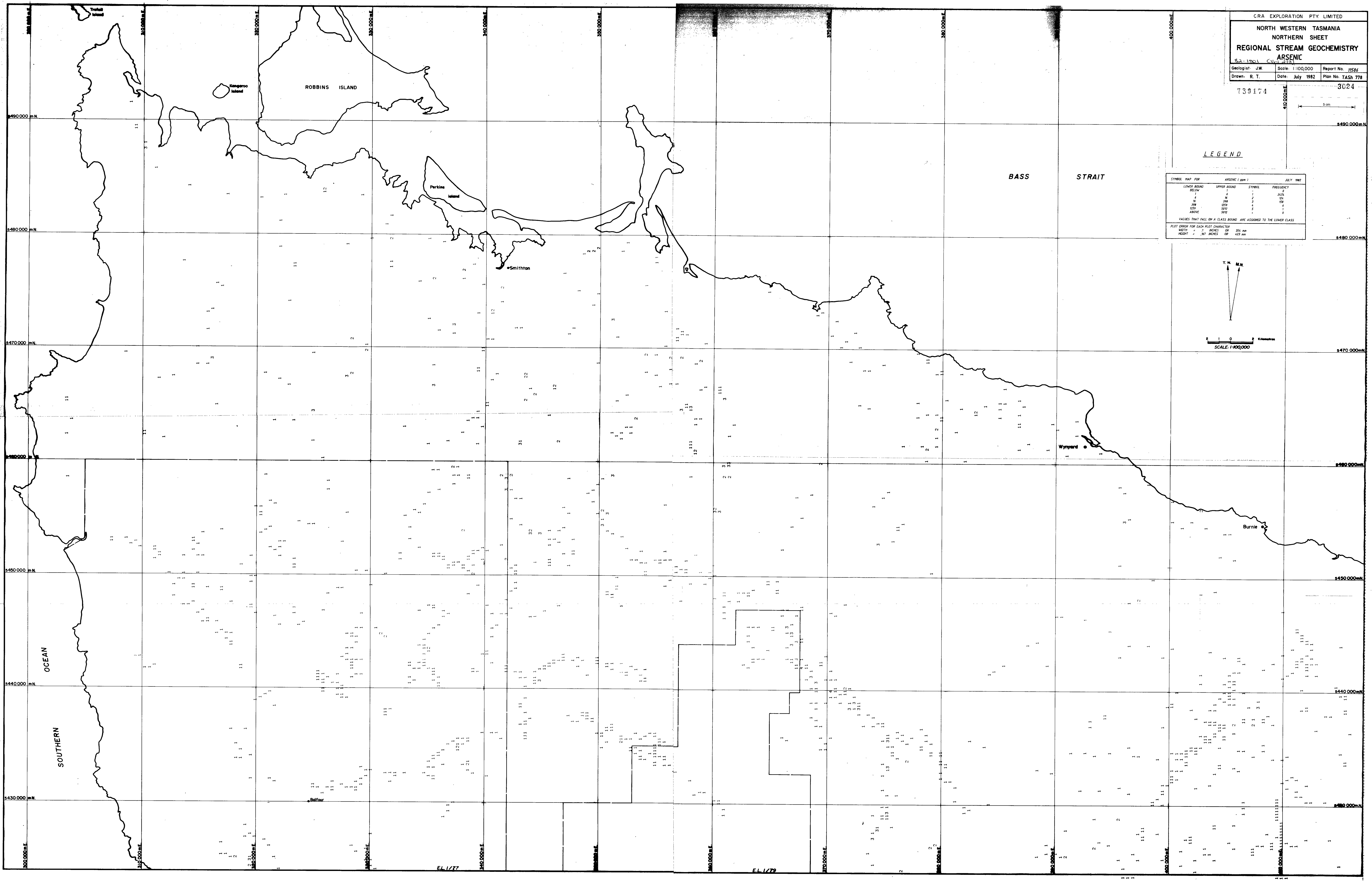
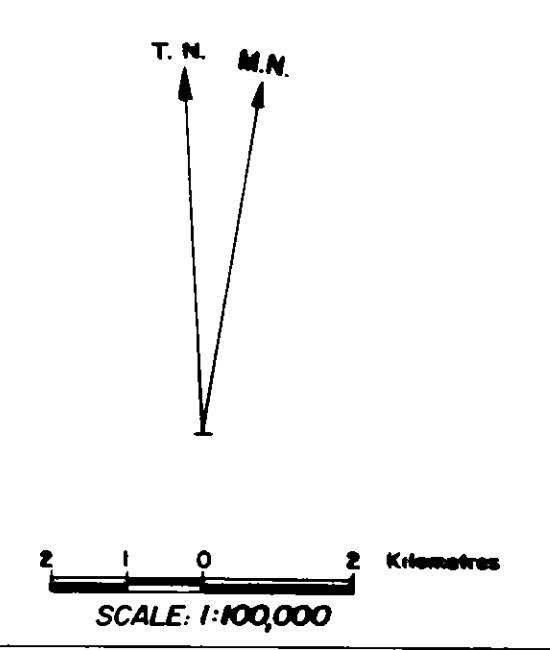
739174 3024

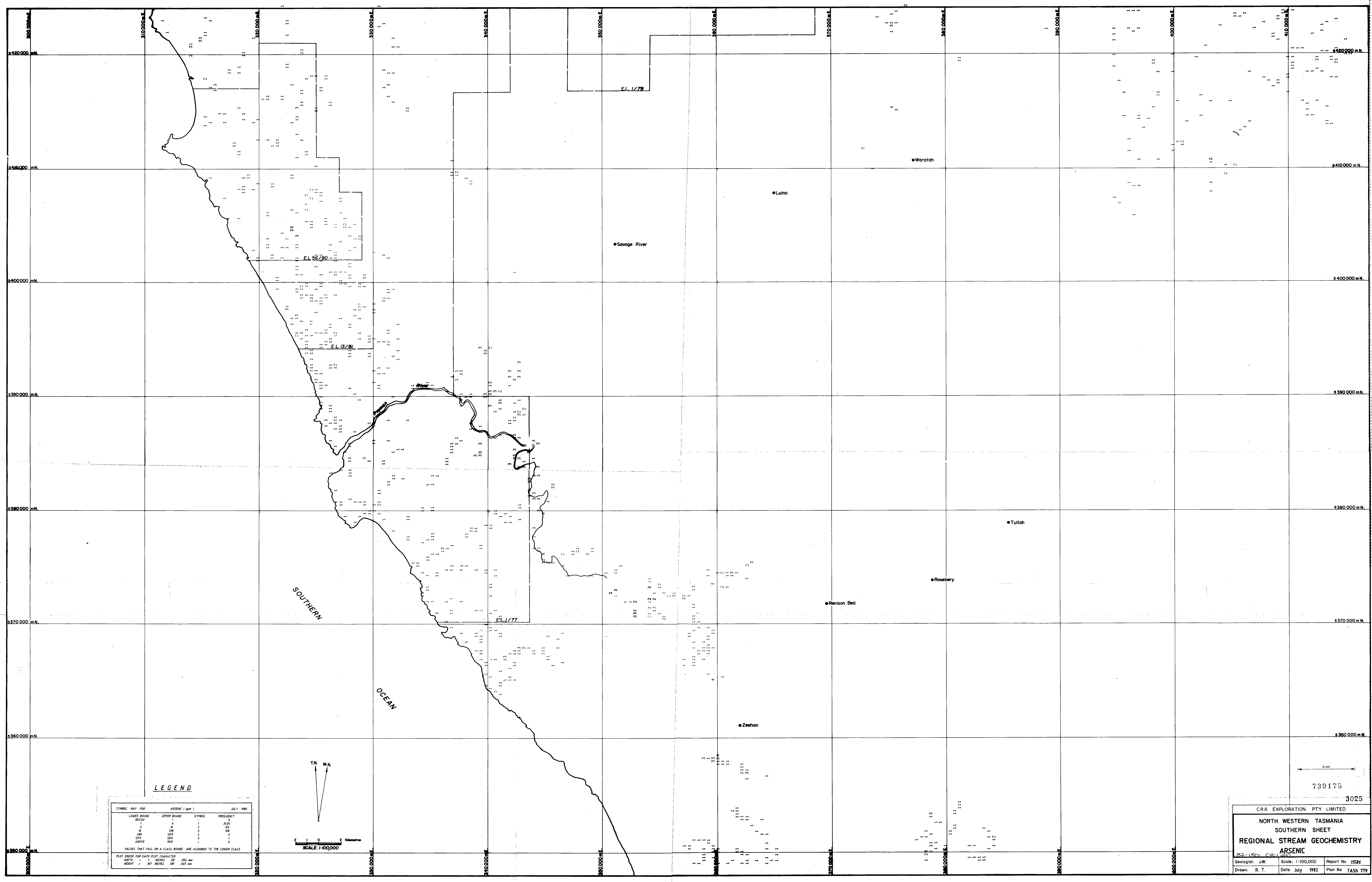
LEGEND

SYMBOL MAP FOR		ARSENIC (ppm)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW			254		
1	6		101		
6	38		154		
38	129		6		
129	502		1		
ABOVE	502		0		

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER
WIDTH = 1 INCHES OR 254 mm
HEIGHT = .97 INCHES OR 249 mm





LEGEND

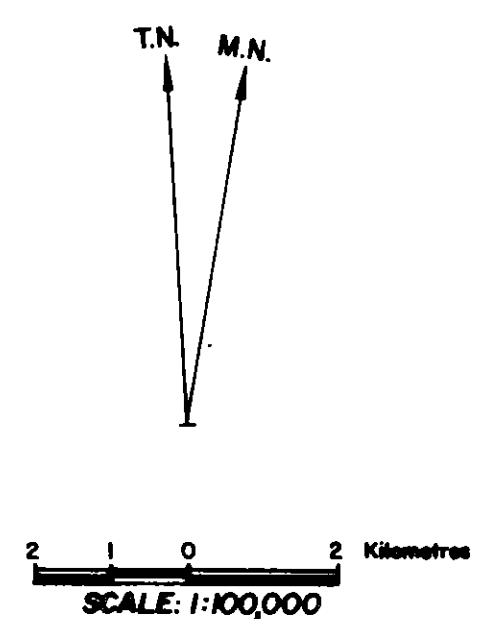
SYMBOL MAP FOR		ARSENIC (ppm)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW	5	1	2454		
5	10	2	154		
10	300	3	158		
300	1000	4	6		
1000	5000	5	1		
5000	ABOVE	6	0		

