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TASMANIA - EL 4/61

WEST COAST

REPORT ON FIELD INVESTIGATIONS
SUMMER FIELD SEASON 1981-1982

PART II

DAVIS CREEK - SPECIMEN CREEK
GEOCHEMICAL SURVEYS

Launceston
May 1982

PART IICONTENTS

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PART II

1

1. INTRODUCTION

This section of the report on the 1981-82 Field Season within EL4/61 deals with the Base Metal Surveys of the Davis Creek-Specimen Creek Area. As suspected gossanous material was observed in Davis Creek and near the Specimen Creek-McPhee Creek junction, a stream sediment survey was undertaken along Davis Creek during the 1980-81 Field Season. Results from this survey (see Report on Field Investigations within EL 4/61, West Coast, Tasmania - Period ended 24/8/81) were not encouraging. However, before the possibility of base metal mineralization was completely ruled out for this area, it was decided to undertake a 50-metre stream sediment sampling programme along the length of Specimen Creek from just downstream of its junction with Davis Creek, where the creek cuts through some "old silver-lead leases", some 1400-1500 metres upstream.

The results from the Davis Creek survey of 1981 were incorporated with the results of the Specimen Creek stream survey, to give a comprehensive stream sediment survey of the area.

Results from the stream sediment survey warranted a follow-up soil geochemical survey.

2. LOCATION, ACCESS, RELIEF, RAINFALL, VEGETATION AND GEOLOGY

The area of interest is situated approximately five (5) kilometres north of the Savage River Mine open cut.

Location, Access, Relief (Plans 1a & 1b), Rainfall, Vegetation and Geology, have already been outlined in the "Report on Field Investigations of the Hall Creek-Specimen Creek Area, EL 4/61" of 5 June 1980, and also in the six-monthly report on "Field Investigations within EL 4/61 for the period ended 24 August 1981".

The basic rock type of the area is the pelitic green schist, of Precambrian age, as described by Urquhart (1966). Fine to medium grained volcanics were observed in isolated localities. Magnetite was also observed within green schist in the upper reaches of Specimen Creek.

The regional geology is detailed in Part I of the 1981/82 Field Season Report.

PART II

Transparencies held in vertiplan under No
82-1781 part 2 - 11 Plans

PLANS

1a - 11

- 1a . Location Geochemical Surveys, Track Construction, 1981-82
Field Season EL 4/61.
- 1b . Relief Northern EL 4/61 - outlining Davis Creek-Specimen Creek area.
- 2 . Davis Ck-Specimen Ck Geochemical Stream Sediment Survey - Sample Location.
- 3 . " " " " " " - Copper ppm.
- 4 . " " " " " " - Zinc "
- 5 . " " " " " " - Lead "
- 6 . " " " Soil Survey - Sample Location.
- 7 . " " " " " " - Copper ppm.
- 8 . " " " " " " - Zinc "
- 9 . " " " " " " - Lead "
- 10 . " " " " " " - Copper Contours.
- 11 . " " " " " " - Zinc "

APPENDICES

- A Analyses & Statistical Evaluation - Stream Sediment Survey.
- B " " " - Soil Survey.
- C Mineralogical Examination of Stream Sediment sample No 106.

3. STREAM SEDIMENT SURVEY

3.1 General

Some 85 wet stream sediment samples were collected at fifty (50) metre intervals along Davis Creek and Specimen Creek (Plan 2). Location of samples was surveyed by tape and compass, using Traverse 300 S of the Specimen Reef Grid as control.

Samples were dried and sieved at base as follows:

+ 40	retained in sample bags
- 40 + 80	" " " "
- 80	forwarded to Analabs, Burnie, for analysis by atomic absorption (AAS) - perchloric acid digestion.

Sample Locations and Analyses were plotted on a 1:4000 map scaled from the Horton 1:20,000 topographic dyelines. (Plans 2,3,4,5)

3.2 Analyses (Appendix A)

The -80 fractions were analysed for copper, lead, zinc, gold and silver. The lowest limits of detection and accuracy of analysis of the various elements are as follows:

	<u>Detection</u>	<u>Accuracy</u>
Copper	5 ppm	± 5%
Lead	5 ppm	± 5%
Zinc	5 ppm	± 5%
Gold	0.03 ppm	± 5%
Silver	0.5 ppm	± 5%

3.3 Statistical Evaluation (Appendix A)

Analytical results for copper, lead and zinc were studied statistically using the Cumulative Frequency method involving medians and quartiles. Silver and gold results were such that a statistical evaluation was not warranted. The gold values, above 1 ppm, in the vicinity of Specimen Creek, are obviously related to the "old mine workings". A summary of the median value, standard deviation, and lowest anomalous value are given below, in parts per million.

<u>No of Samples</u>	<u>Element</u>	<u>Median</u>	<u>Std Deviation</u>	<u>Lowest Anomalous</u>
85	Copper	41	33	173
85	Lead	3.9	11.6	50.1
85	Zinc	98	102	506

3.4 Results of Statistical Evaluation and Conclusions

Two anomalous readings were obtained for copper and seven anomalous readings for zinc (Sections 1 & 2, Appendix A). They are as follows:

<u>Element</u>	<u>Sample</u>	<u>ppm</u>
Copper	106	205
	107	175
Zinc	87	605
	105	775
	106	3050
	107	975
	108	1650
	109	2150
	112	1300

Samples 105 to 112 represent a distance, along Specimen Creek, of some 200 metres.

There was some doubt about the validity of the zinc results, as this "200 metre anomalous zone" did contain some Ferric Hydroxide gel contamination from the "old Specimen Reef workings" - ferric hydroxide being a ferocious scavenger, particularly for zinc.

The plus 40 fraction of sample 106, the sample with the highest Zinc content in the -80 fraction (3050 ppm), was forwarded to the Department of Mines mineralogist, David Green, for examination. It was found to contain "probable sphalerite" (see Appendix C). Thus it was decided that a follow-up geochemical survey was warranted, to verify or negate the anomalous values obtained.

4. SOIL SURVEY

4.1 General

A grid was cut over the possible anomalous area, as suggested by the stream sediment survey, using the 300S/400W station on the 1980-81 Specimen Reef Grid as the datum point (see Plan 6).

From this datum, a baseline was cut, at an approximate bearing of 230° Magnetic, for a distance of some 700 metres, towards the junction of Davis and Specimen Creeks. Traverses were then cut, at right angles to the baseline, at 100 metre intervals, and extended in a south-easterly direction, to cover the area of interest. Sample stations were surveyed along the baseline and traverses at ground-slope corrected at 25 metre intervals, using tape and clinometer. Sample locations and analyses were plotted on a 1:500 map scaled from the 1:20,000 topographic dyelines as issued by the Lands Department. (Plans 6,7,8,9)

4.2 Sampling

Samples were obtained by hand augering, the upper "C" horizon being collected. Samples were dried and sieved at base as for the stream sediment samples, the minus 80 fraction again being forwarded to Analabs, Burnie, for analysis by AAS - perchloric acid digestion. Coarser fractions were retained in their sample bags.

4.3 Analyses (Appendix B, Plans 7,8,9)

As for the stream sediment survey, samples were analysed for Cu, Pb, Zn, Ag and Au. Limits of detection and accuracy of analysis is as for the stream sediment analyses.

4.4 Statistical Evaluation (Appendix B)

Lead, Silver and Gold values were such that a statistical evaluation was not warranted. Copper and Zinc values were studied statistically using the Cumulative Frequency method as outlined for the stream sediment evaluation.

A summary of the median values, standard deviation, and lowest anomalous values are as follows, in parts per million.

<u>No of Samples</u>	<u>Element</u>	<u>Median</u>	<u>Std Deviation</u>	<u>Lowest Anomalous</u>
153	Copper	65	81	389
153	Zinc	48.5	58.5	282.5

4.5 Results of Statistical Evaluation (Graphs 1 & 2, Appendix B)

The statistical evaluation resulted in one anomalous reading for Copper and three anomalous, plus two near-anomalous, readings for Zinc. All anomalous values are of low rank.

The anomalous readings are as follows:

<u>Element</u>	<u>Sample</u>	<u>ppm</u>
Copper	DC 400/300S	405
Zinc	DC 500/175S	285
	DC 500/200S	425
	DC 700/325S	425

The near-anomalous zinc readings are as follows:

<u>Element</u>	<u>Sample</u>	<u>ppm</u>
Zinc	DC 500/250S	270
	DC 700/350S	280

5. CONCLUSIONS

On using a statistical basis for the evaluation of data from the soil geochemical survey, one anomalous copper value and three anomalous zinc values were obtained.

The isolated soil copper anomaly at DC 400/300S, of 405 ppm, ties in with the stream sediment sample No 106, of 206 ppm. It is of low rank and of little interest.

The soil zinc anomalies are of greater interest. There are no statistically computed zinc anomalous values in the vicinity of the stream sediment anomalous zone between samples 105 and 112. This suggests that these anomalous values probably are due to contamination from the "old Specimen Reef workings". Only stream sediment sample No 106 of 3050 ppm, with the probability of sphalerite in the plus 40 fraction (see Appendix C) may have some back-up by soil sample. Sample DC 800/300S, of 245 ppm, is located some 8 metres to the west, that is, downstream.

The soil zinc anomalous values are on Traverse DC 500, at 175S and 200S, and on Traverse DC 700, at 350 S. These locations are upstream and upslope of stream sediment anomalous sample No 87, of 605 ppm, and may well be related.

In any evaluation of geochemical data, it is difficult to determine which values are truly representative of background. Thus to assist in the interpretation of analytical results, maps were compiled for both copper and zinc analyses, using 25,50,100,200 and 400 ppm contours (Plans 10 & 11).

Contouring verified the statistical results in outlining one anomalous copper zone and two sub-parallel anomalous zinc zones, trending at approximately grid W-E (AMG).

The small copper zone within the 800 ppm contour is of little interest.

The zinc zones of interest are:

- (1) In the area of Traverse DC 500, from 175S to 250S, and possibly extending eastwards towards DC 400/300S (245 ppm) and stream sediment sample No 106 (3050 ppm in -80 fraction - probably contaminated - and probable sphalerite in +40 fraction). This zone is, in the main, concentrated on the northern side of Specimen Creek.
- (2) Traverse DC 700, from 325S to 350S. This zone is located some 250 metres south of Specimen Creek and some 250 to 300 metres S.S.W. of Zone (1) above.

The zone on the DC 700 traverse is open-ended to the west. It is within near proximity to where 200 ppm Zinc was recorded in gossanous material. (See report "Field Investigations within EL 4/61, West Coast Tasmania - period ended 24 August 1981 - Appendix B - McPhee Camp Gossan.") This zone may well represent low grade zinc mineralization, but unfortunately any extension of this open-ended zone to the west is within the Savage River Mines Northern Lease.

The zone around the DC 500 traverse is also probably due to some low grade zinc mineralization, the location of which was not observed on the ground. The rank of the anomalous values as outlined by the statistical evaluation, plus the possible dimensions as suggested by the anomalous and near-anomalous values and the contoured plan, are of insignificant proportions which do not warrant further investigations.

