

97-3987

CRA EXPLORATION PTY. LIMITED  
ACN 000 057 125

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MINERAL RESOURCES  
EL54/94  
17 MAR 1997  
  
See folio 45

Second Annual Report  
For The Period Ending 24 January 1997  
EL 54/94 St Valentines Peak, Tasmania

**OPEN FILE**

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Date: January 1997

Licence Holder: CRA Exploration Pty. Limited

Submitted to: Chief Geologist, SE District

Copies to: Mineral Resources Tasmania  
CRAE - SE District  
CRAE - Zeehan  
CRAE - ETIG

Submitted by: *A Jaxross (for SA Menpes)*

Accepted by: *M. Conway*

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CRAE Report No. 22236

ANNUAL REPORT - EL 54/94  
ST VALENTINES PEAK - CRA  
S A MENPES

### Abstract

CRAE acquired EL 54/94 in 1995 to explore Gordon Group carbonates east of St Valentines Peak for Irish style Zinc mineralisation.

During permit year two Shell's untested Old Park Road prospect was located and seven repeat/infill soil geochemical traverses were completed. Results appear to show three distinct areas anomalous in both Pb and Zn (up to 0.17% Pb and 947 ppm Zn) and open to the north. Three rockchip samples taken in the southeastern grid area returned anomalous Au (0.03, 0.08 and 0.36 ppm) and some soil samples were Au anomalous (up to 0.04 ppm). Mineralisation is believed to be related to granite intrusion in the Late Devonian.

The following exploration is recommended:

#### *Old Park Road Prospect:*

- establish a semi-permanent grid
- undertake five E-W soil traverses to close off soil geochemistry anomalies to the north
- complete structural mapping and rockchip sampling
- relate Comalco ground magnetic profiles to soil anomalies
- acquire further ground magnetic data if warranted
- drill test the best base metal target(s) if warranted.

#### *General Licence Area:*

- assess the potential for fine grain-style gold mineralisation
- identify potential growth faults in the mapped clastic sequence underlying the Gordon Group. If potential growth faults are identified:
  - \* establish reconnaissance grid lines over the inferred Gordon Group sequence to test horizons known to be mineralised in the Zeehan area (ie. Gordon and Denison Group contact, carbonates beneath a possible argillaceous "seal" near the middle of the sequence, Gordon and Eldon Group contact)
  - \* undertake mapping, rockchip sampling and soil/wacker bedrock sampling to identify zones of anomalous zinc

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## List of Plans

Plan No.	Title	Scale	
✓ Tv 1058	EL 54/94 St Valentines Peak Location Plan	1:100,000	✓
✓ Tv 1119	EL 54/94 St Valentines Peak Regional Rockchip and Stream Sediment Sample Location Plan	1:25,000	✓
✓ Tv 1120	Peak Spur Road Soil and Stream Sediment Sample Location Plan	1:5,000	✓ <del>missing</del>
✓ PTV 24	Old Park Road Prospect Soil and Rockchip Sample Location Plan	1:5,000	✓
✓ Tv 1121	Old Park Road Prospect: Pb (ppm) in Soils	1:5,000	✓
✓ Tv 1122	Old Park Road Prospect: Zn (ppm) in Soils	1:5,000	✓
✓ Tv 1123	Old Park Road Prospect: Au (ppm) in Soils	1:5,000	✓

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Appendix 2 Peak Spur Road Soil and Stream Sediment Sample Ledger and Assays

Appendix 3 Old Park Road Soil and Rockchip Sample Ledgers and Assays

## 1. Conclusions and Recommendations

The following conclusions were drawn from the exploration carried out during permit year 2:

- The anomalous Zn returned for stream sediment samples taken in a Blythe River tributary and a creek draining north from Old Park Road (358 ppm and 156 ppm respectively) are most likely due to basalt detritus.
- The linear Pb in soils geochemical anomaly at the Old Park Road prospect may be a vein or dyke related to Devonian granite intrusion.
- The strike parallel Zn in soils anomaly at the Old Park Road prospect may be represent selective skarn style mineralisation of suitable stratigraphic horizons within the Gordon Group sequence.