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER

WIDTH = 1/16 INCHES OR 254 mm

HEIGHT = 1/16 INCHES OR 403 mm



6 cm

739175

CRA EXPLORATION PTY LIMITED

NORTH WESTERN TASMANIA
SOUTHERN SHEET

REGIONAL STREAM GEOCHEMISTRY
ARSENIC

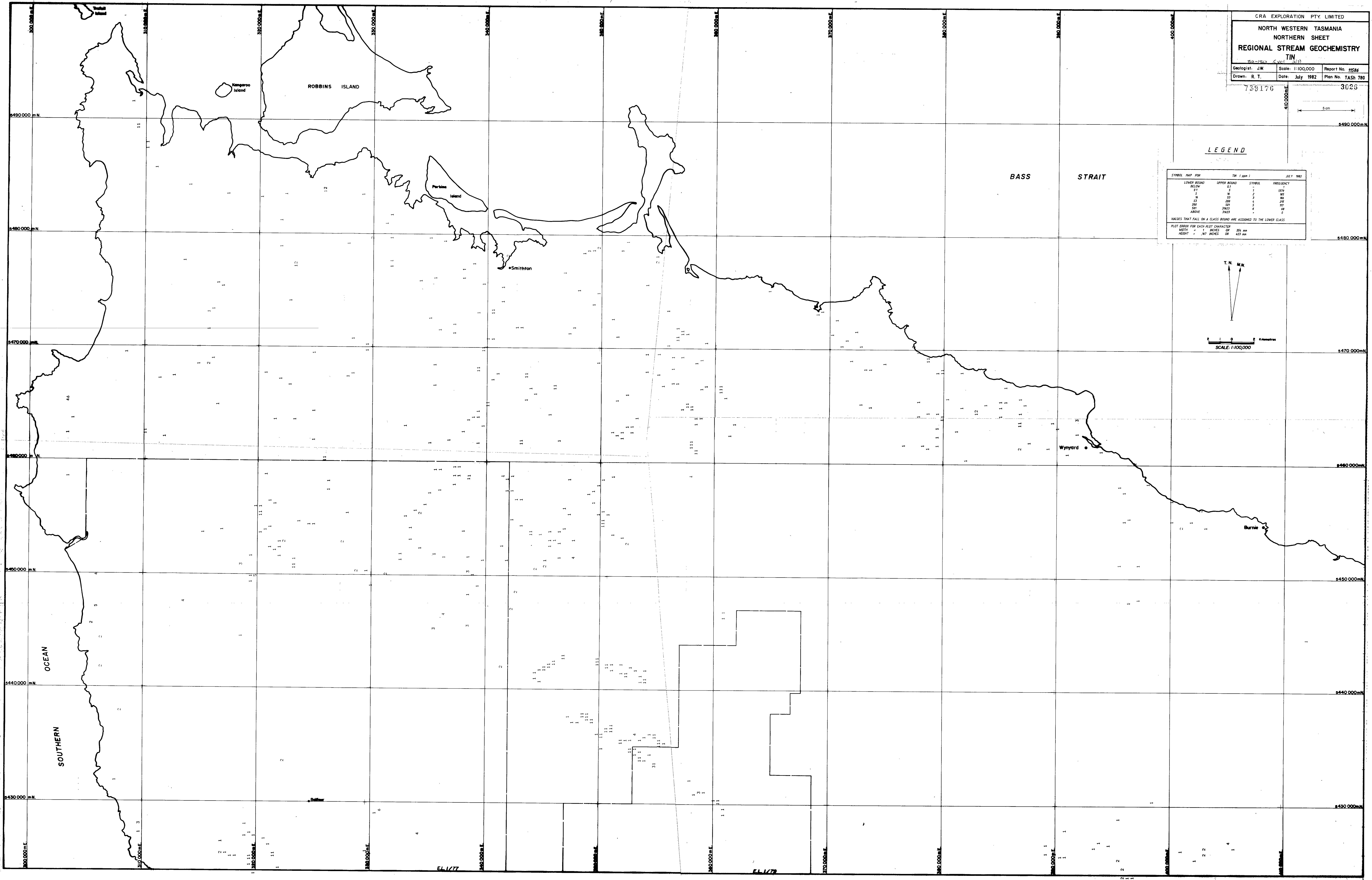
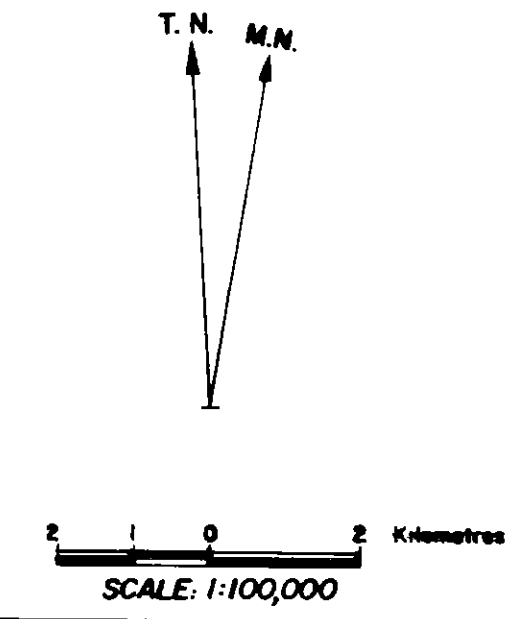
Geologist: J.W. Scale: 1:100,000 Report No. 71586
Drawn: R. T. Date: July 1982 Plan No. TASH 779

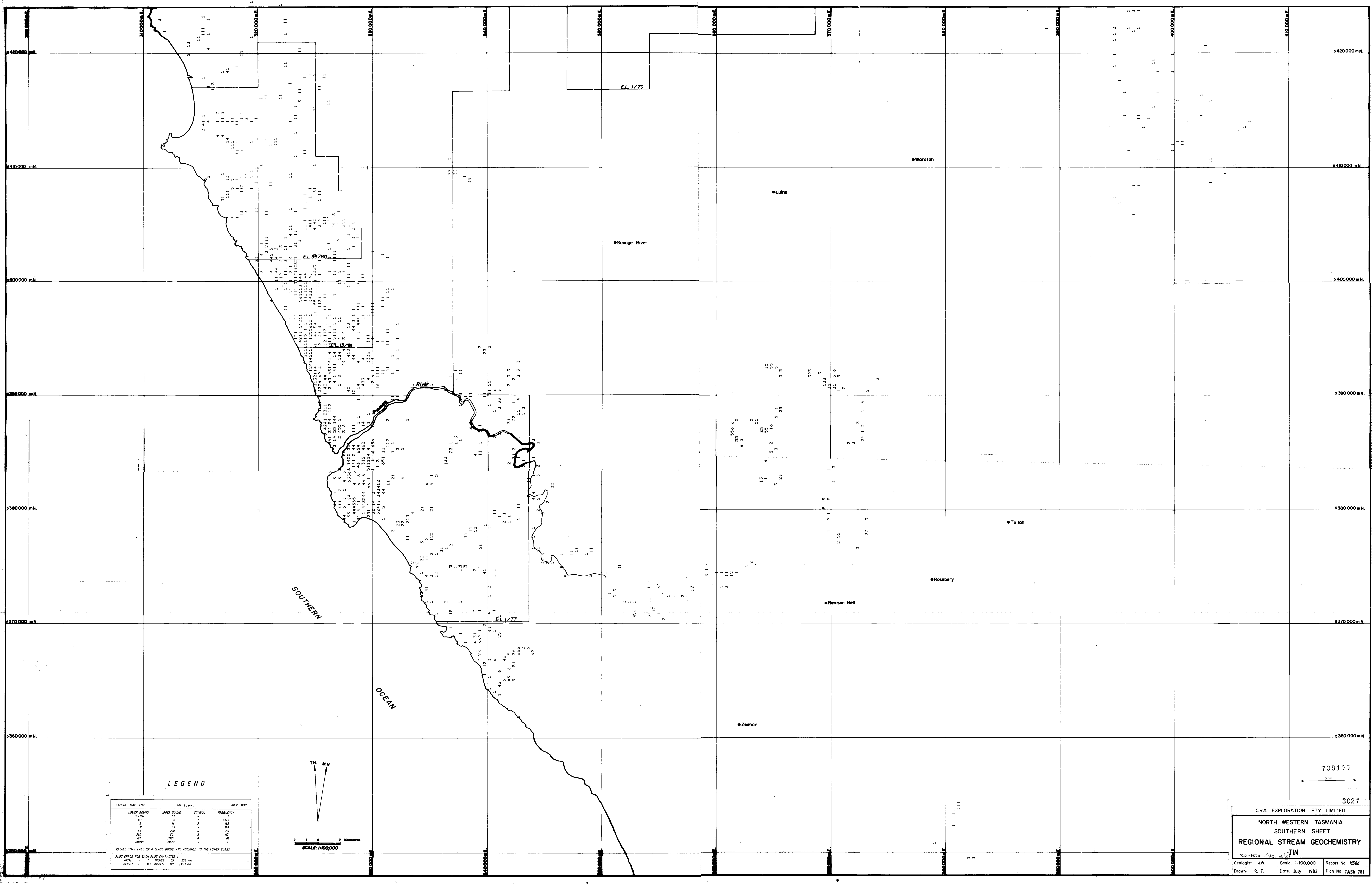
LEGEND

SYMBOL	MAP FOR	TIN (ppm)	FREQUENCY
LOWER BOUND			
BELOW			
5	1	5	1579
10	2	10	87
20	3	20	86
50	4	50	175
100	5	100	177
200	6	200	48
500	7	500	0
1000	8	1000	

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER
WIDTH = 1 INCHES OR 254 mm
HEIGHT = .07 INCHES OR 423 mm





LEGEND

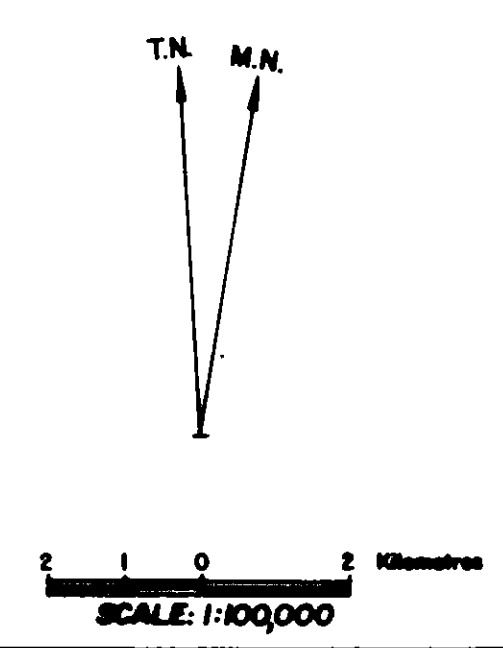
SYMBOL	MAP FOR	TIN (ppm)	JULY 1982
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
BELOW	0.1	1	1379
5	10	2	185
15	25	3	186
55	100	4	275
200	500	5	177
500	1000	6	9
ABOVE	10000	7	0

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLAT ENDS FOR EACH PLAT UNPAIRED

WIDTH 100 INCHES OR 254 mm

HEIGHT 100 INCHES OR 254 mm



739177

5 km

3027

CRA EXPLORATION PTY. LIMITED

NORTH WESTERN TASMANIA

SOUTHERN SHEET

REGIONAL STREAM GEOCHEMISTRY

TIN

Geologist: J.W. Scale: 1:100,000 Report No: 71586

Drawn: R.T. Date: July 1982 Plan No: TASH 781

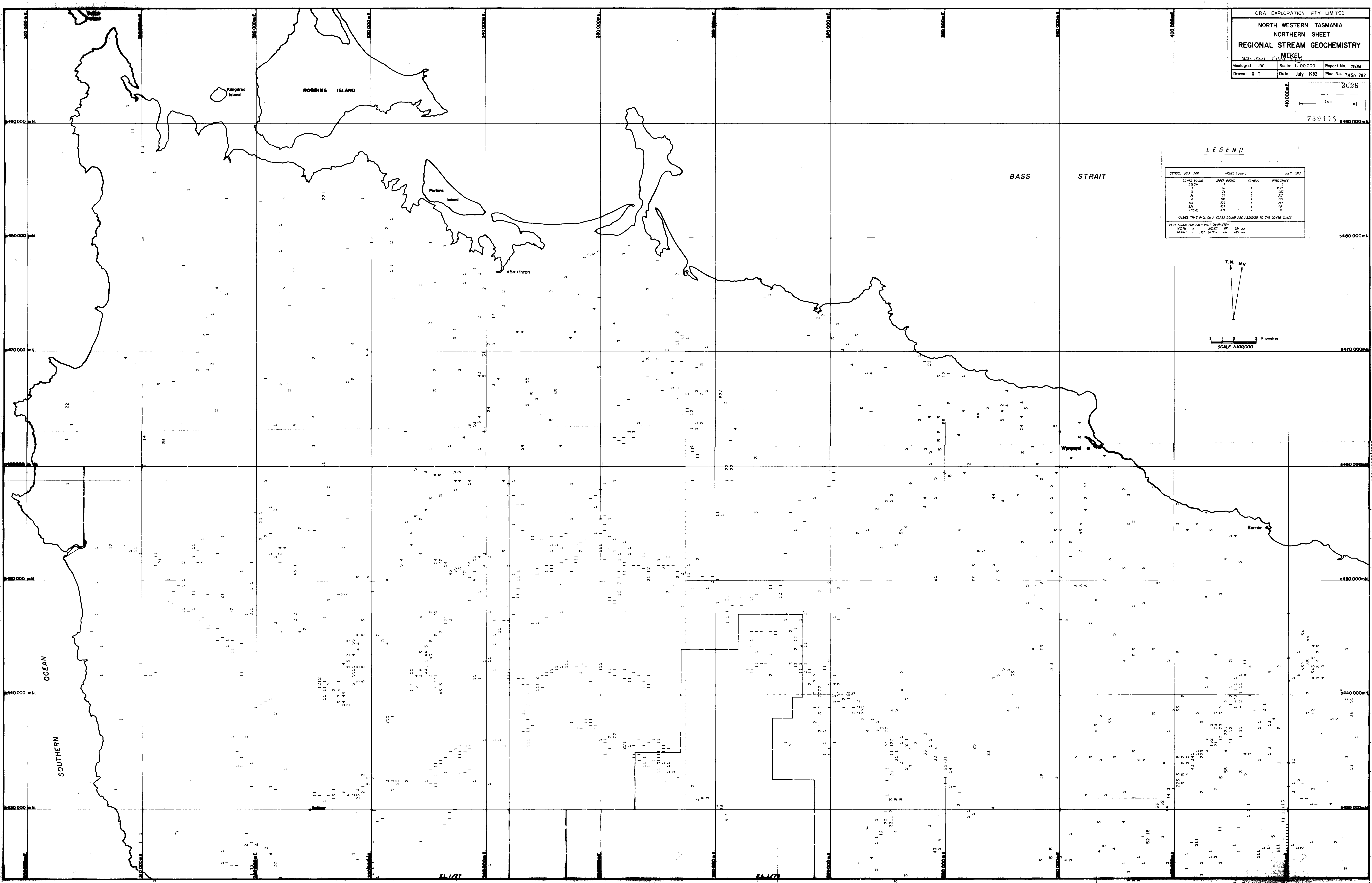
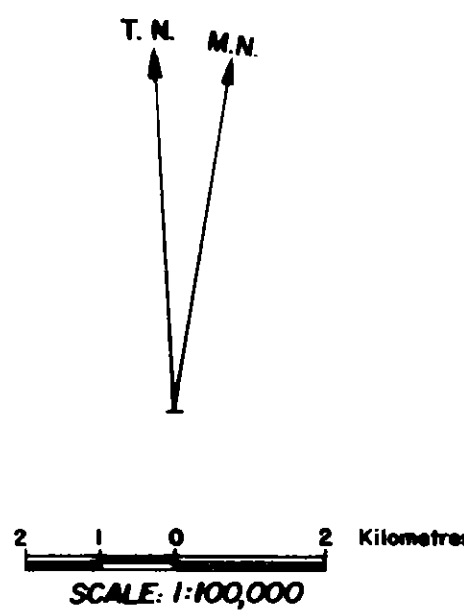
3628
739178
5490 000mE