M. EDYVEAN, B.Sc.

10 May, 1982.

References:

- M. Edyvean "Report on Field Investigations of the Hall Creek-Specimen Creek area, EL 4/61"
5 June 1980. IMI report.
- M. Edyvean "Field Investigations within EL 4/61, West Coast, Tasmania - period ended 24 August 1981"
IMI report.
- M. Edyvean "Quarterly Report for period ended 24 November 1981 - EL 4/61, West Coast, Tasmania"
IMI report.
- Urquhart
(1966) "Magnetite Deposits of the Savage River-Rocky River Region"
Geol. Survey Bulletin No 48.

"The UTEM survey in the area showed only short time constant anomalies that could be attributed to regional conductivity. As a result, it would appear that the country rock is reasonably resistive, and that near surface weathering, if present, has not lead to a significant conductivity increase. The response present is interpreted to be due to a near surface layer of conductance less than 0.2 Siemens. Its effect shows up as a migrating crossover at the earliest times, limiting amplitudes close to -200% for channel 9 (the earliest time channel plotted), and in a small positive rise in the intermediate time channels away from the loop.

No good conductors were detected within the survey area. However crossover anomalies with short time constant response are present on all lines, and have been grouped into zones as shown on the compilation map. Each zone will be individually discussed.

Zone A: The anomalies in this zone have the largest amplitudes of any of the localized anomalies detected. The source is interpreted to be fairly steeply dipping. However, as the response has a fairly short time constant of only 0.2 msec, and at the early delay times there is a fair response due to regional conductivity, a quantitative estimation of dip cannot be made as this requires a fix on zero levels.

It is also possible that the observed response is due to current channeling rather than direct toroidal induction in a localised conductor. A poorly conducting shear zone for example, in contact with the overburden conductivity could explain the response. However, the fact that the response changes character significantly from line to line argues against this. The zone appears shallowest on lines 5950 and 5900E with an interpreted depth to top of less than 25m, and appears to end at around line 6000E. The zone extends west off the grid, and is interpreted to be at somewhat greater depths of around 35 to 50m on the westernmost lines surveyed.

Assuming a 500m strike length and that pure toroidal induction is the cause of the anomaly, the conductance of the source would be about 1.3 Siemens.

82-1782

APPENDIX A.

756012 100

DAVIS CK - SPECIMEN CK. STREAM SEDIMENT SURVEY. ELA/GI

ANALYSES AND STATISTICAL EVALUATION.

GEOCHEMICAL RESULT SHEET

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag				
1	50 27	60 X	10	65	0.5				
2	28	100 X	10	80	0.5				
3	29	35 X	X	35	0.5				
4	30	50 X	15	65	0.5				
5	31	40 X	5	90	0.5				
6	32	35 X	10	70	0.5				
7	33	85 X	5	75	X				
8	34	75 X	10	105	0.5				
9	35	80 X	5	140	0.5				
10	36	80 X	5	130	0.5				
11	37	60 X	X	95	0.5				
12	38	60 X	10	90	X				
13	39	50 X	5	85	0.5				
14	40	15 X	X	25	0.5				
15	41	40 X	X	65	0.5				
16	42	40 X	5	90	0.5				
17	43A	50 X	5	110	X				
18	43B	50 X	X	120	0.5				
19	45	45 X	5	120	X				
20	46	30 X	5	100	X				
21	47	35 X	5	100	X				
22	48	45 X	5	135	0.5				
23	49	15 X	X	55	0.5				
24	50	30 X	5	105	X				
25	51	15 X	X	65	0.5				
26	52	30 X	X	90	0.5				
27	53	25 X	X	90	X				
28	54	30 X	X	110	X				
29	55	10 X	X	20	X				
30	56	35 X	5	125	0.5				
31	57	35 X	5	115	0.5				
32	58	40 X	X	90	0.5				
33	59	45 X	X	105	X				
34	60	30 X	X	85	0.5				
35	61	35 X	X	95	0.5				
36	62	40 X	X	100	X				
37	63	45 X	X	100	X				
38	64	30 X	X	90	0.5				
39	65	25 X	X	90	X				
40	D.C. 1	35	X	20	X				
Detection		5	5	5	0.5				
Standard	ASS 5	460	300	130	0.5				
Report				60					

RESponsible OFFICER *B. Dorn*
 7 1 3 1 81

Units in ppm unless otherwise specified
 element present; but concentration too low to measure
 element concentration is below detection limit
 element not determined.

ANALABS

A DIVISION OF MACDONALD HAMILTON & CO. PTY. LTD.
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Phone (09) 458 7999

756015

ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 999.0.08.640

Client: Industrial & Mining Investigations
(1) 1st Floor, A.M.P. Building
46 St John St
Launceston

Order No. Date Received 23/10/81
Reference Results Required
Delivered by Total No. of Samples 24

(2) SAMPLE NUMBERS	STATE OF SAMPLES	Average Weight	PRETREATMENT								ANALYSIS				
	Refer to section (5) for terminology		Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	Refer to section (5) for terminology			Preparation	Method
<u>50 66-84</u>	<u>AV</u>									<u>1</u>	<u>Cu Pb Zn Ag</u>	<u>Al/1</u>			
<u>50 86-90</u>											<u>Au</u>	<u>L45</u>			

(3) Number of pages of results: 2
Date Reported: 25/10/81
Results to: (1) As Above (2)
Per: Mail
Number of Copies: 3

(4) Remarks:

(5) STATE OF SAMPLES	ANALYSIS - PREPARATION				ANALYSIS - METHOD	
whole core WC	perchloric acid A1	cold acid CA	atomic absorption AAS			
split core SC	hydrochloric acid A2	specific sulphide SS	x-ray fluorescence XRF			
cutting CU	nitric acid A3	other mixed acids MA	spectrophotometry SPEC			
rock Ro	aqua regia A4	alkaline attack AA	colorimetry COL			
soil SO	nitric-perchloric A5	volatilization VO	chromatography CHR			
pulp PU	HF mixture A6	ignition IG	titration TTN			
water WA	HF under pressure A7	pressed powder (XRF) PP	other chemical means CHEM			
tissue TI	fusion A8	glass fusion (XRF) GF	miscellaneous MISC			
stream sediment SS			fluorescence FLUOR			
heavy mineral HM						

Authorized Officer: B. Dora

ATTENTION Please advise us regarding the disposal of your samples. JOB No.

DISCARD IMMEDIATELY KEEP UNTIL ADVISED (A STORAGE CHARGE WILL BE MADE)
 DISCARD AFTER 2 MONTHS RETURN TO:
 (PLEASE TICK APPROPRIATE BOX)

TUBE No.	SAMPLE No.	Au	wt assayed (g)					
1	50	66	INSUFFICIENT	SAMPLE				
2		67	0.80		2.00			
3		68	X		1.00			
4		69	X		1.00			
5		70	1.98		5.00			
6		71	0.06		5.00			
7		72	X		5.00			
8		73	X		2.00			
9		74	0.03		5.00			
10		75	X		4.00			
11		76	X		1.00			
12		77	INSUFFICIENT	SAMPLE				
13		78	X		2.00			
14		79	X		2.00			
15		80	X		5.00			
16		81	X		5.00			
17		82	0.28		4.00			
18		83	0.80		2.00			
19		84	X		5.00			
20		86	X		5.00			
21		87	0.24		2.00			
22		88	0.32		4.00			
23		89	X		5.00			
24	50	90	X		1.00			
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
Detection		0.03						
Standard								
Repeat-								
Repeat-								

RESPONSIBLE OFFICER B. Dean
27/10/81

is in ppm unless otherwise specified
 element present; but concentration too low to measure
 element concentration is below detection limit
 = element not determined

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27.10.81

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2

28.10.81

3

22

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						OTHER SEE REMARKS	NO.	ANALYSIS		
			DRY	CRUSH	SPLIT	PULVERISE	SEVE	REFER TO ANALYSIS SECTION			PREPARATION	METHOD	
	PU	50 91 / 50 112							1	Cu Pb Zn Ag Au	A1	AAS LGS	

RESULTS TO

As Above

RESULTS TO

REMARKS

STATE OF SAMPLES	ANALYSIS - PREPARATION	ANALYSIS - METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemical means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

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PAGE

50		999.0 08 649				28.10.81					10F
TUBE No.	SAMPLE No.	Cu	Zn	Pb	Mn	Fe	Cr				
1	91	55	225	X	1.4	20	5.00				
2	92	45	65	X	0.16	30	1.00				
3	93	25	35	X	0.03	10	5.00				
4	94	20	30	X	X	15	5.00				
5	95	90	115	X	X	25	4.00				
6	96	65	85	X	X	25	5.00				
7	97	40	55	X	0.03	40	5.00				
8	98	40	50	X	0.03	25	5.00				
9	99	25	40	X	X	30	5.00				
10	100	10	25	X	1.1	20	5.00				
11	101	10	35	X	X	15	4.00				
12	102	40	50	X	X	25	4.00				
13	103	40	45	X	X	20	5.00				
14	104	60	90	X	X	20	5.00				
15	105	110	775	X	1.9	20	3.00				
16	106	205	3050	X	0.64	35	1.00				
17	107	105	975	X	X	25	1.00				
18	108	175	1650	0.5	0.08	30	2.00				
19	109	160	2150	X	0.32	35	1.00				
20	110	90	345	X	2.7	15	3.00				
21	111	115	200	X	1.6	20	4.00				
22	112	160	1300	X	1.4	25	5.00				
23											
24											
25											

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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SAMPLE PREFIX

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PAGE

50		999.0 08 649				28.10.81				20F	
TUBE No.	SAMPLE No.	Cu	Zn	Pb	Au	Pb	(wt.%)				
1	ASS5	435	110	1.0		330					
2	50 91	55	220	X		15					
3	50 110	90	340	0.5		10					
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23	DETECTION	5	5	0.5	0.03	5					
24	DIGESTION	A1	A1	A1		A1					
25	METHOD	A1/1	A1/1	A1/1	LGS	A1/1					

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER

B. D.

STATISTICAL EVALUATION (COPPER) DAVIS-SPECIMEN CK SURVEY - EL4/6188

(Stream Sediment)

ppm	10	15	20	25	30	35	40	45	50	55	60	65
Frequency	3	3	3	6	7	9	10	7	6	3	5	1
Cumulative Frequency	3	6	9	15	22	31	41	47	55	58	63	64
Cumulative %	3.5	7.1	10.6	17.6	25.9	36.5	48.2	57.6	64.7	68.2	74.1	78.3

ppm	70	75	80	85	90	100	105	110	115	160	175	205
Frequency	3	2	3	1	3	2	1	1	1	2	1	1
Cumulative Frequency	69	69	72	73	76	78	79	80	81	83	84	85
Cumulative %	78.8	81.2	84.7	85.9	89.4	91.8	92.9	94.1	95.3	97.6	98.8	100.0