The following exploration is recommended:

### *Old Park Road Prospect:*

- establish a semi-permanent grid
- undertake five E-W soil traverses to close off soil geochemistry anomalies to the north (50m sample spacing, 100m traverse spacing)
- complete structural mapping and rockchip sampling
- relate Comalco ground magnetic profiles to soil anomalies
- acquire further ground magnetic data if warranted
- drill test the best base metal target(s) if warranted

### *General Licence Area:*

- assess the potential for fine grained-style gold mineralisation
- identify potential growth faults in the mapped clastic sequence underlying the Gordon Group. If potential growth faults are identified:
  - \* establish reconnaissance grid lines over the inferred Gordon Group sequence to test horizons known to be mineralised in the Zeehan area (ie. Gordon and Denison Group contact, carbonates beneath a possible argillaceous "seal" near the middle of the sequence, Gordon and Eldon Group contact)
  - \* undertake mapping, rockchip sampling and soil/wacker bedrock sampling to identify zones of anomalous zinc

## 2. Introduction

St Valentines Peak EL 54/94 was granted to CRA Exploration Pty. Limited (CRAE) on 24th February, 1995. The licence covers 38 sq km and is located 30 km south of Burnie on the north-west coast of Tasmania (see Plan Tv 1058).

CRAE acquired the licence area to explore for economic, Irish-style zinc mineralisation in the Ordovician Gordon Group carbonates. CRAE's preceding exploration of the Gordon Group carbonates in the Zeehan area has resulted in several very encouraging zinc intersections. Hence CRAE has expanded exploration efforts to other areas of poorly explored Gordon Group carbonates with potential to host economic Irish-style Pb-Zn mineralisation. Secondary targets are W-Sn-F-Cu-Pb-Zn skarn/carbonate replacement mineralisation (cf. Kara Mine, Moina deposit, former Bischoff Mine, former Cleveland Mine, former King Island Scheelite Mine, Renison Mine, and Queen Hill deposit).

This report details all exploration activities conducted within EL 54/94 St Valentines Peak by CRAE during the twelve month period ending 24 January 1997.

Exploration of the St Valentines Peak EL 54/94 is currently suspended whilst CRAE seeks a joint venture partner to share exploration costs.

## 3. Review of Previous Work

### 3.1 Prior to Current Tenement

Significant exploration carried out prior to the current licence is briefly summarised below. See CRAE Report No. 21979 for a detailed summary of previous exploration.

#### *1958-? Rio Tinto Australian Exploration Pty. Limited*

- regional airborne magnetic survey

#### *1965-? Pickands Mather & Co. International*

- reconnaissance stream sediment geochemistry survey

1968-85 *Tasminex N.L., Australia and New Zealand Exploration Company,  
McIntyre Mines (Aust) Pty. Ltd.*

- airborne magnetic and radiometric survey
- stream sediment geochemistry (W only) survey
- geological mapping
- auger sampling of Sutton's Skarn - analysed for W only
- helimagnetic survey
- resampling Sutton's Skarn

1976-84 *Comalco-Billiton*

- stream sediment geochemistry survey covering pre-Tertiary rocks
- stream sediment anomaly follow-up
- helimagnetic survey covering pre-Tertiary rocks
- heliborne magnetic and radiometric survey over area not covered by the early survey
- regional gravity survey

### 3.2 Exploration Completed During Current Tenement

A literature review was carried out during the first tenement year and the following conclusions were drawn:

- Past exploration within EL 54/94 has been reconnaissance only, predominantly involving stream sediment sampling programmes and helimagnetic surveys. Past exploration targeted Kara style W mineralisation, hence other styles of mineralisation may have been overlooked.  
Multi-element stream sediment geochemistry acquired by Comalco and Pickands Mathers highlight the "Old Park Road" area centred on 401000mE, 5422000mN. Billiton established a grid (unlocated) in the area and identified a 500 x 500m Pb-Zn in soil anomaly at >200 ppm. The prospect was abandoned without drill testing