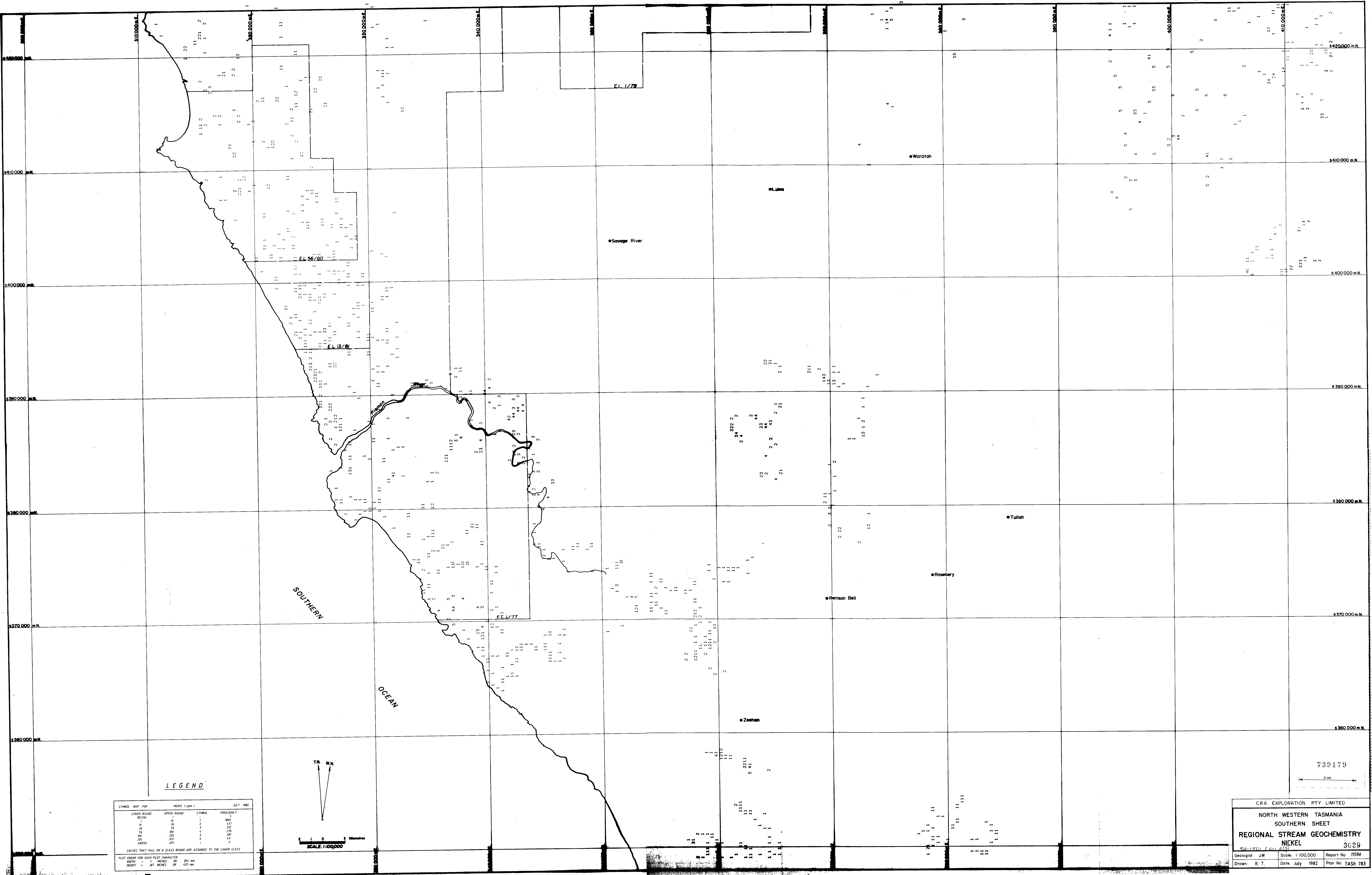
LEGEND

SYMBOL	MAP FOR	NICKEL (ppm)	SYMBOL	FREQUENCY
BELOW	1	1	1892	5
16	36	2	457	1
36	54	3	202	1
54	100	4	270	1
100	225	5	281	1
225	431	6	419	1
431	625	7	0	1

VALUES THAT FALL ON A CLASS BOUNDARY ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER
WIDTH = 1/16 INCHES OR 3.91 mm
HEIGHT = 1/16 INCHES OR 3.91 mm





LEGEND

SYMBOL MAP FOR		NICKEL (ppm)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW	1	1	1800		
1	2	2	427		
2	3	3	270		
3	4	4	270		
4	5	5	181		
5	6	6	181		
6	7	7	181		
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211	212	212	181		
212			181		

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

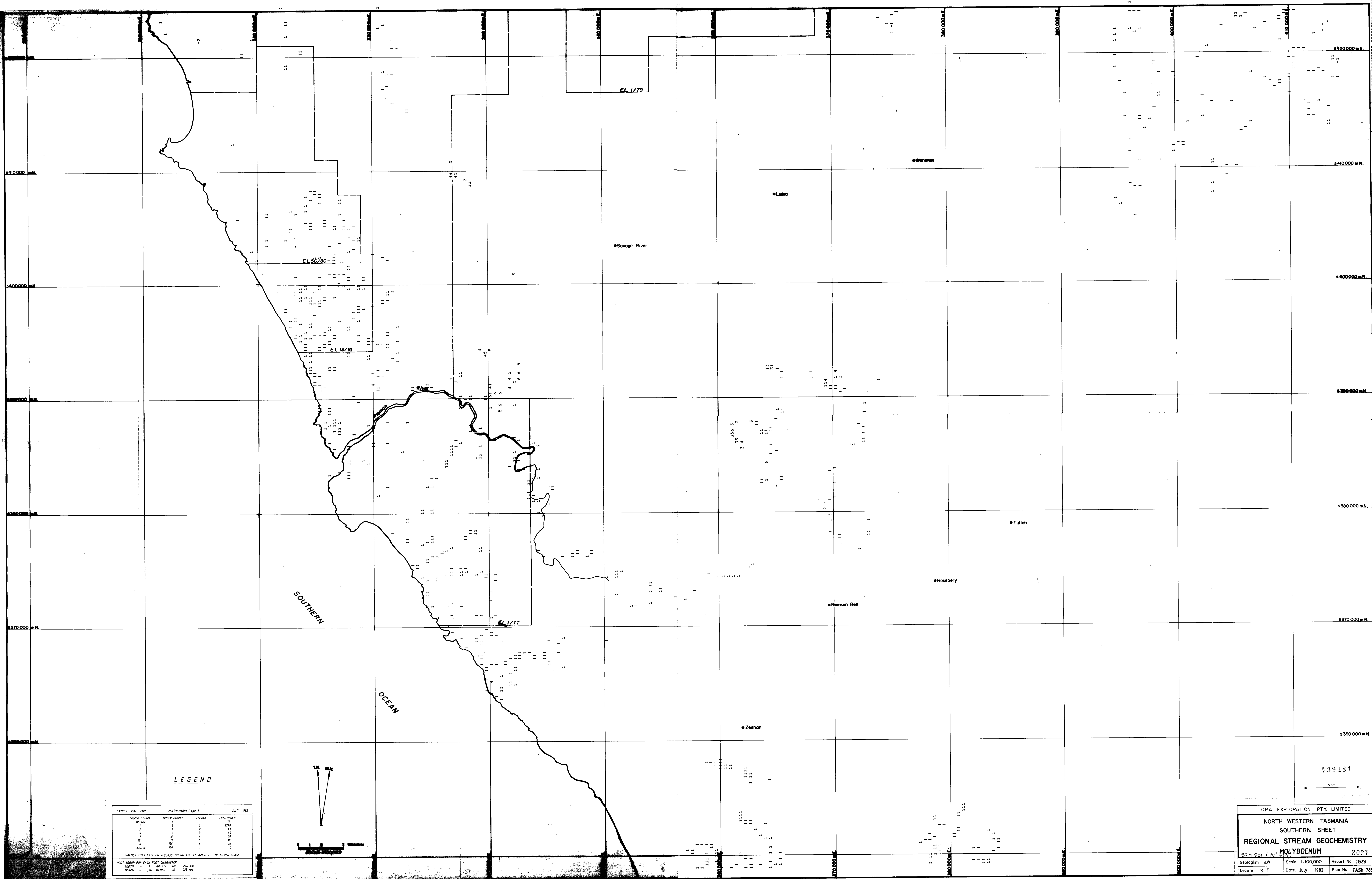
PLOT ERROR FOR EACH PLOT CHARACTER		
WIDTH	= .1 INCHES	OR 254 mm
HEIGHT	= .167 INCHES	OR 423 mm

3030

739180

LEGEND

SYMBOL	MAP FOR	MOLYBDENUM (ppm)	JULY 1982
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
1	2	1	2299
2	3	2	17
3	4	3	47
4	5	4	44
5	6	5	30
6	7	6	19
7	8	7	20
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223	224	223	0
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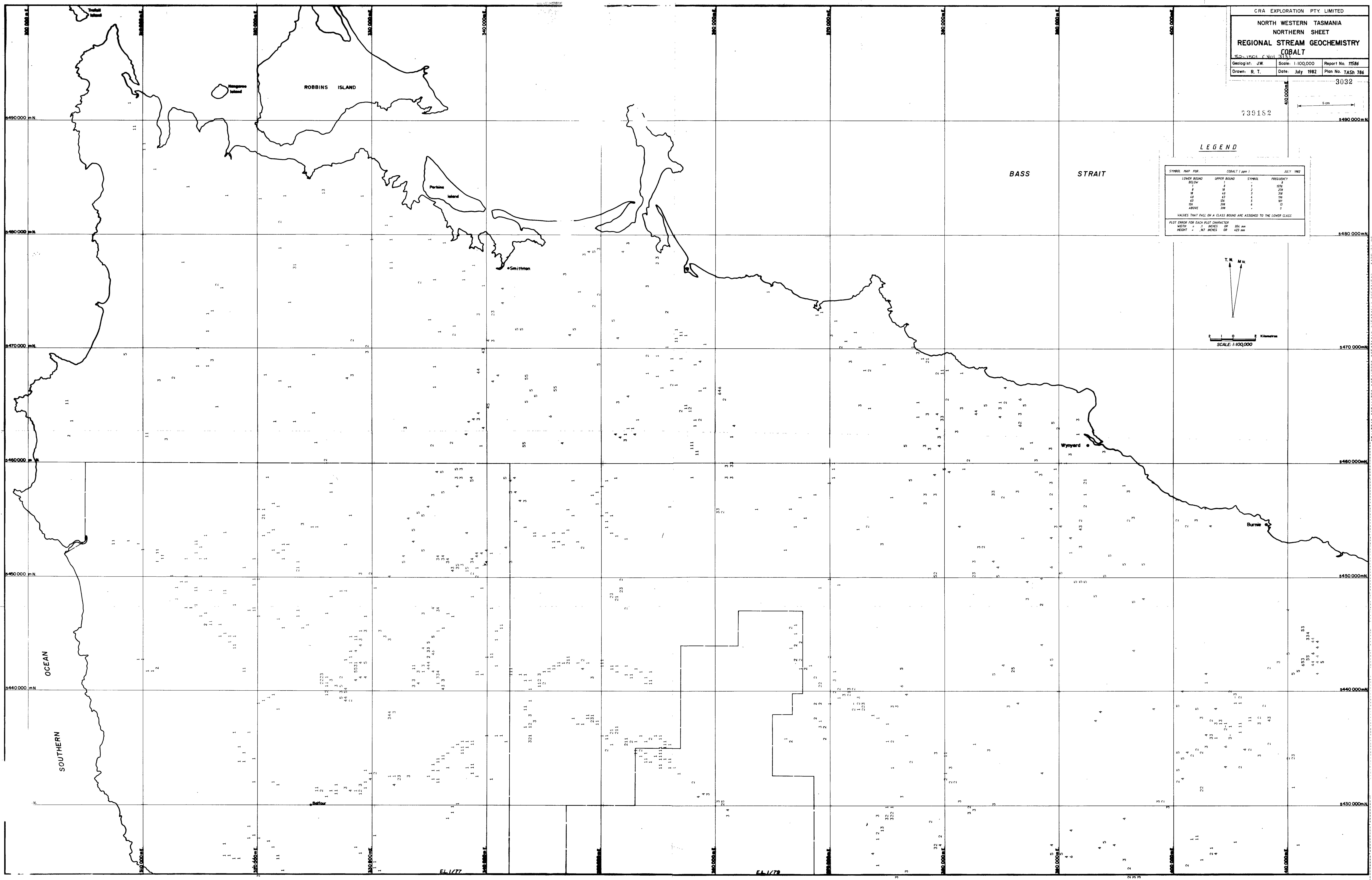
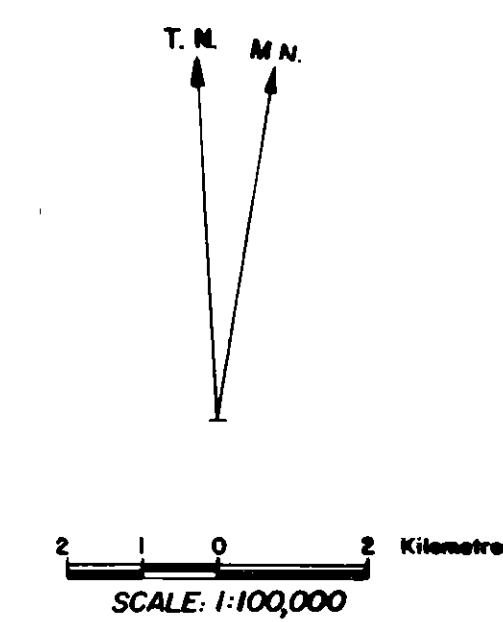
LEGEND