STATISTICAL EVALUATION (ZINC) DAVIS-SPECIMEN CK SURVEY EL4/6⁸⁷

(Stream Sediment)

p.p.m.	20	25	30	35	40	45	50	55	65	70	75	80	85	90	95
Frequency	1	2	1	3	1	1	3	2	6	1	2	1	3	9	4
Cumulative Frequency	1	3	4	7	8	9	12	14	20	21	23	24	27	36	40
Cumulative %	1.2	3.5	4.7	8.2	9.4	10.6	14.1	16.5	23.5	24.7	27.1	29.2	31.7	42.4	47.1

ppm	100	105	110	115	120	125	130	135	140	160	165	170	175	180	190
Frequency	4	3	3	2	2	2	1	1	3	1	1	1	1	1	1
Cumulative Frequency	44	47	50	52	54	56	57	58	61	62	63	64	65	66	67
Cumulative %	57.8	59.3	59.8	61.2	63.5	65.9	67.1	67.2	71.8	72.9	74.1	75.3	76.5	77.6	78.8

p.p.m.	175	200	225	265	275	285	300	345	380	440	605	775	775	1200	1650	2150
Frequency	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Cumulative Frequency	68	69	70	71	72	73	74	75	76	78	79	80	81	82	83	84
Cumulative %	90	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.8	93.0	94.1	95.3	96.5	97.6	98.8

ppm	3050
Frequency	1
Cumulative Frequency	85
Cumulative %	100.0

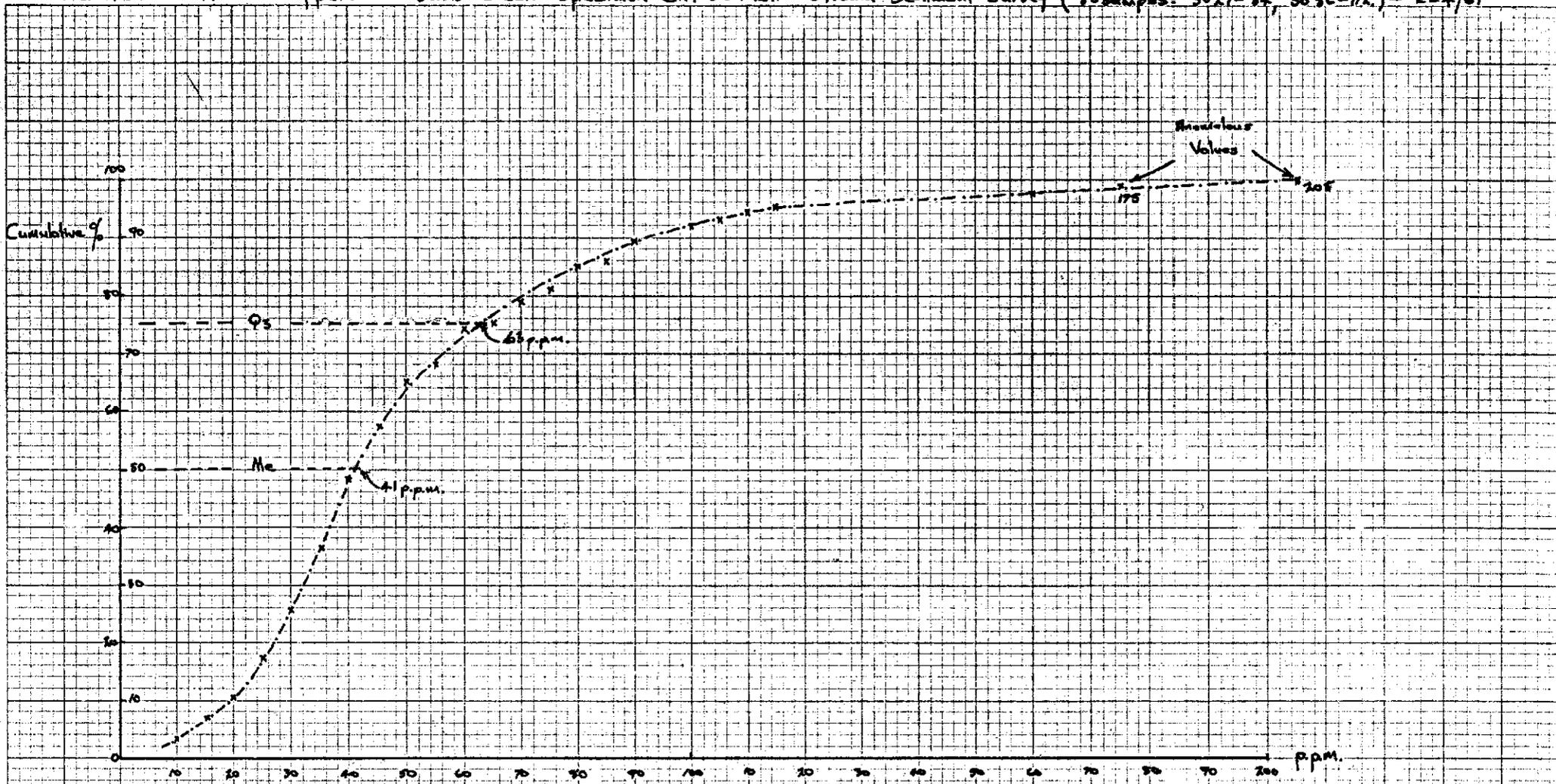
STATISTICAL EVALUATION (LEAD) JAVIS-SPECIMEN CK SURVEY ELA/61

(Stream Sediment)

ppm	NIL	5	10	15	20	25	30	35
Frequency	24	26	11	7	6	6	3	2
Cumulative Frequency	24	50	61	68	74	80	83	85
Cumulative %	28.2	58.8	72	80	87	94	97.5	100

Statistical Evaluation Copper: Davis Creek - Specimen CK. 50 Matra Stream Sediment Survey (85 samples: 5027-34, 5036-113.) - ELA/61

75602A



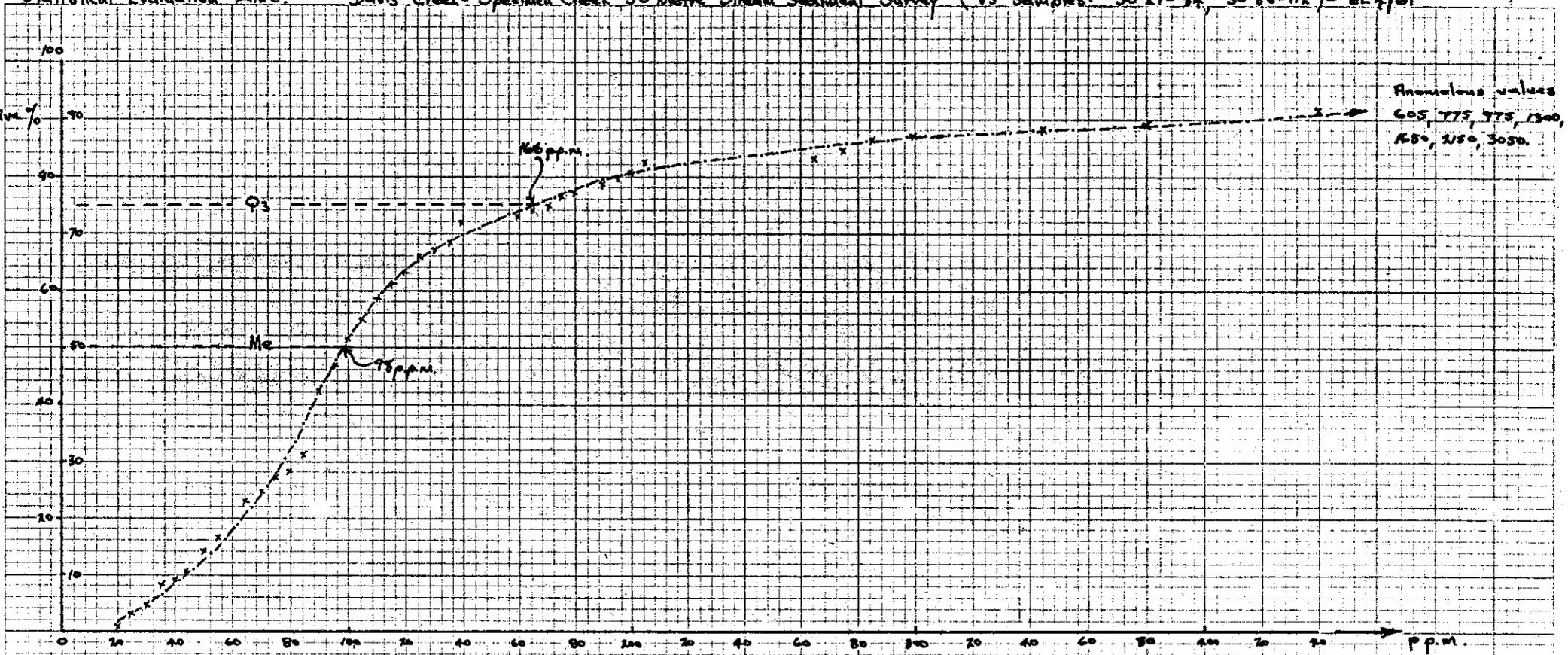
$Q_3 = 75\% = 63 \text{ ppm.}$
 $Me = 50\% = 41 \text{ ppm.}$
 Std. Deviation $= 1.5(Q_3 - Me) = 1.5(22) = 33 \text{ ppm.}$
 Normal Distribution $= Me + \text{Std. Dev.} = 41 + 33 = 74 \text{ ppm.}$
 Anomalous Value $= Me + 4 \text{ Std. Dev.} = 41 + 132 = 173 \text{ ppm.}$

 Anomalous Samples: No. 106 = 205 ppm.
 No. 108 = 175 ppm.

M. EBYEAR - MAY 1982
 INDUSTRIAL AND MINING INVESTIGATIONS
 PTY. LTD.

Statistical Evaluation Zinc: Davis Creek - Specimen Creek 50 Metre Stream Sediment Survey (85 Samples: 50 87-94, 50 86-112) - EL 4/61