- Prospectivity for carbonate hosted Pb-Zn mineralisation within EL 54/94 is fair given:
  - \* carbonate hosted Pb-Zn mineralisation occurs within the Gordon Group at Grieves and Oceana. These deposits occur at the contact of the Gordon and Denison groups, and in the middle of the carbonate sequence beneath an impermeable, argillaceous unit respectively
  - \* no systematic bedrock sampling of carbonate has been undertaken
  - \* stream sediment data indicate areas of untested carbonate with elevated Pb-Zn values
  - \* the poor exposure of the target sequence leaves scope for significant undetected near surface mineralisation
- Prospectivity for sulphide skarn mineralisation within EL 54/94 is good. The untested Old Park Road Pb-Zn in soil anomaly corresponds to a weak ground magnetic anomaly sourced by local pyrrhotite replacement. The soil anomaly may represent sulphide skarn mineralisation.
- Mo values of ore concentrate from the Kara mine are very high (1.5%) and perhaps undervalued by current mine operators. The Red Mountain porphyry Mo deposit has reserves of 187 Mt @ 0.167% mos<sub>s</sub>, using a 0.1% mos<sub>s</sub> cut-off. The Logging deposit is a large tonnage (162 Mt), low grade (0.13% W03 and 0.052% Moss) porphyry style W-Mo deposit hosted by interbedded calcareous shale and graphitic quartzite and skarn.

#### 4. Exploration Completed in the 12 Month Period Ending 24 January 1997

##### 4.1 Regional Rockchip and Stream Sediment Sampling

11 rockchip samples and 6 stream sediment samples were acquired during access and geological reconnaissance expeditions. The samples were forwarded to Analabs in Burnie/Townsville and variably assayed for:

- Cu, Pb, Zn, Ag, Fe, Mn by aqua regia/perchloric acid digest followed by AS determination 140 A2
- Ag, Al, As, Ba, Ca, Cu, Fe, K, Mg, Mn, Pb, Zn by IMPOSE ICP?
- Sn, W and Mo by XRF

- Au by fire assay

The following results were returned:

- Au, Ag and Mo were below detection limit in all samples assayed
- Anomalous Sn and W was returned from a sample taken near the Kara Scheelite Mine (245 ppm and 70 ppm respectively)
- Anomalous Zn was returned for stream sediment samples taken in a Blythe River tributary and a creek draining north from Old Park Road (358 ppm and 156 ppm respectively)

A sample ledger and analyses are included as Appendix 1. Sample locations are shown on Plan Tv 1119.

#### 4.2 Peak Spur Road

Shell's Old Park Road prospect was considered worthy of immediate follow-up exploration. However the grid location was unknown as relevant prospect plans in open file reports recorded local coordinates only. Following discussions with a former Shell employee who had worked in the area, CRAE carried out reconnaissance soil and stream sediment sampling north of Peak Spur Road in an effort to locate the Old Park Road soil anomaly.

The Old Park Road grid was not located and the soil sample logging showed that a residual soil averaging 0.9m thick was developed over a shale subcropping the area - probably the Devonian Bell Shale.

Three reconnaissance soil traverses were completed with a 50 m sample spacing and 200 to 600m traverse spacing. Fifty six B to C horizon soil samples were acquired and forwarded to Analabs in Townsville. Samples were assayed for Ag, Al, As, Ba, Ca, Cu, Fe, K, Mg, Mn, Pb, Zn by ICPOES, Sn, W and Mo by XRF, and Au by fire assay. No anomalous results were returned.

Two stream sediment samples also acquired in the area were submitted for analysis. No anomalous results were returned.

A sample ledger and analyses are included as Appendix 2. Sample locations are shown on Plan Tv 1120.

