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Copper Mines of Tasmania Pty Ltd
EL 52/94 Linda Annual Report
Year 2 (13/1/1996 to 13/1/1997)

MINERALS
EL 52/94
13 DEC 1996
See folio 57

K.C. Morrison
30 November 1996

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SUMMARY

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Mapping and rock chip sampling on the Chamounix Zinc and King Lyell Copper Clays prospects generated targets for 5 shallow percussion drill holes in Gordon Group clays, shale, sandstone and limestone.

The best intersections were 12 metres (downhole) @ 2.4% Zn and 8 metres (downhole) @ 3.5% Cu, on Chamounix Zinc and King Lyell respectively.

On the Burbury Volcanics prospect, low grade gold, copper and lead mineralisation was detected in outcropping silica-hematite-pyrite altered Tyndall Group volcanoclastics and several gold and base metal anomalies were produced from a stream sediment survey.

Exploration is continuing on the three prospects, with gridding, mapping, geophysics, geochemistry and possible drilling budgeted for Licence Year 3.

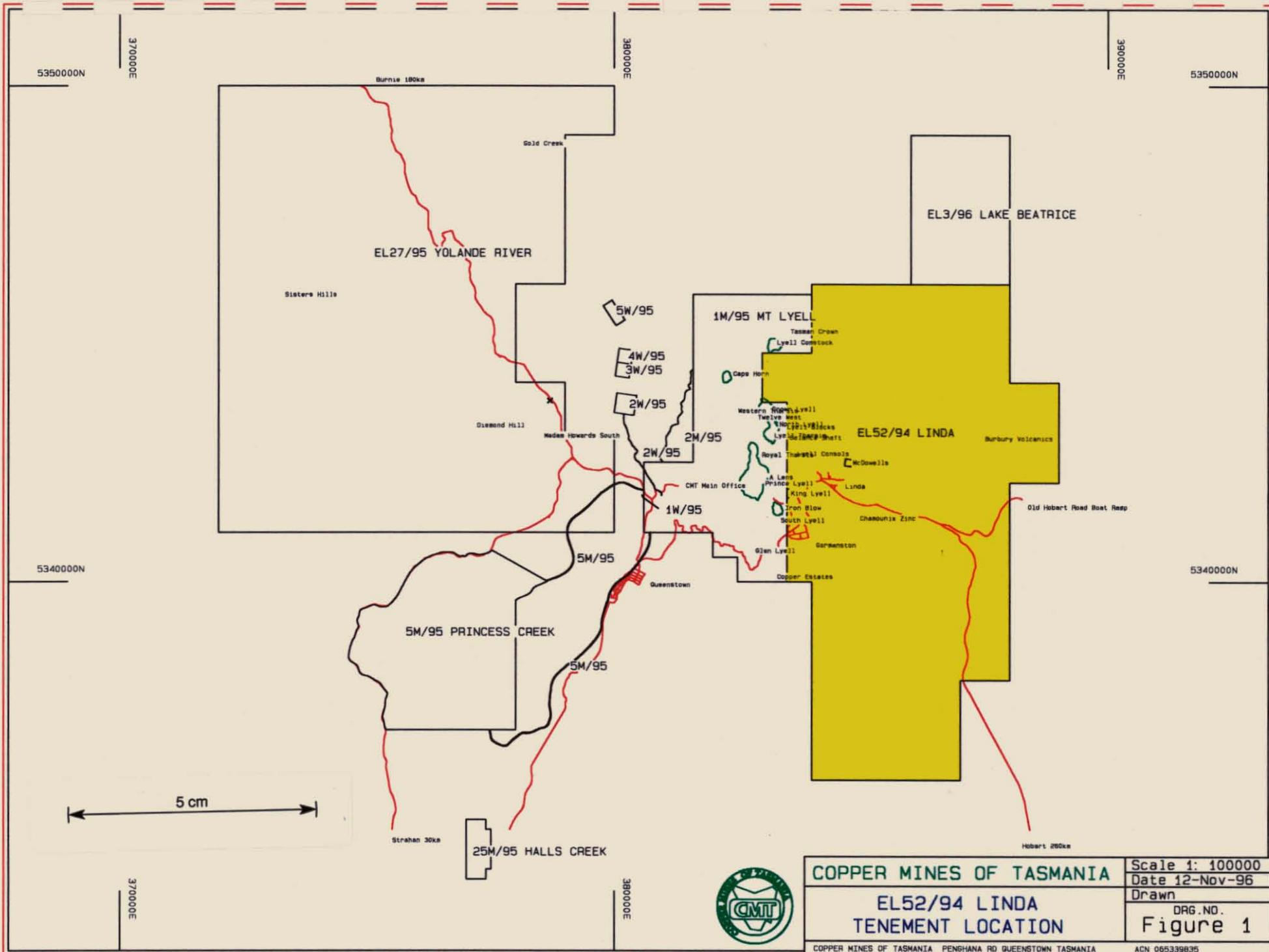
TENEMENT INFORMATION

EL 52/94 Linda (Figure 1) is a 37 km² tenement resulting from the amalgamation of the original EL 52/94 (a 34 km² tenement awarded to CMT as the successful tenderer for ETA 364) and ELA 5/95 (a 3 km² EL Application over the former Exempt Area between the Mineral Lease 1 M/95 and the original EL 52/94).

It extends from the eastern edge of the Mount Lyell Mineral Lease to Lake Burbury in the King River Valley and covers the Sedgwick (Comstock) and Chamounix (Linda) valleys, most of Mt Lyell and the central and eastern portions of Mt. Owen. The Lyell Highway runs east-west through the middle of the EL, including the townships of Gormanston and Linda.

Competitor companies and CMT hold adjoining exploration licences to the north, west and south, reflecting the position of the Mount Read Volcanics. Exclusions from within EL 52/94 total 6.06 km² comprising; 1 km² of Crown Reserves associated with the Gormanston and Linda townships, 5 km² of Hydro Electric Commission land, including part of Lake Burbury, and 6 hectares of Mining Leases consisting of 2 W/88 (Wiggins and Batchelor Pty Ltd - 4 ha) and 47 M/73 (P., K. and B. Smith - 2 ha).

EL 52/94 is held 100% by CMT and is currently in Licence Year 2, which expires on 13 January 1997. This report describes exploration completed up until 13 December 1996.



COPPER MINES OF TASMANIA EL52/94 LINDA TENEMENT LOCATION	Scale 1: 100000
	Date 12-Nov-96
<small>COPPER MINES OF TASMANIA PENGHANA RD QUEENSTOWN TASMANIA</small>	Drawn
	DRG. NO. Figure 1
<small>ACN 06539835</small>	

REVIEW OF PREVIOUS EXPLORATION

a) Pre EL52/94 Exploration

Despite its location and geology, surprisingly little modern exploration has occurred since the 1883 - circa 1910 period of active prospecting and small scale alluvial gold and native copper mining in the western Linda Valley (Blainey, 1967)

The history of early prospecting and modern company exploration is compiled in detail in the Year 1 Annual Report (Morrison, Wills and Cordery, 1995) and the following summary reviews the main activities relevant to the current CMT exploration strategy.

1966 - 67	Placer Exploration Ltd	SPL-6	Gridding, S.P., Soil geochem - Linda Valley
1966 - 84	Mt Lyell Mining and Railway Co. Ltd	Els 9/66, 10/69 & leases	Gridding, I.P., S.P., EM - Comstock Valley Drilling - King Lyell (Copper Clays), Gormanston (conceptual Great Lyell Fault). Comstock Valley (IP anomaly Gordon Limestone)
1984 - 87	Goldfields Exploration Pty Ltd	ATP Queenstown	Stream sediment, moss geochem - Linda Valley Drilling - Gormanston, (conceptual Great Lyell Fault). McDowells (North Lyell Fault, old gold workings)
1985 - 88	CRA Exploration Pty Ltd	EL 5/85	Stream sediment geochem - Comstock Valley
1987 - 91	BHP Minerals Ltd	EL 102/87	Gridding, EM - Comstock Valley Drilling - Comstock Valley (EM anomaly Gordon Limestone) Relogging MLMRC Comstock, McDowells drill core Stream sediment geochem - Comstock, Linda Valleys
1988 - 93	Aberfoyle Resources Ltd	EL 5/85	Reconnaissance mapping - East Mt Lyell

A total of six grids are partly or entirely located on ground now covered by EL 52/94. Records of 34 drill holes within the EL have been located. Twenty nine of these were targeting either copper clays or prognosed sub Owen Conglomerate volcanics, drilled within mining leases of the time by MLMRC. Four holes were drilled on electrical geophysical targets in Gordon Limestone underlying the Comstock Valley and one hole was drilled under McDowells gold workings, against the North Lyell Fault in the Linda Valley.

b) CMT EL 52/94 Year 1 Exploration

A helimagnetics survey was flown over both the mine lease and the exploration licence. Survey design consisted of 100 metre spaced east-west lines and 1000 metres north-south tie lines. Sensor height was maintained at 20 - 30 metres and the sampling interval was 3 - 4 metres. Imaging and interpretation of the data for prospect scale exploration is ongoing.

A comprehensive literature study of the known copper clays deposits (King Lyell, Lyell Consols and Lyell Blocks) was completed (Wills, 1995). The deposits are hosted in heavily weathered and altered Gordon Group rocks preserved in east plunging tight synclines. King Lyell was targeted for prospect scale exploration in Licence Year 2.

A program of mapping, rock chip sampling and orientation stream sediment geochemistry was conducted within the Linda Valley. The main findings of the initial field work were as follows:-

- Outcropping quartz sphalerite, pyrite, galena mineralisation was located in the banks of Cemetery Creek, Linda Valley. The mineralisation is hosted in weathered, deformed, carbonaceous shale/clay which is interbedded with quartz sandstone and overlies Gordon Group limestone. The host rocks are litho correlates to the black pug units which host the copper clays deposits at the western end of the Linda Valley.
- Native copper and copper oxide (copper clays mineralisation) appears to be confined to zones of laterite-like mottled limonitic clays and ferricrete, hosted within Gordon Group black clays preserved in eastplunging synclines located down slope from but proximal to the Mount Lyell primary mineralisation.
- Orientation stream sediment sampling produced a strong gold, arsenic, manganese response at a position where the North Lyell Fault cuts Tyndall Group porphyritic volcanics on the southeastern flank of Mount Lyell.

These findings, in conjunction with the literature review, lead to the definition of four informally named prospect scale exploration targets.

1. Chamounix Zinc
2. Burbury Volcanics
3. King Lyell Copper Clays
4. North Lyell Fault Zone

3. EXPLORATION RESULTS - LICENCE YEAR 2

3.1 *Chamounix Zinc Prospect*

Mapping and sampling of Gordon Group outcrop, exposed in windows through the Quaternary glacial gravels blanketing the floor of Linda Valley, progressed (Map 1).

Rock chip channel sample zinc and lead concentration through sandstones, siltstones and carbonaceous clay and shale (all tentatively assigned to the upper Gordon Group), outcropping on the banks of Cemetery Creek and exposed in a costean parallel to Cemetery Creek, confirm the zone of anomalous zinc mineralisation previously located (Maps 1 and 2).

In the central part of Costean-1 and in several excavator pits in the surrounding area (Map 2) bedrock was not sampled due to gravel thicknesses exceeding 3 metres.

Mineralised intervals were encountered in quartz veined black clay and shale, of 36 metres @ 1.7% Zn and 10 metres @ 1.0% Zn in Cemetery Creek and Costean-1 respectively.

Rock chip and stream sediments sampling west of Cemetery Creek detected anomalous zinc in 2 outcrops along a northwesterly trend from the Cemetery Creek mineralisation. Mapping of the stringers and blebs of sulphide mineralisation at the main Cemetery Creek exposure (Figure 2) shows two preferred directions, NW - SE and N - S. The former direction aligns with the other zinc anomalous outcrops, the strike of limestone bedding in Cemetery Creek and the major Devonian fault and fold axis trend east of the Great Lyell Fault. The north-south trend is defined by Cemetery Creek and marks a topographic boundary between a relatively flat blanket of thick Quaternary gravel east of Cemetery Creek and a dissected hilly topography, with the sub Quaternary basement commonly exposed, west of Cemetery Creek. This suggests a down faulted block of Gordon Group rocks east of Cemetery Creek. Dip and strike measurements on limestones which underlie the black shales and sandstones at Cemetery Creek (Map 1) imply either a syncline or tilted fault blocks with a hinge or boundary close to the mineralisation.

The intersection of a mineralised trend and a cross cutting structure at Cemetery Creek is considered a favourable location for ore body formation.

The problems of exploring through the Quaternary gravels and high water table in the Linda Valley were partly addressed with magnetics, mobile metal ion (MMI) geochemistry and geobotany methods being tested across the mineralisation exposed in Costean - 1 (Figures 3 - 6). MMI was tried in both the gravels overlying bedrock and in the thin organic-rich soils developed on the gravels. Two to three year old twigs from the prevalent narrow leaf wattle bush (*Acacia mucronata*) were also sampled, and assayed by AAS.

The magnetics (Figure 3) show a regular increase from north to south except for a low at 100 metres, corresponding to an indurated silicified band within the sandstone unit, and a high near the southern end of the costean, which is attributed to steel pickets supporting a safety barrier. No diurnal drift in the field occurred and no magnetic response can be related to the mineralisation.

Zinc, lead and silver rock chip anomalies correspond to the black clay unit which is subdivided by a 24 metre interval of extra thick Quaternary gravel in the floor of the costean. Copper, barium and manganese show no convincing trends.