756025



$Q_3 = 75\% = 164 \text{ p.p.m.}$

$Me = 50\% = 98 \text{ p.p.m.}$

Std. Deviation = $1.5 (Q_3 - Me) = 1.5 (68) = 102 \text{ p.p.m.}$

Normal Distribution = $Me + \text{Std. Dev.} = 98 + 102 = 200 \text{ p.p.m.}$

Anomalous Value = $Me + 4 \text{ Std. Dev.} = 98 + 408 = 506 \text{ p.p.m.}$

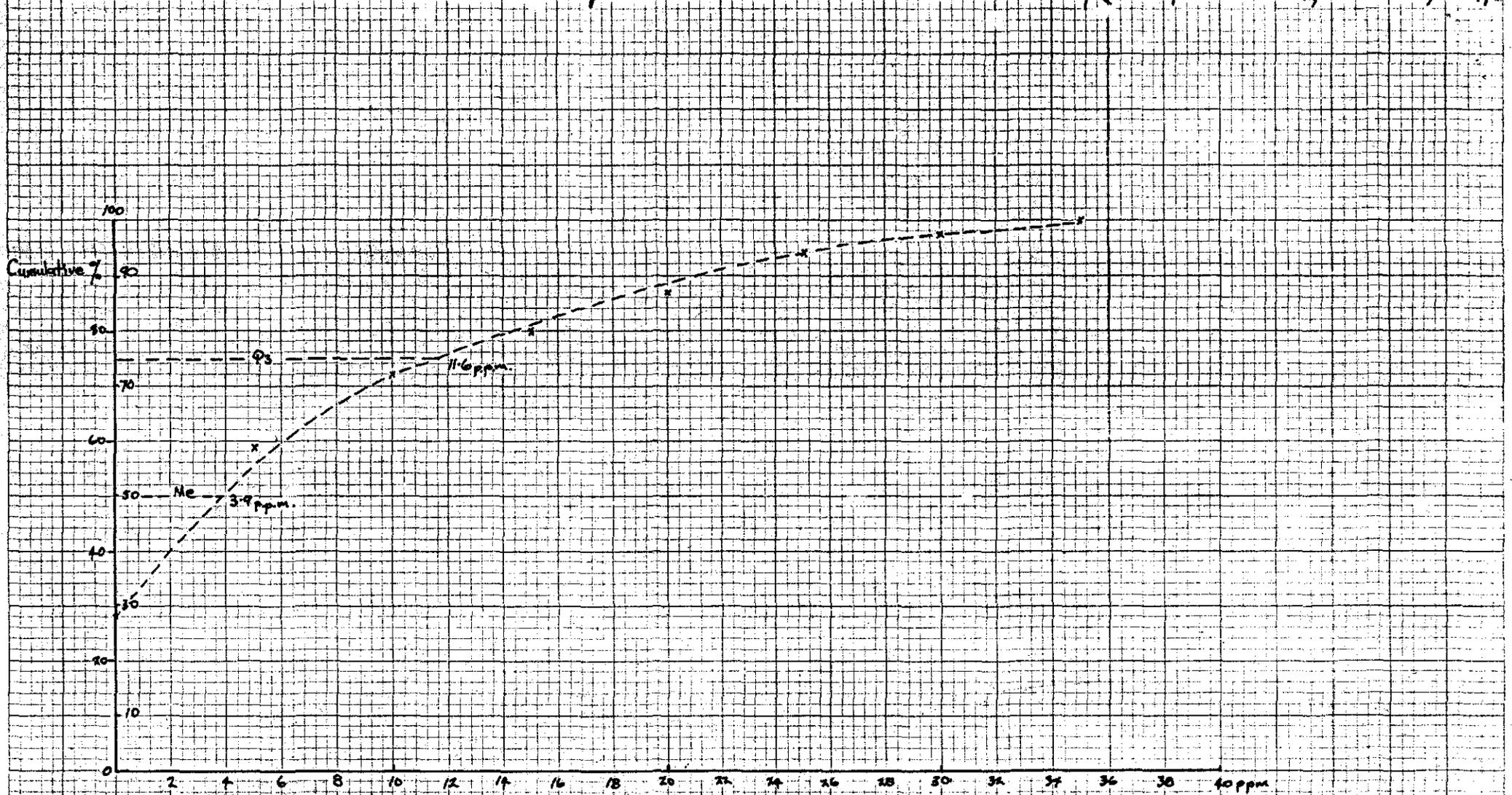
Anomalous Samples:

No. 87	: 605 p.p.m.
No. 105	: 775 "
No. 109	: 775 "
No. 112	: 1300 "
No. 108	: 1650 "
No. 107	: 2150 "
No. 106	: 3050 "

M. EDVEANT - MAY 1982.
INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.

Statistical Evaluation Lead: Davis Creek-Specimen Creek 50 metre Stream Sediment Survey (85 Samples: SO 27-84, SO 86-112)-FLA/41

756026



$Q_3 = 75\% = 11.6 \text{ ppm.}$
 $Me = 50\% = 3.9 \text{ ppm.}$

$Std. Deviation = 1.5(Q_3 - Me) = 1.5(7.7) = 11.55 \text{ ppm.}$

$Normal Distribution = Me + Std. Dev. = 3.9 + 11.55 = 15.45 \text{ ppm.}$

$Anomalous Value = Me + 4 Std. Dev. = 3.9 + 46.2 = 50.10 \text{ ppm.}$

Anomalous Samples: NIL

M. EDYNEAN - MAY 1972
 INDUSTRIAL AND MINING INVESTIGATIONS
 (PTY. LTD.)

APPENDIX B.

DAVIS CK - SPECIMEN CK SOIL SURVEY. - E44/61

ANALYSES AND STATISTICAL EVALUATION.

ANALABS

Phone (09) 458 7999

A division of MacDonold Hamilton & Co. Pty Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No. 999.0 08 738

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

Industrial & Mining Investigations
1st Floor AMP Building
46 St John St
Launceston Tas 7250

ORDER No.	PROJECT
DATE RECEIVED	RESULTS REQUIRED
10.12.81	

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
	15.12.81	3	153

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
	Pu	Various								1	Cu Pb Zn Ag Ru	A1	AAS LGS

RESULTS TO

H3 Above

RESULTS TO

P0 Box 178
Savage River
Tas 7321

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

AUTHORISED OFFICER *B. Dora*

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		999.0 08 738			15.12.81				1 OF 8	
TUBE No.	SAMPLE No.		Cu	Zn	Pb	Mn	Pb			
1	100 0258		115	70	X	X	10			
2	100 0508		150	70	X	X	5			
3	100 0758		70	95	X	X	10			
4	100 1008		65	25	X	X	5			
5	100 1258		160	50	X	X	5			
6	100 1508		170	25	X	X	X			
7	100 1758		140	40	X	X	5			
8	100 2008		50	55	X	X	10			
9	100 2258		55	40	X	X	10			
10	100 2508		40	60	X	X	10			
11	200 0258		135	50	X	X	10			
12	200 0508		95	45	X	X	25			
13	200 0758		150	55	X	X	20			
14	200 1008		125	75	X	X	10			
15	200 1258		215	80	X	X	10			
16	200 1508		125	115	X	X	X			
17	200 1758		40	25	X	X	10			
18	200 2008		25 ✓	25	X	X	5			
19	200 2258		45	15	X	X	5			
20	200 2508		140	40	X	X	10			
21	300 0258		5 ✓	10	X	X	10			
22	300 0508		55	60	X	X	20			
23	300 0758		45	55	X	X	10			
24	300 1008		85	50	X	X	10			
25	300 1258		160	85	X	X	10			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER

B. Don

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

756030

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		999.0 08 738			15.12.81				2 OF 3	
TUBE No.	SAMPLE No.		Cu	Zn	Ag	Hg	Pb			
1	300 150S		20 ✓	75	X	X	25			
2	300 175S		100	70	X	X	5			
3	300 200S		20 ✓	90	X	X	10			
4	300 225S		35 ✓	60	X	X	10			
5	300 250S		90	85	X	X	5			
6	300 275S		45	30	X	X	5			
7	300 300S		60	40	X	X	5			
8	300 325S		135	60	X	X	10			
9	300 350S		125	80	X	X	10			
10	300 375S		200	100	X	X	10			
11	300 150W		10 ✓	15	X	0.06	115			
12	300 175W		X ✓	15	X	X	20			
13	300 200W		70	25	X	X	25			
14	300 225W		265	60	X	X	20			
15	300 250W		145	35	X	X	10			
16	300 275W		100	35	X	X	X			
17	300 300W		70	60	X	X	X			
18	300 325W		75	25	X	X	X			
19	300 350W		70	40	X	X	X			
20	300 375W		20 ✓	25	X	X	X			
21	300 400W		20 ✓	25	X	X	X			
22	300 425W		35 ✓	40	X	X	X			
23	300 450W		35 ✓	20	X	X	X			
24	300 475W		60	5	0.5	X	X			
25	400 025S		X ✓	X	0.5	X	X			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER

B. Don

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A division of MacDonald Hamilton & Co. Pty. Ltd.

756031

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		999.0 08 738				15.12.81				3 OF 5	
TUBE No.	SAMPLE No.		Cu	Zn	Pb	Hg	Pb				
1	400 050S		10 ✓	5	X	X	X				
2	400 075S		55	15	X	X	X				
3	400 100S		90	20	X	X	X				
4	400 125S		45	25	X	X	X				
5	400 150S		10 ✓	10	X	X	X				
6	400 175S		10 ✓	5	X	X	X				
7	400 200S		145	40	X	X	X				
8	400 225S		105	50	X	X	X				
9	400 250S		25 ✓	50	X	X	X				
10	400 275S		30 ✓	50	X	X	X				
11	400 300S		405	245	X	X	X				
12	400 325S		135	110	X	X	X				
13	400 350S		130	65	X	X	X				
14	400 375S		45	80	X	X	X				
15	400 400S		30 ✓	25	X	X	X				
16	400 425S		10 ✓	10	X	X	X				
17	400 450S		X ✓	10	0.5	X	X				
18	400 475S		50	20	X	X	X				
19	500 025S		10 ✓	35	X	X	X				
20	500 050S		60	55	X	X	X				
21	500 075S		40	45	X	X	X				
22	500 100S		20 ✓	15	X	X	X				
23	500 125S		20 ✓	70	X	X	X				
24	500 150S		85	210	X	X	X				
25	500 175S		155	285	X	X	X				

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER *B. Don*

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ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

SAMPLE PREFIX			REPORT NUMBER			REPORT DATE		CLIENT ORDER No.		PAGE	
			999.0 08 738			15.12.81				4 OF 8	
TUBE No.	SAMPLE No.		Cu	Zn	Pb	Hg	Pb				
1	500 200S		45	425 ✓	X	X	X				
2	500 225S		80	155	X	X	X				
3	500 250S		135	270	X	X	X				
4	500 275S		225	120	X	X	X				
5	500 300S		205	75	X	X	X				
6	500 325S		265	40	X	0.03	5				
7	500 350S		185	25	X	X	5				
8	500 375S		105	25	X	X	5				
9	500 400S		100	60	X	X	10				
10	500 425S		30 ✓	10	X	X	5				
11	500 450S		15 ✓	5	X	X	10				
12	500 125W		55	25	X	X	5				
13	500 150W		45	35	X	X	X				
14	500 175W		90	25	X	X	10				
15	500 200W		55	50	X	X	5				
16	500 225W		115	50	X	X	10				
17	600 025S		30 ✓	20	X	X	5				
18	600 050S		40	55	X	X	10				
19	600 075S		30 ✓	30	X	X	10				
20	600 100S		5 ✓	10	X	X	10				
21	600 125S		45	115	X	X	20				
22	600 150S		80	160	X	X	30				
23	600 175S		45	90	X	X	35				
24	600 200S		80	80	X	X	20				
25	600 225S		40	55	X	X	25				

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER *B. D. ...*

ANALABS

A division of MacDermid Hamilton & Co. Pty. Ltd.