#### 4.3 Old Park Road Prospect

1:25,000 scale colour air photos of the licence area were purchased such that tracks and creeks could be related to logging tracks and creeks shown on the Old Park Road prospect plans. The grid was finally located by following a partially overgrown logging track north of Old Park Road. The grid is predominantly north of Shell's original EL. Fortunately grid pegs remain and local coordinates are still clearly visible.

Three repeat soil traverses and four infill soil traverses were completed for 121 soil samples. Ten rockchip samples were also taken. Samples were forwarded to Analabs in Townsville and assayed for Ag, Al, As, Ba, Ca, Cu, Fe, K, Mg, Mn, Pb, Zn by ICPOES, Sn, W and Mo by XRF, and Au by fire assay

Results appear to show three significant areas (maximum >500m strike by up to 50m wide) anomalous in both Pb and Zn (up to 0.17% Pb and 947 ppm Zn) and open to the north. Three rockchip samples taken in the southeastern grid area returned anomalous Au (0.03, 0.08 and 0.36 ppm) and some soil samples are Au anomalous (up to 0.04 ppm).

Sample ledgers and analyses are included as Appendix 2. Sample locations are shown on Plan PTV 24 and soil geochemistry maps are included as plans Tv 1121 to Tv 1123.

#### 5. Discussion of Results

- Geostatistical analysis of -80# stream sediment data by Comalco in late 1980's indicated Pb to be an excellent pathfinder to mineralisation in the St Valentines Peak area. High Zn values typically indicate Tertiary basalt detritus. Hence the anomalous Zn returned for stream sediment samples taken in a Blythe River tributary and a creek draining north from Old Park Road (358 ppm and 156 ppm respectively) are most likely due to basalt detritus, particularly as both drain the basalt plateau.
- The linear Pb in soils geochemical anomaly at the Old Park Road prospect may be a vein or dyke related to Devonian granite intrusion as:
  - \* the anomaly is narrow (generally one sample anomalous across the feature) and has a strike length greater than 500m (open to the north)

- \* the anomaly appears to cut stratigraphy (anomaly strikes NNW, stratigraphy strikes NW)
- \* a ferruginous quartz vein in sandstone, sampled by Comalco south east of St Valentines Peak, returned 5000 ppm Pb, 300 ppm Cu, and 30 ppm Ag (this and other veins appear to be responsible for Comalco's Pb stream sediment anomalies in the south east St Valentines Peak area)
- The strike parallel Zn in soils anomaly at the Old Park Road prospect may represent selective skarn style mineralisation of suitable stratigraphic horizons within the Gordon Group sequence.

## 6. Rehabilitation

The following procedures were implemented to reduce environmental impact and enhance rehabilitation:

- Soil augers and field boots were cleaned prior to entering the area to prevent the introduction of weeds or the vegetation fungus *Phytophthora cinnamomi*
- Reconnaissance soil geochemical traverses were surveyed using tape and compass and did not involve track cutting
- Soil auger holes were backfilled

## 7. Expenditure

Expenditure during current term: \$41,140

**Total Expenditure \$74,497**

**8. References**

- |                            |      |  |
|----------------------------|------|--|
| Menpes, SA and<br>Maher, S | 1995 | First Annual Report for the Period Ending 23<br>January 1996. EL 54/94 St Valentines Peak,<br>Tasmania. CRAE Report No. 21979. |
| Simpson, DC                | 1984 | EL 4/77 Highclere. Report on the "Old Park Road<br>Geochemically". The Shell Company of<br>Australia. TDR Report No. 84-2150.  |

**9. Location**

Burnie	SK55-3	1:250,000
Inglis	8015	1:100,000
Parrawe	3842	1:25,000
Loyetea	4042	1:25,000
Guildford	3841	1:25,000
Loongana	4041	1:25,000