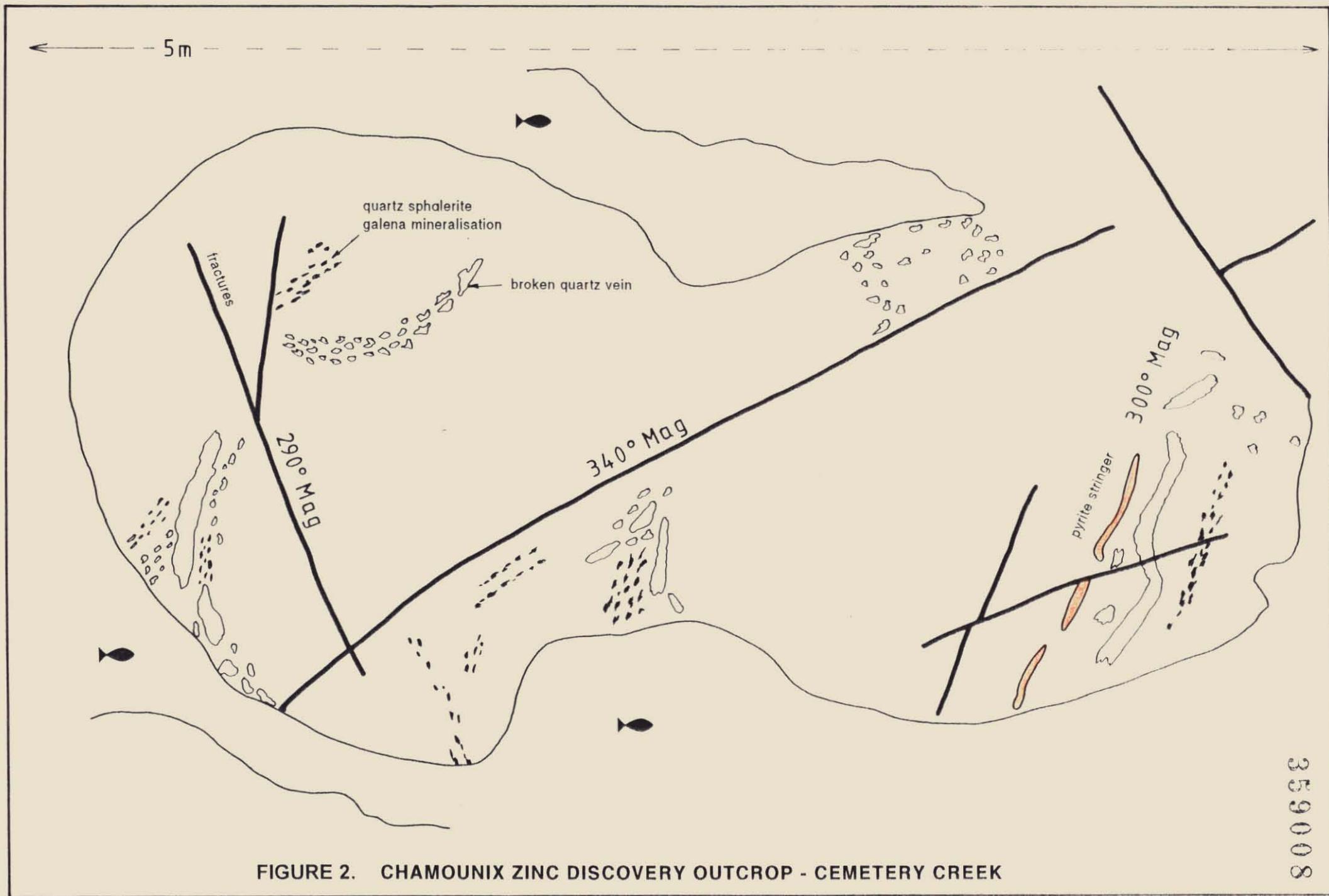


FIGURE 2. CHAMOUNIX ZINC DISCOVERY OUTCROP - CEMETERY CREEK

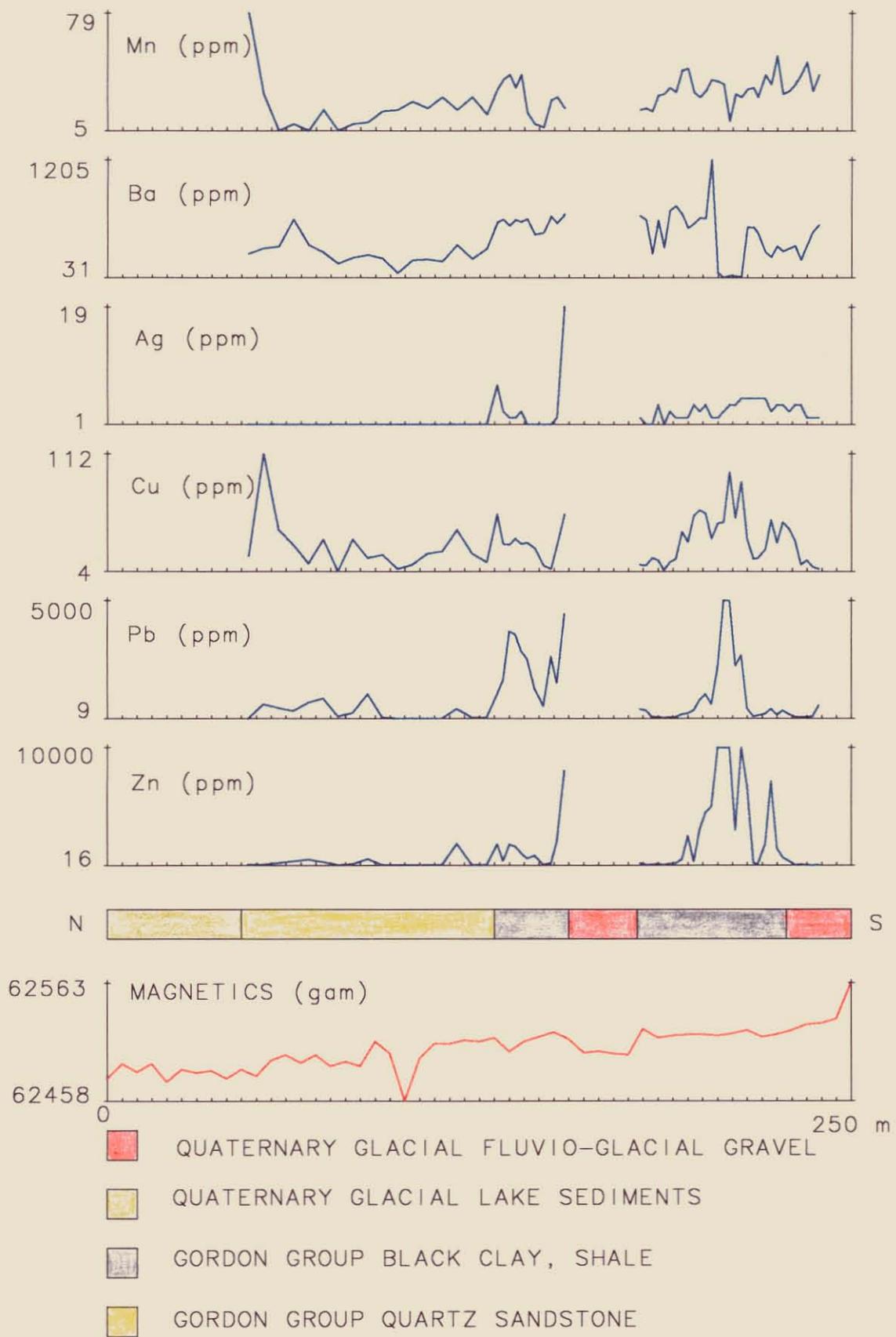


Figure 3. Costean 1 - Magnetics and Rock Chip Geochemistry

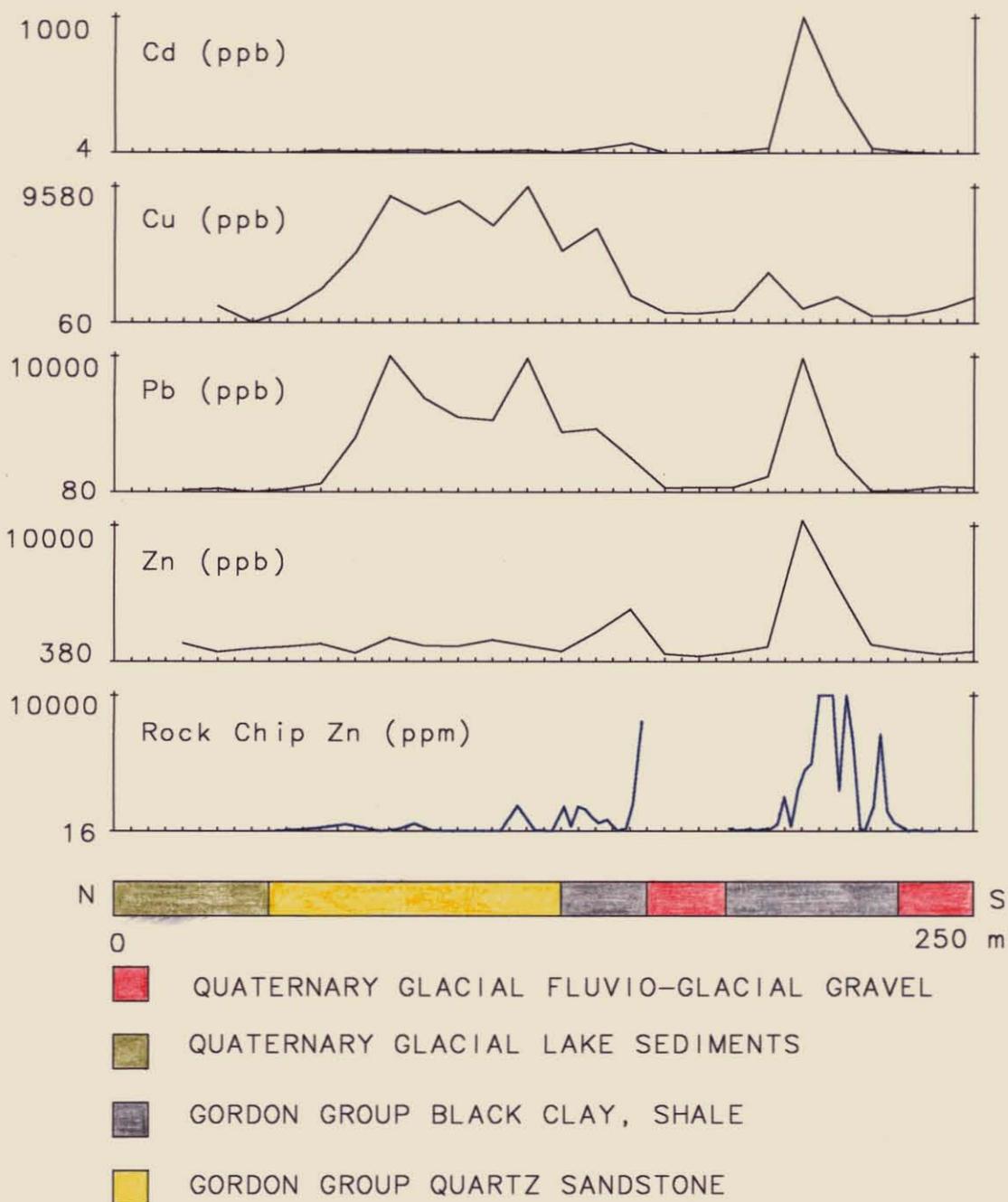


Figure 4. Costean 1 - Gravel MMI Geochemistry

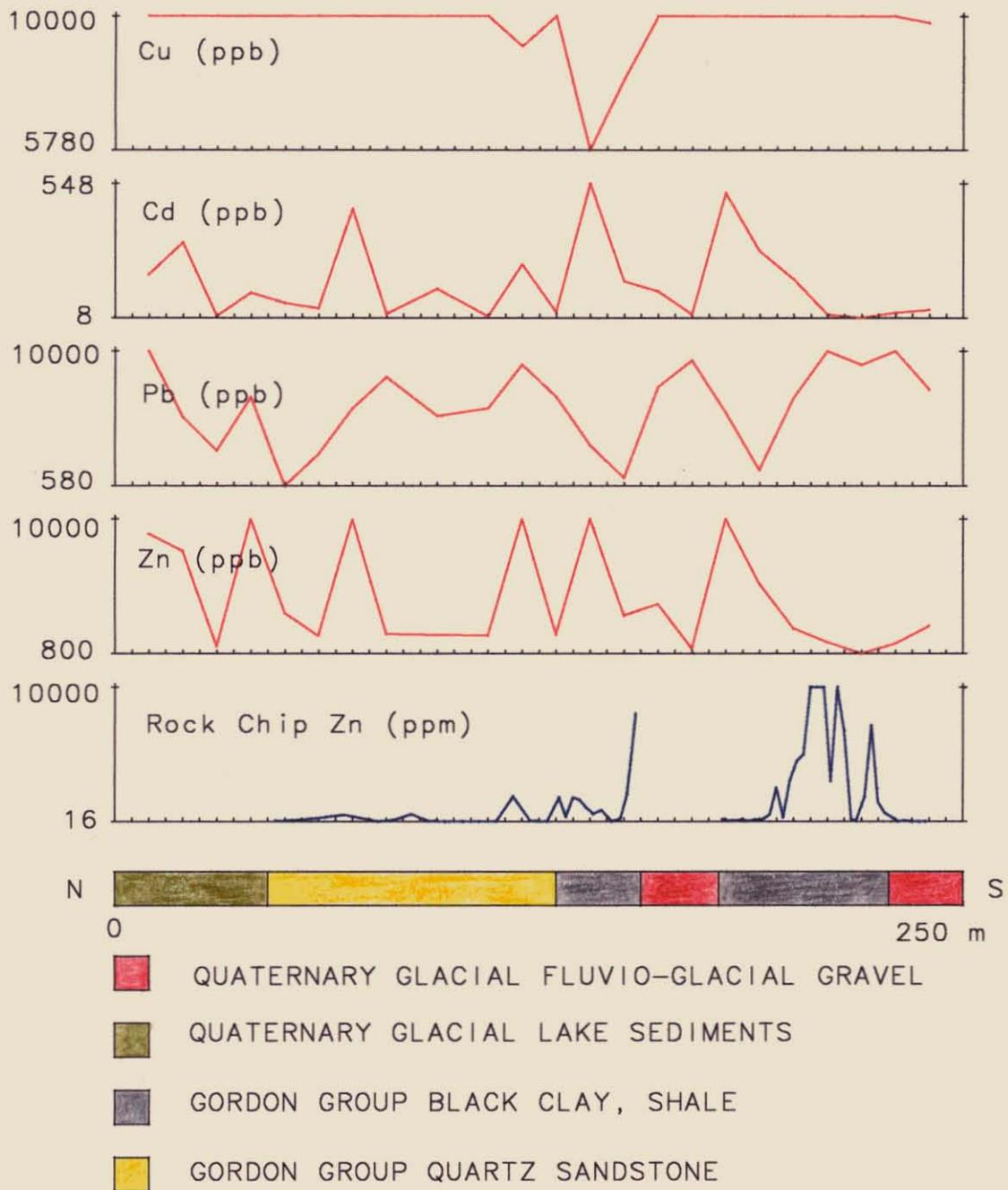


Figure 5. Costean 1 - Soil MMI Geochemistry

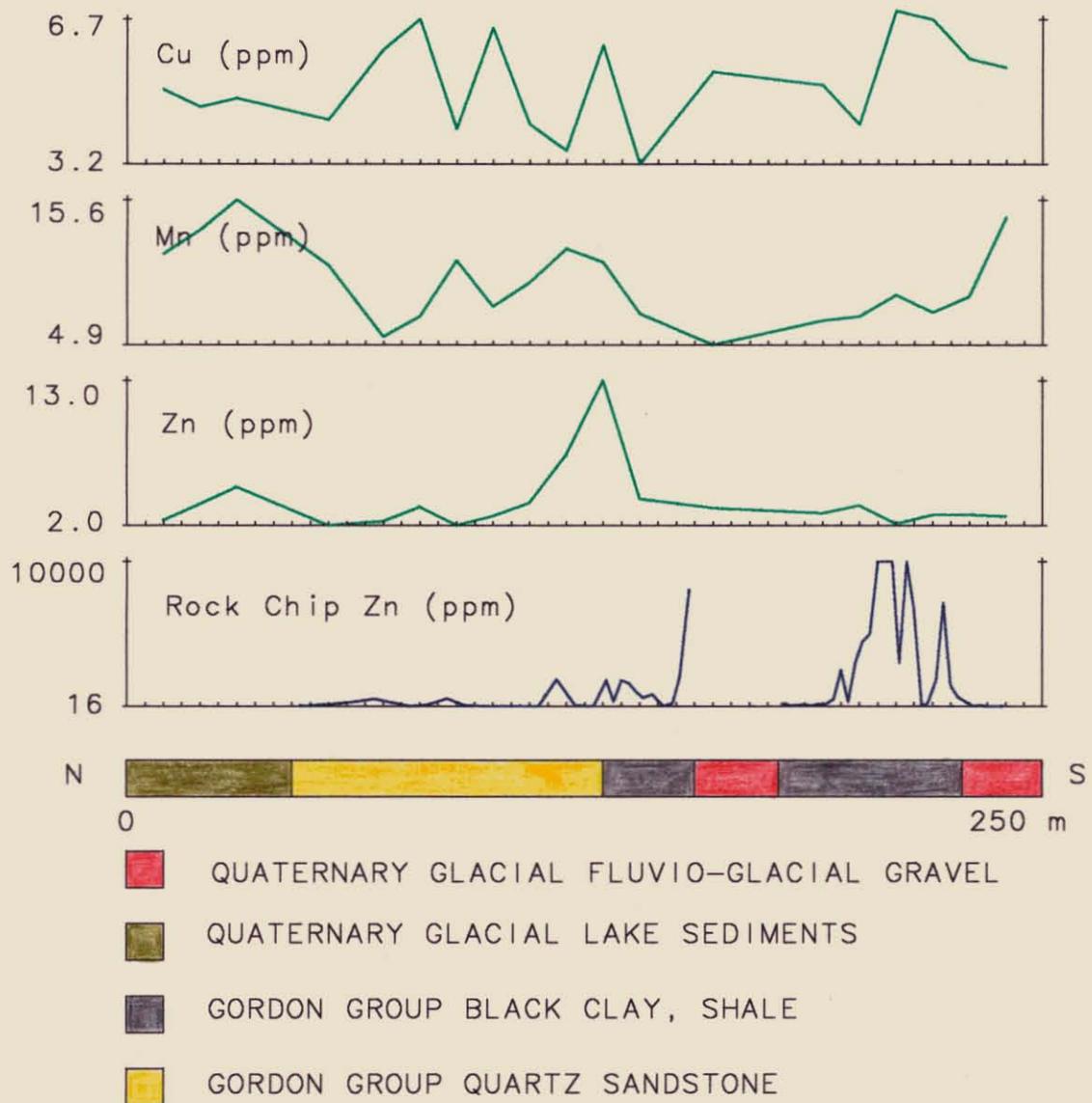


Figure 6. Costean 1 - Vegetation Geochemistry

In the gravels sampled from the costean walls and assayed by MMI (Figure 4) a strong correlation exists between zinc and cadmium and the primary mineralisation. Lead and copper are elevated above all the Gordon Group rocks, relative to the Quaternary sediments, but there is no discrimination between the mineralised black clays and the barren sandstone.

No useful responses were obtained from the soil and vegetation profiles (Figures 5 and 6).

Following the MMI Zn and Cd responses in the surficial gravels, a trial three line survey was conducted across the area between Cemetery Creek and Linda (Figure 7).

The analytical method is based on the principle that specialised acids will flush certain metal cations adsorbed onto sediment and produce an extract for AAS analysis without involving the matrix material (ie no pulping required).

The method is patented by Wamtech Pty Ltd in Perth, with the acid composition being the secret ingredient. Wamtech offer two digest reagents (one for Cu, Pb, Zn, Cd and one for Au, Ag, Ni, Pd, Co). The former was used in this survey.

Figures 8 - 11 show a single zinc high (3760 ppb) at the northern end of the eastern line and a zone of high zinc at the southern end of the western line. The former is within the predicted mineralisation corridor but the latter is more robust and coincides with elevated cadmium.

Sample H0397 on the eastern line shows a cadmium high (40 ppb), coincident with a lead low (120 ppb). Copper shows no convincing trend.

Follow up investigation of the main (western line) anomaly found signs of former habitation and buried metallic rubbish immediately upslope from the anomaly.

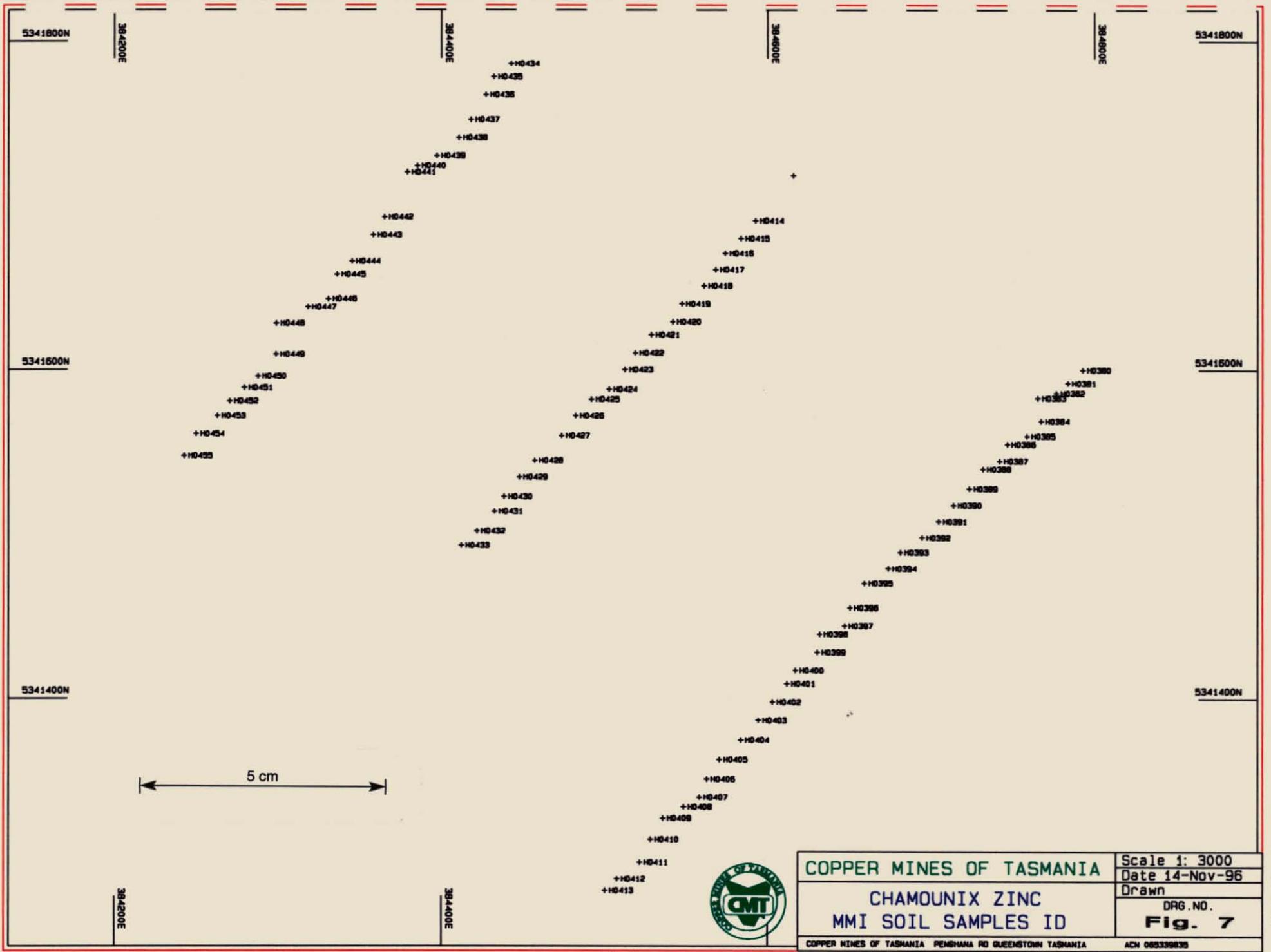
In the absence of a definitive target generated by the MMI survey, two shallow percussion holes were drilled under the Cemetery Creek mineralised outcrop to test the nature of the black clay/shale and the zinc grades in the shallow subsurface. The drilling results are reported in Section 3.4.

Chamounix Zinc prospect assay and survey data are attached in Appendix 1.

3.2 *Burbury Volcanics Prospect*

Reconnaissance mapping and sampling located several small outcrops of silica, magnetite-hematite, pyrite altered lower Tyndall Group (Comstock Formation) quartz feldspar phyric volcanoclastics, in the central southern part of the prospect area.

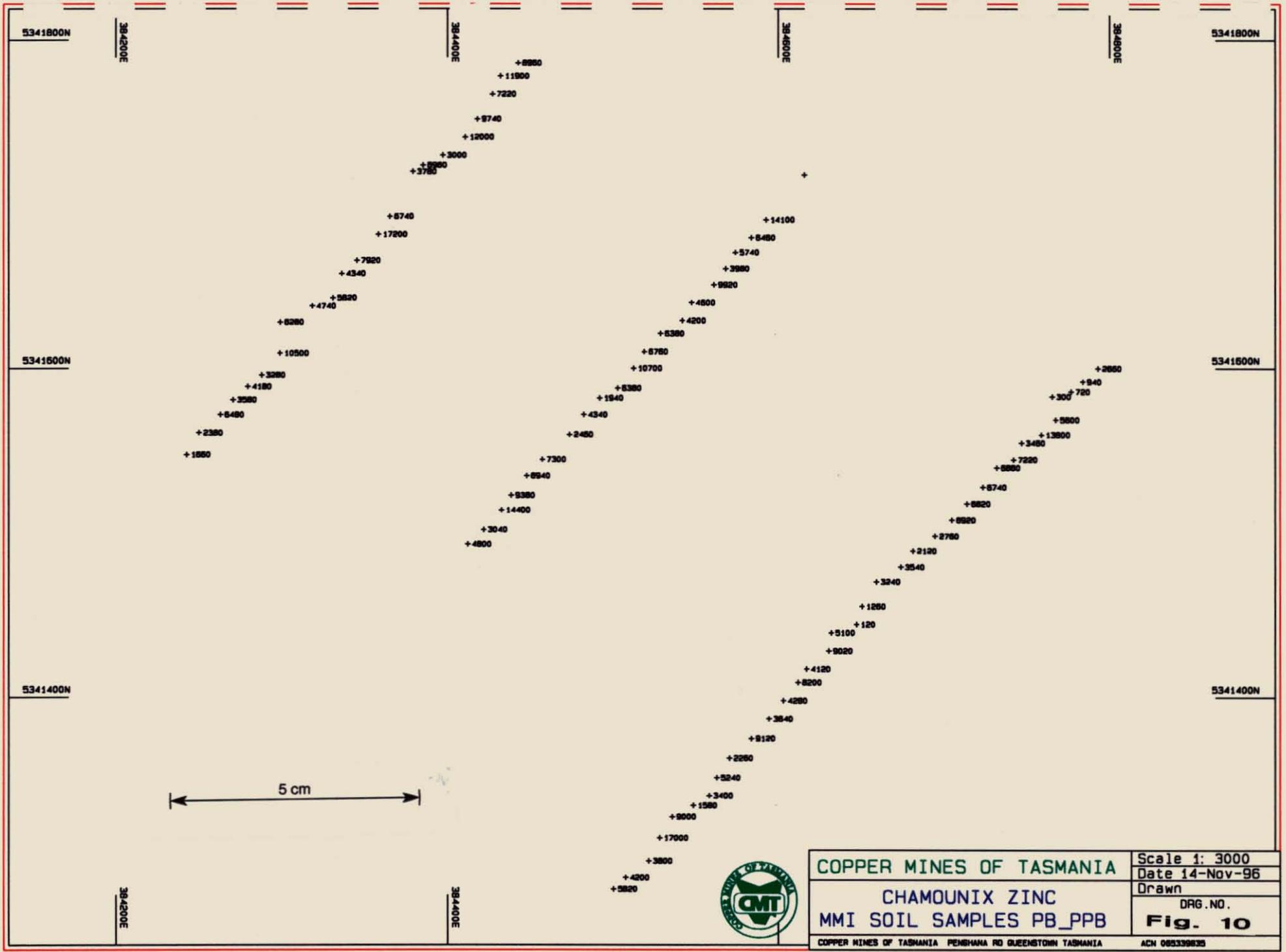
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COPPER MINES OF TASMANIA		Scale 1: 3000
		Date 14-Nov-96
CHAMOUNIX ZINC MMI SOIL SAMPLES ID		Drawn
		DRG. NO.
		Fig. 7
COPPER MINES OF TASMANIA PENHANA RD QUEENSTOWN TASMANIA		ACN 06339833

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COPPER MINES OF TASMANIA		Scale 1: 3000
CHAMOUNIX ZINC		Date 14-Nov-96
MMI SOIL SAMPLES PB_PPB		Drawn
COPPER MINES OF TASMANIA PENGHANA RD QUEENSTOWN TASMANIA		DRG. NO.
ACN 085339835		Fig. 10

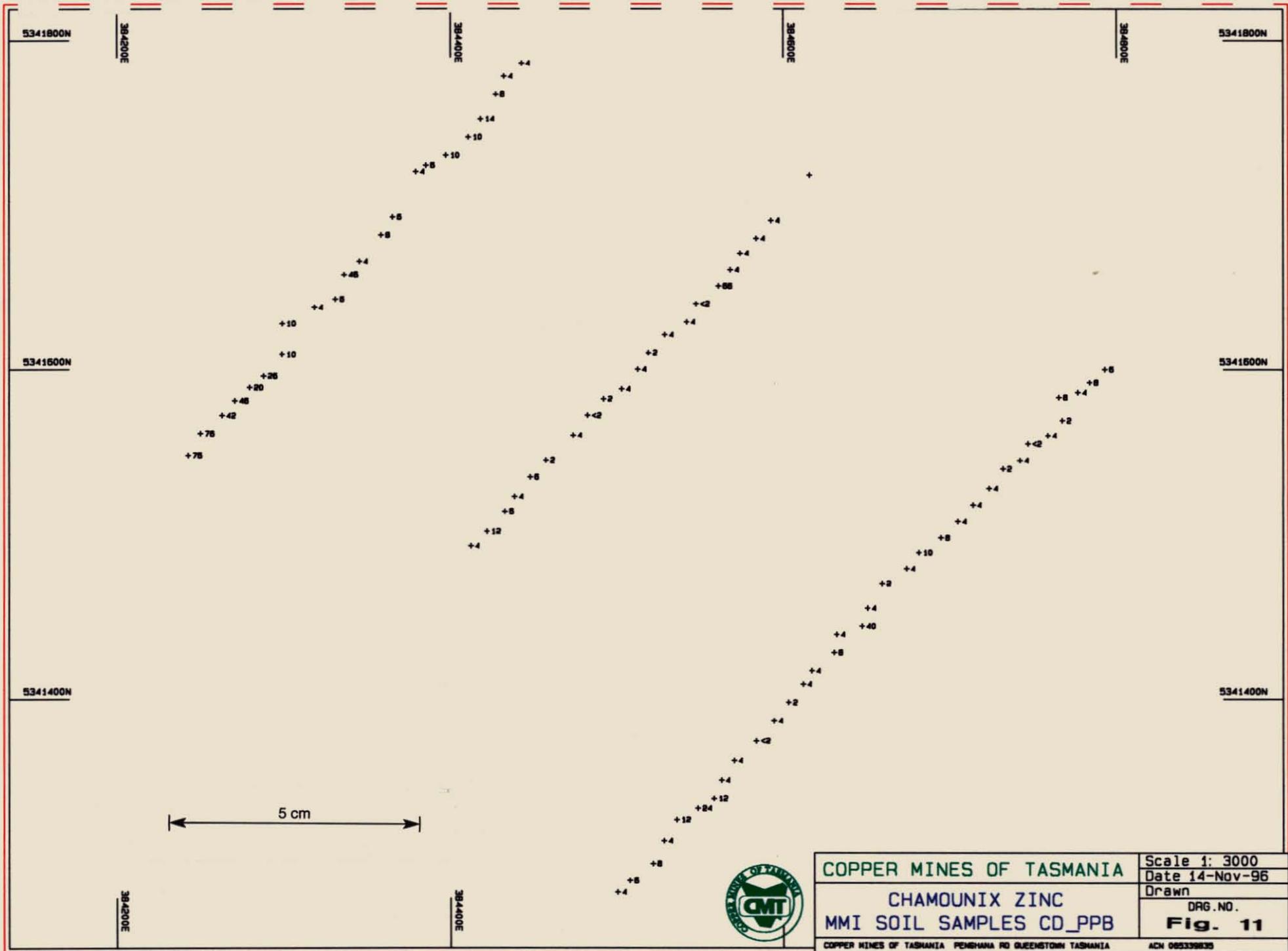
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Rock chip samples from the alteration returned values up to 0.3 - 0.6 ppm Au, 0.1 - 0.3 % Cu, and 0.1 - 0.3 % Pb (Appendix 2). A grid is currently being cut over the prospect and a program of mapping, geochemistry and geophysics will be conducted in Licence Year 3.

A stream sediment survey was completed over the prospect area. Twenty six drainage sites on Tyndall Group bedrock were sampled with both pan concentrates and -80# wet sieve fractions (Maps 3, 4). Base metal and indicator element anomaly thresholds were picked from log normal probability plots and any gold value > 5 ppb was considered anomalous and requiring explanation (Maps 3 - 6)

Pan Concentrate	Anomaly Thresholds
	Pb 48 ppm
	Zn 105 ppm
	Mn 325 ppm
-80# wet	
	Pb 25 ppm

Although the streams are incised into Tyndall Group bedrock, much of the bed load sediment is derived from Owen Conglomerate talus off Mt Lyell and reworked glacial tills, therefore detrital gold could be widespread and characterised by high nugget effect in its distribution. Consequently gold + base metal / indicator element associations occurring in both pan concentrates and -80# fractions are considered more likely to be genuinely reflecting bedrock than some of the non repeated gold-only anomalies. Two sample sites (H054, 058 and 056, 060) showed highly anomalous arsenic values of 221 and 233 ppm (pan concentrates) and 164 and 188 ppm (-80#), as well as strong gold anomalies. Background arsenic values range from 2-17ppm for pan concentrates and from 6-40ppm for the -80#.

It is also recognised that background levels for drainage on the upper Tyndall Group and lower Tyndall Group rock types have not yet been established. This may account for the prevalence of lead anomalies in creeks draining the upper Tyndall (Zig Zag Hill Formation) lithic/volcaniclastics.

The main features interpreted from the two data sets and requiring follow up were:

- a group of Au-As and base metal anomalies in the southwest of the prospect area
- a group of gold and base metal anomalies in the major southeasterly flowing drainage in the central part of the prospect area.

Geological Survey mapping on the Queenstown 1:25,000 sheet shows that the northwesterly plunging folded and faulted sequence of Tyndall Group rocks (and possibly underlying Eastern Sequence volcanic schists) dips beneath the Owen Conglomerates capping Mt Lyell. By analogy with Comstock (and possibly Henty) a favourable horizon for ore formation is near to the base of the Tyndall Group and therefore any updip metal leakage could be detected by surface sampling within the prospect area. Follow up exploration of both the rock chip and stream sediment anomalies will be aimed at that concept.

Assay and survey data for the Burbury Volcanics prospect are attached in Appendix 2.

3.3 King Lyell Copper Clays Prospect

The prospect was mapped and sampled (Map 7) confirming the fact that significant copper grades are confined to zones of lateritic alteration of black clays and heavily weathered shales which stratigraphically overly sandstones and lutites of the upper Pioneer Beds. The Haulage Unconformity is well exposed in Cooneys Creek at the western side of the prospect area, where the Pioneer Beds are a fining - up sequence of basal hematitic quartz conglomerate with variable chromite and secondary ?fuchsite, overlain by bioturbated, chromite-bearing quartz sandstones. The sequence has a vertical thickness of approximately 10 metres. The black clay host unit for the copper clays is preserved in the core of a tight, plunging syncline with some fault displacement apparent at about the position of Cooneys Creek.

A small drilling program was planned to test the grade and geometry of the down plunge extent of the mineralisation. The drilling results are described in section 3.4 and all King Lyell assay and survey data are attached in Appendix 3.

3.4 Drilling Report

Five holes (299 metres) of reverse circulation percussion drilling were completed at King Lyell and Cemetery Creek between 23 August and 28 August 1996 (Maps 1 & 7).