756033

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.0 08 736

15.12.81

5 OF 8

TUBE No.	SAMPLE No.		Cu	Zn	Hg	Pb	Pk			
1	600 250S		100	80	X	X	15			
2	600 275S		265	195	X	X	5			
3	600 300S		110	150	X	X	15			
4	600 325S		190	170	X	X	10			
5	600 350S		250	160	X	X	10			
6	600 375S		85	225	X	X	5			
7	600 400S		230	130	X	X	15			
8	600 425S		200	115	X	X	5			
9	600 450S		115	95	0.5	X	10			
10	600 475S		110	85	X	X	5			
11	700 025S		5 ✓	5	0.5	X	5			
12	700 050S		20 ✓	5	0.5	X	5			
13	700 075S		75	140	X	X	15			
14	700 100S		120	110	X	X	5			
15	700 125S		90	95	X	X	10			
16	700 150S		110	125	X	X	15			
17	700 175S		140	140	X	X	25			
18	700 200S		70	105	X	X	10			
19	700 225S		115	145	X	X	15			
20	700 250S		40	135	X	X	10			
21	700 275S		60	210	0.5	X	X			
22	700 300S		95	145	X	X	X			
23	700 325S		130	425	X	X	X			
24	700 350S		150	280	X	X	X			
25	Base line 000		270	110	X	X	X			

Results in ppm unless otherwise specified

- T = element present; but concentration too low to measure
- X = element concentration is below detection limit
- = element not determined

AUTHORISED OFFICER

B. Doran

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

			999.0 08 738			15.12.81				6 OF 5	
TUBE No.	SAMPLE No.		Cu	Zn	Pb	Hg	Pb				
1	Baseline	025	80	30	X	X	X				
2	Baseline	050	45	25	X	X	X				
3	Baseline	075	90	60	X	X	X				
4	Baseline	100	345	240	X	X	X				
5	Baseline	125	160	160	X	0.03	X				
6	Baseline	150	195	175	X	X	60				
7	Baseline	175	125	55	X	X	X				
8	Baseline	200	125	55	X	X	X				
9	Baseline	225	75	45	X	X	X				
10	Baseline	250	75	55	X	X	X				
11	Baseline	275	45	50	X	X	X				
12	Baseline	300	45	30	X	X	X				
13	Baseline	325	10 ✓	35	X	X	X				
14	Baseline	350	55	90	X	X	X				
15	Baseline	375	70	80	X	X	X				
16	Baseline	400	20 ✓	25	X	X	X				
17	Baseline	425	20 ✓	25	X	X	X				
18	Baseline	450	20 ✓	25	X	X	X				
19	Baseline	475	5 ✓	15	X	X	X				
20	Baseline	500	10 ✓	15	X	X	X				
21	Baseline	525	5 ✓	40	X	X	X				
22	Baseline	550	20 ✓	50	X	X	X				
23	Baseline	575	90	70	X	X	X				
24	Baseline	600	15 ✓	30	X	X	X				
25	Baseline	625	10 ✓	10	X	X	X				

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER

B. Dan

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

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CLIENT ORDER No.

PAGE

999.0 08 738

15.12.81

7 OF 8

TUBE No.	SAMPLE No.		Cu	Zn	Pb	Au	Pb			
1	Baseline	650	X /	X	X	X	X			
2	Baseline	675	X /	X	X	X	X			
3	Baseline	700	X /	5	X	X	X			
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Results in ppm unless otherwise specified

- T = element present; but concentration too low to measure
- X = element concentration is below detection limit
- = element not determined

AUTHORISED OFFICER

B. Dan

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

756030

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

SAMPLE PREFIX		REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE				
		999.0 08 738	15.12.81		8 OF 8				
TUBE No.	SAMPLE No.	Cu	Zn	Ag	Au	Pb			
1	STD FS4	290	700	1.0	-	100			
2	RPT 100 025S	110	70	X	-	15			
3	RPT 200 250S	135	40	X	-	5			
4	STD FS4	285	705	1.0	-	110			
5	RPT 300 275W	100	35	X	-	X			
6	RPT 400 275S	30	50	X	-	X			
7	STD FS4	300	710	1.0	-	105			
8	RPT 500 325S	260	35	X	-	10			
9	RPT 600 225S	45	55	X	-	20			
10	STD FS4	275	695	1.5	-	100			
11	RPT 700 275S	60	210	X	-	X			
12	RPT Base line 375	65	75	X	-	X			
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	5	5	0.5	0.03	5			
24	DIGESTION	A1	A1	A1		A1			
25	METHOD	A1/1	A1/1	A1/1	LG5	A1/1			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER

B. Doan

STATISTICAL EVALUATION (COPPER):

DAVIS CREEK - SPECIMEN CREEK SOIL SURVEY. EL4/61

ppm	0	5	10	15	20	25	30	35	40	45	50	55	60	65
Frequency	6	5	9	2	11	2	5	3	6	12	2	6	4	1
Cumulative Frequency	6	11	20	22	33	35	40	43	49	61	63	69	73	74
Cumulative %	3.9	7.2	13.1	14.4	21.6	22.9	26.1	28.1	32.0	39.9	41.2	45.1	47.7	48.4

ppm	70	75	80	85	90	95	100	105	110	115	120	125	130	135
Frequency	6	4	4	3	6	2	4	2	3	4	1	5	2	4
Cumulative Frequency	50	54	58	61	67	69	73	75	78	82	83	88	90	94
Cumulative %	52.3	54.9	57.5	57.5	63.4	64.7	67.3	68.6	70.6	73.2	73.9	77.1	78.4	81.0

ppm	140	145	150	155	160	170	185	190	195	200	205	215	225	230
Frequency	3	2	3	1	3	1	1	1	1	2	1	1	1	1
Cumulative Frequency	127	129	132	133	136	137	138	139	140	142	143	144	145	146
Cumulative %	83.0	84.3	86.3	86.9	88.9	89.5	90.2	90.8	91.5	92.8	93.5	94.1	94.6	95.4

ppm	250	265	270	345	405
Frequency	1	3	1	1	1
Cumulative Frequency	147	150	151	152	153
Cumulative %	96.1	98.0	98.7	99.3	100.0

STATISTICAL EVALUATION (ZINC)

DAVIS CREEK - SPECIMEN CREEK SOIL SURVEY EL 4/61

PPM	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Frequency	3	8	6	7	4	18	8	5	9	3	10	9	8	1	5
Cumulative Frequency	3	11	17	24	28	46	54	59	68	71	81	90	98	99	104
Cumulative %	2.0	7.2	11.1	15.7	18.3	30.1	33.3	36.6	42.5	44.4	51.0	56.9	62.1	62.7	66.0

PPM	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
Frequency	3	6	3	3	3	1	1	3	3	1	1	1	1	2	2
Cumulative Frequency	104	110	113	116	119	120	121	124	127	128	129	130	131	133	135
Cumulative %	68.0	71.9	73.9	75.8	77.8	78.4	79.1	81.0	83.0	83.7	84.3	85.0	85.6	86.7	88.2

PPM	150	155	160	170	175	175	210	225	240	245	270	280	285	425
Frequency	1	1	3	1	1	1	2	1	1	1	1	1	1	2
Cumulative Frequency	136	137	140	141	142	143	145	146	147	148	149	150	151	153
Cumulative %	88.9	89.5	91.5	92.2	92.8	93.5	94.8	95.4	96.1	96.7	97.4	98.0	98.7	100.0

APPENDIX C.

DAVIS CK. SPECIMEN CK. STREAM SEDIMENT SURVEY - ELA/61

MINERALOGICAL EXAMINATION OF PLUS 40 FRACTION - STREAM SEDIMENT SAMPLE
NR 106



DEPARTMENT OF MINES

TELEPHONE: 30 8033

G.P.O. BOX 124 B
HOBART
TASMANIA 7001

- 8 JAN 1982

Chief Chemist & Metallurgist,
LAUNCESTON.Reg. Nos. 814365-68 (I. and M.I.)

The specimens have been examined by David Green who comments as follows (Items 814366-814368 were reported to you in early December, informally):

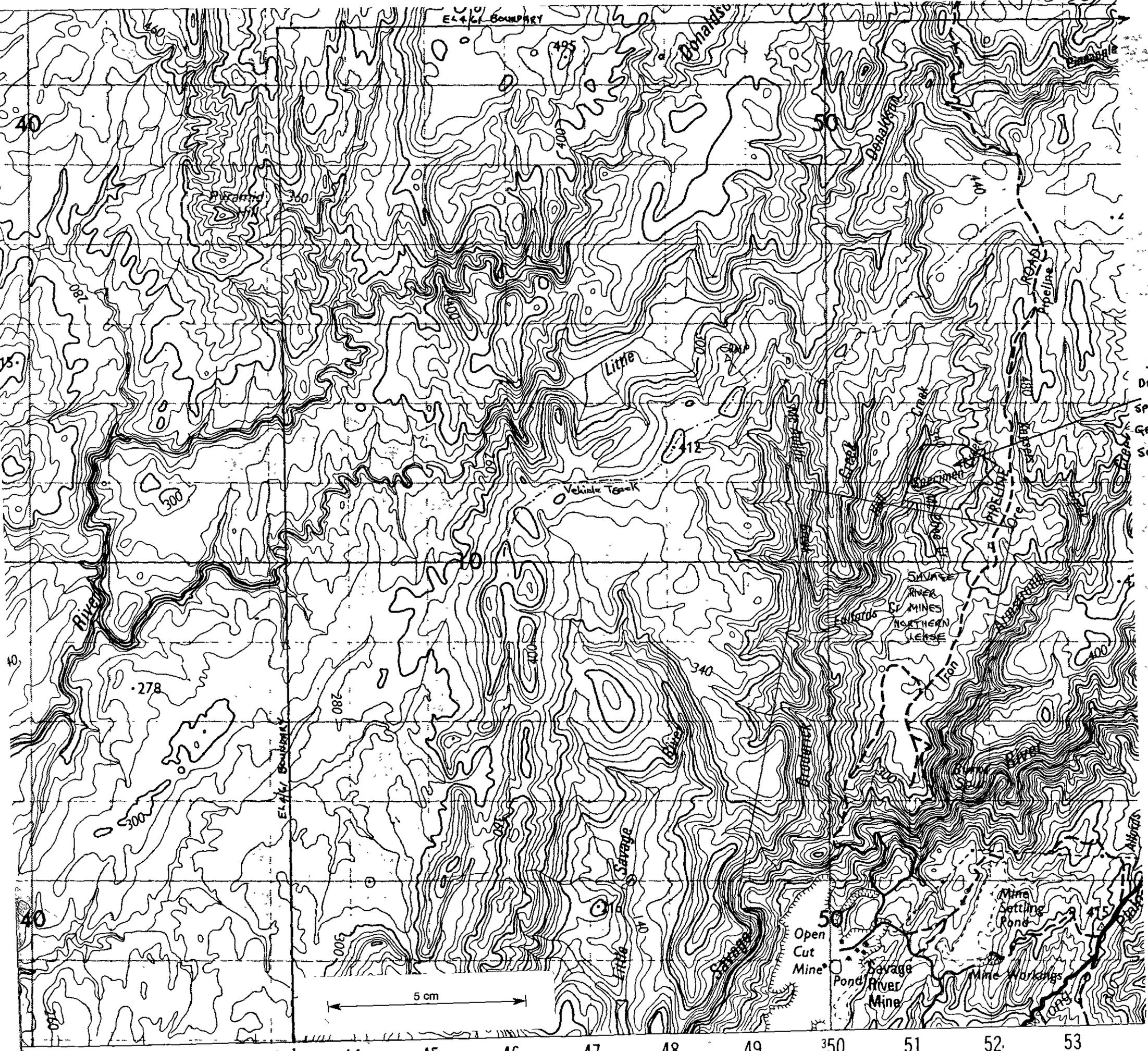
- * 814365 - SO 106 The +40 mesh material contains occasional grains of probable sphalerite and pyrite - identified by reflected light microscopy. If confirmation is required, the mount is retained for microprobe analysis at a later date.
- 814366 - The 'black' mineral is goethite - identified by XRD.
- 814367 - 4/61B This is a chloritic schist with abundant quartz between the foliations. Magnetite fragments, some euhedral, are confined to the chloritic foliation as are stringers and flakes of haematite. The name magnetite-bearing chlorite-quartz schist is quite appropriate.
- 814368 - 4/61D This rock is a finely recrystallised quartzite with chloritic patches containing magnetite, often extensively altered to haematite-goethite. Rare accessory subhedral zircon as well as well rounded grains are present. The rock is a metasediment. There is no evidence of original igneous parentage so the name 'altered amphibolite' is inappropriate. All of the opaque grains examined were of magnetite but the haematite-stained chlorite would appear dark in hand specimen.