**10. Keywords**

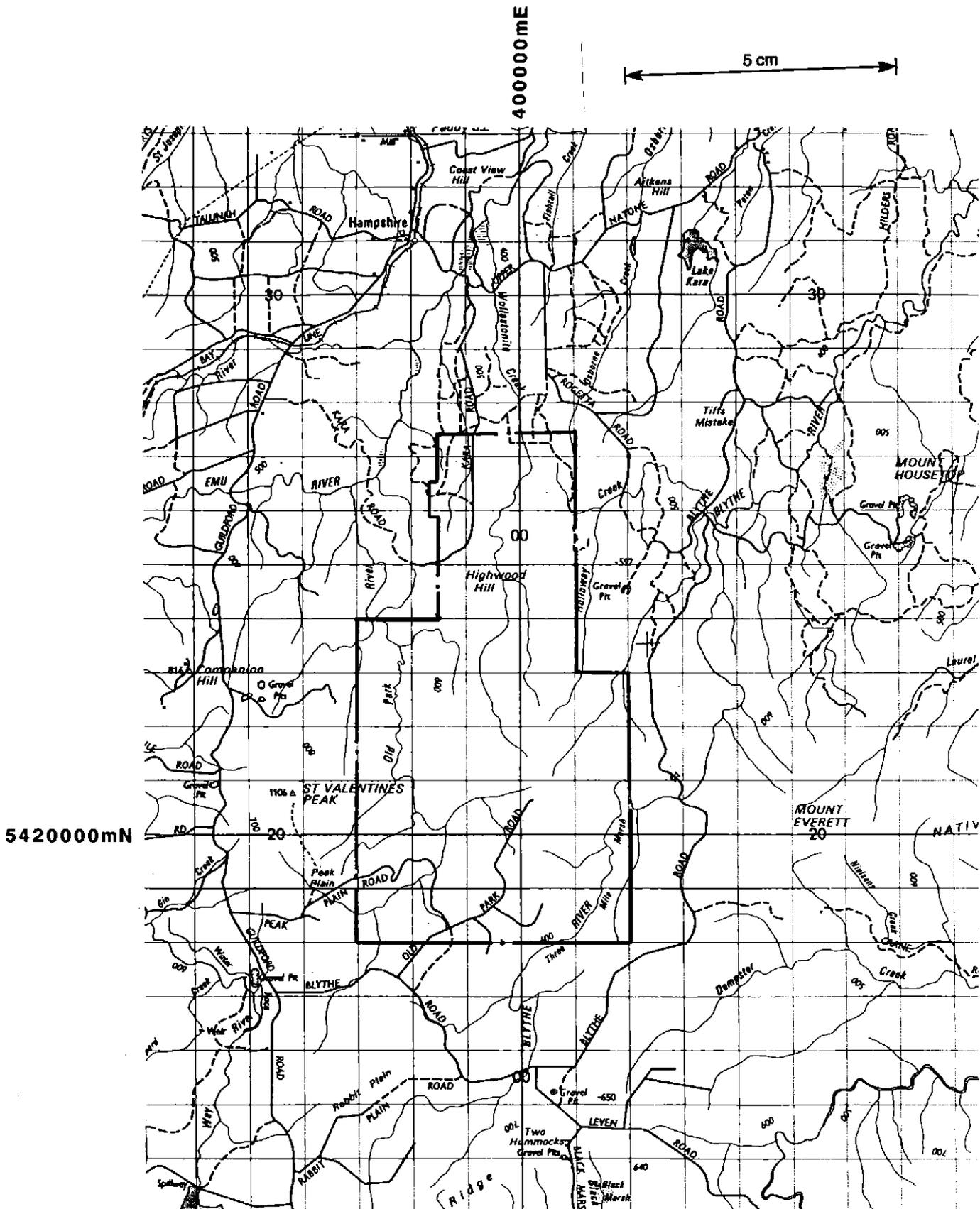
Tasmania, Base Metals, Zinc, Ordovician, Carbonate Hosted, Hornfels, Calc Silicate,  
Soil Sampling, Rockchip Sampling.