Both prospects required orientation drilling with two aims.

- i) To follow up surface mapping and sampling which had encountered outcropping copper and zinc mineralisation at King Lyell and Cemetery Creek respectively
- ii) To test the percussion drilling method on the soft clay rich host rocks at both sites, in topographic settings predicted to produce substantial ground water flows.

Drilling

Diamond Drilling Tasmania Pty Ltd (DDT) of Zeehan were contracted to drill all holes, using a track mounted UDR650 rig with a separate track mounted Sullair 350 psi/900cfm compressor.

Drill pad earthworks at Cemetery Creek were carried out during the rehabilitation of Costean - 1 in March 1996. No site preparation was required at King Lyell and no mechanised rehabilitation was required at either site.

Precollars of 5-6 metres were rotary air drilled with a 6 inch tricone and cased with uncemented PVC, except in 96CZC-0001 which required 5 metres of steel casing cemented into the surficial gravels. A 4.75 inch TRC42 face sampling bit was used with the hammer drilling and a 4.5 inch Drillquip Kitbit (a non percussion blade type rotary RC method) was unsuccessfully tried in 96CZC-0002, for 6 metres.

The three King Lyell holes were vertical and the Cemetery Creek holes were both declined at 60° from horizontal.

All holes produced substantial ground water flows at shallow depths. Water injection and detergent foam was added to all holes to reduce blockages in the sample return system

Sampling, Assaying, Survey

Cyclone samples were collected every metre into polyweave sacks and ~ 1.5kg representative splits were taken by hand into calico bags, from every metre through potentially unmineralised zones and as 2 metre composite splits in the unmineralised intervals.

Sample preparation and assaying were carried out by Analabs. Base metals were assayed by mixed acid digest - AAS and gold by fire assay fusion - AAS.

Assay sheets and drilling logs are attached in Appendices 3 and 4. Collar locations were surveyed by the mine survey section.

Results and Discussion

a) King Lyell Copper Clays

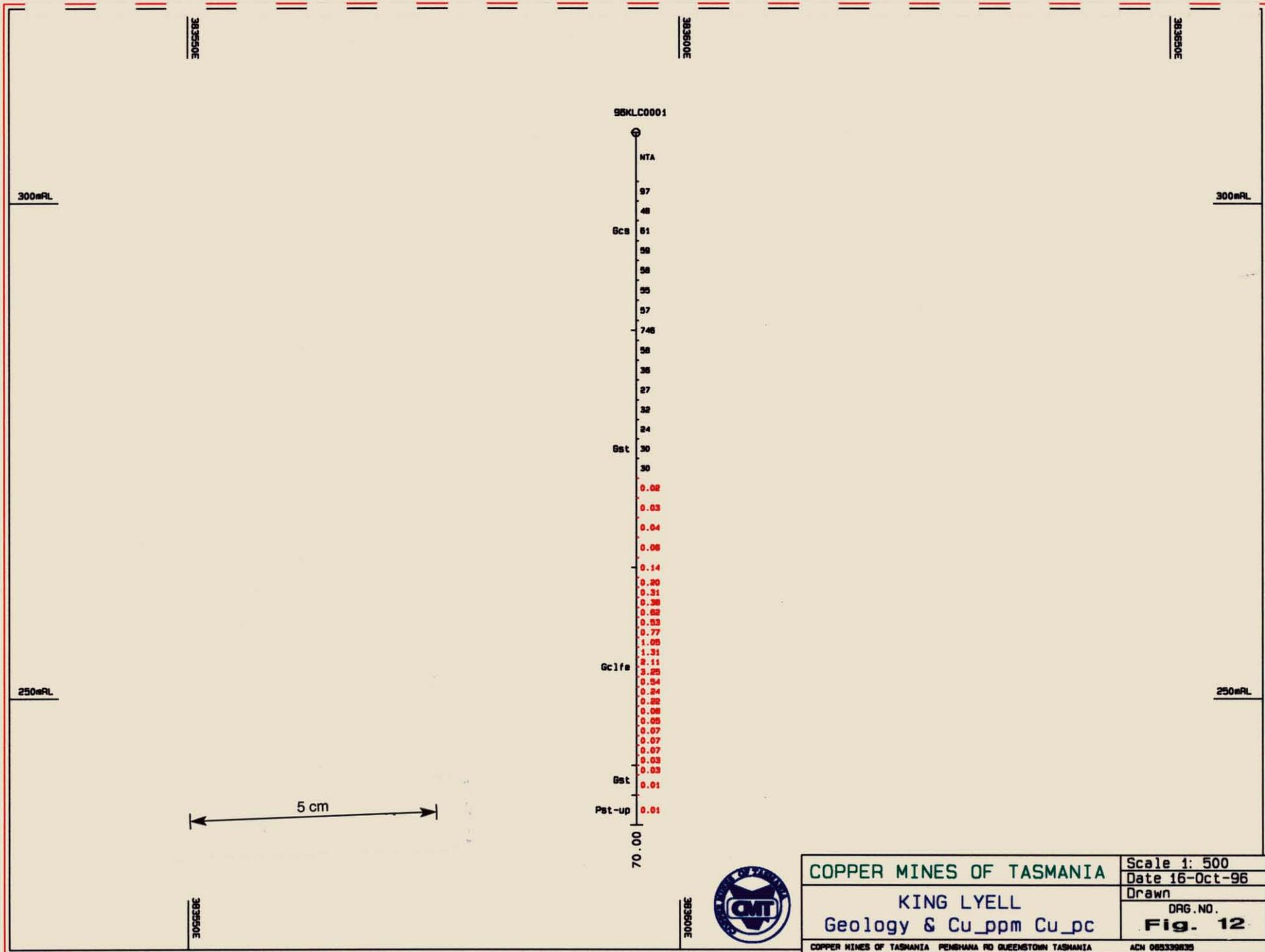
Figures 12 - 14 show that all three holes drilled Gordon Group sandstones, siltstone (in part indurated to a flinty lithology) and decomposed black shale above Pioneer Beds basement, at depths of 60-70 metres. This confirmed the tight synclinal structure plunging east - southeast as indicated by the surface geology and reconstruction of previous exploration and mining data by Wills (1995).

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5 cm



COPPER MINES OF TASMANIA
KING LYELL
Geology & Cu_ppm Cu_pc

Scale 1: 500
 Date 16-Oct-96
 Drawn
 DRG. NO.
Fig. 12

COPPER MINES OF TASMANIA PEMHANA RD QUEENSTOWN TASMANIA

ACN 06339835

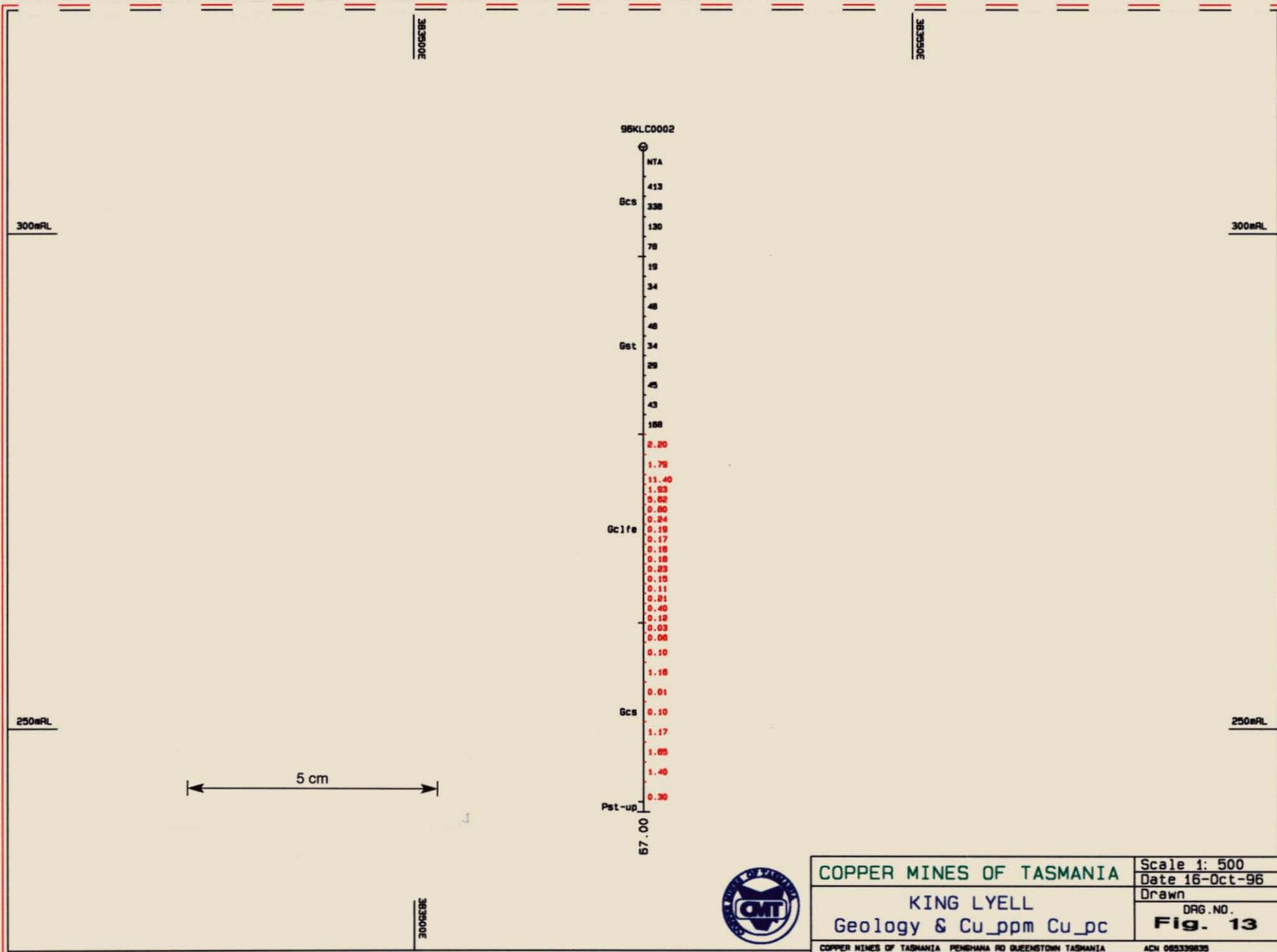
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COPPER MINES OF TASMANIA

KING LYELL
Geology & Cu_ppm Cu_pc

COPPER MINES OF TASMANIA PENHANA RD QUEENSTOWN TASMANIA

Scale 1: 500
Date 16-Oct-96

Drawn
DRG. NO.
Fig. 13

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Significant mineralisation (Table 6) is confined to a lower black clay unit which is overprinted by a yellow brown to red brown lateritic clay in holes 96KLC-0001 and -0002. This unit correlates with outcropping copper clays further upslope and appears to pinch out abruptly to the south, being totally absent in 96KLC-0003.

Table 6
King Lyell Copper Clays - Significant Intersections

Prospect	Hole Id	From (m)	To (m)	Interval (m)	Grade	Cutoff Grade
King Lyell	96KLC-0001	48	56	8	1.27% Cu	0.5%
King Lyell	96KLC-0002	29	37	8	3.47% Cu	0.5%
King Lyell	96KLC-0003	No Intersections				

Figures 12 and 13 show high variability of grades so nugget effects will be important in estimating average grades.

Sand - granule sized particles of native copper together with probable crystalline chalcocite and earthy cuprite were logged through the ferruginous clay intervals. The native copper is metastable, converting entirely to blue grey earthy ? cuprite when samples are dried and allowed to oxidise. This phenomenon was also observed in outcropping mineralisation at King Lyell where new precipitates of dendritic crystalline native copper are growing locally in wet ferruginous clay. A metallurgical study of the mineralogy is required prior to further exploration.

Drill sample recovery was a serious problem and needs attention. Some samples within the mineralised intervals were of reasonable size and there was no evidence of a pattern in the assays, controlled by sample size. Nevertheless future work needs to achieve higher sample recoveries. Abundant ground water and very soft clayey rocks result in much of the sample being converted to muddy water, some of which stays in the ground and some is circulated up to the cyclone. It is possible to catch and settle out all water returned to the cyclone but difficult to do in practice because of the large volumes of water to handle. Air coring is worth trying, although it would not penetrate the sandstone overburden so would require a change to smaller diameter RC air core system at the top of the mineralised clays. The driller has subsequently suggested in writing that a 40-50 viscosity mud injection with percussion drilling may reduce sample wash without interfering with hammer performance.

b) Chamounix Zinc

The two hole section on Figure 15 shows that barren fresh limestone underlies mineralised black clay/shale and that the contact has an apparent dip of 60° NE.

The mineralisation (Table 7) appears to be stratabound but is associated with abundant brecciated vein quartz, so may be partly structurally controlled. Deeper drilling is needed to test the nature of the possible structure (fault or tight syncline) and to test whether higher zinc grades exist in the black shales below the weathered zone.

Table 7
Chamounix Zinc- Significant Intersections

Prospect	Hole Id	From (m)	To (m)	Interval (m)	Grade	Cutoff Grade
Chamounix Zinc	96CZC-0001	19	32	13	1.68% Zn	1%
Chamounix Zinc	96CZC-0002	12	24	12	2.43% Zn	1%

The Chamounix Zinc host rock is the same unit hosting the copper clays at King Lyell. Similar drilling problems were encountered at both sites, with soft clay and abundant ground water resulting in poor recovery of solids in the black shales at Cemetery Creek.

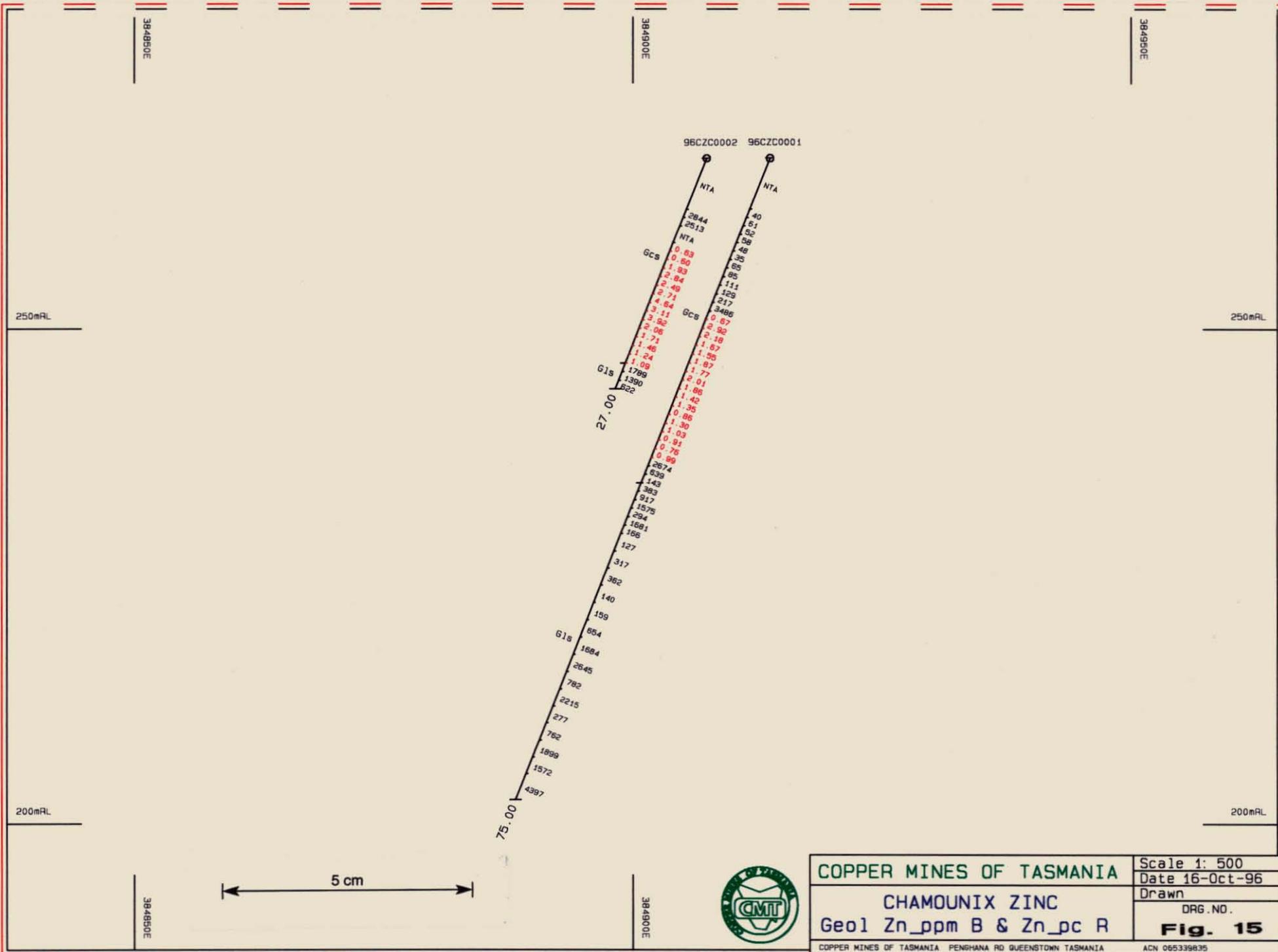
Conclusions and Recommendations

The drilling program successfully intersected significant mineralisation at both prospects and answered important questions about the stratigraphy and structure controlling mineralisation. This was achieved at 12% under budget.

The drilling method used was fast and showed no signs of significant in-hole contamination but sample recovery was too small, due to the combined effects of ground water and injected water washing clays into a suspension slurry.

It is recommended that at King Lyell the next stage of work should be a metallurgical study on the outcropping copper clays, followed by a judgment on the likely economic and environmental feasibility of a copper clays project. If the answer is positive, King Lyell should be completely drilled out, followed by a project of mapping and drilling on the other known and potential copper clays targets.

Chamounix Zinc requires at least one further drill intersection of the mineralised black shale at Cemetery Creek, down dip from and less weathered than the 96CZC-0001 intersection. A vertical hole collared at 96CZC-0001 should intersect the limestone at about 70 metres. During the drilling of the upper half of this hole the aircore and mud injection percussion methods should be tested.



5 cm



COPPER MINES OF TASMANIA		Scale 1: 500
CHAMOUNIX ZINC		Date 16-Oct-96
Geol Zn_ppm B & Zn_pc R		Drawn
COPPER MINES OF TASMANIA PENRHANA RD QUEENSTOWN TASMANIA		DRG. NO.
ACN 065339835		Fig. 15

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4. Year 3 Work Program

Exploration will continue on all prospects. Grid based mapping, soil geochemistry, magnetics and electrical geophysics will be conducted at Burbury Volcanics with the aim to generate at least one drilling target during Licence Year 3

Further percussion drilling is required at Chamounix Zinc to test the nature of mineralised black clay below the base of intense weathering. Seismic reflection is under consideration to resolve the geometry of the apparent structural intersection at Cemetery Creek.

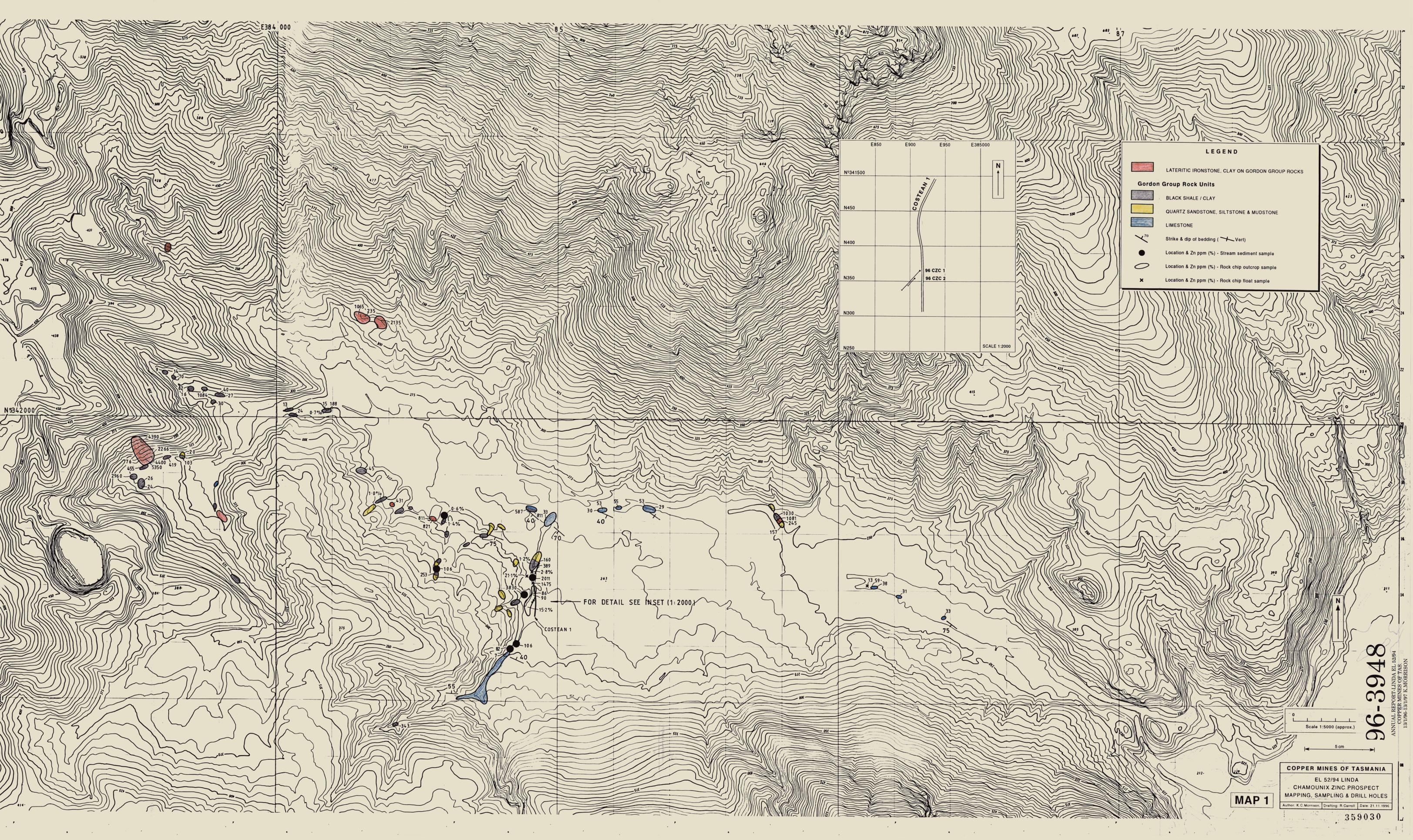
Pending a positive result to a metallurgical study of the outcropping mineralisation at King Lyell, an appropriate program of mapping, sampling, and drilling will be implemented at King Lyell, Lyell Consols and Lyell Blocks.

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Blainey, G. 1967. The Peaks of Lyell. 341 p

Morrison, K.C., Wills, K.J.A., and Cordery. G.R., 1995. CMT Pty Ltd EL 52/94 Annual Report Year 1. 3 Volumes. T1995-024

Wills, K.J.A., 1995. Open Cut Potential of the Copper Clays Area, Mount Lyell, Tasmania. 1995-050



LEGEND

- LATERITIC IRONSTONE, CLAY ON GORDON GROUP ROCKS

Gordon Group Rock Units

- BLACK SHALE / CLAY
- QUARTZ SANDSTONE, SILTSTONE & MUDSTONE
- LIMESTONE

- Strike & dip of bedding (\perp Vert)
- Location & Zn ppm (%) - Stream sediment sample
- Location & Zn ppm (%) - Rock chip outcrop sample
- Location & Zn ppm (%) - Rock chip float sample

Inset Map: COSTEAN 1

Grid: E850, E900, E950, E385000; N341500, N450, N400, N350, N300, N250

Scale: 1:2000

Labels: 96 CZC 1, 96 CZC 2

FOR DETAIL SEE INSET (1:2000)

Scale 1:5000 (approx.)