(H. Murchie)
DIRECTOR OF MINES

copy to Edgewood. 10/1/11
12 Jan 82 T.

756042

LOCATION:
DAVIS CREEK-
SPECIMEN CREEK
GEOCHEMICAL
SURVEYS.



CONTOUR INTERVAL 20 METRES

10'

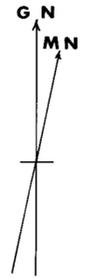
PRODUCED BY LANDS DEPARTMENT TASMANIA
M. EDYVEAN - MAY 1982

INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.

PLAN 1b. RELIEF: NORTHERN EL 4/61

(PART MAP NO 7915-III - HORTON 1:50,000.)

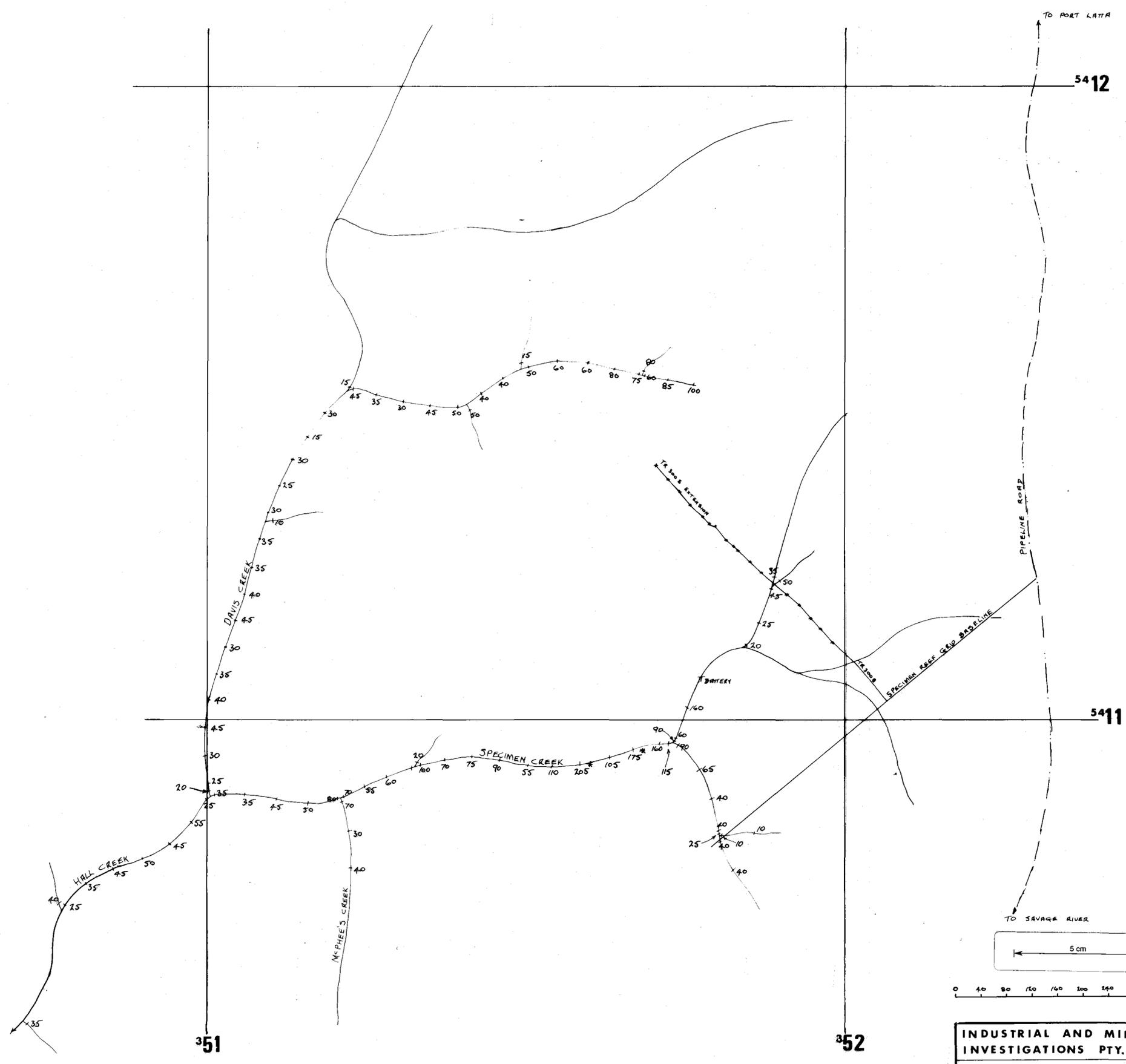
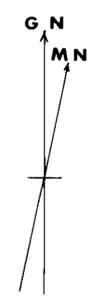
DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY-(EL4/61)
SAMPLE LOCATION



INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.
SCALE. 1:4000
AUTHOR. M. EDYVEAN, P. COVER, E DUBOWSKI
DATE. NOVEMBER, 1981
ANOMALOUS SAMPLE *

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY-(EL4/61)

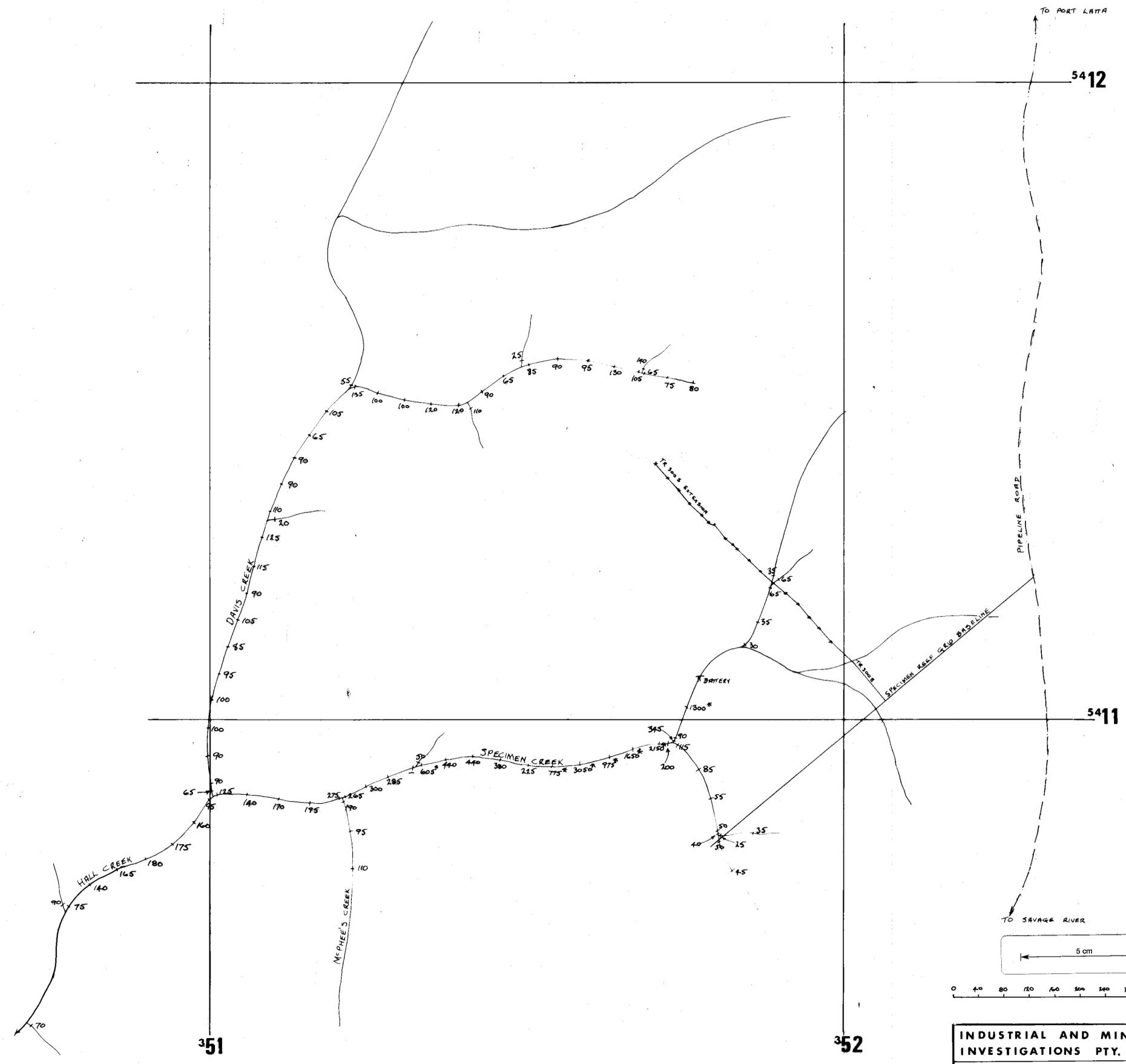
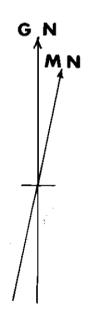
COPPER ppm



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SCALE. 1:4000
AUTHOR. M EDYVEAN
DATE. NOVEMBER, 1981
ANOMALOUS VALUE *

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY-(EL4/61)