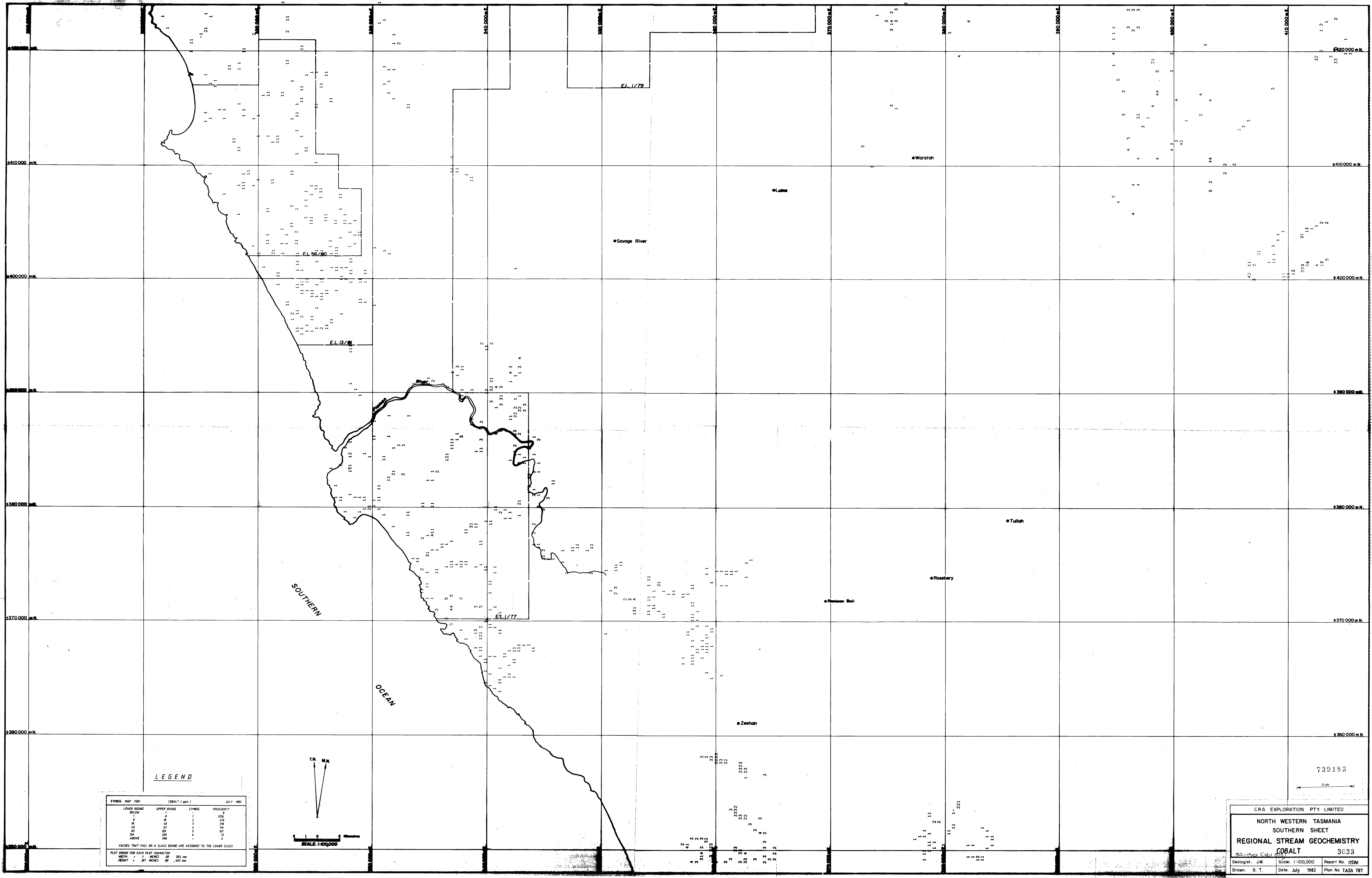
SYMBOL MAP FOR		COBALT (ppm)	SYMBOL	JULY 1986
LOWER BOUND	UPPER BOUND		SYMBOL	FREQUENCY
BELOW	1	1	1	1276
1	10	2	2	278
10	100	3	3	130
100	1000	4	4	199
1000	10000	5	5	887
10000	100000	6	6	13
100000	1000000	7	7	0
ABOVE	398			

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER

WIDTH	= .1 INCHES	OR	254 mm
HEIGHT	= .167 INCHES	OR	423 mm





LEGEND

SYMBOL MAP FOR: COBALT (ppm)			
JULY 1982			
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
BELOW			
0	10	1	174
10	20	2	276
20	40	3	318
40	60	4	176
60	80	5	167
80	100	6	13
100	200	7	0
200	300	8	0
300	400	9	0
400	500	10	0
500	600	11	0
600	700	12	0
700	800	13	0
800	900	14	0
900	1000	15	0
1000	1100	16	0
1100	1200	17	0
1200	1300	18	0
1300	1400	19	0
1400	1500	20	0
1500	1600	21	0
1600	1700	22	0
1700	1800	23	0
1800	1900	24	0
1900	2000	25	0
2000	2100	26	0
2100	2200	27	0
2200	2300	28	0
2300	2400	29	0
2400	2500	30	0
2500	2600	31	0
2600	2700	32	0
2700	2800	33	0
2800	2900	34	0
2900	3000	35	0
3000	3100	36	0
3100	3200	37	0
3200	3300	38	0
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3600	3700	42	0
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3800	3900	44	0
3900	4000	45	0
4000	4100	46	0
4100	4200	47	0
4200	4300	48	0
4300	4400	49	0
4400	4500	50	0
4500	4600	51	0
4600	4700	52	0
4700	4800	53	0
4800	4900	54	0
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5000	5100	56	0
5100	5200	57	0
5200	5300	58	0
5300	5400	59	0
5400	5500	60	0
5500	5600	61	0
5600	5700	62	0
5700	5800	63	0
5800	5900	64	0
5900	6000	65	0
6000	6100	66	0
6100	6200	67	0
6200	6300	68	0
6300	6400	69	0
6400	6500	70	0
6500	6600	71	0
6600	6700	72	0
6700	6800	73	0
6800	6900	74	0
6900	7000	75	0
7000	7100	76	0
7100	7200	77	0
7200	7300	78	0
7300	7400	79	0
7400	7500	80	0
7500	7600	81	0
7600	7700	82	0
7700	7800	83	0
7800	7900	84	0
7900	8000	85	0
8000	8100	86	0
8100	8200	87	0
8200	8300	88	0
8300	8400	89	0
8400	8500	90	0
8500	8600	91	0
8600	8700	92	0
8700	8800	93	0
8800	8900	94	0
8900	9000	95	0
9000	9100	96	0
9100	9200	97	0
9200	9300	98	0
9300	9400	99	0
9400	9500	100	0
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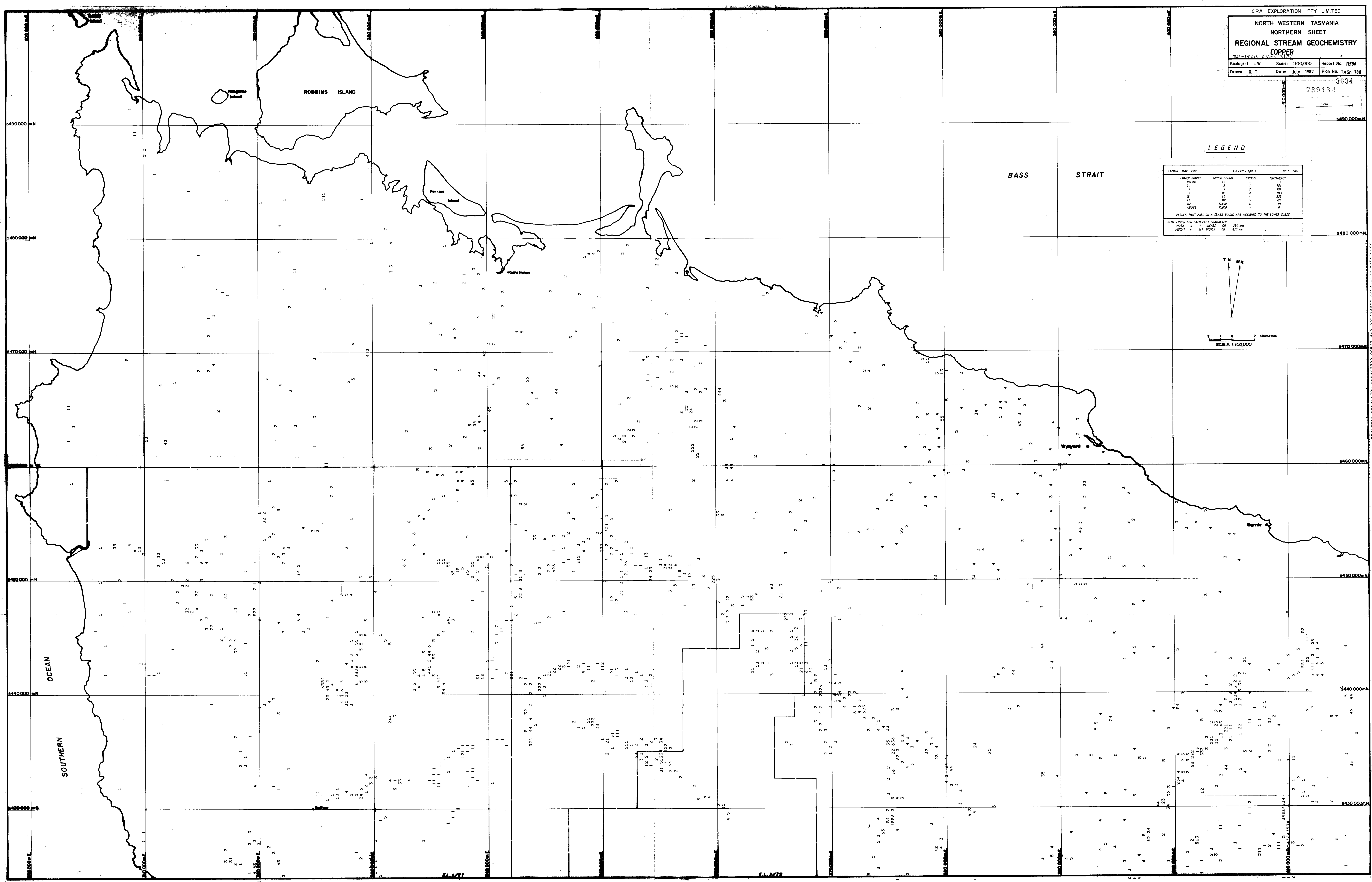
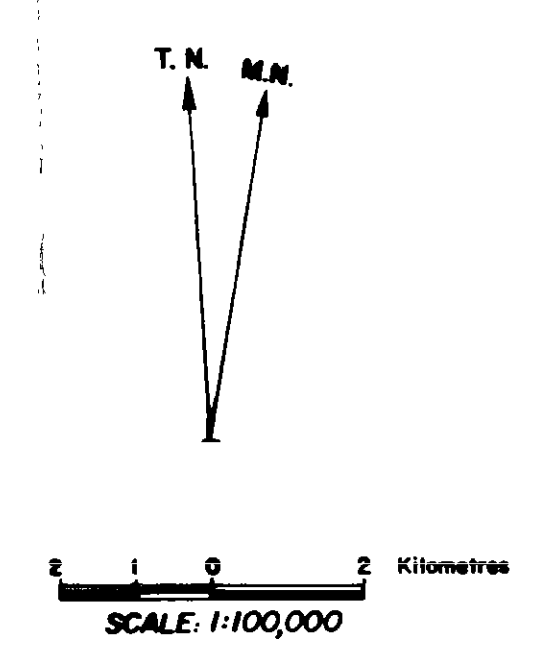
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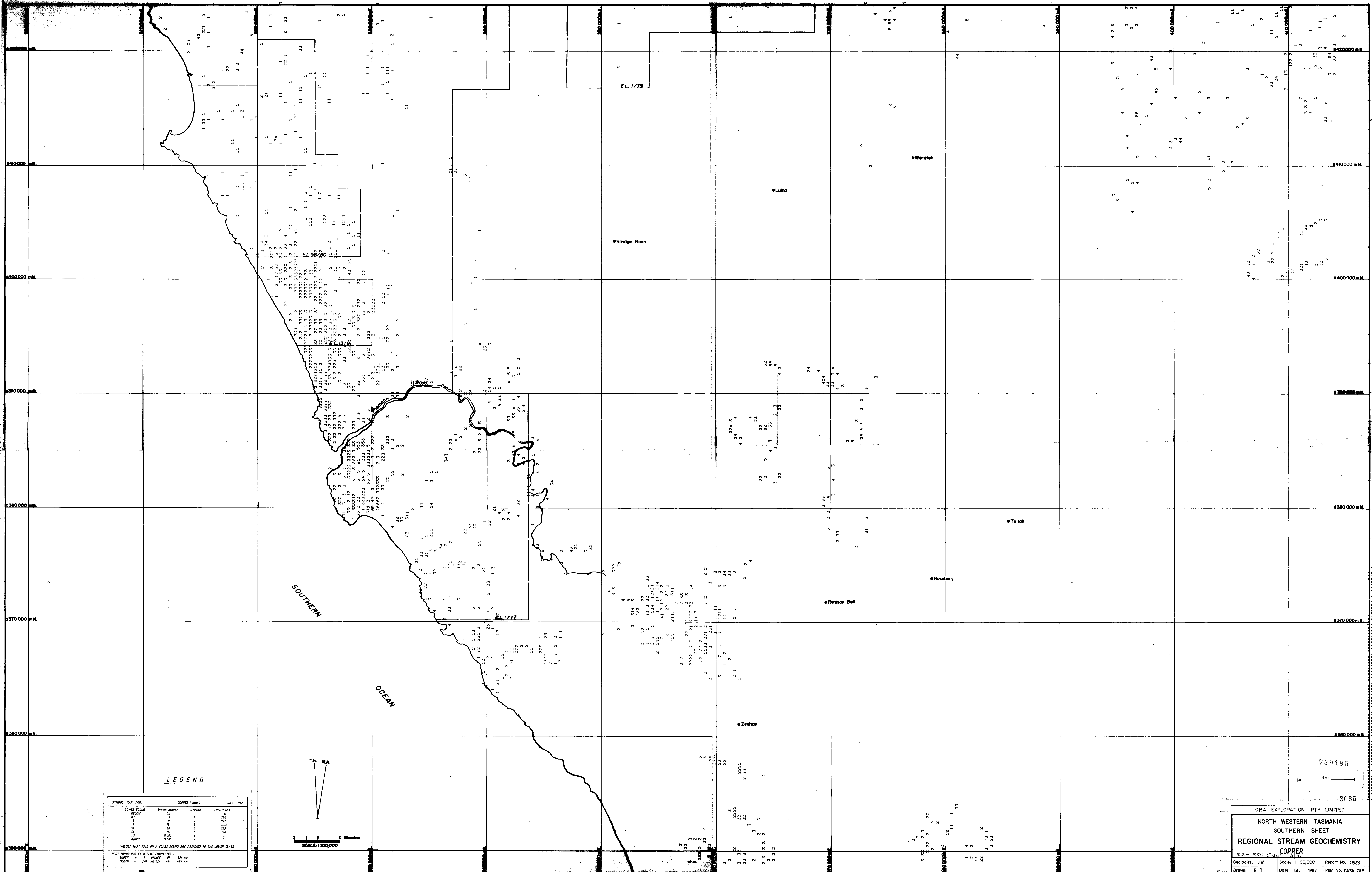
LEGEND