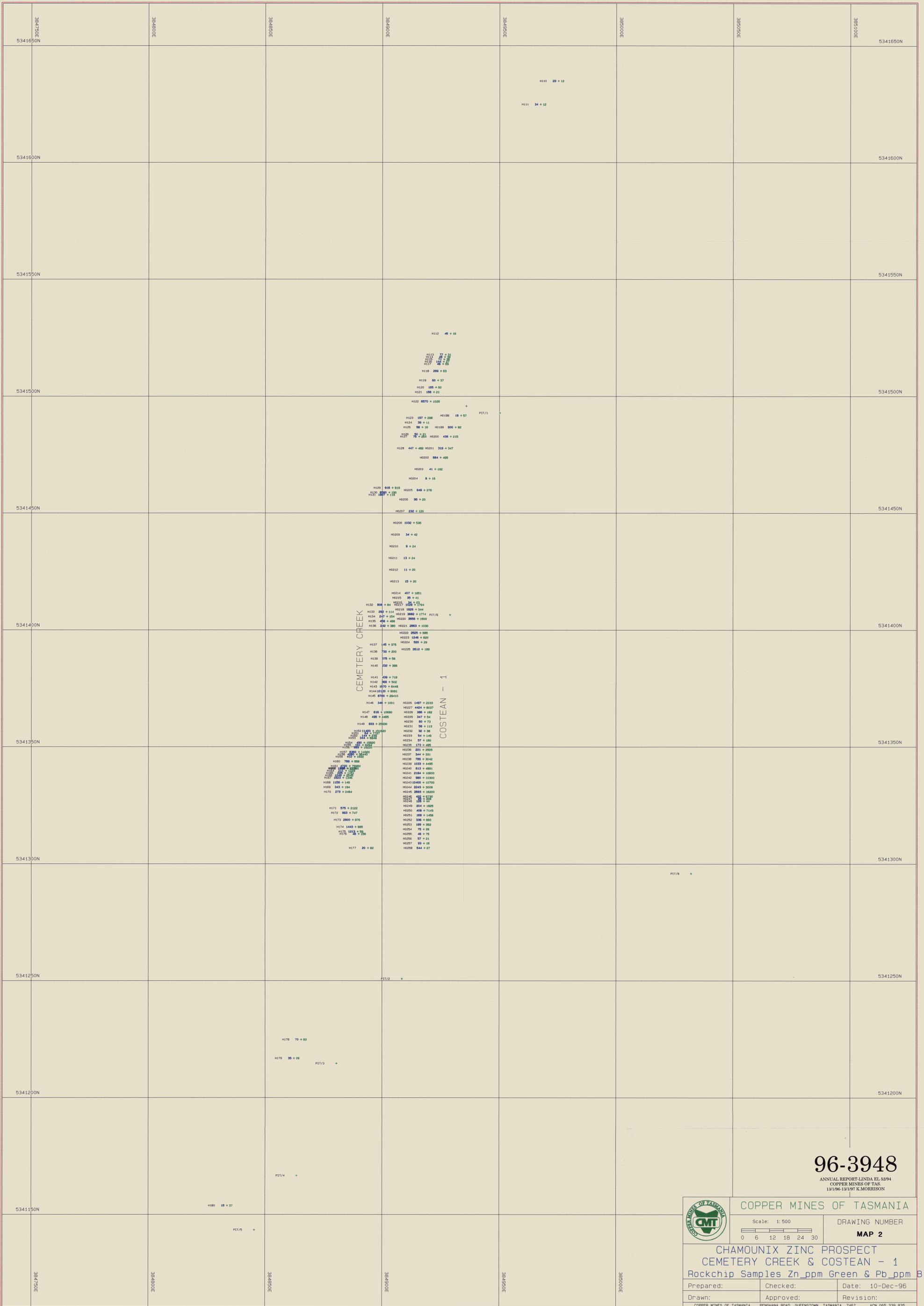
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96-3948
 ANNUAL REPORT-LINDA EL 5294
 13/08/96-19/09/97 K. MORRISON

MAP 1

COPPER MINES OF TASMANIA
 EL 52/94 LINDA
 CHAMOUNIX ZINC PROSPECT
 MAPPING, SAMPLING & DRILL HOLES
 Author: K.C. Morrison, Drafting: R. Carroll, Date: 21/11/1996

359030



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ANNUAL REPORT-LINDA EL 52/94
 COPPER MINES OF TAS.
 13/1/96-13/1/97 K.MORRISON



COPPER MINES OF TASMANIA

Scale: 1:500
 0 6 12 18 24 30

DRAWING NUMBER
MAP 2

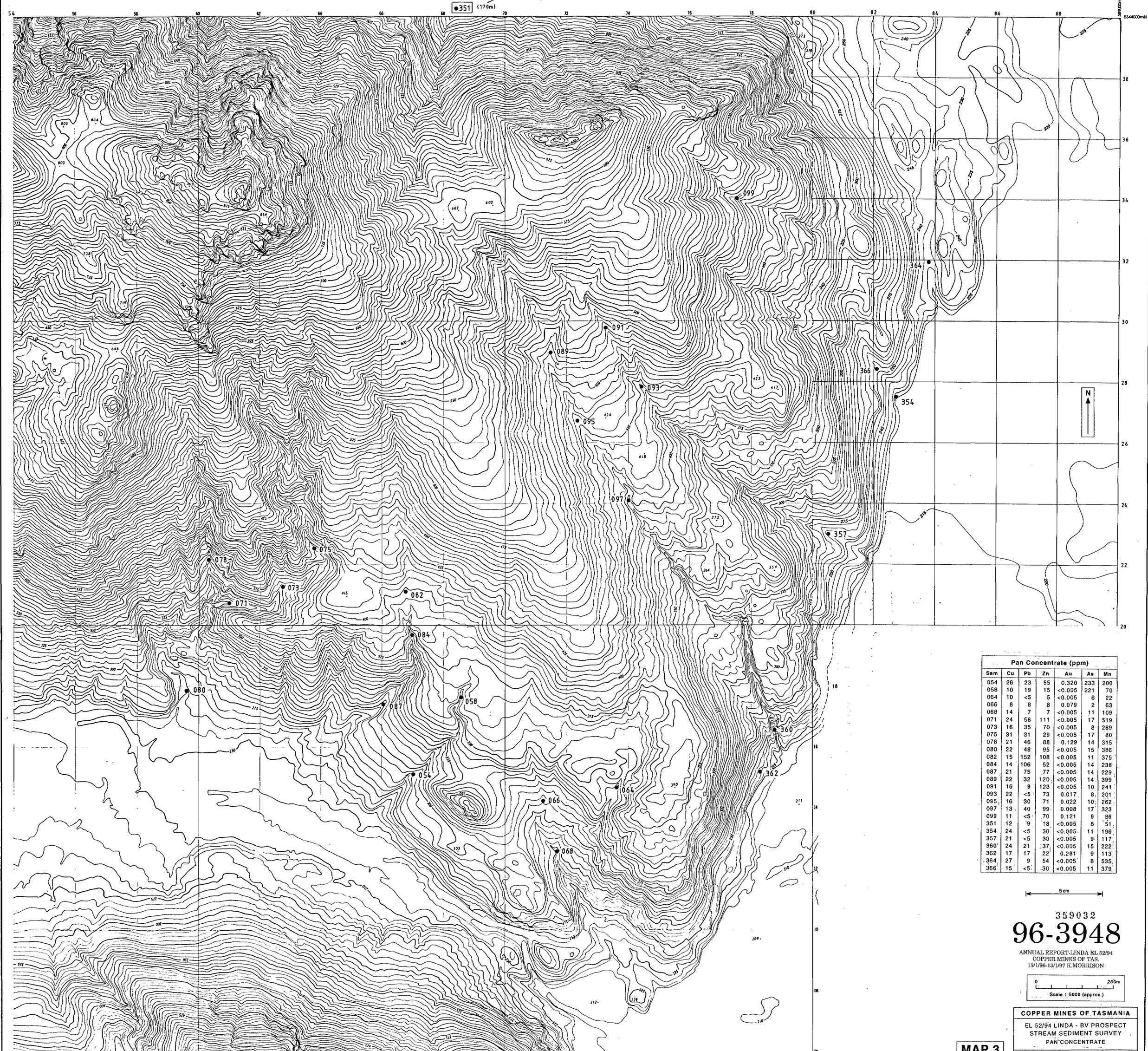
**CHAMOUNIX ZINC PROSPECT
 CEMETERY CREEK & COSTEAN - 1
 Rockchip Samples Zn_ppm Green & Pb_ppm Blue**

Prepared:	Checked:	Date: 10-Dec-96
Drawn:	Approved:	Revision:

COPPER MINES OF TASMANIA PENGHANA ROAD, QUEENSTOWN, TASMANIA, 7467. ACN 065 339 635



359031

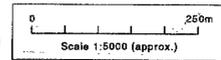


Pan Concentrate (ppm)						
Sam	Cu	Pb	Zn	Au	As	Mn
054	26	23	55	0.320	233	200
058	10	19	15	<0.005	221	70
064	10	<5	5	<0.005	6	22
066	8	8	7	0.079	2	63
068	14	7	7	<0.005	11	109
071	24	58	111	<0.005	17	519
073	16	35	70	<0.005	8	289
075	31	31	29	<0.005	17	80
078	21	46	88	0.129	14	315
080	22	48	95	<0.005	15	386
082	15	152	108	<0.005	11	375
084	14	106	52	<0.005	14	238
087	21	75	77	<0.005	14	229
089	22	32	120	<0.005	10	241
091	16	9	123	<0.005	10	241
093	22	<5	73	0.017	8	262
095	16	30	71	0.022	10	262
097	13	40	99	0.008	17	329
099	11	<5	70	0.121	9	88
351	12	9	18	<0.005	8	51
354	24	<5	30	<0.005	11	196
357	21	<5	30	<0.005	9	117
360	24	21	37	<0.005	15	222
362	17	17	22	0.281	9	113
364	27	9	54	<0.005	8	535
366	15	<5	30	<0.005	11	379

5cm

359032
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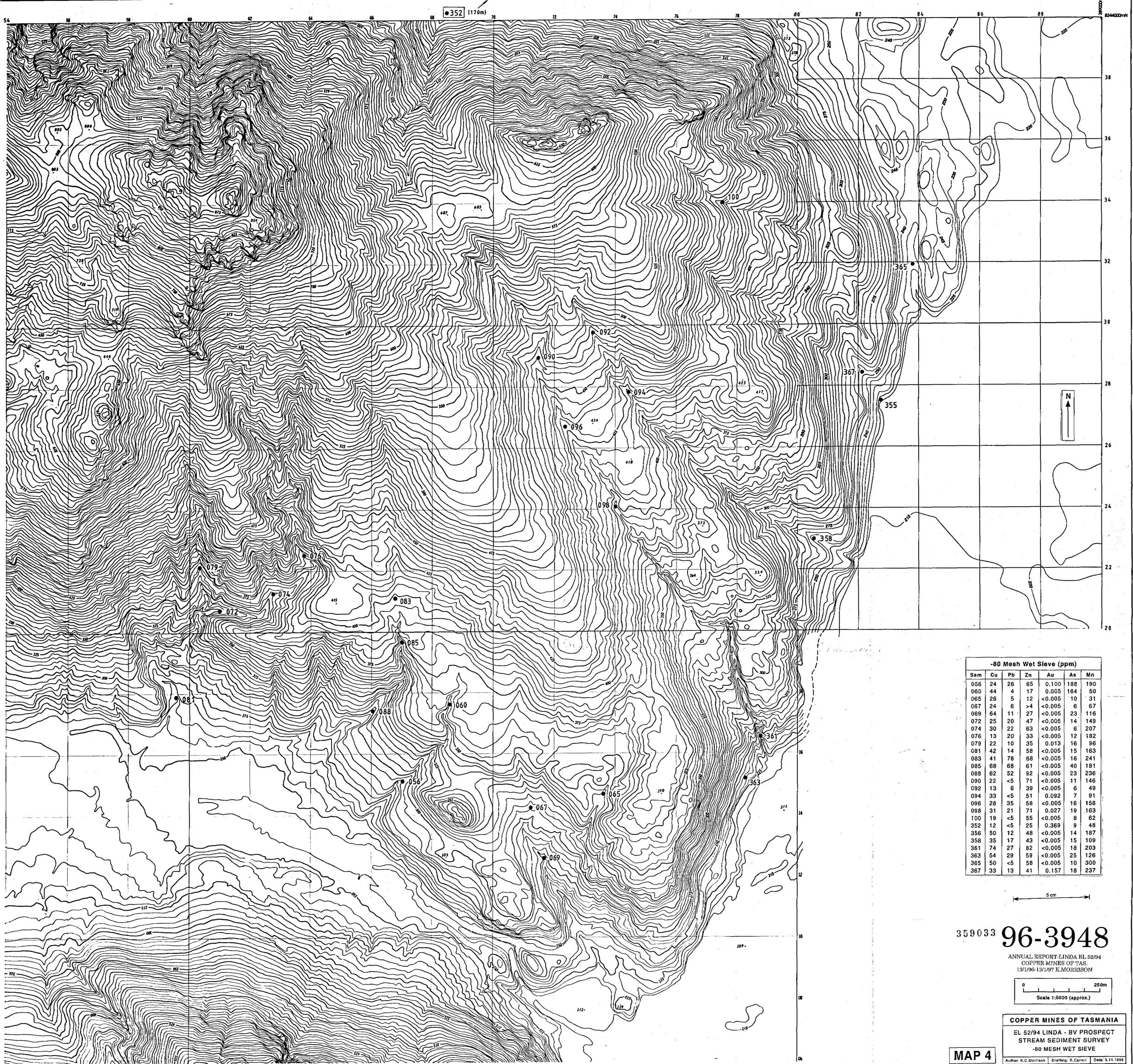
ANNUAL REPORT-LINDA EL 52/94
 COPPER MINES OF TAS.
 19/196-13/197 K.MORRISON



COPPER MINES OF TASMANIA
 EL 52/94 LINDA - BV PROSPECT
 STREAM SEDIMENT SURVEY
 PAN CONCENTRATE

MAP 3

Author: K.C. Morrison | Drafting: R. Carroll | Date: 3/11/1994



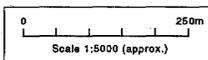
-80 Mesh Wet Sieve (ppm)

Sam	Cu	Pb	Zn	Au	As	Mn
056	24	26	65	0.100	188	190
060	44	4	17	0.005	164	50
065	26	5	12	<0.005	10	31
067	24	6	>4	<0.005	6	67
069	64	11	27	<0.005	23	116
072	25	20	47	<0.005	14	149
074	30	22	63	<0.005	6	207
076	13	20	33	<0.005	12	182
079	22	10	35	0.013	16	96
081	42	14	58	<0.005	15	163
083	41	78	68	<0.005	16	241
085	68	68	61	<0.005	40	181
088	62	52	92	<0.005	23	236
090	22	<5	71	<0.005	11	146
092	13	6	39	<0.005	6	49
094	33	<5	51	0.092	7	91
096	28	35	58	<0.005	16	156
098	31	21	71	0.027	19	163
100	19	<5	55	<0.005	8	62
352	12	<5	25	0.369	9	48
356	50	12	48	<0.005	14	187
358	35	17	43	<0.005	15	109
361	74	27	82	<0.005	18	209
363	54	29	59	<0.005	25	126
365	50	<5	58	<0.005	10	300
367	33	13	41	0.157	18	237

5 cm

359033 **96-3948**

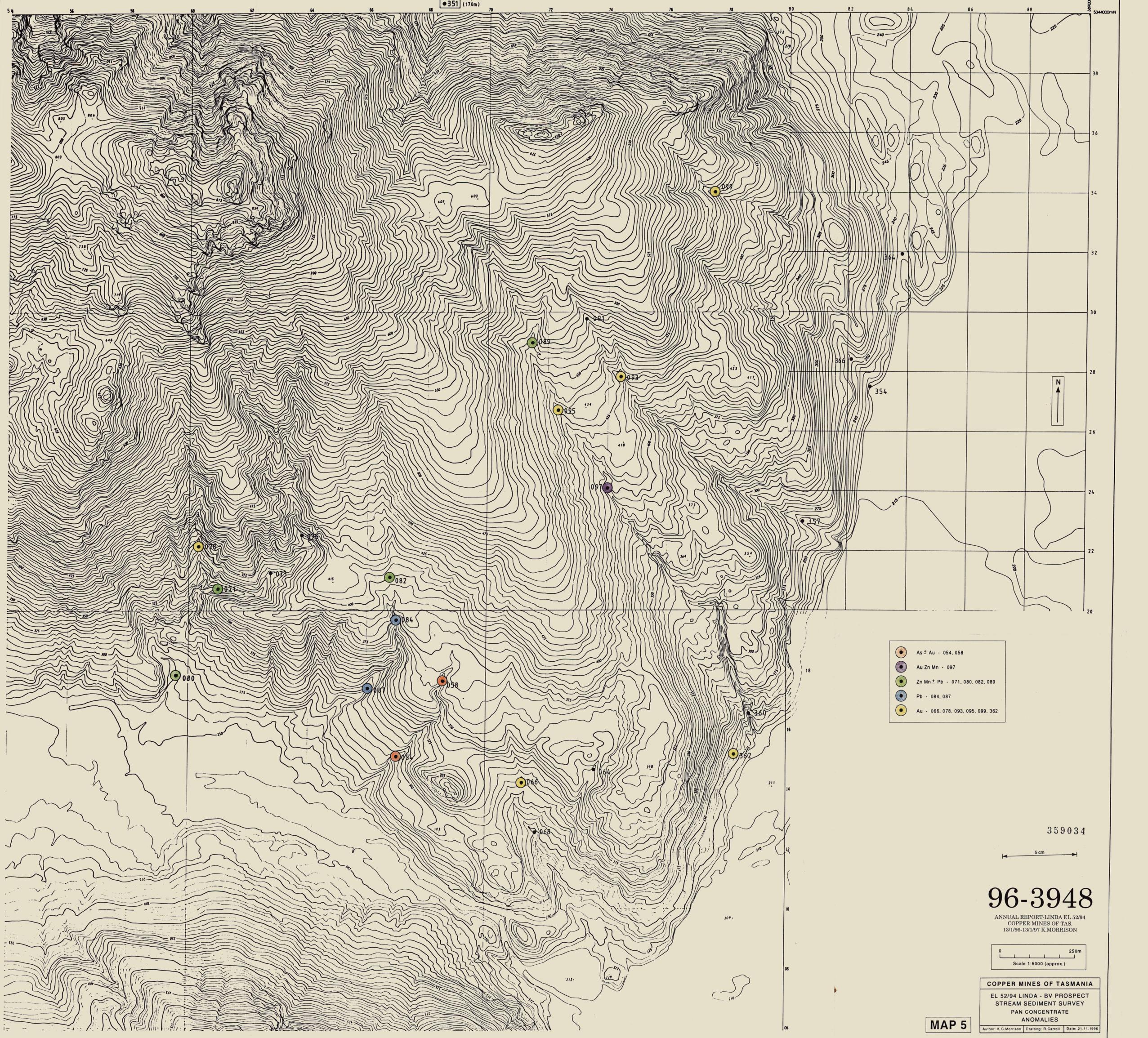
ANNUAL REPORT-LINDA EL 52/94
COPPER MINES OF TAS.
13/1/96-13/1/97 K.MORRISON



COPPER MINES OF TASMANIA
EL 52/94 LINDA - BV PROSPECT
STREAM SEDIMENT SURVEY
-80 MESH WET SIEVE

MAP 4

Author: K.C. Morrison | Drafting: R. Carrell | Date: 3.11.1998



● 351 (170m)

- As ± Au - 054, 058
- Au Zn Mn - 097
- Zn Mn ± Pb - 071, 080, 082, 089
- Pb - 084, 087
- Au - 066, 078, 093, 095, 099, 362

359034

5 cm

96-3948

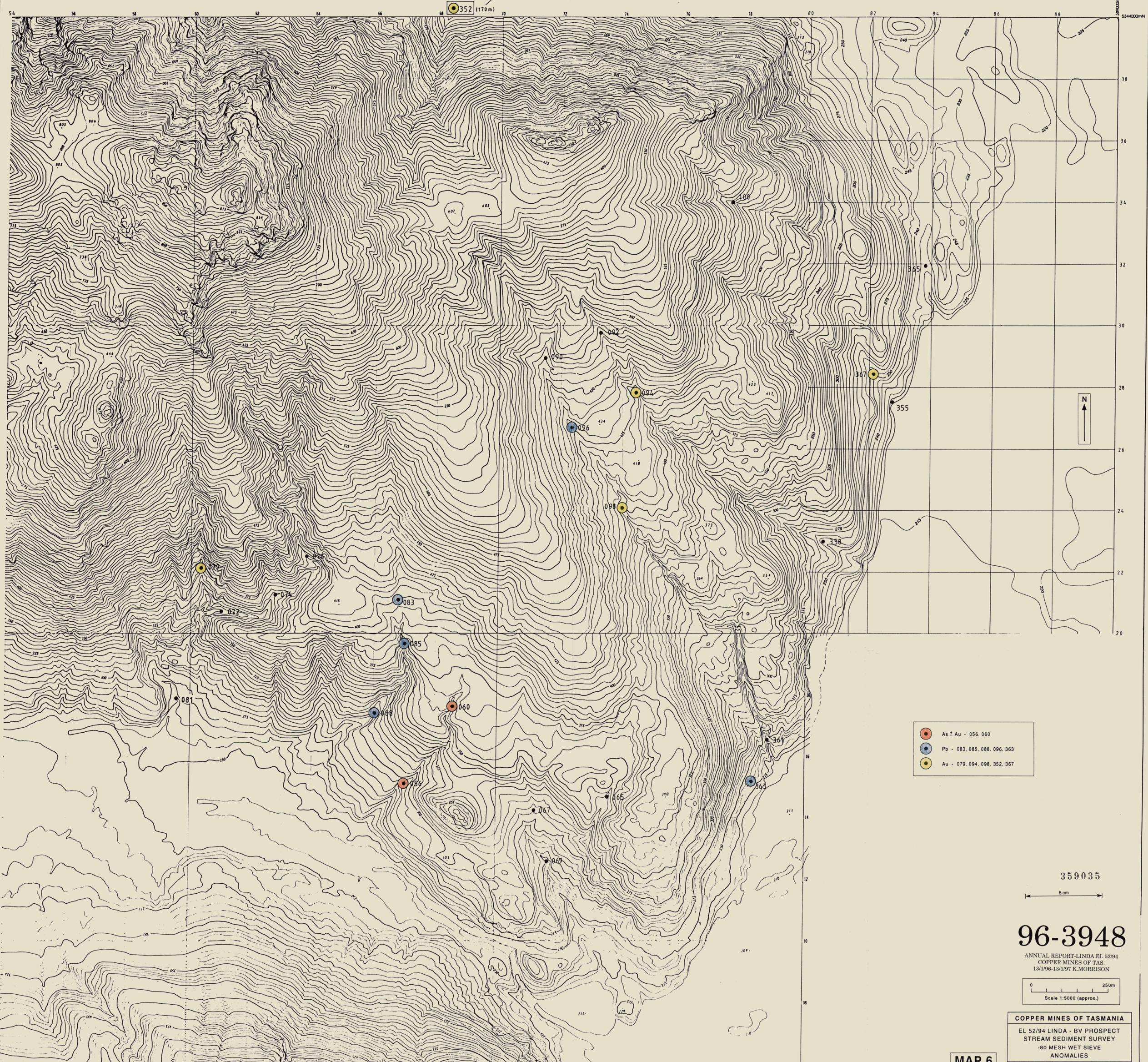
ANNUAL REPORT-LINDA EL 52/94
 COPPER MINES OF TAS
 13/1/96-13/1/97 K.MORRISON

0 250m
 Scale 1:5000 (approx.)

COPPER MINES OF TASMANIA
 EL 52/94 LINDA - BV PROSPECT
 STREAM SEDIMENT SURVEY
 PAN CONCENTRATE
 ANOMALIES

MAP 5

Author: K.C. Morrison | Drafting: R.Carroll | Date: 21.11.1996



- As ± Au - 056, 060
- Pb - 083, 085, 088, 096, 363
- Au - 079, 094, 098, 352, 367

359035
5 cm

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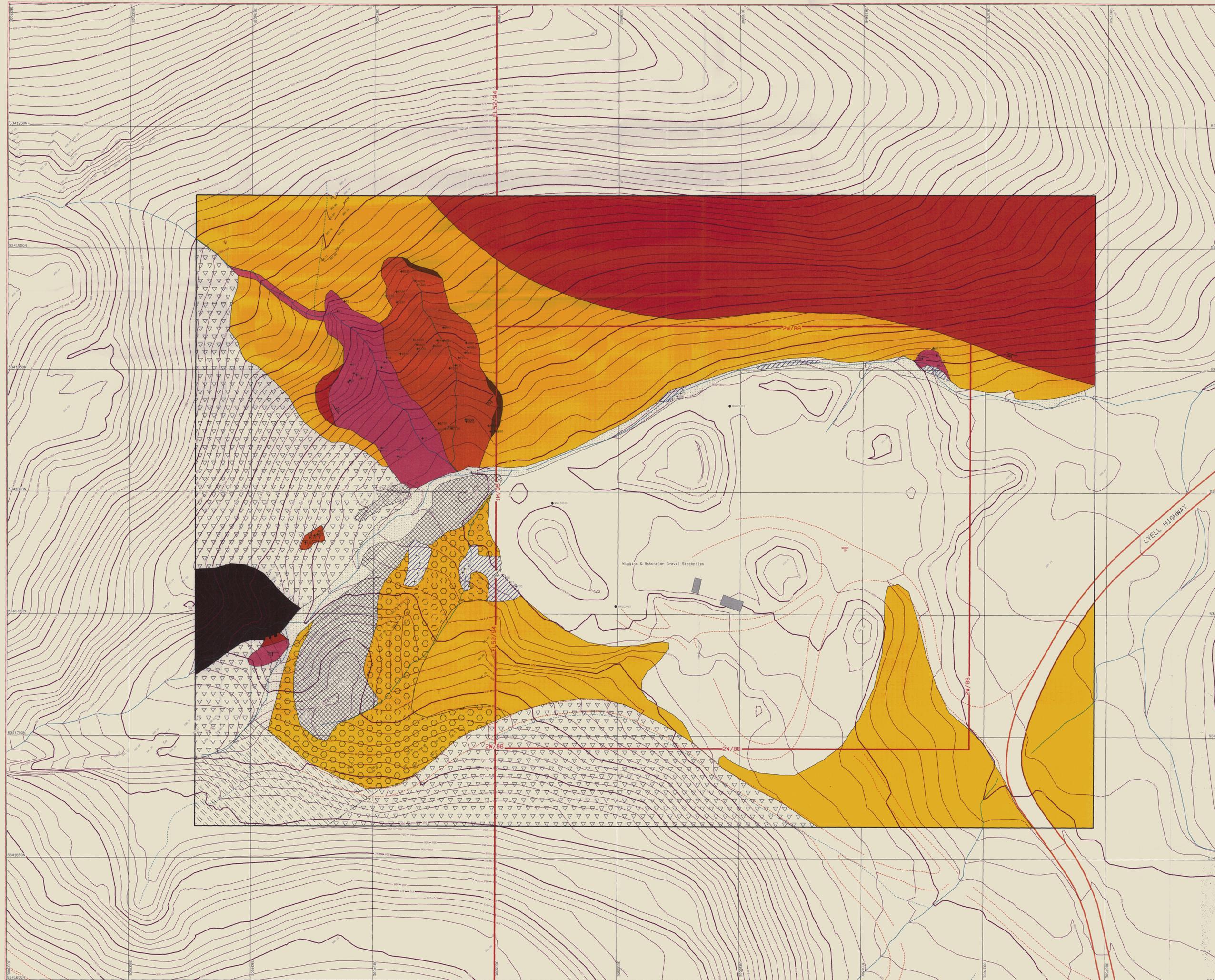
ANNUAL REPORT LINDA EL 52/94
COPPER MINES OF TAS.
13/1/96-13/1/97 K. MORRISON

0 250m
Scale 1:5000 (approx.)