**11. DPO Register**

Table 1  
DPO Register

DPO Number	Lab Batch Number	Lab	Lab Location	DPO Date	Office	Geologist	Tenement Name	Tenement Number	Sample Type	Number of Samples	250 000 Mapsheet	100 000 Mapsheet
77186	104165.60.10848	Analabs	Cooee, TAS	12/4/95	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Rockchip	2	Burnie SK55-3	Inglis 8015
77191	104165.60.11416	Analabs	Townsville QLD	15/11/95	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Rockchip Stream Sediment	9 6	Burnie SK55-3	Inglis 8015
77195	104165.60.11504	Analabs	Townsville QLD	21/12/95	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Soil Stream Sediment	56 2	Burnie SK55-3	Inglis 8015
77197	104165.60.11531	Analabs	Townsville QLD	8/1/96	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Soil	57	Burnie SK55-3	Inglis 8015
77198	104165.60.11532	Analabs	Townsville QLD	8/1/96	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Soil	47	Burnie SK55-3	Inglis 8015
77199	104165.60.11533	Analabs	Townsville QLD	8/1/96	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Rockchip	6	Burnie SK55-3	Inglis 8015
77315	104165.60.11649	Analabs	Townsville QLD	20/2/96	Zeehan	S Menpes	St Valentines Peak	EL 54/94	Soil Rockchip	17 5	Burnie SK55-3	Inglis 8015

313013



542000mN

400000mE

5 cm

0 1 2 3 4 5km

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ST VALENTINES PEAK - CRA  
S & MENPES

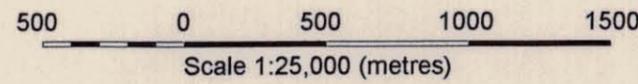
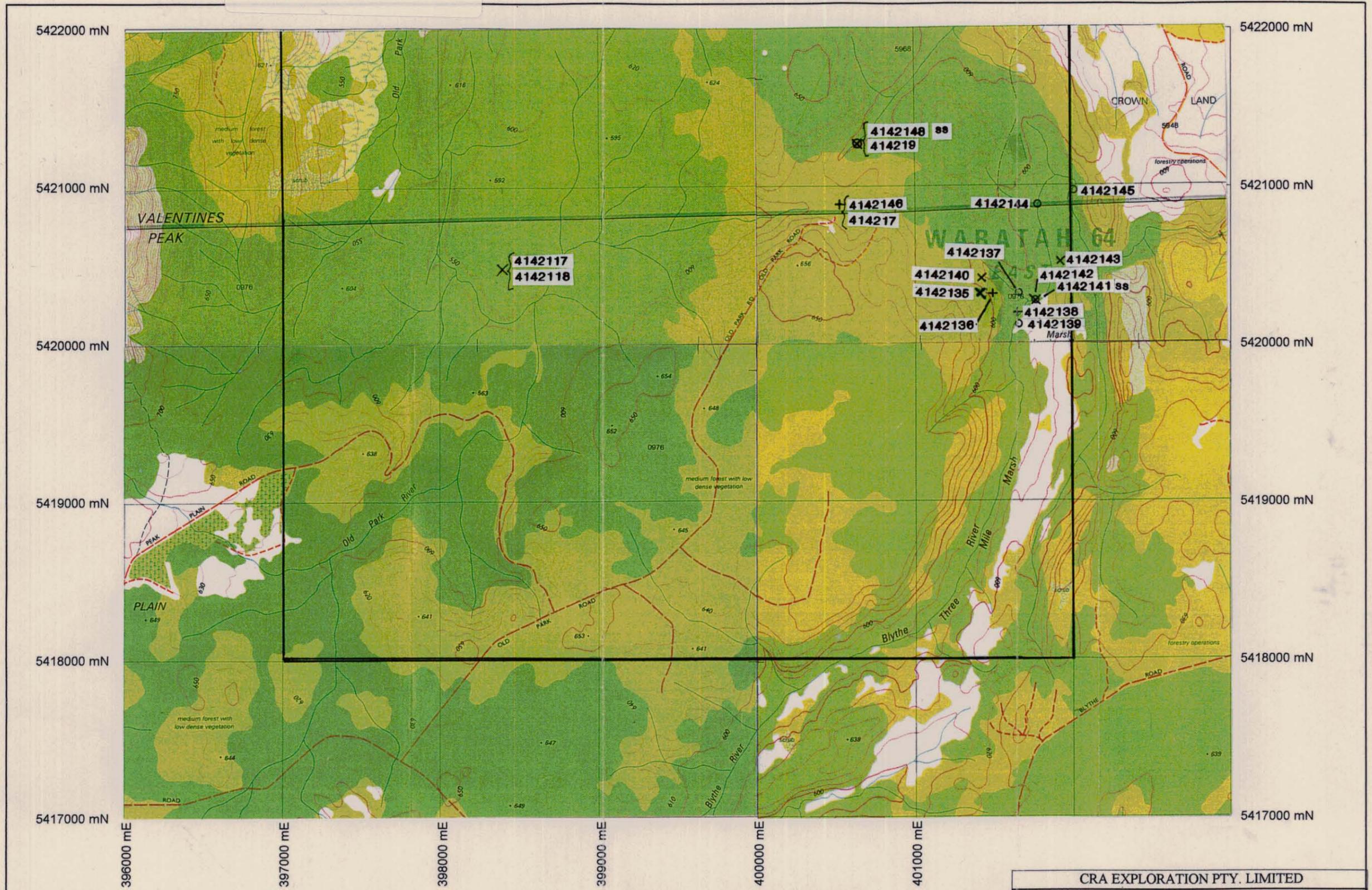
CRA EXPLORATION PTY. LIMITED	
ST VALENTINES PEAK EL 54/94	
LOCATION PLAN	
Author: <b>S.Menpes</b>	Reference: <b>SK55-3</b>
Drawn: <b>A.Jelen</b>	File Name:
Date: <b>May 1996</b>	Report No: <b>22236</b>
Scale: <b>1:100 000</b>	Plan No: <b>Tv 1058</b>