SYMBOL MAP FOR		COPPER (ppm)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW	0.1	1	754		
0.1	0.2	2	972		
0.2	0.5	3	163		
0.5	1.0	4	226		
1.0	10.0	5	329		
10.0	100.0	6	97		
100.0	1000.0	7	9		
ABOVE					

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

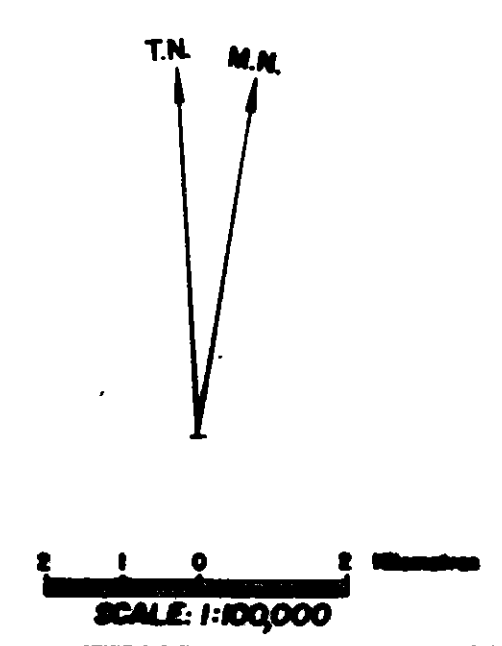
PLOT ERROR FOR EACH PLOT CHARACTER:
WIDTH = 1 INCHES OR 254 mm
HEIGHT = 1/2 INCHES OR 127 mm



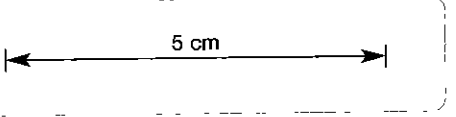


LEGEND

SYMBOL MAP FOR:		COPPER (ppm)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW	0.1	1	5		
0.1	0.2	2	25		
0.2	0.5	3	92		
0.5	1	4	163		
1	2	5	235		
2	5	6	326		
5	10	7	371		
10	20	8	422		
20	50	9	473		
50	100	10	524		
100	200	11	575		
200	500	12	626		
500	1000	13	677		
1000	2000	14	728		
2000	5000	15	779		
5000	10000	16	830		
10000	20000	17	881		
20000	50000	18	932		
50000	100000	19	983		
100000	200000	20	1034		
200000	500000	21	1085		
500000	1000000	22	1136		
1000000	2000000	23	1187		
2000000	5000000	24	1238		
5000000	10000000	25	1289		
10000000	20000000	26	1340		
20000000	50000000	27	1391		
50000000	100000000	28	1442		
100000000	200000000	29	1493		
200000000	500000000	30	1544		
500000000	1000000000	31	1595		
1000000000	2000000000	32	1646		
2000000000	5000000000	33	1697		
5000000000	10000000000	34	1748		
10000000000	20000000000	35	1799		
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100000000000	200000000000	38	1952		
200000000000	500000000000	39	2003		
500000000000	1000000000000	40	2054		
1000000000000	2000000000000	41	2105		
2000000000000	5000000000000	42	2156		
5000000000000	10000000000000	43	2207		
10000000000000	20000000000000	44	2258		
20000000000000	50000000000000	45	2309		
50000000000000	100000000000000	46	2360		
100000000000000	200000000000000	47	2411		
200000000000000	500000000000000	48	2462		
500000000000000	1000000000000000	49	2513		
1000000000000000	2000000000000000	50	2564		
2000000000000000	5000000000000000	51	2615		
5000000000000000	10000000000000000	52	2666		
10000000000000000	20000000000000000	53	2717		
20000000000000000	50000000000000000	54	2768		
50000000000000000	100000000000000000	55	2819		
100000000000000000	200000000000000000	56	2870		
200000000000000000	500000000000000000	57	2921		
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1000000000000000000	2000000000000000000	59	3023		
2000000000000000000	5000000000000000000	60	3074		
5000000000000000000	10000000000000000000	61	3125		
10000000000000000000	20000000000000000000	62	3176		
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50000000000000000000	100000000000000000000	64	3278		
100000000000000000000	200000000000000000000	65	3329		
200000000000000000000	500000000000000000000	66	3380		
500000000000000000000	1000000000000000000000	67	3431		
1000000000000000000000	2000000000000000000000	68	3482		
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2000000000000000000000000	5000000000000000000000000	78	3992		
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100000000000000000000000000	200000000000000000000000000	83	4247		
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739185



3035

CRA EXPLORATION PTY LIMITED

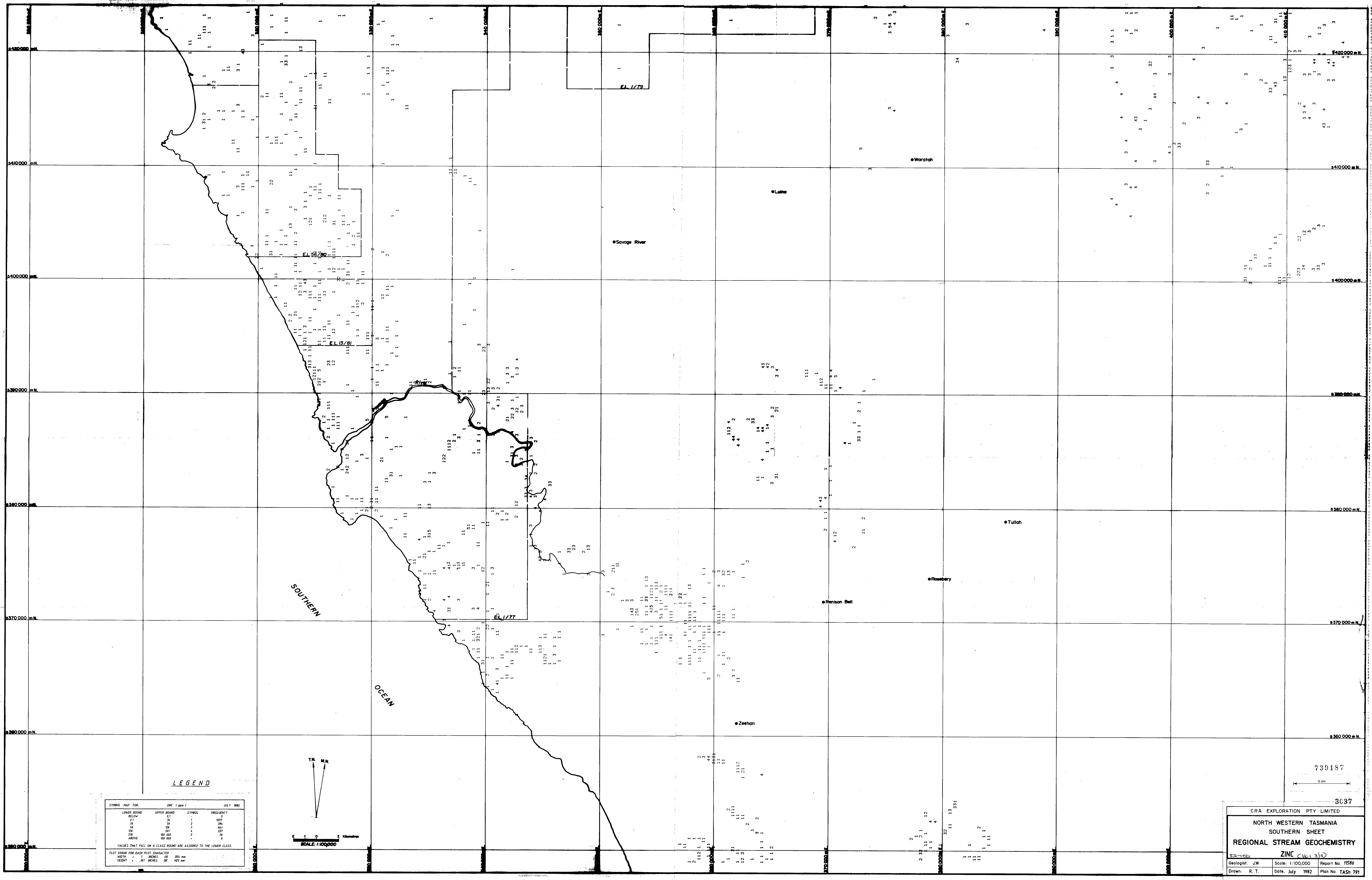
NORTH WESTERN TASMANIA
SOUTHERN SHEET
REGIONAL STREAM GEOCHEMISTRY
COPPER

Geologist: J.W. Scale: 1:100,000 Report No: 7586
Drawn: R.T. Date: July 1982 Plot No: TASH 789