COPPER MINES OF TASMANIA
EL 52/94 LINDA - BV PROSPECT
STREAM SEDIMENT SURVEY
-80 MESH WET SIEVE
ANOMALIES

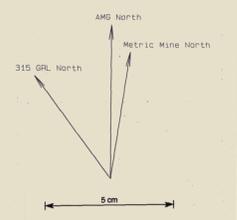
MAP 6

Author: K.C. Morrison | Drafting: R. Carroll | Date: 21.11.1996



- Area Occupied by Aggregate Operation
- Area Heavily Disturbed by Material Moving
- Alluvial Deposits & Tailings
- Waste Rock Dump - Iron Oxide
- Waste Rock & Tailings
- Waste Stockpile/Periglacial Deposits & Waste Rock
- Ferruginous Sandstone
- Ferruginous Clay
- Sandstone Clay Matrix - Spongy Ground
- Grey Quartz Sandstone - Upper Fluvial Beds
- Red Grey Quartz Conglomerate - Lower Fluvial Beds
- Sand Conglomerate
- Cupper Rock Outcrop
- Dip & Strike on Bedding
- Unconformity
- Index Contour
- Contour
- Spot Height
- Title Boundary
- Lease Boundary
- Road/Highway
- Highway
- Sealed Road
- Gravel Road
- Track
- Fence
- River
- Creek
- Open Drain
- Power and Light Pole
- Oil Drill Hole
- Pipe Line
- Building
- Miscellaneous Structure
- Pond/Dam
- Survey Pillar
- OMT Survey Station
- Survey Station
- Trig Station
- State Survey Mark
- Bench Mark

MAP 7



Copper Mines of Tasmania Pty Ltd

EL 52/94
 KING-LYELL COPPER CLAYS
 GEOLOGY, ROCK CHIPS,
 DRILL HOLE LOCATIONS

Plan Number: KL1006
 Date: 04-Dec-96
 Horizontal Datum: Australian Geodetic Datum 1984
 Vertical Datum: Australian Height Datum
 Drawn: RJ/KM
 Scale: 1:500

359036

96-3948
 ANNUAL REPORT LINDA EL 9294
 COPPER MINES OF TAS
 10/06/1997 K. ANDERSON

APPENDIX 1

CHAMOUNIX ZINC DATA

ROCKCHIP & STREAMS

Sample_id	Sample_type	Ref_north	Ref_east	Ref_grid_id	Ref_accuracy	Cu_ppm	Au_ppm	Au_ppb	Ag_ppm	Pb_pc	Pb_ppm	Zn_ppm	As_ppm	Ba_ppm	Mn_ppm	Mo_ppm	Date_sample	Tenement
H0373	ROCKCHIP	5341645.00	384595.00	AMG66_56	SCALED	41	<0.005		8	0.67		10300		318	30		1/05/96	EL52/94
H0374	ROCKCHIP	5342020.00	384170.00	AMG66_56	SCALED	14	<0.005		<1		45	24		345	15		1/05/96	EL52/94
H0375	ROCKCHIP	5341710.00	384350.00	AMG66_56	SCALED	45	<0.005		46	3.46		6651		414	13		1/05/96	EL52/94
H0376	ROCKCHIP					10	<0.005		<1		23	43		X	22		1/05/96	EL52/94
H0377	ROCKCHIP	5341640.00	384555.00	AMG66_56	SCALED	155	<0.005		3		392	821		107	12		1/05/96	EL52/94
H0378	ROCKCHIP	5341640.00	384555.00	AMG66_56	SCALED	141	<0.005		3		672	811		103	10		1/05/96	EL52/94
H0379	ROCKCHIP	5341685.00	384300.00	AMG66_56	SCALED	278	<0.005		3		2003	431		203	10		1/05/96	EL52/94
H102	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	10		3	<0.1		101	552	122	22	448	19	2/08/96	E52/94
H103	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	18		2	0.10		102	1030	174	7	472	30	2/08/96	E52/94
H104	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	8		4	0.64		137	1136	76	<1	44	28	2/08/96	E52/94
H105	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	34		4	0.70		151	1081	76	<1	83	40	2/08/96	E52/94
H106	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	<1		9	<0.1		35	22	15	40	<1	30	2/08/96	E52/94
H107	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	<1		4	<0.1		38	19	11	10	<1	3	2/08/96	E52/94
H108	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	20		2	<0.1		398	245	44	13	147	61	2/08/96	E52/94
H109	ROCKCHIP	5341649.00	385795.00	AMG66_56	SCALED	30		2	<0.1		266	385	91	11	235	26	2/08/96	E52/94
H181	ROCKCHIP	5341139.00	384862.00	AMG66_56	SCALED	<1		5	1.18		15	76	<5	550	44	8	2/08/96	E52/94
H183	STREAM	5341185.00	384848.00	AMG66_56	SCALED	<1		2	<0.1		19	106	<5	13	30	1	2/08/96	E52/94
H184	STREAM	5341158.00	384835.00	AMG66_56	SCALED	<1		1	<0.1		27	82	<5	32	18	<0.1	2/08/96	E52/94
H185	ROCKCHIP	5341650.00	384595.00	AMG66_56	SCALED	55		7	16.72		7550	14710	144	67	2	15	2/08/96	E52/94
H186	STREAM	5341650.00	384595.00	AMG66_56	SCALED	26		24	0.28		98	6387	14	28	13	<0.1	2/08/96	E52/94
H187	STREAM	5341440.00	384570.00	AMG66_56	SCALED	2		14	1.95		129	253	23	28	7	<0.1	2/08/96	E52/94
H188	ROCKCHIP	5341815.00	384300.00	AMG66_56	SCALED	<1		5	0.61		1294	45	41	41	1	<0.1	2/08/96	E52/94

CZ CEMETERY CK ROCKCHIPS

Sample id	Sample typ	Ref_north	Ref_east	Ref_el	Reg_grid_id	Ref_accuracy	Cu_ppm	Au_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	As_ppm	Ba_ppm	Mn_ppm	Mo_ppm	Date_sampled	Tenement
H110	ROCKCHIP	5341635.00	384975.20	259.35	AMG66_56	GPS	46	12	2	<0.1	29	12	16	28	<1	25	2/08/96	E52/94
H111	ROCKCHIP	5341625.00	384967.50	259.56	AMG66_56	GPS	20	12	6	4.31	34	12	20	29	<1	25	2/08/96	E52/94
H112	ROCKCHIP	5341527.00	384929.10	260.64	AMG66_56	GPS	29	16	4	5.96	46	16	18	<1	<1	39	2/08/96	E52/94
H113	ROCKCHIP	5341518.00	384927.00	260.64	AMG66_56	GPS	34	31	8	3.25	77	31	16	27	<1	16	2/08/96	E52/94
H114	ROCKCHIP	5341517.00	384926.70	260.65	AMG66_56	GPS	46	38	5	2.07	48	38	18	<1	<1	3	2/08/96	E52/94
H115	ROCKCHIP	5341516.00	384926.40	260.65	AMG66_56	GPS	77	36	4	1.44	71	36	32	18	<1	23	2/08/96	E52/94
H116	ROCKCHIP	5341515.00	384926.20	260.66	AMG66_56	GPS	48	27	6	<0.1	144	27	12	<1	<1	9	2/08/96	E52/94
H117	ROCKCHIP	5341514.00	384925.90	260.67	AMG66_56	GPS	71	69	10	0.81	46	69	20	7	<1	12	2/08/96	E52/94
H118	ROCKCHIP	5341511.00	384925.00	260.72	AMG66_56	GPS	144	63	5	<0.1	269	63	27	7	<1	48	2/08/96	E52/94
H119	ROCKCHIP	5341507.00	384923.80	260.84	AMG66_56	GPS	46	37	3	<0.1	60	37	13	<1	<1	10	2/08/96	E52/94
H120	ROCKCHIP	5341504.00	384922.90	260.93	AMG66_56	GPS	269	60	8	0.30	165	60	40	23	<1	38	2/08/96	E52/94
H121	ROCKCHIP	5341502.00	384922.00	261.01	AMG66_56	GPS	60	21	3	0.51	166	21	34	5	<1	10	2/08/96	E52/94
H122	ROCKCHIP	5341498.00	384920.60	261.09	AMG66_56	GPS	165	1029	4	5.02	6570	1029	369	26	<1	68	2/08/96	E52/94
H123	ROCKCHIP	5341491.00	384918.30	261.21	AMG66_56	GPS	166	298	4	<0.1	197	298	53	31	<1	34	2/08/96	E52/94
H124	ROCKCHIP	5341489.00	384917.70	261.25	AMG66_56	GPS	6570	11	3	<0.1	39	11	16	<1	<1	<0.1	2/08/96	E52/94
H125	ROCKCHIP	5341487.00	384917.10	261.28	AMG66_56	GPS	197	16	3	<0.1	58	16	12	35	<1	2	2/08/96	E52/94
H126	ROCKCHIP	5341484.00	384916.30	261.33	AMG66_56	GPS	39	21	8	<0.1	50	21	29	30	5	<0.1	2/08/96	E52/94
H127	ROCKCHIP	5341483.00	384915.70	261.37	AMG66_56	GPS	58	264	7	<0.1	76	264	19	25	8	<0.1	2/08/96	E52/94
H128	ROCKCHIP	5341478.00	384914.40	261.46	AMG66_56	GPS	50	482	7	<0.1	447	482	53	13	11	<0.1	2/08/96	E52/94
H129	ROCKCHIP	5341461.00	384904.40	261.98	AMG66_56	GPS	76	919	7	0.34	916	919	119	17	12	<0.1	2/08/96	E52/94
H130	ROCKCHIP	5341459.00	384903.00	262.03	AMG66_56	GPS	447	190	5	<0.1	8580	190	84	22	4	3	2/08/96	E52/94
H131	ROCKCHIP	5341458.00	384902.30	262.05	AMG66_56	GPS	916	116	4	<0.1	1887	116	28	12	22	<0.1	2/08/96	E52/94
H132	ROCKCHIP	5341411.00	384901.20	263.30	AMG66_56	GPS	8580	84	7	<0.1	808	84	8	15	11	22	2/08/96	E52/94
H133	ROCKCHIP	5341408.00	384901.80	263.35	AMG66_56	GPS	1887	114	6	<0.1	292	114	31	<1	5	<0.1	2/08/96	E52/94
H134	ROCKCHIP	5341406.00	384902.10	263.37	AMG66_56	GPS	808	154	4	<0.1	247	154	28	18	15	<0.1	2/08/96	E52/94
H135	ROCKCHIP	5341404.00	384902.30	263.37	AMG66_56	GPS	292	468	5	<0.1	468	468	63	25	6	20	2/08/96	E52/94
H136	ROCKCHIP	5341402.00	384902.50	263.39	AMG66_56	GPS	247	380	5	<0.1	242	380	44	27	4	8	2/08/96	E52/94
H137	ROCKCHIP	5341394.00	384902.90	263.57	AMG66_56	GPS	458	375	7	<0.1	145	375	36	38	4	13	2/08/96	E52/94
H138	ROCKCHIP	5341391.00	384903.00	263.65	AMG66_56	GPS	242	200	5	<0.1	732	200	47	52	5	5	2/08/96	E52/94
H139	ROCKCHIP	5341388.00	384903.20	263.70	AMG66_56	GPS	145	58	7	<0.1	375	58	12	57	6	5	2/08/96	E52/94
H140	ROCKCHIP	5341385.00	384903.30	263.71	AMG66_56	GPS	732	386	6	0.99	232	386	47	24	55	10	2/08/96	E52/94
H141	ROCKCHIP	5341380.00	384903.30	263.74	AMG66_56	GPS	375	719	5	1.18	439	719	100	57	9	6	2/08/96	E52/94
H142	ROCKCHIP	5341378.00	384903.10	263.76	AMG66_56	GPS	232	502	6	1.37	368	502	91	45	7	<0.1	2/08/96	E52/94
H143	ROCKCHIP	5341376.00	384902.90	263.75	AMG66_56	GPS	439	8449	12	3.53	1670	8449	117	35	11	7	2/08/96	E52/94
H144	ROCKCHIP	5341374.00	384902.60	263.83	AMG66_56	GPS	368	9081	14	22.01	10120	9081	79	20	5	7	2/08/96	E52/94
H145	ROCKCHIP	5341372.00	384902.20	263.87	AMG66_56	GPS	1670	29410	8	21.73	8780	29410	76	39	16	8	2/08/96	E52/94
H146	ROCKCHIP	5341369.00	384901.40	263.95	AMG66_56	GPS	10120	1001	6	2.63	346	1001	22	67	9	2	2/08/96	E52/94
H147	ROCKCHIP	5341365.00	384899.70	264.11	AMG66_56	GPS	8780	10690	7	4.40	616	10690	34	15	7	7	2/08/96	E52/94
H148	ROCKCHIP	5341363.00	384898.90	264.16	AMG66_56	GPS	346	4465	10	2.32	435	4465	33	34	6	<0.1	2/08/96	E52/94
H149	ROCKCHIP	5341360.00	384897.60	264.21	AMG66_56	GPS	616	25930	8	5.48	933	25930	96	6	32	20	2/08/96	E52/94
H150	ROCKCHIP	5341357.00	384896.20	264.23	AMG66_56	GPS	435	151820	9	19.80	11420	151820	56	26	9	20	2/08/96	E52/94
H151	ROCKCHIP	5341356.00	384895.10	264.24	AMG66_56	GPS	933	7727	11	3.54	64	7727	58	1	4	19	2/08/96	E52/94
H152	ROCKCHIP	5341355.00	384894.60	264.25	AMG66_56	GPS	11420	239	8	1.58	144	239	62	26	3	20	2/08/96	E52/94
H153	ROCKCHIP	5341354.00	384893.80	264.28	AMG66_56	GPS	64	6849	10	5.45	344	6849	100	<1	4	32	2/08/96	E52/94
H154	ROCKCHIP	5341352.00	384892.40	264.35	AMG66_56	GPS	144	15820	6	9.32	490	15820	97	34	3	18	2/08/96	E52/94
H155	ROCKCHIP	5341351.00	384891.80	264.39	AMG66_56	GPS	344	8494	15	2.83	191	8494	60	14	6	11	2/08/96	E52/94
H156	ROCKCHIP	5341350.00	384891.20	264.43	AMG66_56	GPS	490	16220	7	6.44	989	16220	42	30	8	42	2/08/96	E52/94
H157	ROCKCHIP	5341348.00	384890.10	264.53	AMG66_56	GPS	191	14320	7	25.50	8360	14320	43	<1	7	15	2/08/96	E52/94
H158	ROCKCHIP	5341347.00	384889.20	264.61	AMG66_56	GPS	989	56440	13	13.15	4280	56440	174	62	6	35	2/08/96	E52/94
H159	ROCKCHIP	5341346.00	384888.30	264.68	AMG66_56	GPS	8360	1692	6	2.85	410	1692	52	44	6	2	2/08/96	E52/94
H160	ROCKCHIP	5341344.00	384887.20	264.77	AMG66_56	GPS	4280	858	6	7.21	789	858	30	78	14	<0.1	2/08/96	E52/94
H161	ROCKCHIP	5341342.00	384886.20	264.85	AMG66_56	GPS	410	79960	11	52.77	4720	79960	133	97	4	7	2/08/96	E52/94
H162	ROCKCHIP	5341341.00	384885.40	264.91	AMG66_56	GPS	789	11360	10	5.67	696	11360	84	23	6	<0.1	2/08/96	E52/94
H163	ROCKCHIP	5341341.00	384885.10	264.92	AMG66_56	GPS	4720	3333	9	7.20	1002	3333	32	73	4	<0.1	2/08/96	E52/94
H164	ROCKCHIP	5341340.00	384884.60	264.96	AMG66_56	GPS	696	1229	6	1.83	211	1229	49	45	5	<0.1	2/08/96	E52/94
H165	ROCKCHIP	5341339.00	384884.20	264.99	AMG66_56	GPS	1002	1151	5	0.92	225	1151	60	53	12	7	2/08/96	E52/94
H166	ROCKCHIP	5341338.00	384883.80	265.02	AMG66_56	GPS	211	2545	6	1.22	1049	2545	71	77	7	<0.1	2/08/96	E52/94
H167	ROCKCHIP	5341337.00	384883.40	265.07	AMG66_56	GPS	225	1346	9	27.39	1623	1346	42	38	5	14	2/08/96	E52/94
H168	ROCKCHIP	5341335.00	384883.10	265.11	AMG66_56	GPS	1049	149	6	19.60	1156	149	9	59	2	17	2/08/96	E52/94

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CZ CEMETERY CK ROCKCHIPS

H169	ROCKCHIP	5341333.00	384883.10	265.16	AMG66_56	GPS	1623	194	6	1.76	343	194	65	58	4	6	2/08/96	E52/94
H170	ROCKCHIP	5341331.00	384883.30	265.20	AMG66_56	GPS	1156	2484	10	1.15	273	2484	95	68	2	11	2/08/96	E52/94
H171	ROCKCHIP	5341324.00	384885.60	265.35	AMG66_56	GPS	343	2122	11	2.42	575	2122	62	55	3	19	2/08/96	E52/94
H172	ROCKCHIP	5341322.00	384886.30	265.40	AMG66_56	GPS	273	747	8	1.68	993	747	33	36	4	10	2/08/96	E52/94
H173	ROCKCHIP	5341319.00	384887.50	265.47	AMG66_56	GPS	575	876	3	6.17	2800	876	36	59	4	<0.1	2/08/96	E52/94
H174	ROCKCHIP	5341316.00	384888.70	265.55	AMG66_56	GPS	993	865	8	41.56	1443	865	49	87	3	<0.1	2/08/96	E52/94
H175	ROCKCHIP	5341314.00	384889.60	265.60	AMG66_56	GPS	2800	59	9	2.41	1213	59	11	23	5	1	2/08/96	E52/94
H176	ROCKCHIP	5341313.00	384890.00	265.63	AMG66_56	GPS	1443	156	6	1.33	46	156	<5	664	205	20	2/08/96	E52/94
H177	ROCKCHIP	5341307.00	384894.00	265.87	AMG66_56	GPS	1213	82	6	1.43	20	82	<5	621	353	<0.1	2/08/96	E52/94
H178	ROCKCHIP	5341225.00	384865.50	271.08	AMG66_56	GPS	70	83	3	0.10	70	83	<5	34	5	<0.1	2/08/96	E52/94
H179	ROCKCHIP	5341217.00	384862.40	271.14	AMG66_56	GPS	35	29	4	<0.1	35	29	<5	19	<5	9	2/08/96	E52/94
H180	ROCKCHIP	5341154.00	384833.80	273.76	AMG66_56	GPS	15	37	6	1.06	15	37	<5	474	54	8	2/08/96	E52/94

CZ COSTEAN 1 ROCKCHIP SAMPLES

Sample_id	Sample_type	Ref_north	Ref_east	Ref_rl	Ref_grid_id	Ref_accuracy	Cu_ppm	Au_ppm	Ag_ppm	Pb_ppm	Zn_ppm	As_ppm	Ba_ppm	Mn_ppm	Hg_ppm	Date_sampled
H0198	ROCKCHIP	5341492.00	384933.60	264.84	AMG66_56	GPS	18	<0.005	<1	19	57	10	268	79		3/07/96
H0199	ROCKCHIP	5341487.00	384931.30	264.93	AMG66_56	GPS	112	<0.005	1	600	92	32	324	28		3/07/96
H0200	ROCKCHIP	5341483.00	384929.20	265.10	AMG66_56	GPS	42	<0.005	1	439	215	30	341	5		3/07/96
H0201	ROCKCHIP	5341478.00	384927.10	265.07	AMG66_56	GPS	28	<0.005	1	319	347	48	609	9		3/07/96
H0202	ROCKCHIP	5341474.00	384924.90	264.72	AMG66_56	GPS	11	<0.005	1	684	499	32	358	<5		3/07/96
H0203	ROCKCHIP	5341469.00	384922.60	264.44	AMG66_56	GPS	16	<0.005	<1	41	182	22	223	12		3/07/96
H0204	ROCKCHIP	5341465.00	384920.20	264.38	AMG66_56	GPS	8	<0.005	<1	8	16	2	23	19		3/07/96
H0205	ROCKCHIP	5341460.00	384918.00	264.45	AMG66_56	GPS	33	<0.005	<1	849	278	26	283	18		3/07/96
H0206	ROCKCHIP	5341456.00	384916.10	264.60	AMG66_56	GPS	<4	<0.005	1	96	20	8	171	<5		3/07/96
H0207	ROCKCHIP	5341451.00	384914.60	264.76	AMG66_56	GPS	33	<0.005	<1	232	120	37	227	9		3/07/96
H0208	ROCKCHIP	5341446.00	384913.50	264.88	AMG66_56	GPS	16	<0.005	1	1032	536	38	258	10		3/07/96
H0209	ROCKCHIP	5341441.00	384912.60	264.97	AMG66_56	GPS	19	<0.005	1	34	42	9	221	17		3/07/96
H0210	ROCKCHIP	5341436.00	384911.90	265.01	AMG66_56	GPS	6	<0.005	1	9	24	4	78	18		3/07/96
H0211	ROCKCHIP	5341431.00	384911.60	265.06	AMG66_56	GPS	10	<0.005	<1	13	24	5	203	23		3/07/96
H0212	ROCKCHIP	5341426.00	384911.80	265.15	AMG66_56	GPS	20	<0.005	<1	11	20	7	212	19		3/07/96
H0213	ROCKCHIP	5341421.00	384912.20	265.29	AMG66_56	GPS	22	<0.005	<1	15	20	8	193	26		3/07/96
H0214	ROCKCHIP	5341416.00	384912.90	265.48	AMG66_56	GPS	42	<0.005	1	407	1851	22	357	18		3/07/96
H0215	ROCKCHIP	5341414.00	384913.20	265.55	AMG66_56	GPS	20	<0.005	1	35	41	8	215	26		3/07/96
H0216	ROCKCHIP	5341412.00	384913.60	265.61	AMG66_56	GPS	12	<0.005	1	34	23	6	319	15		3/07/96
H0217	ROCKCHIP	5341411.00	384914.00	265.66	AMG66_56	GPS	56	<0.005	7	1029	1794	NTS	583	31		3/07/96
H0218	ROCKCHIP	5341409.00	384914.40	265.69	AMG66_56	GPS	29	<0.005	3	1626	344	NTS	609	37		3/07/96
H0219	ROCKCHIP	5341407.00	384914.80	265.72	AMG66_56	GPS	28	<0.005	2	3682	1774	NTS	548	40		3/07/96
H0220	ROCKCHIP	5341405.00	384915.20	265.77	AMG66_56	GPS	34	<0.005	2	3555	1600	71	607	32		3/07/96
H0221	ROCKCHIP	5341402.00	384915.80	265.92	AMG66_56	GPS	29	<0.005	3	2863	1030	64	584	40		3/07/96
H0222	ROCKCHIP	5341399.00	384916.30	266.15	AMG66_56	GPS	30	<0.005	1	2525	585	68	613	16		3/07/96
H0223	ROCKCHIP	5341397.00	384916.60	266.33	AMG66_56	GPS	25	<0.005	1	1246	820	82	461	9		3/07/96
H0224	ROCKCHIP	5341395.00	384916.80	266.50	AMG66_56	GPS	9	<0.005	<1	520	29	20	477	7		3/07/96
H0225	ROCKCHIP	5341392.00	384917.10	266.72	AMG66_56	GPS	6	<0.005	<1	2612	189	68	639	24		3/07/96
H0226	ROCKCHIP	5341369.00	384917.80	267.53	AMG66_56	GPS	27	<0.005	2	1497	2033	85	571	26		3/07/96
H0227	ROCKCHIP	5341367.00	384918.00	267.61	AMG66_56	GPS	56	<0.005	19	4424	8037	84	661	19		3/07/96
H0228	ROCKCHIP	5341365.00	384918.20	267.69	AMG66_56	GPS	10	<0.005	2	386	182	13	646	18		3/07/96
H0229	ROCKCHIP	5341363.00	384918.20	267.75	AMG66_56	GPS	9	<0.005	1	347	54	4	605	19		3/07/96
H0230	ROCKCHIP	5341361.00	384918.30	267.80	AMG66_56	GPS	16	<0.005	1	60	73	5	270	17		3/07/96
H0231	ROCKCHIP	5341359.00	384918.20	267.85	AMG66_56	GPS	14	<0.005	4	58	113	12	600	27		3/07/96
H0232	ROCKCHIP	5341357.00	384918.10	267.87	AMG66_56	GPS	5	<0.005	1	32	38	2	335	28		3/07/96
H0233	ROCKCHIP	5341355.00	384917.90	267.89	AMG66_56	GPS	12	<0.005	3	54	149	5	703	32		3/07/96
H0234	ROCKCHIP	5341353.00	384917.80	267.92	AMG66_56	GPS	15	<0.005	2	57	180	5	747	29		3/07/96
H0235	ROCKCHIP	5341351.00	384917.70	267.97	AMG66_56	GPS	40	<0.005	2	173	495	20	664	43	0.250	3/07/96
H0236	ROCKCHIP	5341349.00	384917.60	268.03	AMG66_56	GPS	31	<0.005	2	221	2505	34	525	44	0.334	3/07/96
H0237	ROCKCHIP	5341347.00	384917.60	268.11	AMG66_56	GPS	55	0.005	4	344	331	29	589	29	0.334	3/07/96
H0238	ROCKCHIP	5341345.00	384917.60	268.19	AMG66_56	GPS	60	0.007	3	789	3042	48	627	26	0.694	3/07/96
H0239	ROCKCHIP	5341343.00	384917.70	268.29	AMG66_56	GPS	57	<0.005	4	1033	4495	87	620	30	1.420	3/07/96
H0240	ROCKCHIP	5341341.00	384917.70	268.39	AMG66_56	GPS	34	<0.005	2	613	4991	54	1205	37	0.508	3/07/96
H0241	ROCKCHIP	5341339.00	384917.70	268.50	AMG66_56	GPS	48	<0.005	2	2184	10600	NTS	79	36	0.504	3/07/96
H0242	ROCKCHIP	5341337.00	384917.70	268.61	AMG66_56	GPS	49	<0.005	3	0.98%	10300	NTS	31	34	0.610	3/07/96
H0243	ROCKCHIP	5341335.00	384917.70	268.73	AMG66_56	GPS	95	<0.005	4	1.04%	16200	NTS	50	11	0.396	3/07/96
H0244	ROCKCHIP	5341333.00	384917.70	268.85	AMG66_56	GPS	53	0.006	4	2243	3009	75	46	28	0.663	3/07/96
H0245	ROCKCHIP	5341331.00	384917.80	268.97	AMG66_56	GPS	86	<0.005	5	2683	10700	NTS	38	26	0.870	3/07/96
H0246	ROCKCHIP	5341329.00	384917.80	269.09	AMG66_56	GPS	33	<0.005	5	422	6730	95	534	31	0.331	3/07/96
H0247	ROCKCHIP	5341328.00	384917.90	269.15	AMG66_56	GPS	15	<0.005	5	95	208	8	532	32	0.299	3/07/96
H0248	ROCKCHIP	5341327.00	384917.90	269.21	AMG66_56	GPS	16	<0.005	5	128	44	4	478	26	0.258	3/07/96