ZINC_{ppm}

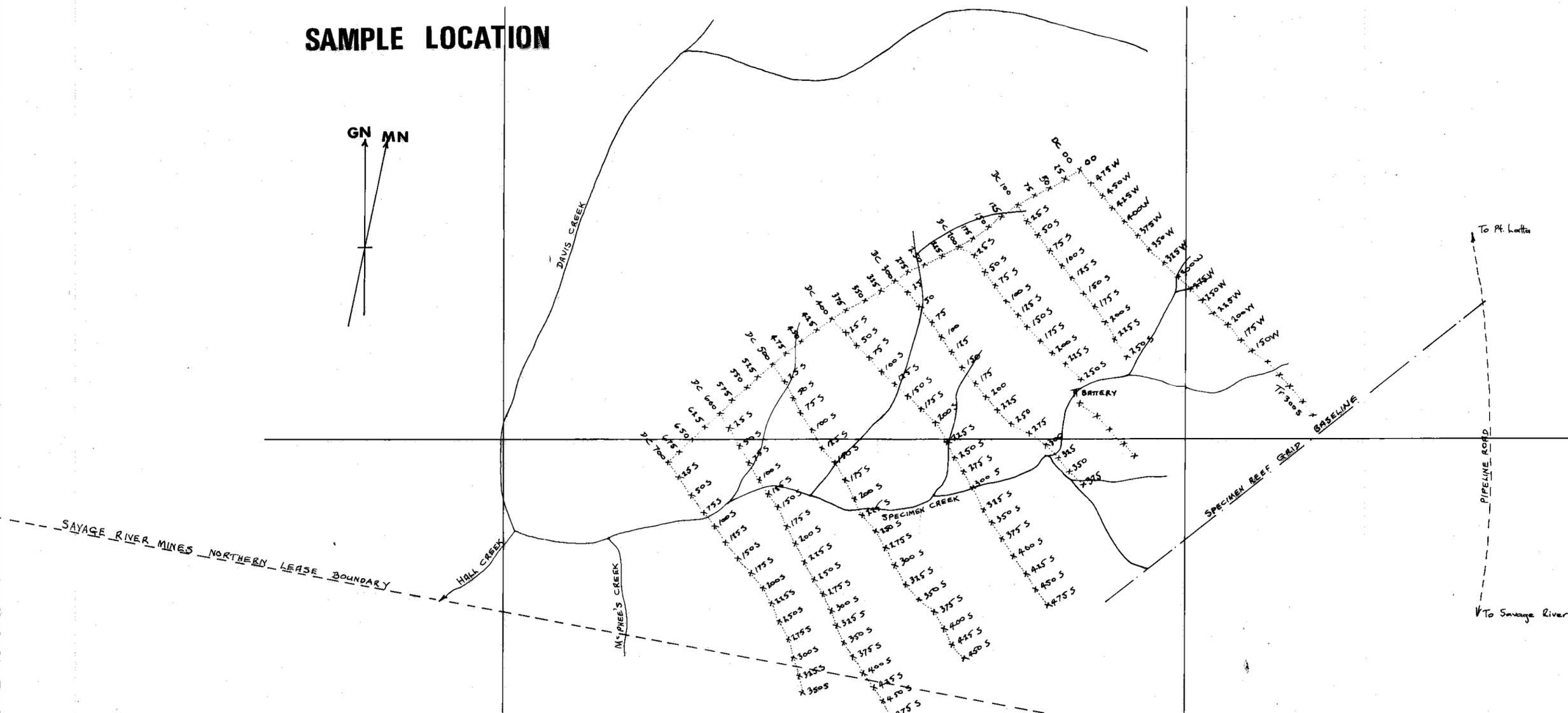
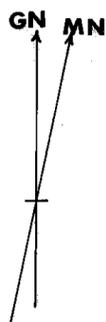


INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.
SCALE. 1:4000
AUTHOR. M EDYVEAN
DATE. NOVEMBER, 1981
ANOMALOUS VALUE *

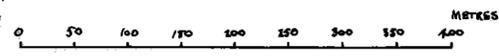
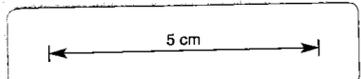
DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY - (EL4/61)

SOIL SAMPLING PROGRAMME

SAMPLE LOCATION



5411



INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.

SCALE. 1:5000

AUTHOR. E.DUBOWSKI

DRAWN BY. M. EDYVEAN

DATE. MAY, 1982

ANOMALOUS SAMPLE *

351

352

82-1782
82-1781
Part 2 756048

7

PART 2 PLAN 7

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY -(EL4/61)

SOIL SAMPLING PROGRAMME

COPPER_{ppm}

GN MN



5411

351

352

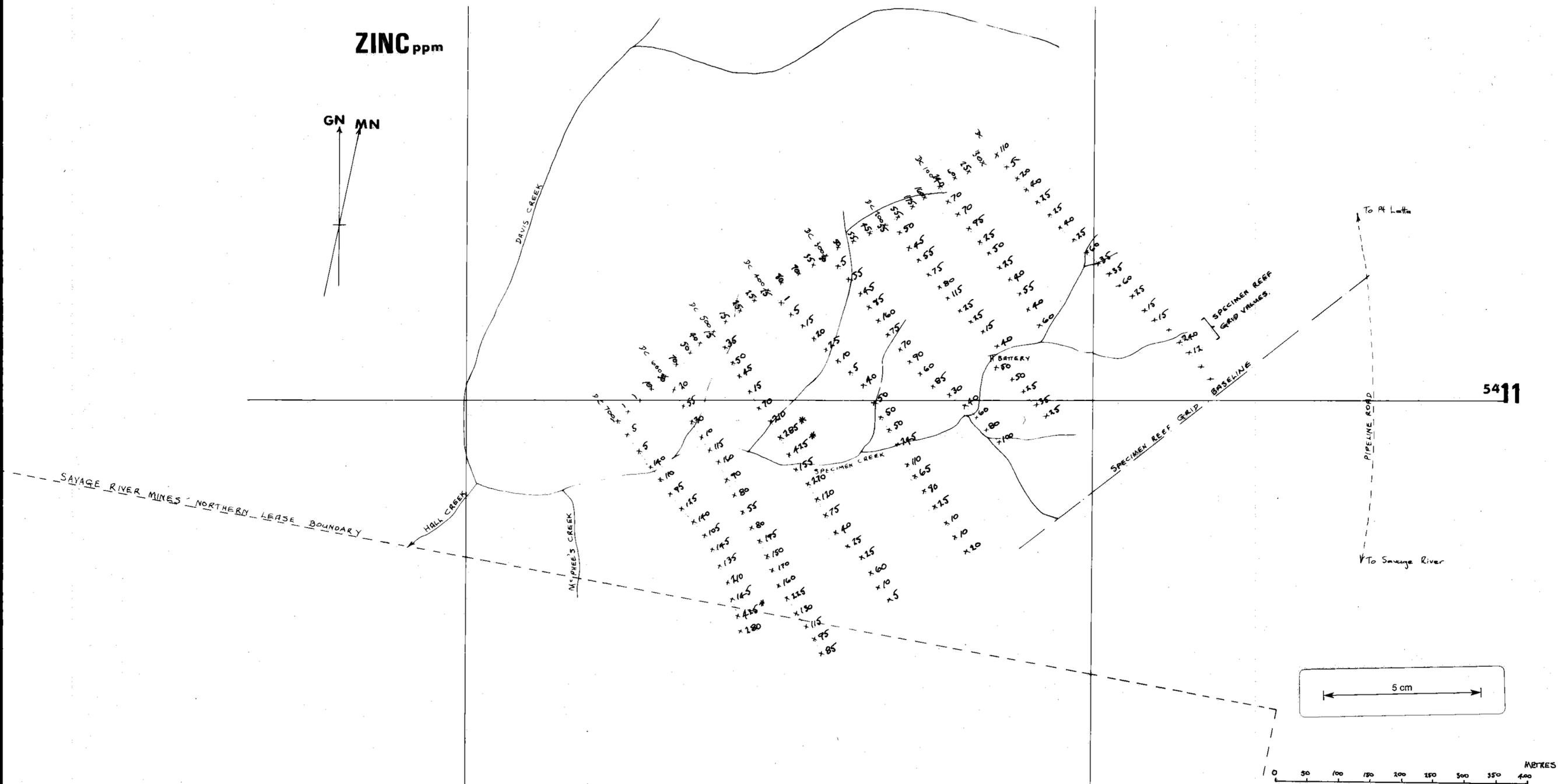
INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.
SCALE, 1:5000
AUTHOR, E. DUBOWSKI
DRAWN BY, M. EDYVEAN
DATE, MAY, 1982
ANOMALOUS SAMPLE *

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY - (EL4/61)

SOIL SAMPLING PROGRAMME

ZINC ppm

GN MN



5411

351

352

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SCALE 1:5000
AUTHOR. E. DUBOWSKI
DRAWN BY. M. EDYVEAN
DATE. MAY, 1982
ANOMALOUS SAMPLE *

82-1782
82-1781
756050 part 2

9

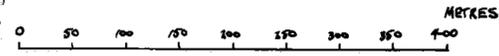
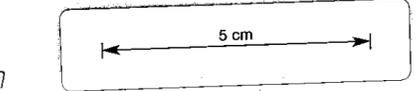
PART 2 PLAN 9

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY-(EL4/61)

SOIL SAMPLING PROGRAMME

LEAD_{ppm}

GN MN



INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.
SCALE. 1:5000
AUTHOR. E. DUBOWSKI
DRAWN BY. M. EDYVEAN
DATE. MAY, 1982
ANOMALOUS SAMPLE

351

352

5411

82-1782
82-1781
756051 part 2

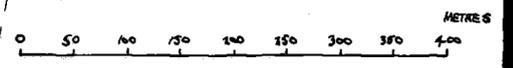
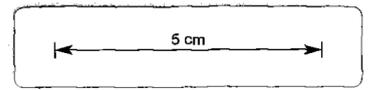
10

PART 2 PLAN 10

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY - (EL4/61)

SOIL SAMPLING PROGRAMME

COPPER contours



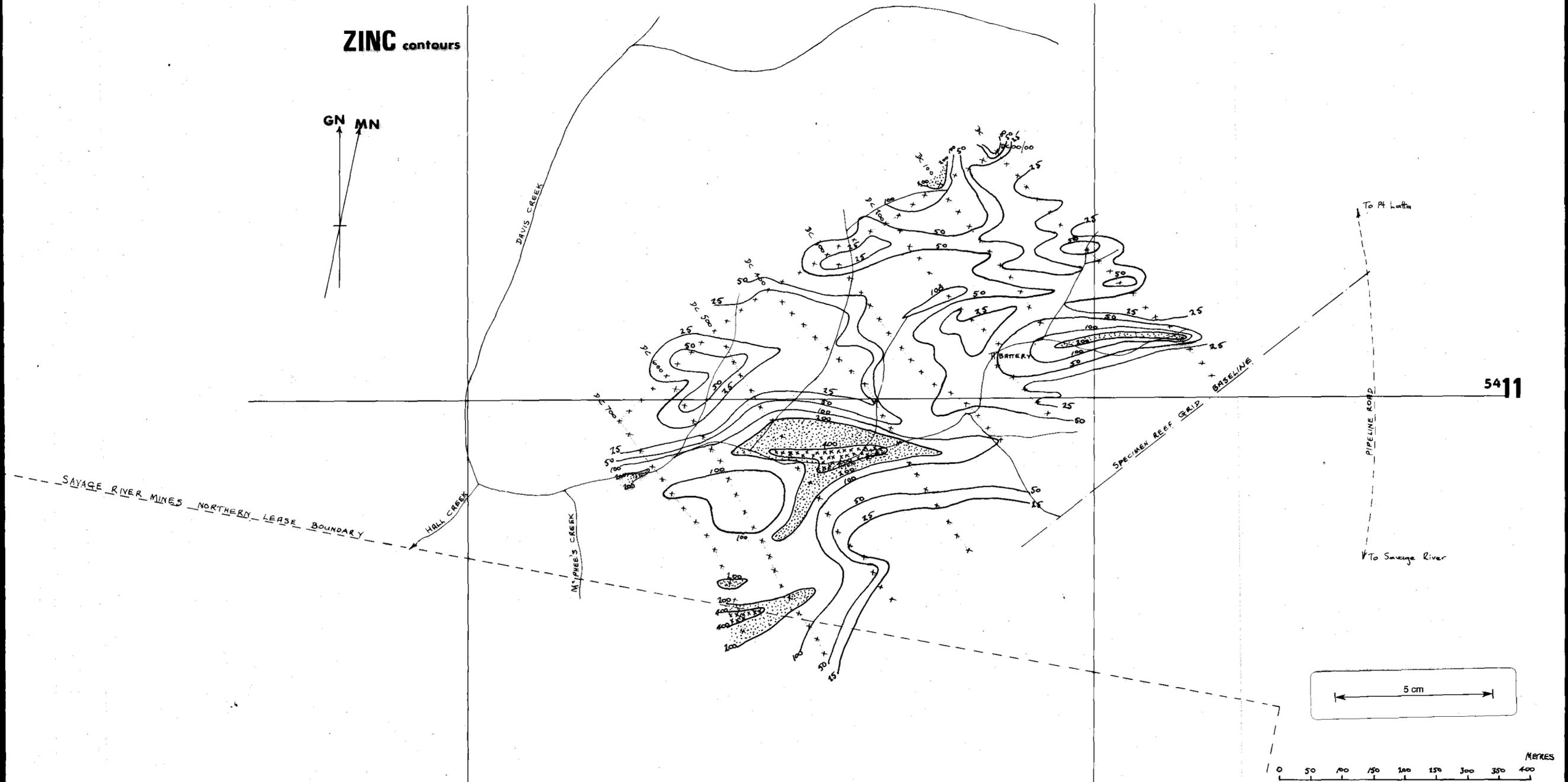
INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.
SCALE, 1:5000
AUTHOR, H. SHANNON
DRAWN BY, M. EDYVEAN
DATE, MAY, 1982
ANOMALOUS SAMPLE *