139186

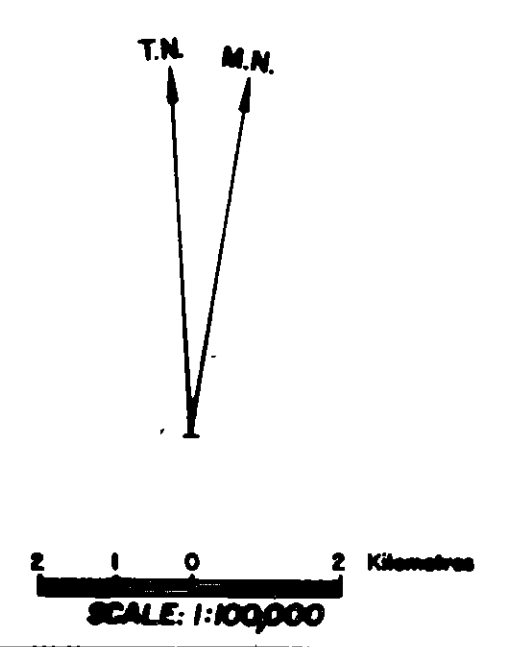
LEGEND

SYMBOL	MAP FOR	ZINC (ppm)	SYMBOL	FREQUENCY
BELOW	51	1	197	
31	31	2	294	
34	34	3	441	
36	36	4	337	
38	38	5	78	
40	40	6	0	
42	42	7		
44	44	8		
46	46	9		
48	48	10		
50	50	11		
52	52	12		
54	54	13		
56	56	14		
58	58	15		
60	60	16		
62	62	17		
64	64	18		
66	66	19		
68	68	20		
70	70	21		
72	72	22		
74	74	23		
76	76	24		
78	78	25		
80	80	26		
82	82	27		
84	84	28		
86	86	29		
88	88	30		
90	90	31		
92	92	32		
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96	96	34		
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134	134	53		
136	136	54		
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140	140	56		
142	142	57		
144	144	58		
146	146	59		
148	148	60		
150	150	61		
152	152	62		
154	154	63		
156	156	64		
158	158	65		
160	160	66		
162	162	67		
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LEGEND

SYMBOL MAP FOR:		ZINC (ppm)	FREQUENCY
LOWER BOUND	UPPER BOUND	SYMBOL	
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739188
5 cm
410 000 mE
5490 000 mN

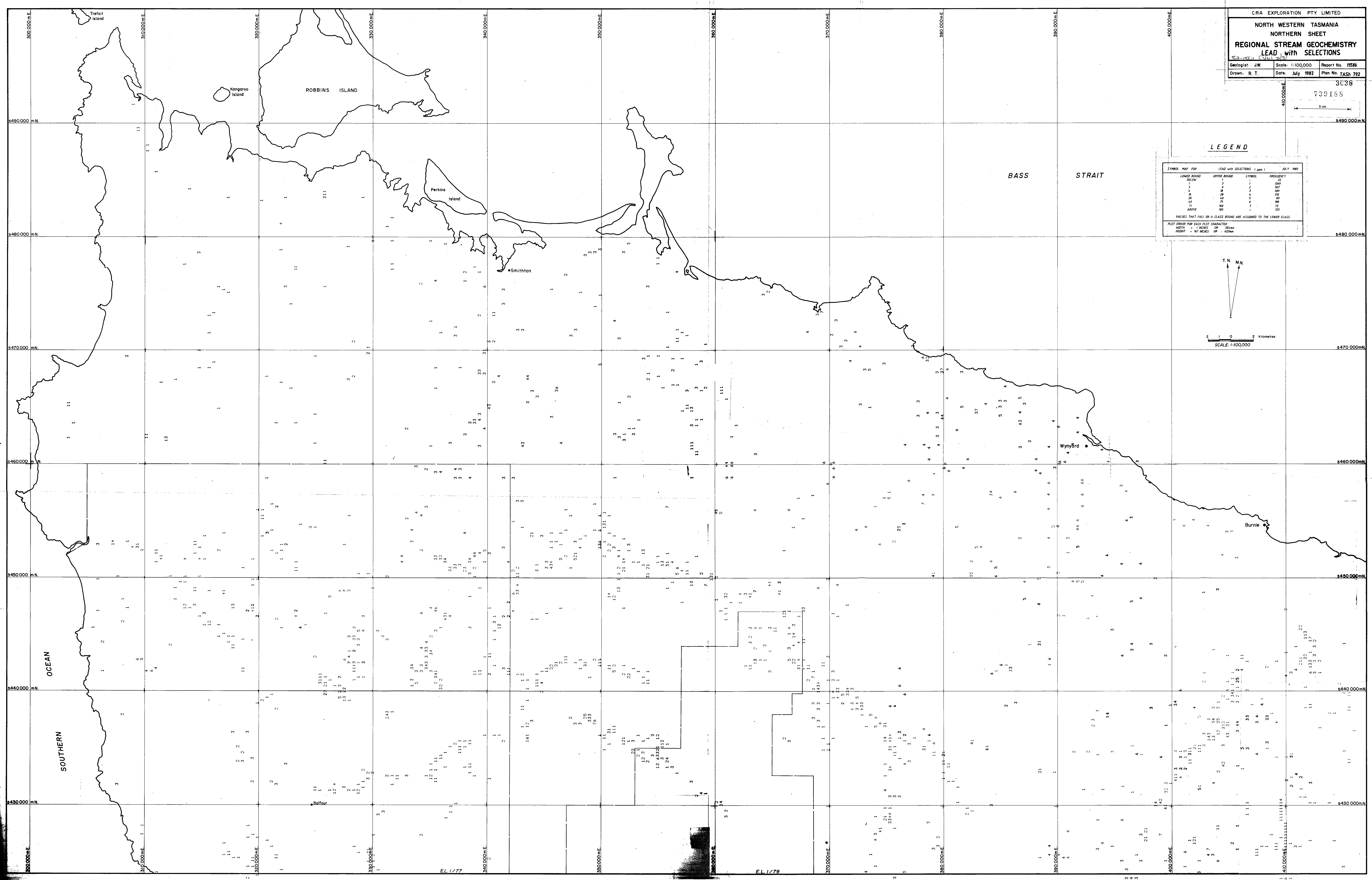
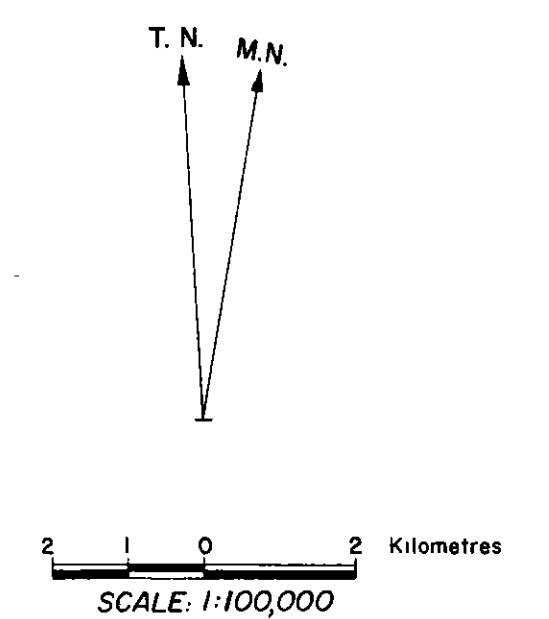
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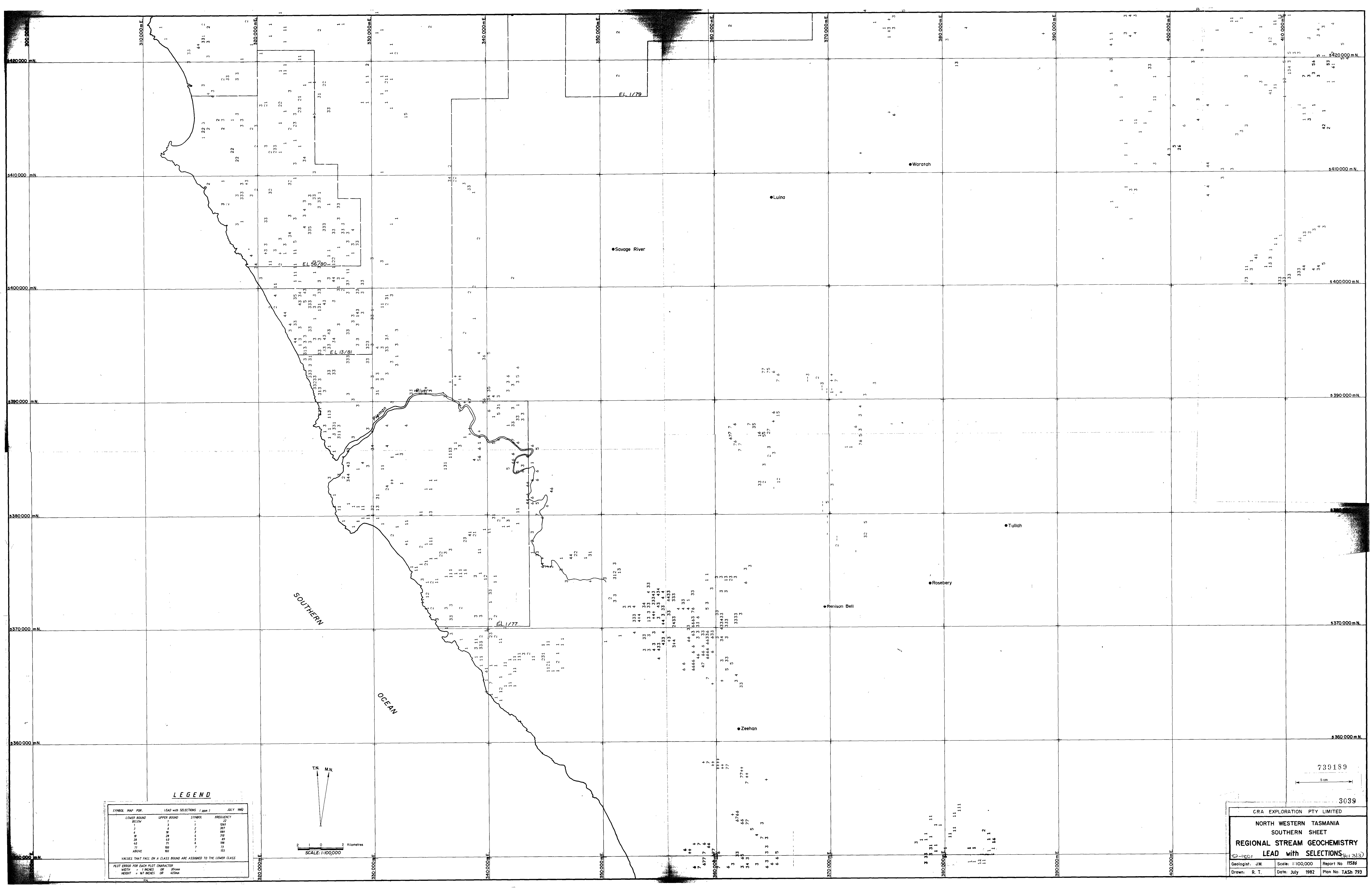
SYMBOL MAP FOR	LEAD WITH SELECTIONS (per 1)	JULY 1982
LOWER BOUND	UPPER BOUND	SYMBOL
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5	5	5
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER