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CZ COSTEAN 1 ROCKCHIP SAMPLES

H0249	ROCKCHIP	5341325.00	384918.00	269.33	AMG66_56	GPS	24	0.006	5	204	1825	31	287	40	0.797	3/07/96
H0250	ROCKCHIP	5341323.00	384918.00	269.44	AMG66_56	GPS	51	<0.005	3	408	7143	NTS	239	34	0.639	3/07/96
H0251	ROCKCHIP	5341321.00	384918.00	269.54	AMG66_56	GPS	30	<0.005	4	169	1458	30	345	52	0.487	3/07/96
H0252	ROCKCHIP	5341319.00	384917.90	269.63	AMG66_56	GPS	49	<0.005	4	336	660	28	296	28	0.877	3/07/96
H0253	ROCKCHIP	5341317.00	384917.80	269.72	AMG66_56	GPS	43	<0.005	3	189	352	26	324	30	0.796	3/07/96
H0254	ROCKCHIP	5341315.00	384917.80	269.79	AMG66_56	GPS	32	<0.005	4	75	26	6	348	34	0.720	3/07/96
H0255	ROCKCHIP	5341313.00	384917.80	269.85	AMG66_56	GPS	10	<0.005	4	48	75	4	210	40	0.861	3/07/96
H0256	ROCKCHIP	5341311.00	384917.80	269.89	AMG66_56	GPS	14	<0.005	2	57	21	3	355	48		3/07/96
H0257	ROCKCHIP	5341309.00	384917.90	269.92	AMG66_56	GPS	8	<0.005	2	93	16	1	489	30		3/07/96
H0258	ROCKCHIP	5341307.00	384918.10	269.93	AMG66_56	GPS	6	<0.005	2	544	27	1	554	40		3/07/96
H0259	ROCKCHIP					GPS	8	<0.005	2	11	29	1	<10	19		3/07/96
H0260	ROCKCHIP					GPS	8	<0.005	<1	<5	25	4	<10	26		3/07/96

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Northing	Eastng	RL	Station_id	Gam	Time
			Base Station	62471	11.36am
5341535.46	384957.764	263.2395	0	62478	11.41am
			5	62491	
5341527.09	384952.316	263.9191	10	62484	
			15	62491	
5341518.47	384947.907	264.2718	20	62475	
			25	62486	
5341509.08	384942.876	264.5854	30	62483	
			35	62485	
5341499.95	384938.096	264.5775	40	62478	
			45	62486	
5341492.25	384933.926	264.6844	50	62480	11.44am
			55	62494	
5341483.51	384930.022	265.1131	60	62499	
			65	62492	
5341474.81	384925.693	264.2245	70	62499	
			75	62489	
5341465.76	384920.594	264.2807	80	62493	
			85	62489	
5341455.76	384916.814	264.6828	90	62511	
			95	62500	
5341446.58	384914.939	264.9182	100	62458	11.46am
			105	62496	
5341436.22	384913.665	265.0048	110	62509	
			115	62509	
5341426.73	384914.314	265.2403	120	62512	
			125	62511	
5341416.16	384915.901	265.7234	130	62514	
			135	62502	
5341407.35	384917.864	265.877	140	62511	
			145	62515	
5341397.66	384919.312	266.8324	150	62519	11.48am
			155	62513	
5341387.22	384919.709	267.4438	160	62501	
			165	62502	
5341377.08	384919.454	267.5941	170	62500	
			175	62499	
5341367.25	384920.46	268.0812	180	62522	
			185	62514	
5341355.31	384919.329	268.2385	190	62516	
			195	62517	
5341346.47	384919.35	268.658	200	62517	11.51am
			205	62516	
5341337	384919.31	269.2515	210	62518	
			215	62521	
5341327.22	384919.773	269.9098	220	62515	
			225	62517	
5341317.66	384919.253	270.3898	230	62521	
			235	62526	
5341307.59	384920.085	270.478	240	62527	
			245	62531	
5341294.54	384921.025	270.7478	250	62563	11.53am
			End of survey	62470	12.00am

CZ COST_1 MMI GRAVEL

Ref_north	Ref_east	Ref_rl	Sample_id	Sample_type	Sample_media	Distance	Cu_ppb	Pb_ppb	Zn_ppm	Cd_ppb	Cu_ppm	Pb_ppm	Zn_ppm	Cd_ppm
5341518.47	384947.907	264.2718	H0317	COVER	GR	20	140	200	1300	8	0.14	0.20	1.30	0.008
5341509.08	384942.876	264.5854	H0318	COVER	GR	30	1200	320	660	10	1.20	0.32	0.66	0.010
5341499.95	384938.096	264.5775	H0319	COVER	GR	40	60	80	900	6	0.06	0.08	0.90	0.006
5341492.25	384933.926	264.6844	H0320	COVER	GR	50	900	280	1040	6	0.90	0.28	1.04	0.006
5341483.51	384930.022	265.1131	H0321	COVER	GR	60	2380	660	1260	20	2.38	0.66	1.26	0.020
5341474.81	384925.693	264.2245	H0322	COVER	GR	70	4960	4040	600	14	4.96	4.04	0.60	0.014
5341465.76	384920.594	264.2807	H0323	COVER	GR	80	8920	11100	1660	20	8.92	11.10	1.66	0.020
5341455.76	384916.814	264.6828	H0324	COVER	GR	90	7660	6940	1100	24	7.66	6.94	1.10	0.024
5341446.58	384914.939	264.9182	H0325	COVER	GR	100	8560	5540	1080	12	8.56	5.54	1.08	0.012
5341436.22	384913.665	265.0048	H0326	COVER	GR	110	6880	5340	1520	16	6.88	5.34	1.52	0.016
5341426.73	384914.314	265.2403	H0327	COVER	GR	120	9580	9840	1100	24	9.58	9.84	1.10	0.024
5341416.16	384915.901	265.7234	H0328	COVER	GR	130	5080	4460	700	8	5.08	4.46	0.70	0.008
5341407.35	384917.864	265.877	H0329	COVER	GR	140	6660	4700	2080	36	6.66	4.70	2.08	0.036
5341397.66	384919.312	266.8324	H0330	COVER	GR	150	1960	2600	3700	76	1.96	2.60	3.70	0.076
5341387.22	384919.709	267.4438	H0331	COVER	GR	160	740	380	520	6	0.74	0.38	0.52	0.006
5341377.08	384919.454	267.5941	H0332	COVER	GR	170	720	420	380	6	0.72	0.42	0.38	0.006
5341367.25	384920.46	268.0812	H0333	COVER	GR	180	920	440	640	14	0.92	0.44	0.64	0.014
5341355.31	384919.329	268.2385	H0334	COVER	GR	190	3580	1220	1040	38	3.58	1.22	1.04	0.038
5341346.47	384919.35	268.658	H0335	COVER	GR	200	1060	9860	18800	1000	1.06	9.86	18.80	1.000
5341337	384919.31	269.2515	H0336	COVER	GR	210	1880	2840	5480	442	1.88	2.84	5.48	0.442
5341327.22	384919.773	269.9098	H0337	COVER	GR	220	540	160	1220	40	0.54	0.16	1.22	0.040
5341317.66	384919.253	270.3898	H0338	COVER	GR	230	580	200	820	14	0.58	0.20	0.82	0.014
5341307.59	384920.085	270.478	H0339	COVER	GR	240	1060	480	540	4	1.06	0.48	0.54	0.004
5341294.54	384921.025	270.7478	H0340	COVER	GR	250	1860	440	720	6	1.86	0.44	0.72	0.006

CZ COST_1 MMI SOILS

Ref north	Ref east	Ref rl	Sample id	Sample type	Sample media	Distance m	Cu ppb	Pb ppb	Zn ppm	Cd ppb	Cu ppm	Pb ppm	Zn ppm	Cd ppm
5341527.09	384952.316	263.9191	H0261	SOIL	PT	10	86100	10200	9000	182	86.10	10.20	9.00	0.182
5341518.47	384947.907	264.2718	H0262	SOIL	PT	20	40500	5380	7800	310	40.50	5.38	7.80	0.310
5341509.08	384942.876	264.5854	H0263	SOIL	PT	30	37500	3040	1280	14	37.50	3.04	1.28	0.014
5341499.95	384938.096	264.5775	H0264	SOIL	PT	40	81800	6780	46200	108	81.80	6.78	46.20	0.108
5341492.25	384933.926	264.6844	H0265	SOIL	PT	50	61100	580	3540	66	61.10	0.58	3.54	0.066
5341483.51	384930.022	265.1131	H0266	SOIL	PT	60	45700	2760	2000	44	45.70	2.76	2.00	0.044
5341474.81	384925.693	264.2245	H0267	SOIL	PT	70	17400	6000	9960	446	17.40	6.00	9.96	0.446
5341465.76	384920.594	264.2807	H0268	SOIL	PT	80	42700	8200	2120	22	42.70	8.20	2.12	0.022
5341455.76	384916.814	264.6828	H0269	SOIL	PT	95	20500	5460	2060	124	20.50	5.46	2.06	0.124
5341436.22	384913.665	265.0048	H0270	SOIL	PT	110	37000	6000	2020	12	37.00	6.00	2.02	0.012
5341426.73	384914.314	265.2403	H0271	SOIL	PT	120	9080	9040	11100	222	9.08	9.04	11.10	0.222
5341416.16	384915.901	265.7234	H0272	SOIL	PT	130	20500	6820	2100	30	20.50	6.82	2.10	0.030
5341407.35	384917.864	265.877	H0273	SOIL	PT	140	5780	3420	26300	548	5.78	3.42	26.30	0.548
5341397.66	384919.312	266.8324	H0274	SOIL	PT	150	8040	1120	3380	154	8.04	1.12	3.38	0.154
5341387.22	384919.709	267.4438	H0275	SOIL	PT	160	66300	7480	4160	114	66.30	7.48	4.16	0.114
5341377.08	384919.454	267.5941	H0276	SOIL	PT	170	28400	9360	1120	20	28.40	9.36	1.12	0.020
5341367.25	384920.46	268.0812	H0277	SOIL	PT	180	13600	5740	21100	510	13.60	5.74	21.10	0.510
5341355.31	384919.329	268.2385	H0278	SOIL	PT	190	10800	1660	5560	276	10.80	1.66	5.56	0.276
5341346.47	384919.35	268.658	H0279	SOIL	PT	200	20000	6720	2500	164	20.00	6.72	2.50	0.164
5341337	384919.31	269.2515	H0280	SOIL	PT	210	34700	31500	1560	20	34.70	31.50	1.56	0.020
5341327.22	384919.773	269.9098	H0281	SOIL	PT	220	27000	9040	800	8	27.00	9.04	0.80	0.008
5341317.66	384919.253	270.3898	H0282	SOIL	PT	230	21500	10100	1460	28	21.50	10.10	1.46	0.028
5341307.59	384920.085	270.478	H0283	SOIL	PT	240	9840	7320	2680	40	9.84	7.32	2.68	0.040

CZ COST_1 VEG

Ref north	Ref east	Ref rl	Sample id	Sample type	Sample media	Distance m	Au ppm	Cu ppm	Zn ppm	Cd ppm	Mn ppm	Ag ppm
5341527.09	384952.316	263.9191	H0284	V	TW	10	<0.001	4.9	2.4	<0.2	11.6	<0.1
5341518.47	384947.907	264.2718	H0285	V	TW	20	0.002	4.5	3.6	<0.2	13.4	<0.1
5341509.08	384942.876	264.5854	H0286	V	TW	30	0.004	4.7	4.9	<0.2	15.6	<0.1
5341483.51	384930.022	265.1131	H0301	V	TW	55	0.002	4.2	2	<0.2	10.8	<0.1
5341474.81	384925.693	264.2245	H0302	V	TW	65	<0.001	5.8	2.3	<0.2	5.5	0.2
5341465.76	384920.594	264.2807	H0303	V	TW	80	0.002	6.5	3.4	<0.2	7	<0.1
5341455.76	384916.814	264.6828	H0304	V	TW	92	<0.001	4	2	<0.2	11.1	<0.1
5341446.58	384914.939	264.9182	H0305	V	TW	100	0.002	6.3	2.7	<0.2	7.7	<0.1
5341436.22	384913.665	265.0048	H0306	V	TW	110	0.002	4.1	3.7	<0.2	9.5	<0.1
5341426.73	384914.314	265.2403	H0307	V	TW	123	<0.001	3.5	7.4	<0.2	12	0.1
5341416.16	384915.901	265.7234	H0308	V	TW	130	<0.001	5.9	13	<0.2	11	0.1
5341407.35	384917.864	265.877	H0309	V	TW	140	<0.001	3.2	4	<0.2	7.2	<0.1
5341387.22	384919.709	267.4438	H0310	V	TW	155	<0.001	5.3	3.3	<0.2	4.9	<0.1
5341355.31	384919.329	268.2385	H0311	V	TW	190	<0.001	5	2.9	<0.2	6.7	<0.1
5341346.47	384919.35	268.658	H0312	V	TW	200	<0.001	4.1	3.5	<0.2	7	<0.1
5341337	384919.31	269.2515	H0313	V	TW	210	0.002	6.7	2.1	<0.2	8.6	<0.1
5341327.22	384919.773	269.9098	H0314	V	TW	220	<0.001	6.5	2.8	<0.2	7.3	<0.1
5341317.66	384919.253	270.3898	H0315	V	TW	230	0.002	6.3	3.5	<0.2	6	<0.1
5341307.59	384920.085	270.478	H0316	V	TW	240	<0.002	6.1	4.2	<0.2	4.7	<0.1

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Northing	Easting	RI	Cu_ppb	Pb_ppb	Zn_ppb	Cd_ppb	Sample_id
5341600	384792.9	266.937	11300	2660	580	6	H0380
5341592	384783.7	267.541	4720	940	220	8	H0381
5341586	384776.8	268.018	3580	720	200	4	H0382
5341583	384765.2	269.28	13400	300	240	8	H0383
5341569	384767.4	273.137	32900	5600	140	2	H0384
5341560	384758.8	275.817	29200	13800	240	4	H0385
5341555	384746.6	276.387	8940	3460	3760	<2	H0386
5341545	384742	276.318	13700	7220	240	4	H0387
5341540	384731.6	276.847	16300	6880	200	2	H0388
5341528	384723.3	280.996	15300	6740	220	4	H0389
5341518	384713.6	284.105	13900	6820	160	4	H0390
5341508	384704.6	286.391	15700	6920	140	4	H0391
5341498	384694.4	287.759	35600	2760	460	8	H0392
5341489	384681.1	289.559	66800	2120	340	10	H0393
5341479	384673.7	290.993	31800	3540	300	4	H0394
5341470	384659.1	292.059	14800	3240	140	2	H0395
5341455	384650.3	291.154	19300	1260	160	4	H0396
5341444	384647	294.546	6780	120	120	40	H0397
5341439	384631.8	298.836	19300	5100	180	4	H0398
5341428	384630.4	302.202	32900	9020	640	8	H0399
5341417	384617	305.843	8000	4120	220	4	H0400
5341409	384611.8	307.627	27900	8200	220	4	H0401
5341398	384603.1	310.724	10300	4280	160	2	H0402
5341387	384594.4	312.013	4220	3840	260	4	H0403
5341375	384583.7	314.441	24100	9120	120	<2	H0404
5341363	384570.4	314.749	9620	2260	140	4	H0405
5341351	384562.7	316.449	18500	5240	240	4	H0406
5341340	384558.2	318.854	73000	3400	400	12	H0407
5341334	384548.6	320.11	62400	1580	680	24	H0408
5341327	384535.9	322.606	56900	9000	360	12	H0409
5341314	384528.2	325.47	28300	17000	340	4	H0410
5341300	384521.6	327.895	53800	3800	300	8	H0411
5341290	384507.7	331.414	21200	4200	200	6	H0412
5341283	384500.4	336.426	22900	5820	240	4	H0413
5341691	384592.5	271.373	23500	14100	220	4	H0414
5341680	384583.7	275.597	43000	6460	320	4	H0415
5341671	384574	277.648	34700	5740	260	4	H0416
5341661	384568.1	276.693	18400	3980	260	4	H0417
5341651	384561	274.054	3040	9920	440	66	H0418
5341640	384547.5	275.957	9020	4600	80	<2	H0419
5341629	384541.9	279.875	36000	4200	220	4	H0420
5341621	384528.8	283.043	26300	6380	180	4	H0421
5341610	384519	288.19	17000	6760	200	2	H0422
5341600	384512.5	289.938	17700	10700	280	4	H0423
5341588	384502.9	290.924	13700	6380	140	4	H0424
5341582	384491.9	293.124	15200	1940	140	2	H0425
5341572	384482.3	295.823	5000	4340	80	<2	H0426
5341560	384473.7	297.873	4400	2460	440	4	H0427
5341545	384457.3	304.744	30200	7300	220	2	H0428
5341535	384447.7	308.087	17800	6940	300	6	H0429
5341523	384438.4	311.003	23500	9380	340	4	H0430
5341514	384432.6	312.532	38100	14400	340	6	H0431
5341502	384421.7	313.754	52100	3040	460	12	H0432
5341493	384412.1	317.054	13100	4800	160	4	H0433
5341786	384442.6	271.588	17000	8960	220	4	H0434

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5341778	384432.1	276.159	28100	11900	440	4	H0435
5341767	384427.1	278.484	54300	7220	340	8	H0436
5341752	384418.1	279.793	26500	9740	440	14	H0437
5341741	384410.7	280.494	58800	12000	540	10	H0438
5341730	384397.2	281.667	59900	3000	560	10	H0439
5341724	384385.3	282.572	23100	6960	280	6	H0440
5341720	384379.1	283.24	27000	3780	180	4	H0441
5341693	384365.3	286.583	43600	6740	580	6	H0442
5341682	384358.4	289.998	36300	17200	840	8	H0443
5341666	384345.3	292.413	40200	7920	400	4	H0444
5341658	384336.3	294.11	54000	4340	2160	46	H0445
5341643	384331	296.573	49400	5820	500	6	H0446
5341638	384318.4	297.819	42900	4740	380	4	H0447
5341628	384299.1	300.932	34900	6280	3140	10	H0448
5341609	384299	304.35	36000	10500	4620	10	H0449
5341596	384287.9	307.129	28100	3280	63000	26	H0450
5341589	384279.6	309.766	18900	4180	28400	20	H0451
5341581	384270.7	312.41	19200	3580	40700	46	H0452
5341572	384263	315.021	30000	6480	52100	42	H0453
5341561	384250.2	318.386	12200	2380	40400	76	H0454
5341548	384242.8	321.896	33100	1660	61600	76	H0455

APPENDIX 2

BURBURY VOLCANICS DATA

BURBURY VOLCANIC ROCKCHIP

samp_type	samp_id	ref_north	ref_east	ref_accuracy	Au_ppm	AuR_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Mg_ppm	Mo_ppm	As_ppm	Ba_ppm	Fe_pc	AsR_ppm	tenement
ROCKCHIP	H0341	5341832	387453	SCALED	0.074		161	862	55	6	1062	21	<100	1235		91	EL52/94
ROCKCHIP	H0342	5341846	387430	SCALED	0.088	0.074	95	327	78	<2	730	84	<100	1050		90	EL52/94
ROCKCHIP	H0343	5341910	387412	SCALED	0.049		169	307	87	<2	643	21	<100	806		62	EL52/94
ROCKCHIP	H0344	5341910	387412	SCALED	<0.005		124	1564	179	<2	1423	<10	<100	1325		15	EL52/94
ROCKCHIP	H0345	5341910	387412	SCALED	0.03		171	1482	244	2	968	31	<100	1405		46	EL52/94
ROCKCHIP	H0346	5341910	387412	SCALED	0.044		118	217	71	<2	852	15	<100	1940		38	EL52/94
ROCKCHIP	H0347	5341910	387412	SCALED	0.012		63	190	208	4	2266	28	<100	156		29	EL52/94
ROCKCHIP	H0348	5341910	387412	SCALED	0.024		55	1624	105	2	753	65	<100	292		35	EL52/94
ROCKCHIP	H0349	5342627	387380	SCALED	0.297		1306	406	174	3	1787	12	<100	2340		20	EL52/94
ROCKCHIP	H0350	5342627	387380	SCALED	0.314		2002	762	223	2	919	16	<100	2780		11	EL52/94
ROCKCHIP	H8550	5341912	387415	SCALED	0.013		594	1447	283	17	1191	43	<100	1090		60	EL52/94
ROCKCHIP	H8551	5341912	387415	SCALED	0.006		102	1395	293	<2	1377	<10	<100	1360		22	EL52/94
ROCKCHIP	H8552	5341912	387415	SCALED	0.007		152	3799	226	4	1484	32	<100	999		21	EL52/94
ROCKCHIP	H0578	5342077	387365	SCALED	0.34		2636	814	258	<2				2760	3.82		EL52/94
ROCKCHIP	H0579	5342077	387365	SCALED	<0.05		66	79	65	<2				2440	>10		EL52/94
ROCKCHIP	H0580	5342077	387360	SCALED	0.64	0.63	1826	2518	198	4				638	>10		EL52/94
ROCKCHIP	H0581	5342077	387360	SCALED	<0.05		1371	223	114	3				1615	3.87		EL52/94
ROCKCHIP	H0582	5342072	387360	SCALED	<0.05		29	17	79	<2				1320	3.84		EL52/94
ROCKCHIP	H0583	5342072	387360	SCALED	<0.05		305	56	233	<2				24	>10		EL52/94
ROCKCHIP	H0584	5342027	387378	SCALED	0.22		1687	644	223	<2				2790	5.21		EL52/94