DAVIS CREEK-SPECIMEN CREEK GEOCHEMICAL SURVEY-(EL4/61)

SOIL SAMPLING PROGRAMME

ZINC contours

GN MN



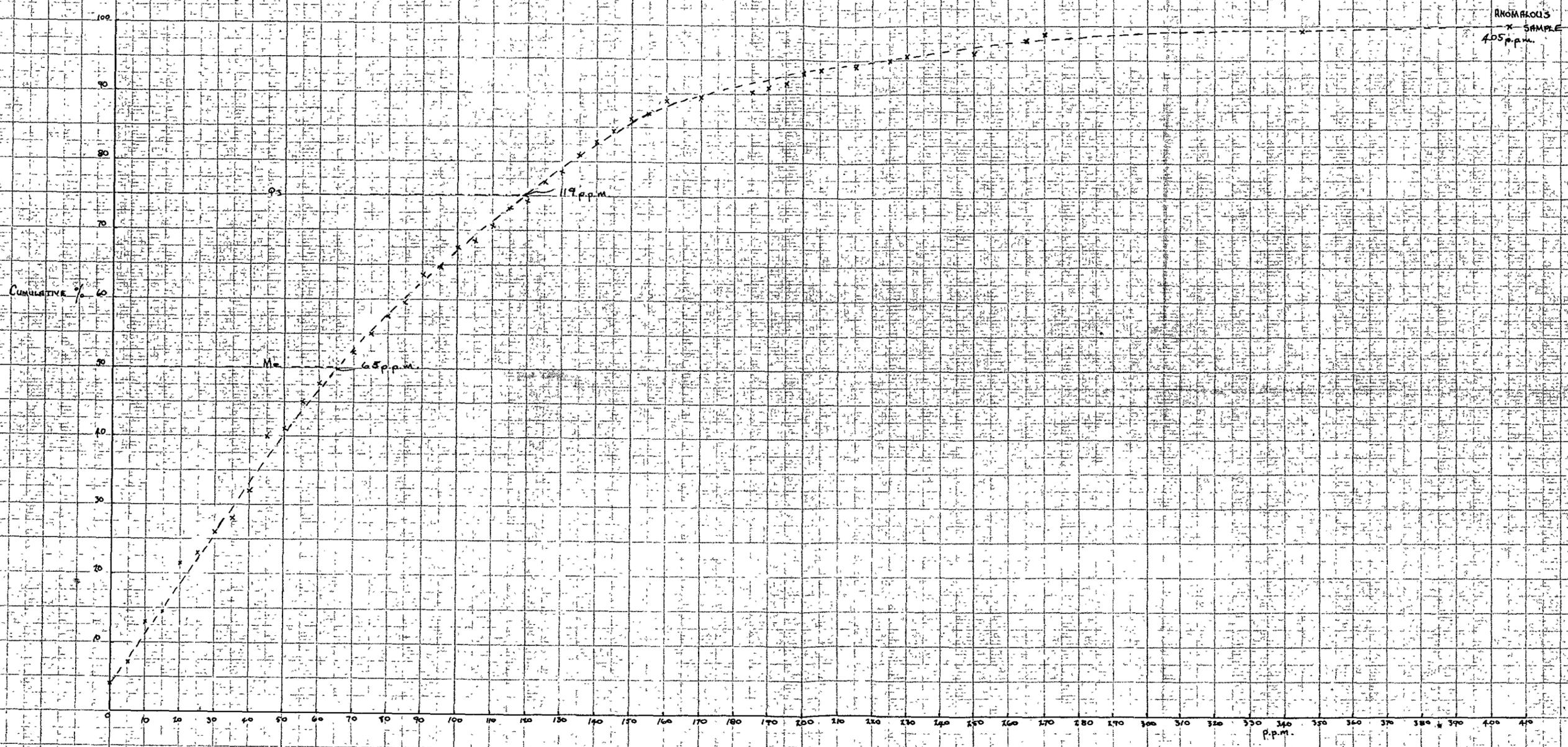
5411

351

352

INDUSTRIAL AND MINING INVESTIGATIONS PTY. LTD.
SCALE, 1:5000
AUTHOR, H. SHANNON
DRAWN BY, M. EDYVEAN
DATE, MAY, 1982
ANOMALOUS SAMPLE *

STATISTICAL EVALUATION (COPPER) DAVIS CREEK - SPECIMEN CREEK SOIL SURVEY - ELA/61



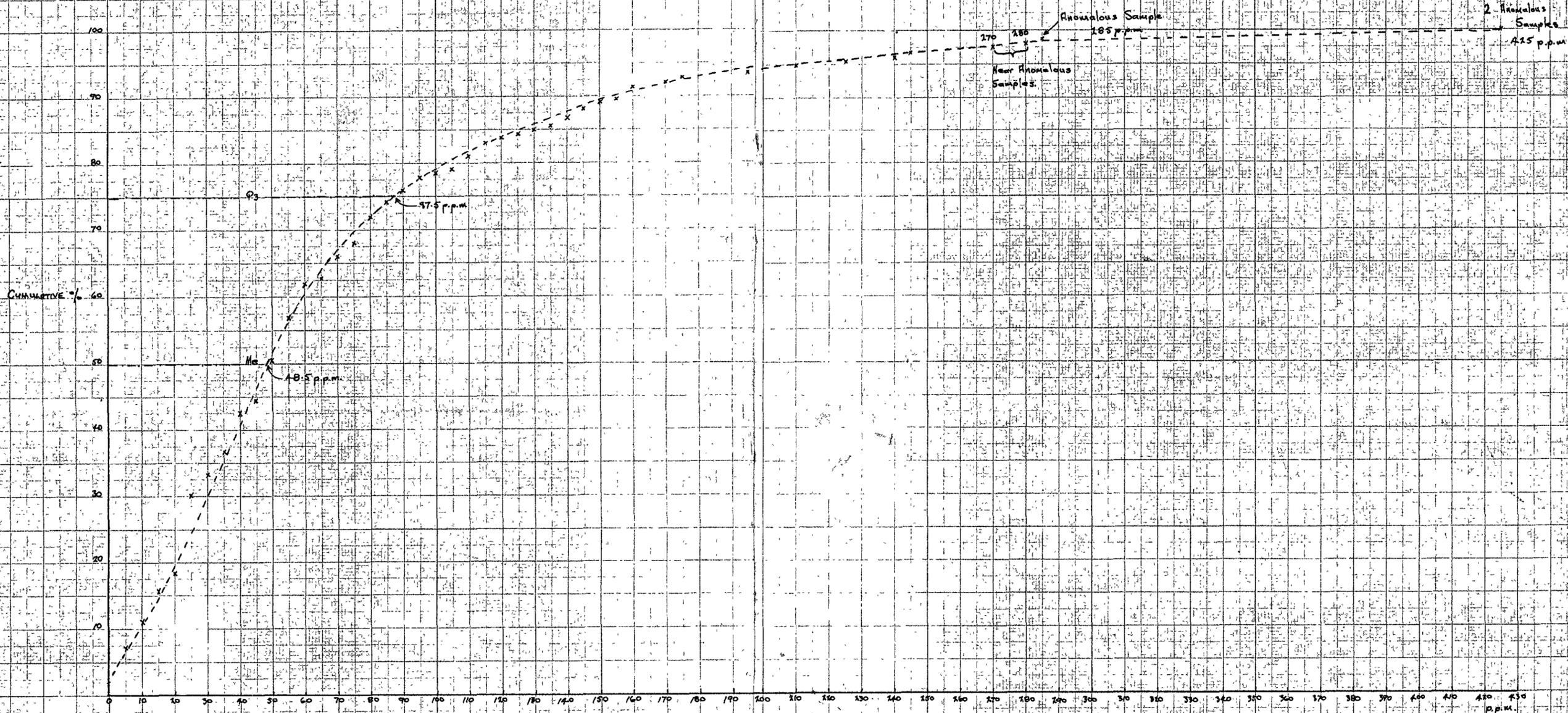
$P_3 = 75\% = 119 \text{ p.p.m.}$
 $Me = 50\% = 65 \text{ p.p.m.}$
 Std. Deviation = $1.5(P_3 - Me) = 1.5(54) = 81 \text{ p.p.m.}$
 Normal Distribution = $Me + Std. Dev. = 65 + 81 = 146 \text{ p.p.m.}$
 Anomalous Value = $Me + 1.5 Std. Dev. = 65 + 121.5 = 186.5 \text{ p.p.m.}$

Anomalous Sample: DC 400/3005 = 405 p.p.m.

82-1782

M. EDYVEAN - MAY 1982
 INDUSTRIAL AND MINING INVESTIGATIONS
 PTY. LTD.

STATISTICAL EVALUATION (ZINC): DAVIS CREEK - SPECIMEN CREEK SOIL SURVEY - ELA/61



$P_3 = 25\% = 57 \text{ p.p.m.}$
 $Me = 50\% = 48.5 \text{ p.p.m.}$

Std. Deviation = $1.5 (P_3 - Me) = 1.5 (39) = 58.5 \text{ p.p.m.}$
 Normal Distribution = $Me + \text{Std. Dev.} = 48.5 + 58.5 = 107.0 \text{ p.p.m.}$
 Anomalous Value = $Me + 4 \text{Std. Dev.} = 48.5 + 234 = 282.5 \text{ p.p.m.}$

Anomalous Samples:

DC 500/175 S = 285 p.p.m.
 DC 500/300 S = 425 p.p.m.
 DC 700/325 S = 425 p.p.m.

Near Anomalous Samples:

DC 500/250 S = 270 p.p.m.
 DC 700/350 S = 180 p.p.m.

82-1762

M. EDYVERN - MAY 1982
 INDUSTRIAL AND MINING INVESTIGATIONS
 PTY. LTD.