WIDTH = 1 INCHES OR 25mm
HEIGHT = 1.7 INCHES OR 43mm





LEGEND

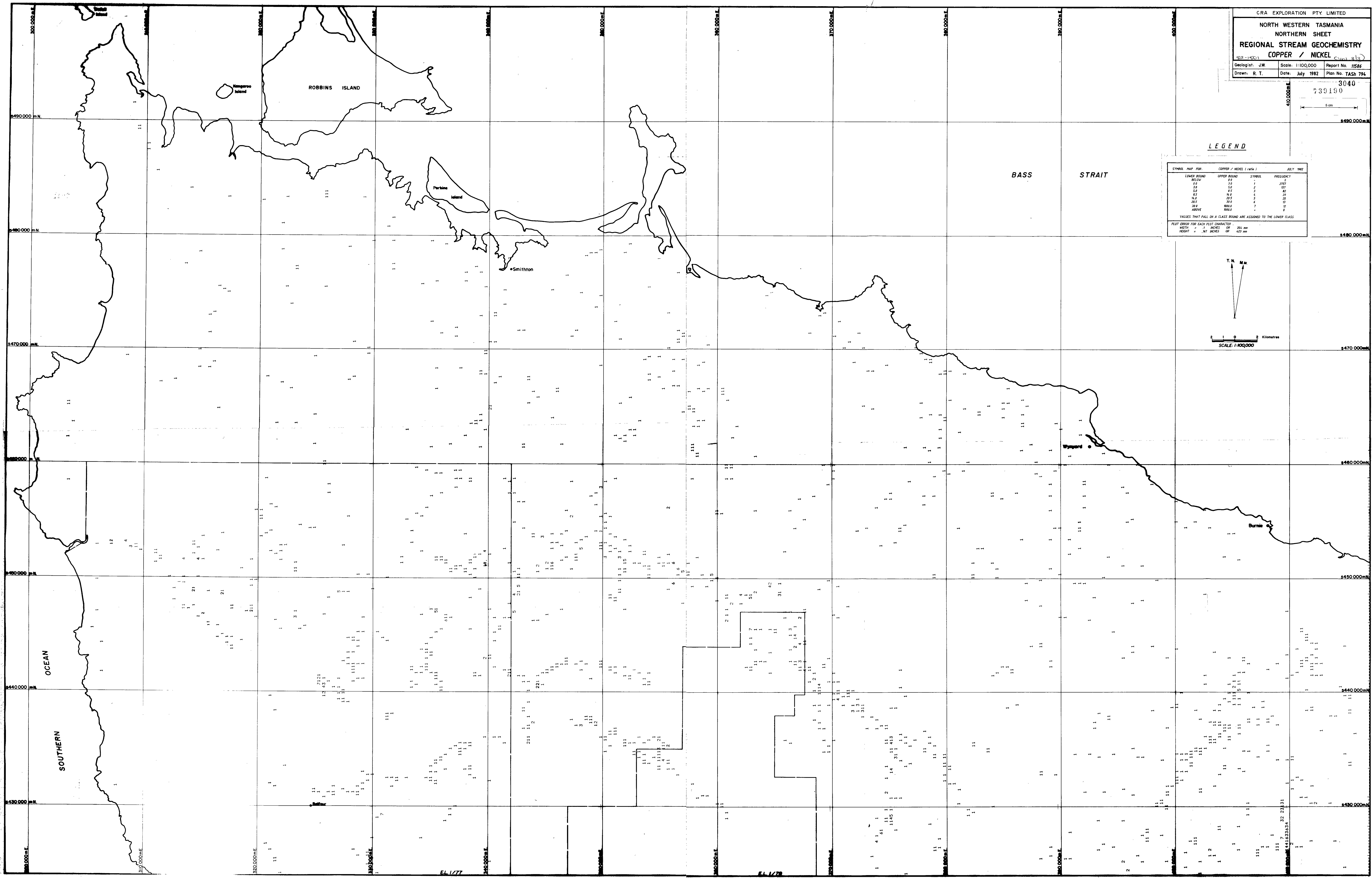
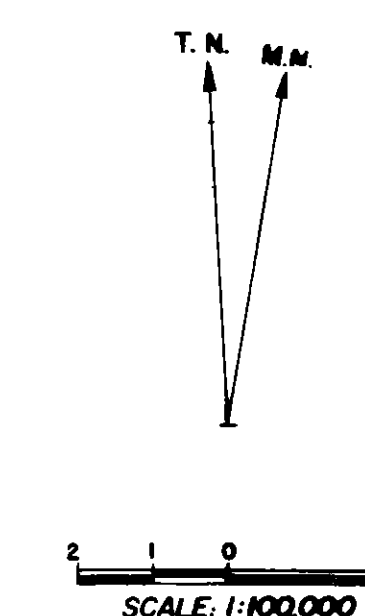
SYMBOL MAP FOR		LEAD with SELECTIONS (ppm)	JULY 1982
LOWER BOUND BELOW	UPPER BOUND	SYMBOL	FREQUENCY
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3	3	2	307
4	4	2	989
5	5	3	310
6	6	4	49
7	7	4	198
8	8	5	73
9	9	5	333
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11	11	6	
12	12	7	
13	13	7	
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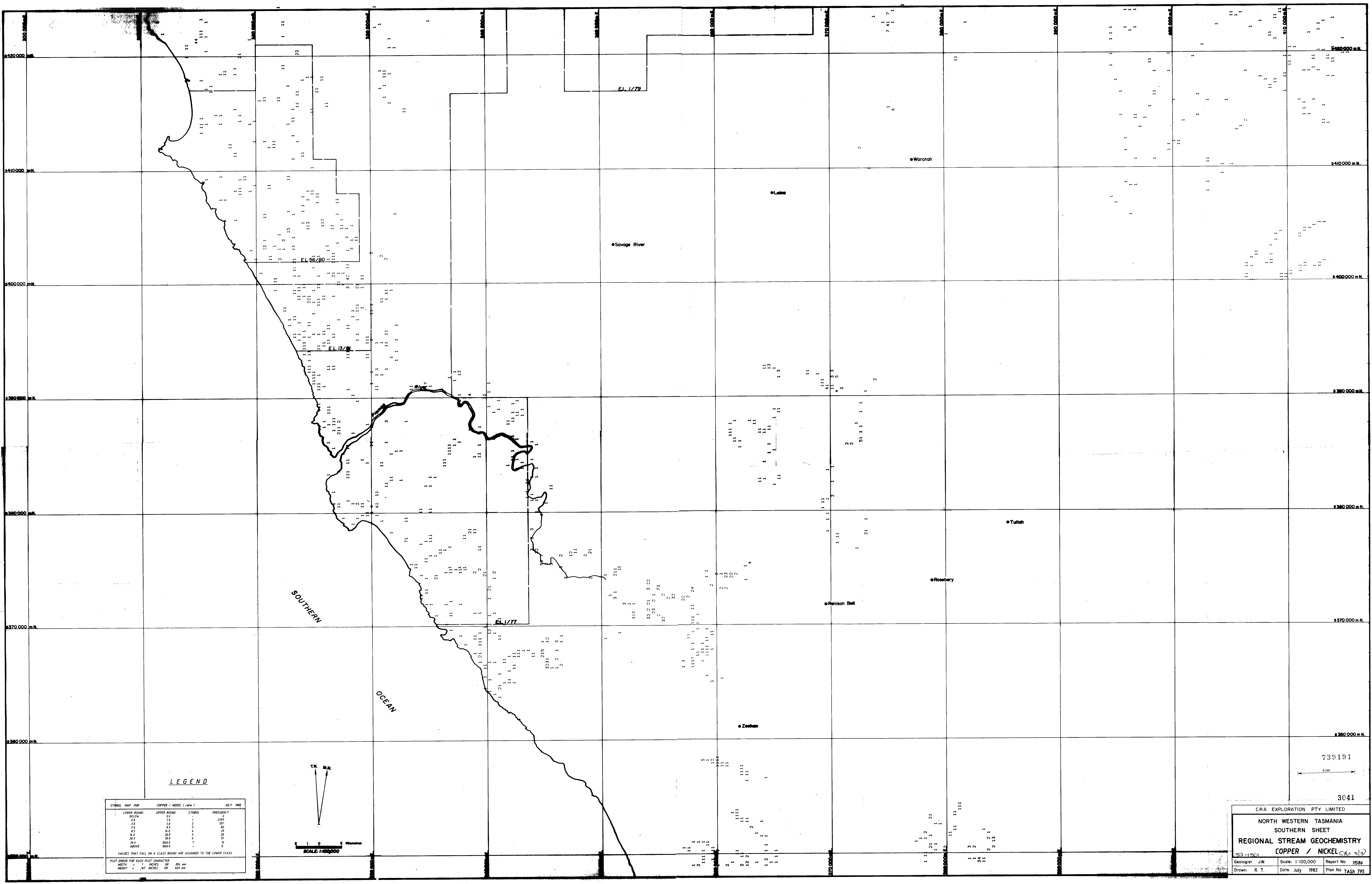
3040
739190

5 cm

LEGEND

SYMBOL	MAP FOR	COPPER / NICKEL (ppb)	FREQUENCY
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LEGEND

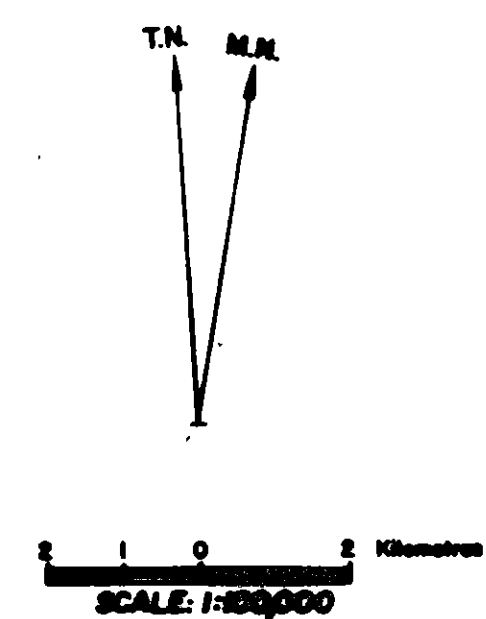
SYMBOL MAP FOR COPPER / NICKEL (ratio 1) JULY 1982			
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
BELOW 0.0	0.0	-	0
0.0	1.0	1	2271
1.0	5.0	2	197
5.0	45.0	3	82
45.0	16.0	4	29
16.0	20.0	5	30
20.0	30.0	6	13
30.0	500.0	7	12
500.0	1000.0	8	9
1000.0	1000.0	9	0
ABOVE	1000.0	+	0

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER

WIDTH = 1 INCHES OR 25.4 mm

HEIGHT = 1 INCHES OR 25.4 mm



CRA EXPLORATION PTY. LIMITED

NORTH WESTERN TASMANIA
SOUTHERN SHEET

REGIONAL STREAM GEOCHEMISTRY
COPPER / NICKEL

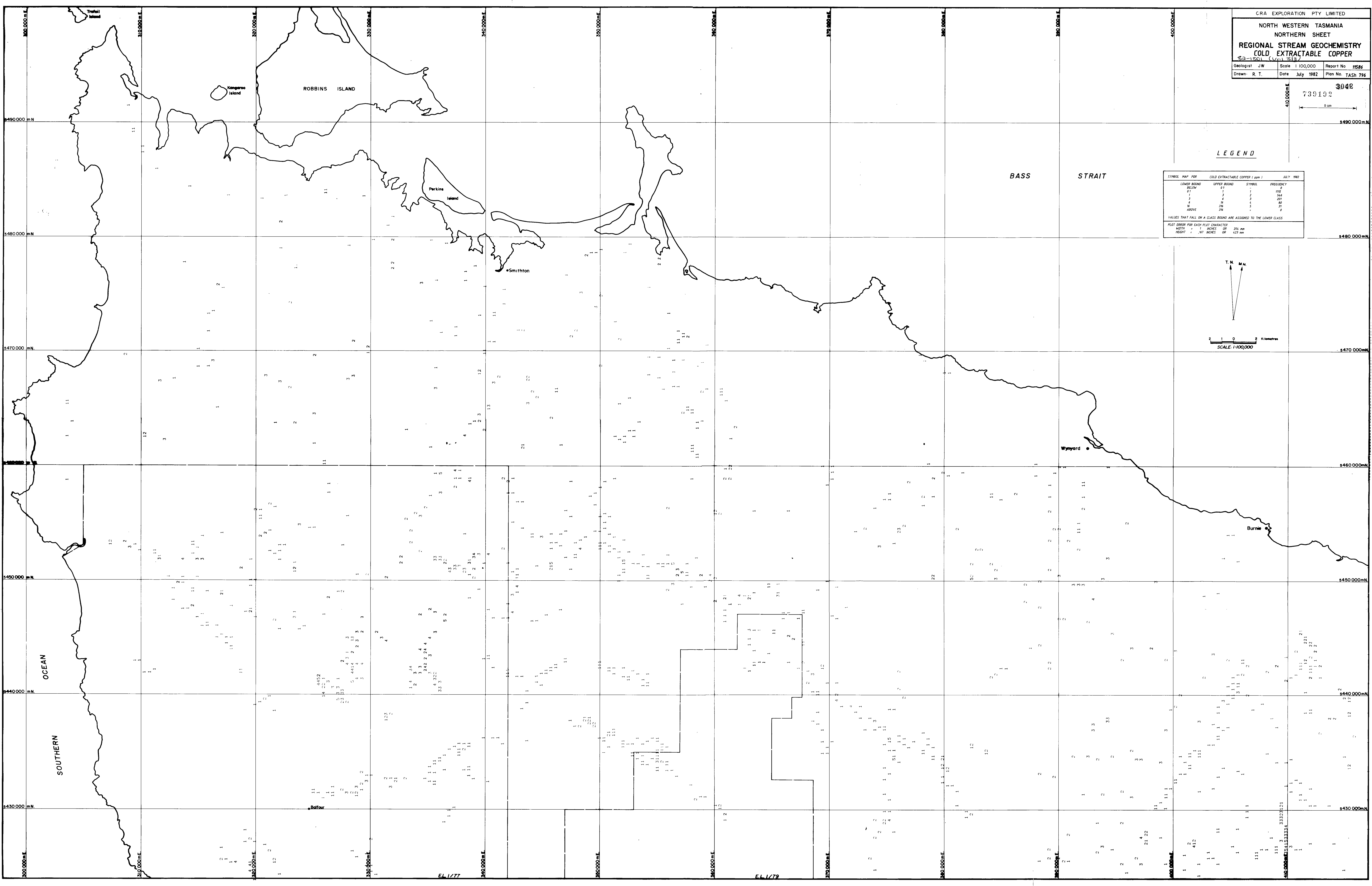
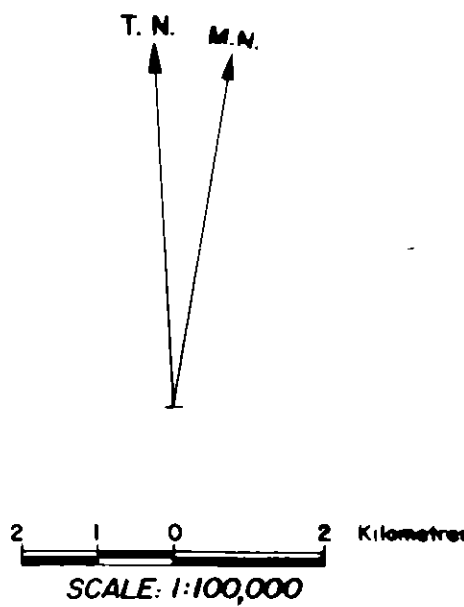
Geologist: J.W. Scale: 1:100,000 Report No: 11586
Drawn: R.T. Date: July 1982 Plan No: TASH 795