BV STREAM SEDIMENTS

Sample_id	Ref_north	Ref_east	Reg_grid_id	Ref_accuracy	Cu_ppm	Au_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	As_ppm	Ba_ppm	Mn_ppm	Mo_ppm	AsR_ppm	Date_sam	Tenement	Batch_no
H0054	5341510	386690	AMG66_56	EST	26		320	<0.1	23	55	233	<50	200	1		15/05/96	EL52/94	1
H0055	5341510	386690	AMG66_56	EST	8.47		0.71									15/05/96	EL52/94	5
H0056	5341510	386690	AMG66_56	EST	24		100	<0.1	26	65	188	<50	190	90		15/05/96	EL52/94	2
H0057	5341510	386690	AMG66_56	EST	15		4	<0.1	16	57	195	<50	206	53		15/05/96	EL52/94	4
H0058	5341740	386850	AMG66_56	EST	10		<1	<0.1	19	15	221	<50	70	55		15/05/96	EL52/94	1
H0059	5341740	386850	AMG66_56	EST	11.56		0.99									15/05/96	EL52/94	5
H0060	5341740	386850	AMG66_56	EST	44		5	<0.1	4	17	164	<50	50	3		15/05/96	EL52/94	2
H0061	5341740	386850	AMG66_56	EST	22		1	<0.1	12	5	174	<50	36	27		15/05/96	EL52/94	4
H0064	5341660	387450	AMG66_56	EST	10	<0.005		<1	<5	5	<100		22		8	15/05/96	EL52/94	1
H0065	5341660	387450	AMG66_56	EST	26	<0.005		<1	<5	12	<100		31		10	15/05/96	EL52/94	2
H0068	5341560	387170	AMG66_56	EST	8	0.079		<1	8	8	<100		63		2	15/05/96	EL52/94	1
H0067	5341560	387170	AMG66_56	EST	24	<0.005		<1	6	<4	<100		67		6	15/05/96	EL52/94	2
H0068	5341260	387160	AMG66_56	EST	14	<0.005		<1	7	7	<100		109		11	15/05/96	EL52/94	1
H0069	5341260	387160	AMG66_56	EST	64	<0.005		<1	11	27	<100		116		23	15/05/96	EL52/94	2
H0070	5341260	387160	AMG66_56	EST	69	<0.005		<1	73	15	<100		56		16	15/05/96	EL52/94	3
H0071	5342070	386080	AMG66_56	EST	24	<0.005		<1	58	111	<100		519		17	15/05/96	EL52/94	1
H0072	5342070	386080	AMG66_56	EST	25	<0.005		<1	20	47	<100		149		14	15/05/96	EL52/94	2
H0073	5342130	386260	AMG66_56	EST	16	<0.005		1	35	70	<100		289		8	15/05/96	EL52/94	1
H0074	5342130	386260	AMG66_56	EST	30	<0.005		<1	22	63	<100		207		6	15/05/96	EL52/94	2
H0075	5342300	386350	AMG66_56	EST	31	<0.005		<1	31	29	<100		80		17	15/05/96	EL52/94	1
H0076	5342300	386350	AMG66_56	EST	13	<0.005		<1	20	33	<100		182		12	15/05/96	EL52/94	2
H0077	5342300	386350	AMG66_56	EST	49	<0.005		<1	47	28	<100		81		24	15/05/96	EL52/94	3
H0078	5342120	386040	AMG66_56	EST	21	0.129		1	46	88	<100		315		14	15/05/96	EL52/94	1
H0079	5342120	386040	AMG66_56	EST	22	0.013		<1	10	35	<100		96		16	15/05/96	EL52/94	2
H0080	5341780	385960	AMG66_56	EST	22	<0.005		1	48	95	<100		386		15	15/05/96	EL52/94	1
H0081	5341780	385960	AMG66_56	EST	42	<0.005		1	14	58	<100		163		15	15/05/96	EL52/94	2
H0082	5342160	386690	AMG66_56	EST	15	<0.005		1	152	108	<100		375		11	15/05/96	EL52/94	1
H0083	5342160	386690	AMG66_56	EST	41	<0.005		<1	78	68	<100		241		16	15/05/96	EL52/94	2
H0084	5341980	386690	AMG66_56	EST	14	<0.005		<1	105	52	<100		238		14	15/05/96	EL52/94	1
H0085	5341980	386690	AMG66_56	EST	68	<0.005		<1	68	61	<100		181		40	15/05/96	EL52/94	2
H0086	5341980	386690	AMG66_56	EST	147	<0.005		<1	145	78	<100		222		84	15/05/96	EL52/94	3
H0087	5341710	386560	AMG66_56	EST	21	<0.005		<1	75	77	<100		229		14	15/05/96	EL52/94	1
H0088	5341710	386560	AMG66_56	EST	62	<0.005		<1	52	92	<100		236		23	15/05/96	EL52/94	2
H0089	5342840	387150	AMG66_56	EST	22	<0.005		<1	32	120	<100		399		14	15/05/96	EL52/94	1
H0090	5342840	387150	AMG66_56	EST	22	<0.005		<1	<5	71	<100		146		11	15/05/96	EL52/94	2
H0091	5342960	387340	AMG66_56	EST	16	<0.005		<1	9	123	<100		241		10	15/05/96	EL52/94	1
H0092	5342960	387340	AMG66_56	EST	13	<0.005		<1	6	39	<100		49		6	15/05/96	EL52/94	2
H0093	5342720	387480	AMG66_56	EST	22	0.017		<1	<5	73	<100		201		8	15/05/96	EL52/94	1
H0094	5342720	387480	AMG66_56	EST	33	0.092		<1	<5	51	<100		91		7	15/05/96	EL52/94	2
H0095	5342600	387270	AMG66_56	EST	16	0.022		<1	30	71	<100		262		10	15/05/96	EL52/94	1
H0096	5342600	387270	AMG66_56	EST	28	<0.005		<1	35	58	<100		158		16	15/05/96	EL52/94	2
H0097	5342380	387410	AMG66_56	EST	13	0.008		<1	40	89	<100		323		17	15/05/96	EL52/94	1
H0098	5342380	387410	AMG66_56	EST	31	0.027		<1	21	71	<100		163		19	15/05/96	EL52/94	2
H0099	5343410	387720	AMG66_56	EST	11	0.121		<1	<5	70	<100		86		9	15/05/96	EL52/94	1
H0100	5343410	387720	AMG66_56	EST	19	<0.005		<1	<5	55	<100		62		8	15/05/96	EL52/94	2
H0351	5343920	386800	AMG66_56	EST	12	<0.005		<1	9	18	<100		51		8	15/05/96	EL52/94	1
H0352	5343920	386800	AMG66_56	EST	12	0.369		<1	<5	25	<100		48		9	15/05/96	EL52/94	2
H0353	5343920	386800	AMG66_56	EST	46	<0.005		1	92	33	<100		110		50	15/05/96	EL52/94	3
H0354	5342800	388230	AMG66_56	EST	24	<0.005		<1	<5	39	<100		196		11	15/05/96	EL52/94	1
H0355	5342800	388230	AMG66_56	EST	50	<0.005		<1	12	48	<100		187		14	15/05/96	EL52/94	2
H0356	5342800	388230	AMG66_56	EST	56	<0.005		<1	42	39	<100		128		21	15/05/96	EL52/94	3

BV STREAM SEDIMENTS

H0357	5342320	388980	AMG66_56	EST	21	<0.005	<1	<5	30	<100	117	9	15/05/98	EL52/94	1
H0358	5342320	388980	AMG66_56	EST	35	<0.005	<1	17	43	<100	109	15	15/05/98	EL52/94	2
H0359	5342320	388980	AMG66_56	EST	51	<0.005	<1	55	33	<100	100	24	15/05/98	EL52/94	3
H0360	5341660	387870	AMG66_56	EST	24	<0.005	<1	21	37	<100	222	15	15/05/98	EL52/94	1
H0361	5341660	387870	AMG66_56	EST	74	<0.005	<1	27	82	<100	203	18	15/05/98	EL52/94	2
H0362	5341600	387840	AMG66_56	EST	17	0.281	<1	17	22	<100	113	9	15/05/98	EL52/94	1
H0363	5341600	387840	AMG66_56	EST	54	<0.005	<1	29	59	<100	126	25	15/05/98	EL52/94	2
H0364	5343260	388360	AMG66_56	EST	27	<0.005	<1	9	54	<100	535	8	15/05/98	EL52/94	1
H0365	5343260	388360	AMG66_56	EST	50	<0.005	<1	<5	58	<100	300	10	15/05/98	EL52/94	2
H0366	5342890	388150	AMG66_56	EST	15	<0.005	1	<5	30	<100	379	11	15/05/98	EL52/94	1
H0367	5342890	388150	AMG66_56	EST	33	0.157	<1	13	41	<100	237	18	15/05/98	EL52/94	2
H0368	5342000	387420	AMG66_56	EST	18	<0.005	<1	28	41	<100	265	5	15/05/98	EL52/94	1
H0369	5342000	387420	AMG66_56	EST	59	<0.005	<1	44	35	<100	149	5	15/05/98	EL52/94	2
H0370	5342050	387430	AMG66_56	EST	25	0.032	<1	148	107	<100	1054	7	15/05/98	EL52/94	1
H0371	5342050	387430	AMG66_56	EST	24	0.014	<1	71	45	<100	296	6	15/05/98	EL52/94	2

BATCH NUMBERS

- 1 = PAN CON
- 2 = -80# WET
- 3 = -80# DRY
- 4 = -40# WET
- 5 = BLEG

APPENDIX 3

KING LYELL COPPER CLAYS DATA

KL ROCKCHIPS

Sample_id	Ref_west	Ref_east	Ref_N	Grp_pgm	Al_ppm	Ag_ppm	Pb_ppm	Zn_ppm	As_ppm	Mn_ppm	Mo_ppm	Ni_ppm	Co_ppm	Cr_ppm	Fe_ppm	Ti_ppm	V_ppm	Zr_ppm	Hg_ppm	AuR_ppm	AuS_ppm	Date_sampled	Tenement
H0501	5341761 43470	383508 29000	310 30600	235	<0.005	9.5	1350	25	114	31	<10	12	<5	109	1.84	4800	116	208	0.607			3/07/98	EL52/04
H0502	5341762 64210	383505 64930	310 92300	57	0.02	3.2	1580	79	83	19	<10	10	<5	93	2.57	4600	89	145	0.484			3/07/98	EL52/04
H0503	5341764 61410	383503 93170	310 12000	28	0.007	4.2	2930	37	88	25	<10	<10	<5	100	1.48	5480	104	153	1			3/07/98	EL52/04
H0504	5341770 77880	383488 70300	312 57840	35	0.021	<0.5	93	18	227	20	<10	<10	<5	76	2.36	4660	87	198	0.163			3/07/98	EL52/04
H0505	5341768 60240	383487 27310	310 46250	41	0.336	10.4	143	18	184	25	<10	<10	<5	94	2.18	4640	86	158	1.38			3/07/98	EL52/04
H0506	5341766 87060	383486 40080	314 16630	57	0.019	1.2	147	28	86	25	<10	<10	<5	94	1.28	4500	86	141	0.285			3/07/98	EL52/04
H0507	5341761 28340	383489 07290	315 21880	59	0.025	2.5	1040	325	132	25	<10	<10	<5	56	1.42	3040	59	92	0.438			3/07/98	EL52/04
H0508	5341773 91560	383467 45680	315 28360	13	0.016	<0.5	125	37	265	30	<10	14	<5	99	2.29	4980	107	183	0.214			3/07/98	EL52/04
H0509	5341770 82030	383468 75120	315 98310	30	<0.005	<0.5	932	30	122	20	<10	20	<5	88	1.84	5870	127	174	0.085			3/07/98	EL52/04
H0510	5341766 68960	383467 78350	317 08750	33	<0.005	<0.5	1870	80	192	20	<10	20	<5	100	1.8	5180	112	157	0.103			3/07/98	EL52/04
H0511	5341763 22540	383466 64220	318 11060	143	<0.005	1.1	1400	24	122	30	12	23	<5	102	1.92	5320	100	161	0.135			3/07/98	EL52/04
H0512	5341779 19590	383422 08080	322 72570	136	<0.005	<0.5	171	3400	345	1940	<10	58	49	94	27.65	3320	68	121	0.028	<0.005		3/07/98	EL52/04
H0513	5341781 22500	383423 85820	322 29060	165	<0.005	<0.5	155	3340	272	2840	<10	85	65	90	28.25	3040	68	110	0.067			3/07/98	EL52/04
H0514	5341782 12460	383425 72890	322 30410	205	<0.005	<0.5	134	2380	137	1760	<10	57	31	88	24.01	3080	57	112	0.044			3/07/98	EL52/04
H0515	5341782 55330	383426 95870	321 91820	266	<0.005	<0.5	94	3460	243	2250	<10	88	61	47	44.2	1090	31	55	0.035			3/07/98	EL52/04
H0516	5341783 78040	383427 58000	321 74040	224	<0.005	<0.5	96	2960	162	1920	<10	78	64	56	37.5	1910	40	83	0.032			3/07/98	EL52/04
H0517	5341808 05230	383489 93330	312 64380	44	<0.005	<0.5	130	455	497	214	<10	70	28	91	7.35	3170	83	113	0.085			3/07/98	EL52/04
H0518	5341809 07220	383488 01440	313 22110	89	<0.005	<0.5	252	100	307	72	<10	50	10	122	3.48	4950	84	188	0.184			3/07/98	EL52/04
H0519	5341840 52240	383575 36840	309 57980	75	<0.005	<0.5	81	352	48	28	<10	51	18	110	4.39	4170	87	120	0.103	<0.005		3/07/98	EL52/04
H0520	5341839 25170	383573 99830	308 89270	198	<0.005	<0.5	90	732	61	41	<10	88	41	103	8.18	3740	84	124	0.082			3/07/98	EL52/04
H0521	5341838 32150	383571 89440	309 19850	73	<0.005	<0.5	84	419	199	37	<10	201	82	82	15.65	2660	80	97	0.138			3/07/98	EL52/04
H0522	5341852 11220	383680 88340	303 58310	12	<0.005	<0.5	56	21	54	29	<10	25	<5	221	1.32	4540	80	144	0.041	<0.005		3/07/98	EL52/04
H0523	5341848 27330	383684 00920	298 10440	34	<0.005	<0.5	95	103	66	31	<10	16	<5	161	1.85	4790	90	144	0.118			3/07/98	EL52/04
H0524	5341859 40080	383678 64810	305 28530	22	<0.005	<0.5	18	33	33	<10	25	<5	<5	241	0.94	5340	84	189	0.038			3/07/98	EL52/04
H0525	5341858 75400	383678 03510	310 15330	34	<0.005	<0.5	15	20	12	43	<10	30	<5	280	0.82	4770	76	163	0.053			3/07/98	EL52/04
H0526	5341856 25880	383680 08450	302 01580	22	<0.005	1.2	217	18	48	22	<10	26	<5	184	1.05	4420	87	126	0.062			3/07/98	EL52/04
H0527	5341854 13810	383681 47790	295 65550	19	<0.005	0.9	353	23	39	35	<10	27	<5	178	1.57	4360	86	120	0.072			3/07/98	EL52/04
H0528	5341824 79260	383499 50180	313 80110	2480	<0.005	3.3	182	8730	39	58200	<10	86	372	73	22.57	2140	46	78	0.108			3/07/98	EL52/04
H0529	5341827 18110	383488 10380	315 61350	3240	<0.005	<0.5	224	3550	87	4820	<10	110	185	89	20.7	2510	51	110	0.153			3/07/98	EL52/04
H0530	5341824 66290	383497 74870	307 50600	44	<0.005	<0.5	159	112	2430	96	<10	93	123	112	20.69	1880	44	80	0.15			3/07/98	EL52/04
H0531	5341827 07160	383496 18350	311 38140	2080	<0.005	<0.5	117	2010	82	1780	<10	78	102	155	20.37	1390	29	53	0.104			3/07/98	EL52/04
H0532	5341829 50290	383487 60580	318 24080	7260	<0.005	<0.5	154	8090	248	9840	<10	430	1380	85	20.04	2860	60	114	0.141			3/07/98	EL52/04
H0533	5341829 08030	383487 47700	317 80760	5910	<0.005	<0.5	105	1480	73	3830	<10	93	148	131	12.53	2650	44	107	0.069	<0.005		3/07/98	EL52/04
H0534	5341828 88490	383487 78800	320 90790	3800	<0.005	0.5	129	179	822	129	<10	51	28	77	12.26	3880	63	152	0.04	<0.005		3/07/98	EL52/04
H0535	5341828 12030	383481 78230	320 44340	3130	<0.005	2.5	260	2010	35	2360	<10	80	90	85	22.87	3100	83	105	0.032			3/07/98	EL52/04
H0536	5341828 72780	383480 34140	319 57330	4080	<0.005	2.9	297	2140	55	2650	<10	84	95	88	24	2780	56	105	0.033			3/07/98	EL52/04
H0537	5341825 84310	383478 97460	315 22350	3630	<0.005	1.6	278	2180	44	2710	<10	87	100	80	23.58	3020	62	107	0.026	<0.005		3/07/98	EL52/04
H0538	5341828 06030	383478 42580	304 90040	2720	<0.005	1.4	261	1800	35	2300	<10	70	77	157	20.39	2700	55	104	0.028			3/07/98	EL52/04
H0539	5341825 52710	383475 21400	310 80040	1200	<0.005	<0.5	202	833	26	457	<10	33	27	318	8.88	2840	59	128	0.028			3/07/98	EL52/04
H0540	5341821 92460	383469 77570	322 13130	40	<0.005	<0.5	121	240	66	66	<10	<10	<5	2730	0.55	833	25	51	0.008			3/07/98	EL52/04
H0541	5341817 25070	383459 71740	312 81840	1780	<0.005	1.1	206	137	128	128	<10	53	12	251	4.34	3860	206	148	0.025	<0.005		3/07/98	EL52/04
H0542	5341814 41360	383459 71400	312 30560	824	<0.005	<0.5	202	194	34	34	<10	28	<5	155	0.88	5030	114	148	0.028			3/07/98	EL52/04
H0543	5341818 00520	383452 89810	308 72660	837	<0.005	<0.5	489	42	65	<10	40	<5	<5	215	2.49	4430	132	148	0.138			3/07/98	EL52/04
H0544	5341818 70030	383452 88560	314 11000	389	<0.005	<0.5	134	26	10	27	<10	29	<5	174	1.03	4850	100	168	0.058			3/07/98	EL52/04
H0545	5341861 03730	383487 59840	333 16120	4880	<0.005	<0.5	128	1800	40	2810	<10	71	54	54	17.48	2870	53	111	0.032			3/07/98	EL52/04
H0546	5341859 29640	383488 40820	330 33360	7980	<0.005	<0.5	135	2240	54	2640	<10	84	67	57	19.61	3070	58	112	0.058			3/07/98	EL52/04
H0547	5341856 95170	383487 11020	325 66550	547	<0.005	<0.5	91	6570	540	16600	<10	89	243	58	37.4	1580	39	48	0.307	<0.005		3/07/98	EL52/04
H0548	5341854 98340	383484 61120	319 75150	472	<0.005	<0.5	138	5620	842	14700	<10	76	210	87	27.33	2250	57	72	0.385			3/07/98	EL52/04
H0549	5341851 79500	383483 20380	313 40840	833	0.009	<0.5	112	1860	281	6750	<10	65	128	98	10.36	4340	85	184	0.849			3/07/98	EL52/04
H0550	5341850 70730	383480 88410	311 27550	7690	<0.005	<0.5	229	2780	74	2610	<10	135	200	64	21.72	3110	63	109	0.535			3/07/98	EL52/04
H0551	5341867 47210	383478 15840	333 81340	8540	<0.005	<0.5	115	877	20	834	<10	47	14	20	12.68	1310	23	55	0.021			3/07/98	EL52/04
H0552	5341861 91330	383478 13740	328 11680	8680	<0.005	<0.5	89	547	21	731	<10	54	0	22	13.3	1400	24	53	0.02			3/07/98	EL52/04
H0553	5341862 26660	383475 80180	327 38360	8440	<0.005	<0.5	121	878	18														

KL ROCKCHIPS

H0572	5341881 88520	383458 90610	336 74900 4740	<0.005	<0.5	190	823	11	809	<10	43	18	128	9.88	4250	88	155	0.323	<0.005	3/07/96	EL52/94
H0573	5341890 42210	383460 93070	350 41380 2510	<0.005	<0.5	157	663		848	<10	38	17	120	8.48	4750	82	174	0.138		3/07/96	EL52/94
H0574	5341877 88400	383459 08860	327 06010 3330	<0.005	<0.5	170	709	14	1490	<10	44	23	89	9.24	4980	87	174	0.062		3/07/96	EL52/94
H0575	5341866 60980	383466 39430	338 03280 13200	<0.005	<0.5	343	4260	41	1140	<10	33	50	85	38.7	1270	29	59	0.13		3/07/96	EL52/94
H0576	5341885 03920	383467 57680	335 35730 7480	<0.005	<0.5	178	2350	33	2240	<10	44	131	274	30.3	2780	65	113	1.29		3/07/96	EL52/94
H0577	5341851 00000	383453 00000	331 00000 30	<0.005	<0.5		27	5	72	<10	<10	<5	333	0.73	718	1	60	0.021	<0.005	3/07/96	EL52/94