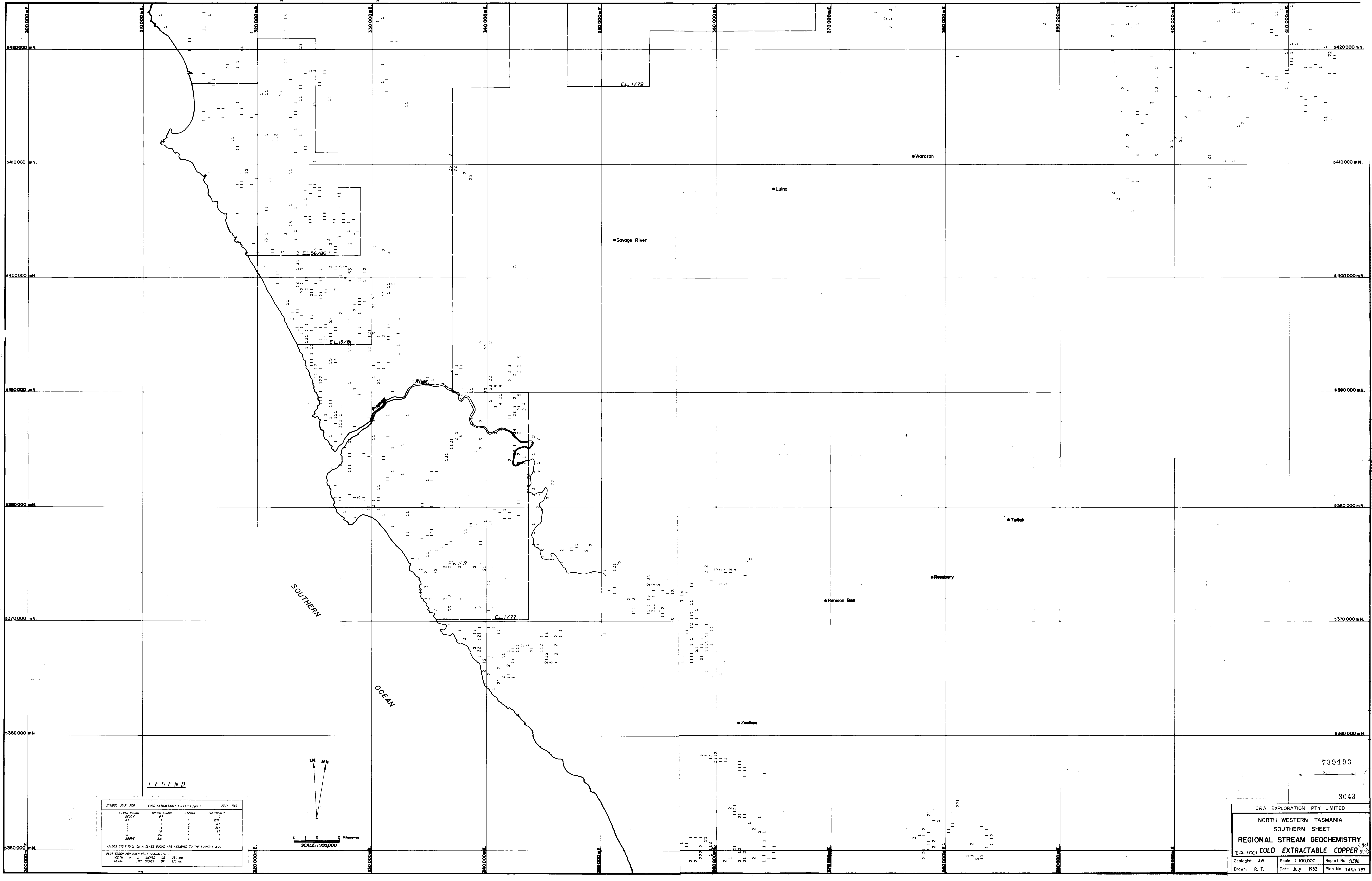
LEGEND

SYMBOL	MAP FOR	COLD EXTRACTABLE COPPER (ppm)	JULY 1982
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
BELOW	1	1	175
1	2	2	346
2	3	3	201
3	4	4	80
4	5	5	37
5	6	6	2
ABOVE	7	7	

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

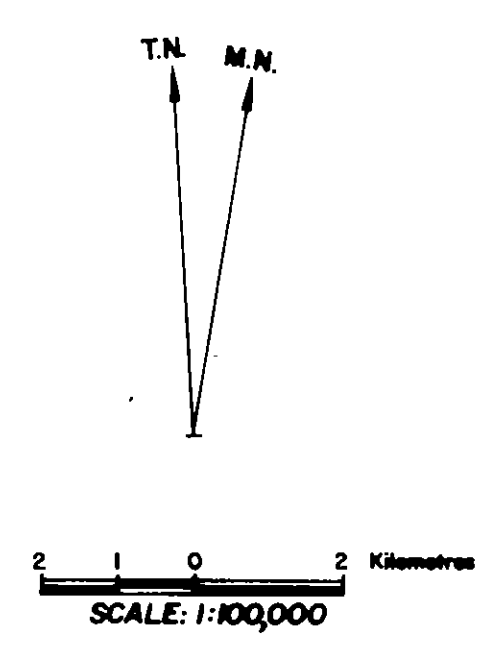
PLAT ERROR FOR EACH PLAT CHARACTER
WIDTH = 1 INCHES OR 254 mm
HEIGHT = .125 INCHES OR 3.175 mm





LEGEND

SYMBOL MAP FOR COLD EXTRACTABLE COPPER (ppm)			
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
0.1	1	1	175
1	2	2	546
2	4	3	201
4	16	4	80
16	32	5	31
32	64	6	0
VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS			
PLOT ERROR FOR EACH PLOT CHARACTER			
WIDTH	= .1 INCHES OR 254 mm		
HEIGHT	= .127 INCHES OR 423 mm		



739493
5 cm
3043

CRA EXPLORATION PTY LIMITED

NORTH WESTERN TASMANIA
SOUTHERN SHEET

REGIONAL STREAM GEOCHEMISTRY

32-1SC1 COLD EXTRACTABLE COPPER

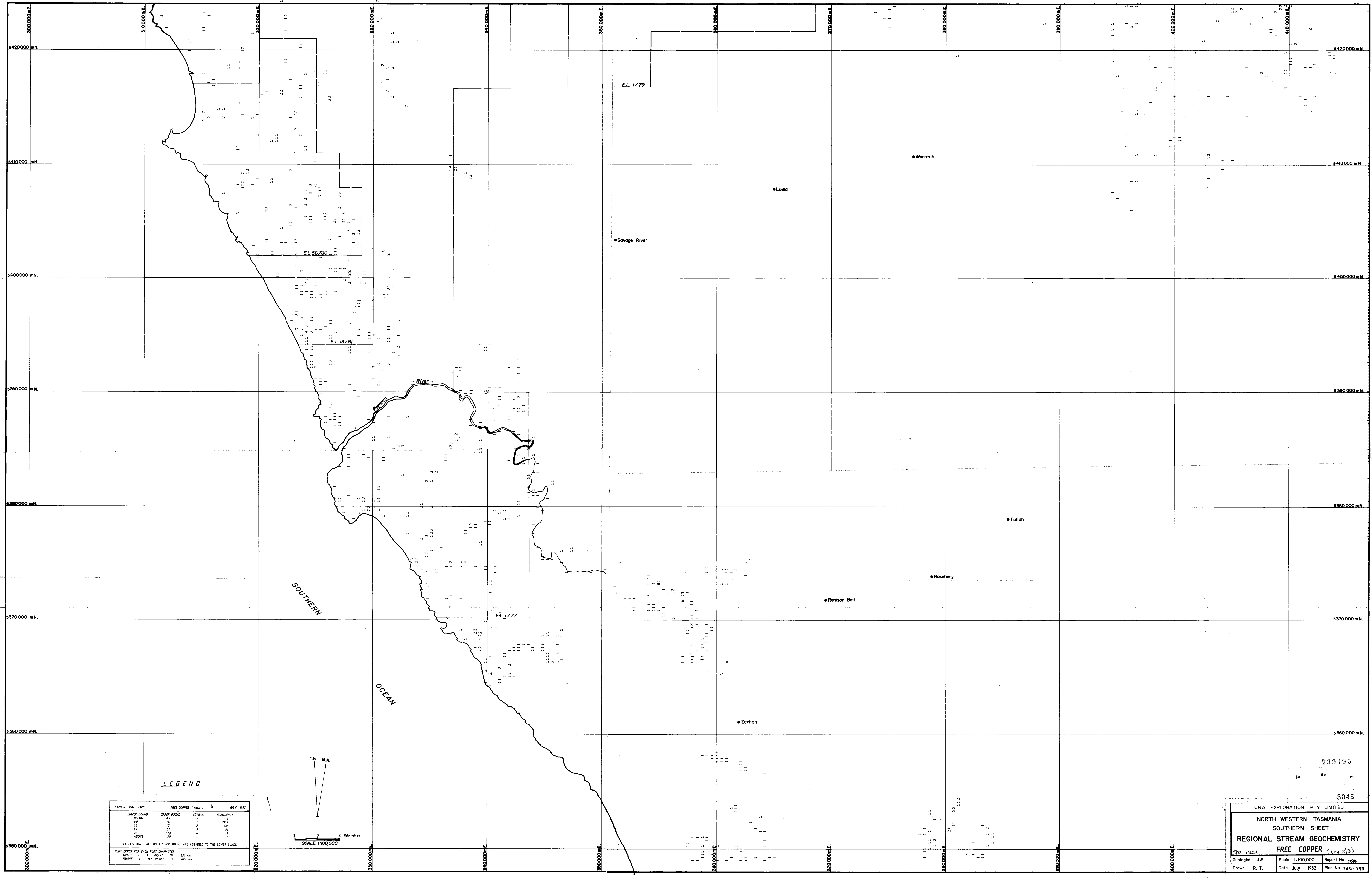
Geologist: J.W. Scale: 1:100,000 Report No: 11586

Drawn: R. T. Date: July 1982 Plot No: TASH 797

3044
739194
5 cm

LEGEND

SYMBOL MAP FOR		FREE COPPER (ratio)		JULY 1982	
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY		
BELOW	0.0	-	0		
0.0	1.4	1	265		
1.4	1.7	2	186		
1.7	2.1	3	90		
2.1	17.9	4	9		
ABOVE	17.9	5	0		
VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS					
PLOT ERROR FOR EACH PLOT CHARACTER					
WIDTH = 1 INCHES		OR	264 mm		
HEIGHT = 180 INCHES		OR	457 mm		

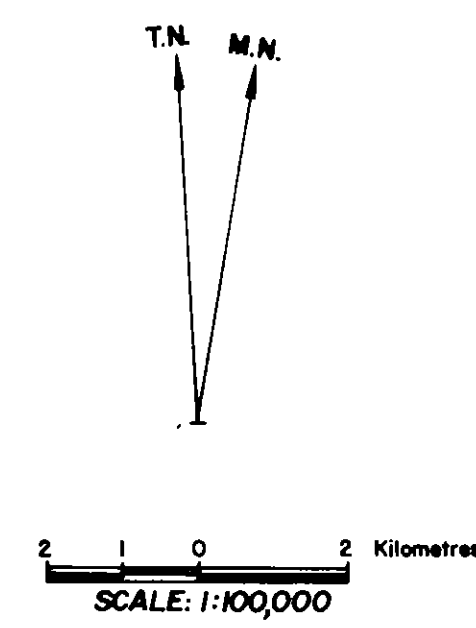


LEGEND

SYMBOL MAP FOR: FREE COPPER (ppm) JULY 1982			
LOWER BOUND	UPPER BOUND	SYMBOL	FREQUENCY
BELOW 14	16	1	290
14	17	2	304
17	21	3	9
21	179	4	9
ABOVE 179		5	0

VALUES THAT FALL ON A CLASS BOUND ARE ASSIGNED TO THE LOWER CLASS

PLOT ERROR FOR EACH PLOT CHARACTER
WIDTH = 1/4 INCHES OR 361 mm
HEIGHT = 1/4 INCHES OR 627 mm



CRA EXPLORATION PTY LIMITED

NORTH WESTERN TASMANIA
SOUTHERN SHEET
REGIONAL STREAM GEOCHEMISTRY
FREE COPPER (V. 1.3)

Geologist: J.W. Scale: 1:100,000 Report No. 7756
Drawn: R. T. Date: July 1982 Plot No. TASH 799