Hole_id	Sample_id	Depth_from	Depth_to	Cu_pc	Cu_ppm	Au_ppm	Ag_ppm	Pb_ppm	Pb_pc	Zn_ppm	Zn_pc
96KLC0001		0.00	5.00		NTA	NTA		NTA		NTA	
96KLC0001	H0585	5.00	7.00		97	0.072		713		780	
96KLC0001	H0588	7.00	9.00		48	0.023		138		387	
96KLC0001	H0587	9.00	11.00		81	0.051		91		327	
96KLC0001	H0588	11.00	13.00		59	0.376		183		1415	
96KLC0001	H0589	13.00	15.00		58	0.043		171		860	
96KLC0001	H0590	15.00	17.00		55	0.062		151		1331	
96KLC0001	H0591	17.00	19.00		57	0.046		134		1068	
96KLC0001	H0592	19.00	21.00		746	0.438		397		733	
96KLC0001	H0593	21.00	23.00		58	0.044		83		899	
96KLC0001	H0594	23.00	25.00		36	0.104		48		520	
96KLC0001	H0595	25.00	27.00		27	0.028		85		371	
96KLC0001	H0596	27.00	29.00		12	0.008		53		412	
96KLC0001	H0597	29.00	31.00		24	<0.008		61		408	
96KLC0001	H0598	31.00	33.00		30	<0.008		73		579	
96KLC0001	H0599	33.00	35.00		30	<0.008		52		761	
96KLC0001	H0600	35.00	37.00	0.02		<0.008	<10				
96KLC0001	H0601	37.00	39.00	0.03		<0.008	<10				
96KLC0001	H0602	39.00	41.00	0.04		0.018	<10				
96KLC0001	H0603	41.00	43.00	0.06		0.058	<10				
96KLC0001	H0604	43.00	45.00	0.14		0.018	<10				
96KLC0001	H0605	45.00	46.00	0.2		0.03	<10				
96KLC0001	H0614	64.00	65.00	0.03		<0.008	<10				
96KLC0001	H0615	65.00	67.00	0.01		<0.008	<10				
96KLC0001	H0616	67.00	70.00	0.01		<0.008	<10				
96KLC0002	H0617		3.00	5.00		413		<0.008			
96KLC0002	H0618		5.00	7.00		338		<0.008			
96KLC0002	H0619		7.00	9.00		130		<0.008			
96KLC0002	H0620		9.00	11.00		78		<0.008			
96KLC0002	H0621		11.00	13.00		19		<0.008			
96KLC0002	H0622		13.00	15.00		34		<0.008			
96KLC0002	H0623		15.00	17.00		48		<0.008			
96KLC0002	H0624		17.00	19.00		48		0.025			
96KLC0002	H0625		19.00	21.00		34		<0.008			
96KLC0002	H0626		21.00	23.00		29		0.016			
96KLC0002	H0627		23.00	25.00		45		<0.008			
96KLC0002	H0628		25.00	27.00		43		<0.008			
96KLC0002	H0629		27.00	29.00		108		<0.008			
96KLC0002	H0630		29.00	31.00	2.2			<0.008			
96KLC0002	H0631		31.00	33.00	1.79			<0.008	<10		
96KLC0002	H0632		33.00	34.00	11.4			<0.008	<10		
96KLC0002	H0633		34.00	35.00	1.93			<0.008	<10		
96KLC0002	H0634		35.00	36.00	5.62			<0.008	<10		
96KLC0002	H0635		36.00	37.00	0.8			<0.008	<10		
96KLC0002	H0636		37.00	38.00	0.24			<0.008	<10		
96KLC0002	H0637		38.00	39.00	0.19			<0.008	<10		
96KLC0002	H0638		39.00	40.00	0.17			<0.008	<10		
96KLC0002	H0639		40.00	41.00	0.16			<0.008	<10		
96KLC0002	H0640		41.00	42.00	0.16			0.019	<10		
96KLC0002	H0641		42.00	43.00	0.23			<0.008	<10		
96KLC0002	H0642		43.00	44.00	0.15			<0.008	<10		
96KLC0002	H0643		44.00	45.00	0.11			<0.008	<10		
96KLC0002	H0644		45.00	46.00	0.21			<0.008	<10		
96KLC0002	H0645		46.00	47.00	0.4			<0.008	<10		
96KLC0002	H0646		47.00	48.00	0.12			<0.008	<10		
96KLC0002	H0647		48.00	49.00	0.03			<0.008	<10		
96KLC0002	H0648		49.00	50.00	0.06			<0.008	<10		
96KLC0002	H0649		50.00	52.00	0.1			<0.008	<10		
96KLC0002	H0650		52.00	54.00	1.16			<0.008	<10		
96KLC0002	H0651		54.00	56.00	0.01			<0.008	<10		
96KLC0002	H0652		56.00	58.00	0.1			<0.008	<10		
96KLC0002	H0653		58.00	60.00	1.17			<0.008	14		
96KLC0002	H0654		60.00	62.00	1.65			<0.008	<10		
96KLC0002	H0655		62.00	64.00	1.4			<0.008	11		
96KLC0002	H0656		64.00	67.00	0.3			<0.008	<10		
96KLC0003		0.00	6.00		NTA	NTA		NTA		NTA	
96KLC0003	H0657	6.00	8.00		1517	0.11	6	1260		593	
96KLC0003	H0658	8.00	10.00		269	0.027	2	201		346	
96KLC0003	H0659	10.00	12.00		84	0.013	2	211		745	
96KLC0003	H0660	12.00	14.00		97	0.008	3	127		547	
96KLC0003	H0661	14.00	16.00		50	<0.008	3	136		725	
96KLC0003	H0662	16.00	18.00		43	<0.008	3	197		956	
96KLC0003	H0663	18.00	20.00		46	<0.008	2	134		479	
96KLC0003	H0664	20.00	22.00		43	<0.008	2	90		596	
96KLC0003	H0665	22.00	24.00		34	<0.008	2	97		411	
96KLC0003	H0666	24.00	26.00		42	<0.008	2	79		592	
96KLC0003	H0667	26.00	28.00		36	<0.008	2	41		210	
96KLC0003	H0668	28.00	30.00		38	<0.008	1	28		389	
96KLC0003	H0669	30.00	32.00		36	<0.008	1	18		269	
96KLC0003	H0670	32.00	34.00		22	<0.008	2	<3		791	
96KLC0003	H0671	34.00	36.00		19	<0.008	2	8		1421	
96KLC0003	H0672	36.00	38.00		20	<0.008	3	3		1148	
96KLC0003	H0673	38.00	40.00		17	<0.008	3	3		3285	
96KLC0003	H0674	40.00	42.00		12	<0.008	3	<3		1532	
96KLC0003	H0675	42.00	44.00		41	<0.008	2	53		494	
96KLC0003	H0676	44.00	46.00		143	<0.008	2	14		595	
96KLC0003	H0677	46.00	48.00		35	<0.008	3	34		570	
96KLC0003	H0678	48.00	50.00		34	<0.008	2	891		864	
96KLC0003	H0679	50.00	52.00		18	<0.008	2	58		>5000	0.61
96KLC0003	H0680	52.00	54.00		16	<0.008	3	8		>5000	0.88
96KLC0003	H0681	54.00	56.00		17	<0.008	3	80		1391	
96KLC0003	H0682	56.00	58.00		49	<0.008	3	106		1028	
96KLC0003	H0683	58.00	60.00		86	<0.008	1	59		126	
96KLC0001	H0684	46.00	47.00	0.31		0.028	<10				
96KLC0001	H0685	47.00	48.00	0.38		0.026	<10				
96KLC0001	H0686	48.00	49.00	0.62		0.085	<10				
96KLC0001	H0687	49.00	50.00	0.53		0.058	<10				
96KLC0001	H0688	50.00	51.00	0.77		0.021	<10				
96KLC0001	H0689	51.00	52.00	1.05		0.013	<10				
96KLC0001	H0690	52.00	53.00	1.31		<0.008	<10				

96KLC0001 H0691	53.00	54.00	2.11	0.012	<10				
96KLC0001 H0692	54.00	55.00	3.25	<0.008	<10				
96KLC0001 H0693	55.00	56.00	0.54	<0.008	<10				
96KLC0001 H0694	56.00	57.00	0.24	<0.008	<10				
96KLC0001 H0695	57.00	58.00	0.22	<0.008	13				
96KLC0001 H0696	58.00	59.00	0.08	<0.008	11				
96KLC0001 H0697	59.00	60.00	0.05	<0.008	10				
96KLC0001 H0698	60.00	61.00	0.07	<0.008	<10				
96KLC0001 H0699	61.00	62.00	0.07	0.009	<10				
96KLC0001 H0700	62.00	63.00	0.07	<0.008	<10				
96KLC0001 H0701	63.00	64.00	0.03	<0.008	<10				
96CZC0001	0.00	8.00	NTA	NTA	NTA	NTA			
96CZC0001 H0704	6.00	7.00	11	<0.008	<1	8			NTA
96CZC0001 H0705	7.00	8.00	33	<0.008	1	4			40
96CZC0001 H0706	8.00	9.00	43	<0.008	1	42			61
96CZC0001 H0707	9.00	10.00	33	<0.008	<1	17			52
96CZC0001 H0708	10.00	11.00	18	<0.008	<1	17			58
96CZC0001 H0709	11.00	12.00	12	<0.008	<1	14			48
96CZC0001 H0710	12.00	13.00	18	<0.008	<1	29			35
96CZC0001 H0711	13.00	14.00	14	<0.008	1	41			65
96CZC0001 H0712	14.00	15.00	18	<0.008	<1	47			85
96CZC0001 H0713	15.00	16.00	13	<0.008	1	52			111
96CZC0001 H0714	16.00	17.00	18	<0.008	1	76			129
96CZC0001 H0715	17.00	18.00	22	<0.008	1	167			217
96CZC0001 H0716	18.00	19.00	32	<0.008	1	248			3488
96CZC0001 H0717	19.00	20.00	51	<0.008	4	1215			>5000 0.87
96CZC0001 H0718	20.00	21.00	43	<0.008	3	1037			>5000 2.92
96CZC0001 H0719	21.00	22.00	47	<0.008	3	744			>5000 2.18
96CZC0001 H0720	22.00	23.00	44	<0.008	3	665			>5000 1.67
96CZC0001 H0721	23.00	24.00	36	<0.008	2	541			>5000 1.55
96CZC0001 H0722	24.00	25.00	33	<0.008	2	666			>5000 1.87
96CZC0001 H0723	25.00	26.00	35	<0.008	3	456			>5000 1.77
96CZC0001 H0724	26.00	27.00	32	<0.008	3	302			>5000 2.01
96CZC0001 H0725	27.00	28.00	47	<0.008	2	284			>5000 1.86
96CZC0001 H0726	28.00	29.00	30	<0.008	2	186			>5000 1.42
96CZC0001 H0727	29.00	30.00	35	<0.008	2	681			>5000 1.35
96CZC0001 H0728	30.00	31.00	30	<0.008	2	634			>5000 0.86
96CZC0001 H0729	31.00	32.00	25	<0.008	1	119			>5000 1.30
96CZC0001 H0730	32.00	33.00	34	<0.008	2	97			>5000 1.03
96CZC0001 H0731	33.00	34.00	34	<0.008	1	161			4947 0.91
96CZC0001 H0732	34.00	35.00	29	<0.008	1	176			>5000 0.76
96CZC0001 H0733	35.00	36.00	32	<0.008	2	79			>5000 0.99
96CZC0001 H0734	36.00	37.00	10	<0.008	2	14			2874
96CZC0001 H0735	37.00	38.00	8	<0.008	1	8			639
96CZC0001 H0736	38.00	39.00	9	<0.008	1	8			143
96CZC0001 H0737	39.00	40.00	9	0.028	1	23			383
96CZC0001 H0738	40.00	41.00	15	<0.008	3	<3			917
96CZC0001 H0739	41.00	42.00	13	0.015	1	18			1575
96CZC0001 H0740	42.00	43.00	10	<0.008	1	58			294
96CZC0001 H0741	43.00	44.00	14	<0.008	1	19			1881
96CZC0001 H0742	44.00	46.00	11	<0.008	1	8			166
96CZC0001 H0743	45.00	48.00	10	<0.008	1	15			127
96CZC0001 H0744	48.00	50.00	16	<0.008	1	22			317
96CZC0001 H0745	50.00	52.00	11	<0.008	1	10			362
96CZC0001 H0746	52.00	54.00	11	<0.008	1	10			140
96CZC0001 H0747	54.00	56.00	8	<0.008	1	21			159
96CZC0001 H0748	56.00	58.00	10	<0.008	1	35			654
96CZC0001 H0749	58.00	60.00	10	<0.008	1	79			1684
96CZC0001 H0750	60.00	62.00	8	<0.008	1	30			2645
96CZC0001 H0801	62.00	64.00	11	<0.008	1	53			782
96CZC0001 H0802	64.00	66.00	8	<0.008	2	11			2215
96CZC0001 H0803	66.00	68.00	8	<0.008	1	15			53
96CZC0001 H0804	68.00	70.00	9	<0.008	1	27			11
96CZC0001 H0805	70.00	72.00	9	<0.008	1	31			277
96CZC0001 H0806	72.00	75.00	14	<0.008	1	91			762
96CZC0002	0.00	8.00	NTA	NTA	NTA	NTA			1899
96CZC0002 H0808	6.00	7.00	32	<0.008	2	176			1572
96CZC0002 H0809	7.00	8.00	25	<0.008	2	145			4397
96CZC0002	8.00	10.00	NTA	NTA	NTA	NTA			91
96CZC0002 H0810	10.00	11.00	45	<0.008	2	359			NTA
96CZC0002 H0811	11.00	12.00	26	<0.008	1	309			>5000 0.63
96CZC0002 H0812	12.00	13.00	22	<0.008	1	295			>5000 0.80
96CZC0002 H0813	13.00	14.00	28	<0.008	7	>5000	0.63		>5000 1.93
96CZC0002 H0814	14.00	15.00	14	<0.008	1	39			>5000 2.84
96CZC0002 H0815	15.00	16.00	20	<0.008	1	236			>5000 2.49
96CZC0002 H0816	16.00	17.00	32	<0.008	3	1032			>5000 2.71
96CZC0002 H0817	17.00	18.00	28	<0.008	5	4107			>5000 4.64
96CZC0002 H0818	18.00	19.00	30	<0.008	6	>5000	0.80		>5000 3.11
96CZC0002 H0821	19.00	20.00	38	<0.008	2	867			>5000 3.92
96CZC0002 H0822	20.00	21.00	37	<0.008	3	1050			>5000 2.08
96CZC0002 H0823	21.00	22.00	36	<0.008	3	722			>5000 1.71
96CZC0002 H0824	22.00	23.00	31	<0.008	1	691			>5000 1.46
96CZC0002 H0825	23.00	24.00	32	0.020	2	296			>5000 1.24
96CZC0002 H0826	24.00	25.00	10	<0.008	1	82			>5000 1.09
96CZC0002 H0827	25.00	26.00	9	<0.008	1	49			1789
96CZC0002 H0828	26.00	27.00	7	<0.008	1	22			1390
									622

APPENDIX 4

DRILL LOGS

Copper Mines of Tasmania - RC Percussion Drill Log

Project: <u>Copper Clays</u>	Prospect: <u>King Lyell</u>	Hole Number: <u>96KLC-0001</u>
Tenement: <u>EL52/94</u>	Survey: <u>5,341,835.374m</u> N	Total Depth: <u>70m</u>
Logged By: <u>K. Morrison</u>	<u>383,595.607m</u> E	Water Table: <u>1m, 19m</u>
Log Date: <u>23 August 1996</u>	<u>307.217m</u> RL	Base of Oxid'n: <u>67m</u>
Drilled By: <u>DDT - Tony Cherry</u>	<u>Vertical AZM 90°</u> DEC'N	Sample No's: <u>H0585-H0616, H0684-H0701</u>
Drilled Date: <u>23 August 1996</u>		Sample Sub No: <u>C0526, C0527</u>

DEPTH		CODE	DESCRIPTION	RESULTS					
FROM	TO								
0	5		Gravel, Fill						
5	7		Black clay, shale, mud - Tr. dissem. fine pyrite						
7	9		Black clay, mud, Tr. pyrite - contam. from cyclone, damp moderate size						
9	11		A/A						
11	13		A/A - Foam injection						
13	15		Black damp clay, minor contam. Tr. pyrite, good sample size						
15	17		A/A						
17	19		Dk green grey clay, Tr. fine pyrite Water flow 19m						
19	21		Black mud, clay, minor grey sltst - wet						
21	23		Grey mud, Qutz sst - small wet sample						
23	25		Indurated lt bm grey sltst, grey clay - Tr. pyrite						
25	27		A/A - hard broken rock, small wet sample						
27	29		A/A						
29	31		Grey sltst, mud, clay - small wet sample						
31	33		A/A - frequent cyclone, pipe blockages						
33	35		A/A						
35	37		A/A						
37	39		Bm indurated sltst, mud - small wet samples						

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Copper Mines of Tasmania - RC Percussion Drill Log

DEPTH		CODE	DESCRIPTION	RESULTS					
FROM	TO								
39	41		Bm. ferrug. clay - wet, moderate size sample, frequent blocking of inner pipe, cyclone						
41	43		Grey qtz sst, bm. clay, mud - small wet sample						
43	45		Grey sltst, sst, bm clay - wet large sample						
45	46		Bm. ferrug clay, minor grey siltstone - wet large sample						
46	47		Yell. bm. clay - Tr native Cu - wet large sample						
47	48		A/A						
48	49		A/A						
49	50		Black clay with ferrug. laterit. clay overprint - Tr. native Cu						
50	51		A/A						
51	52		Lateritic ferricrete, ferrug clay - abund. native Cu - small wet						
52	53		A/A						
53	54		Yell. bm ferrug clay overprinting black clay - common native Cu						
54	55		A/A						
55	56		A/A Tr V. Qutz - small wet samples (no min.)						
56	57		A/A						
57	58		Yell. bm, grey black clay, V. Qutz - small wet samples						
58	59		A/A						
59	60		A/A						
60	61		A/A						
61	62		A/A						
62	63		A/A						
63	64		A/A						
64	65		Yell. bm, grey black clay, V. Qutz - small wet sample						
65	67		Part Oxid. grey green cream fine qtz sst - small wet samples						
67	70		Grey, green Qutz sst with fuchsite, detrital spinel (Pioneer Beds)						
EOH									

Copper Mines of Tasmania - RC Percussion Drill Log

Project:	<u>Copper Clays</u>	Prospect:	<u>King Lyell</u>	Hole Number:	<u>96KLC-0002</u>
Tenement:	<u>EL52/94</u>	Survey:	<u>5,341,795 377m</u>	Total Depth:	<u>67m</u>
Logged By:	<u>K. Morrison</u>		<u>383,523.011m</u>	Water Table:	<u>3m</u>
Log Date:	<u>24 August 1996</u>		<u>308.656m</u>	Base of Oxid'n:	<u>66m</u>
Drilled By:	<u>DDT - Tony Cherry</u>	Vertical	<u>AZM 90°</u>	DEC'N	<u>H0617-H0656</u>
Drilled Date:	<u>24 August 1996</u>			Sample Sub No:	<u>C0526, C0527</u>

DEPTH		CODE	DESCRIPTION	RESULTS					
FROM	TO								
0	1		Quarry gravel						
1	2		Mixed fill						
2	3		Alluvial sand, gravel						
3	5		Black clay, mud - wet moderate size sample						
5	7		A/A Tr. pyrite						
7	9		Black dk grey clay, mud, Tr. pyrite - moderate size wet samples						
9	11		A/A						
11	13		Grey clay, lt brn. flinty indurated sst sltst - small wet samples						
13	15		A/A						
15	17		A/A						
17	19		Grey Qutz sst, sltst - large wet samples						
19	21		A/A						
21	23		A/A						
23	25		A/A						
25	27		A/A - small wet samples						
27	29		Lt brn grey flinty sltst, cherty, Qutz sst, grey clay - moderate size						
29	31		Grey, yell brn ferrug. clay - frequent water/foam injection						
31	33		A/A Tr. native Cu						

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Copper Mines of Tasmania - RC Percussion Drill Log

DEPTH		CODE	DESCRIPTION	RESULTS					
FROM	TO								
33	34		Yell red bm ferrug. wet clay - abund. native Cu						
34	35		A/A - minor native Cu						
35	36		A/A - minor native Cu, cuprite, ?chalcocite						
36	37		Yell, cream bm. ferrug. clay - very wet sample						
37	38		A/A - very wet small sample						
38	39		A/A						
39	40		A/A minor V. Qutz						
40	41		Mottled yell. bm cream ferrug. clays - very wet, small						
41	42		A/A						
42	43		A/A						
43	44		A/A						
44	45		A/A						
45	46		Mottled yell. bm. cream clays, frags, ferricrete laterite - small wet						
46	47		A/A						
47	48		Grey yell bm clay - small wet sample						
48	49		Mainly dk grey clay, mud						
49	50		A/A						
50	52		A/A						
52	54		Black, grey clay, mud - wet small samples						
54	56		Grey clay silt - Wet v. small sample						
56	58		A/A - Tr. native Cu						
58	60		Grey cream silty clay, mud - small wet sample						
60	62		Yell bm ferrug clay, Tr. laterite frags, Tr. native Cu						
62	64		A/A Tr. Native Cu						
64	67		Grey clay, ferrug clay, hard hematit. Qutz sst (Pioneer Beds)						
EOH									

359062

Copper Mines of Tasmania - RC Percussion Drill Log

Project:	Copper Clays	Prospect:	King Lyell	Hole Number:	96KLC-0003	
Tenement:	EL52/94	Survey:	5,341,753.238m	N	Total Depth:	60m
Logged By:	K. Morrison		383,549.045m	E	Water Table:	30m
Log Date:	25 August 1996		308.034m	RL	Base of Oxid'n:	57m
Drilled By:	DDT - Tony Cherry	Vertical	AZM 90°	DEC'N	Sample No's:	H0657 - H0683
Drilled Date:	25 August 1996				Sample Sub No:	C0527

DEPTH		CODE	DESCRIPTION	RESULTS						
FROM	TO									
0	1		Quarry gravel							
1	3		Mixed fill							
3	4		No return							
4	6		Fill, Gravel - Hammer from 6m							
6	8		Black clay, damp, minor dissem. pyr. - good sample size							
8	10		A/A							
10	12		A/A							
12	14		A/A							
14	16		A/A							
16	18		A/A							
18	20		A/A							
20	22		A/A							
22	24		A/A							
24	26		Black, grey clay, trace pyrite, moist - good sample size							
26	28		A/A							
28	29		A/A							
29	30		Grey med-fine Qtz sst, grey clay - water flow							
30	32		Lt bm, grey indurated Qtz sst, grey shale, mud, trace pyrite - wet small sample, foam in - 31m							

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DEPTH		CODE	DESCRIPTION	RESULTS					
FROM	TO								
32	34		A/A						
34	36		Indurated sst A/A, minor black shale - wet small sample						
36	38		Lt grey, bm indurated fine Qtz sst, sltst - moderate sample						
38	40		Lt bm, grey flint, conchoidal fractured cherty siltstone						
40	41		A/A						
41	42		A/A Tr. pyrite						
42	43		Lt bm. grey flinty sltst, fine Qtz sst, black shale/clay						
43	44		Cavities, small return of Qtz sst, sltst						
44	46		A/A						
46	48		Lt bm. grey indurated fine sst, sltst, black slate, V. Qtz - part oxid.						
48	49		Flinty sst, sltst, pyritic, abund. V. Qtz, minor black slate, shale - large sample						
49	50		A/A						
50	52		Part oxid. fine-med Qtz sst, minor black clay						
52	54		Part oxid. sst A/A						
54	56		Part oxid. Qtz sst sltst, black shale, Tr. V. Qtz - large sample						
56	57		A/A						
57	60		Fresh grey fine-med Qtz sst, very pyritic, in part orthoquartzite common green ?fuchsite, black detrital spinel - Pioneer Beds						
EOH									

359064

Project: Chamounix Zinc	Prospect: Cemetery Creek	Hole Number: 96CZC-001
Tenement: EL52/94	Survey: 5,341,364.268m N	Total Depth: 75m
Logged By: K. Morrison	384,913.776m E	Water Table: 6m Down Hole
Log Date: 27 August 1996	267.369m RL	Base of Oxid'n: -
Drilled By: DDT - Tony Cherry	223 AMG AZM 60° DEC'N	Sample No's: H0704-H0750, H0801-H0806
Drilled Date: 26 August 1996		Sample Sub No: C0527

DEPTH		CODE	DESCRIPTION	RESULTS							
FROM	TO										
0	6		Gravel, glacial till - steel casing 0-5.5								
6	7		Gravel, black humic mud - small wet sample								
7	8		Black shale, humic mud, V. Qutz - abund. water, small sample								
8	9		A/A								
9	10		A/A								
10	11		A/A - minor gravel contam. - small wet sample								
11	12		A/A								
12	13		A/A								
13	14		Black humic mud, gravel contam. - small wet sample								
14	15		A/A, V. Qutz								
15	16		Humic mud, black shale, V. Qutz - small wet sample								
16	17		A/A								
17	18		A/A minor pyr, sphal.								
18	19		A/A								
19	20		A/A + Galena								
20	21		Black shale, mud, Tr. V. Qutz - small wet sample								
21	22		A/A								
22	23		A/A								

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Copper Mines of Tasmania - RC Percussion Drill Log

DEPTH		CODE	DESCRIPTION	RESULTS						
FROM	TO									
23	24		Black shale, humic staining, Tr. V. Qutz - small wet sample							
24	25		A/A - larger sample							
25	26		A/A - small wet sample							
26	27		A/A - trace fine sulphides							
27	28		A/A - very small sample (no min)							
28	29		A/A							
29	30		A/A							
30	31		A/A - mainly black mud							
31	32		A/A							
32	33		A/A							
33	34		Part oxid. black shale, mud, V. Qutz - moderate size wet sample							
34	35		A/A							
35	36		A/A - slaty cleavage in shale, Tr. pyrite							
36	37		A/A - shale becoming harder							
37	38		A/A							
38	39		Blue grey fresh crystalline micritic lmst; calcite veining - abrupt contact							
39	40		A/A - large sample size							
40	41		A/A Tr. dissem. pyrite - slow drilling, large wet samples							
41	42		A/A							
42	43		A/A							
43	44		A/A							
44	46		A/A							
46	48		A/A							
48	50		A/A							
50	51		Black shale, powdered, dry, large sample							

Copper Mines of Tasmania - RC Percussion Drill Log

Project:	<u>Chamounix Zinc</u>	Prospect:	<u>Cemetery Creek</u>	Hole Number:	<u>96CZC-0002</u>
Tenement:	<u>EL52/94</u>	Survey:	<u>5,341,353.023m</u>	Total Depth:	<u>27m</u>
Logged By:	<u>K. Morrison</u>		<u>384,907.426m</u>	Water Table:	<u>6m Down Hole</u>
Log Date:	<u>28 August 1996</u>		<u>267.348m</u>	Base of Oxid'n:	<u>-</u>
Drilled By:	<u>DDT - Tony Cherry</u>		<u>223AMG AZM 60°</u>	Sample No's:	<u>H0807 - H0828</u>
Drilled Date:	<u>28 August 1996</u>			Sample Sub No:	<u>C0527</u>

DEPTH		CODE	DESCRIPTION	RESULTS						
FROM	TO									
0	6		Gravel, glacial till - PVC casing to 5.5							
6	7		Gravel, black mud - v. small wet sample							
7	10		Black shale, black mud, gravel contam. v. small wet sample - kitbit 5 - 11m, change to hammer 11m							
10	11		Black shale, black mud - small wet sample							
11	12		A/A Tr. pyrite, common V. Qutz							
12	13		Black mud, shale, V. Qutz - moderate sample size							
13	14		A/A - small sample, part oxid.							
14	15		A/A							
15	16		A/A							
16	17		Black shale, mud, abund, V. Qutz, minor coarse sphal. fine pyrite - large wet sample							
17	18		Oxid, humic stained black shale, mud, abund. V. Qutz, minor sphal. galena, pyr. - small wet samples							
18	19		V. Qutz, black shale, mud - moderate sample size							
19	20		Grey black shale, clay - moderate sample size							
20	21		A/A							
21	22		A/A							
22	23		Black shale, clay, mud - moderate sample size							
23	24		A/A							

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