313014

313015

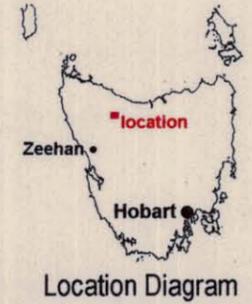
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S A MENPES



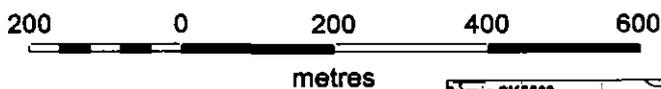
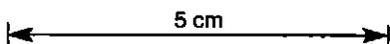
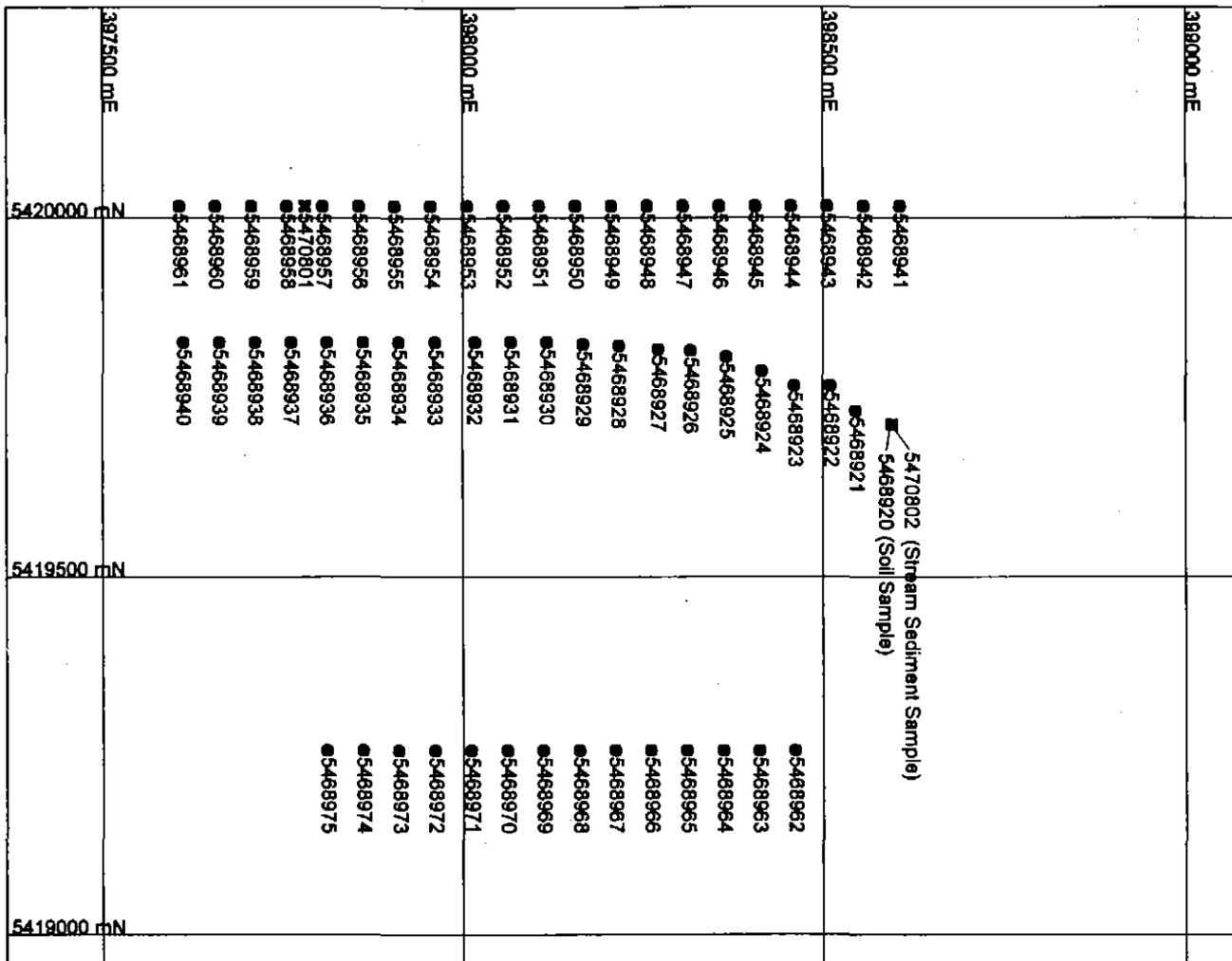
- × Rockchip Locations
- + Rockfloat Locations
- Stream Sediment Locations

Topography from Tasmapp 1:25000 published map



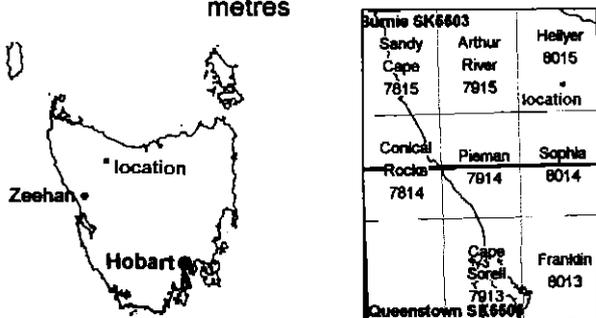
Burnie SK5503	Arthur River 7915	Hellyer 8015
Sandy Cape 7815	Piemans 7914	Sophia 8014
Conical Rocks 7814	Cape Sorell 7913	Franklin 8013
Queenstown SK5505		

CRA EXPLORATION PTY. LIMITED	
<b>EL 54/94 St Valentines Peak Regional Rockchip and Stream Sediment Location Plan</b>	
Author: S Menpes	Reference: <b>Burnie SK55-05</b>
Drawn: N Waterman	File Name:
Date: July 1997	Report No: 22236
Scale: 1:25,000	Plan No: Tv1119



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ST VALENTINES PEAK - CRA  
S A MENPES



Location Diagram

Map Coverage



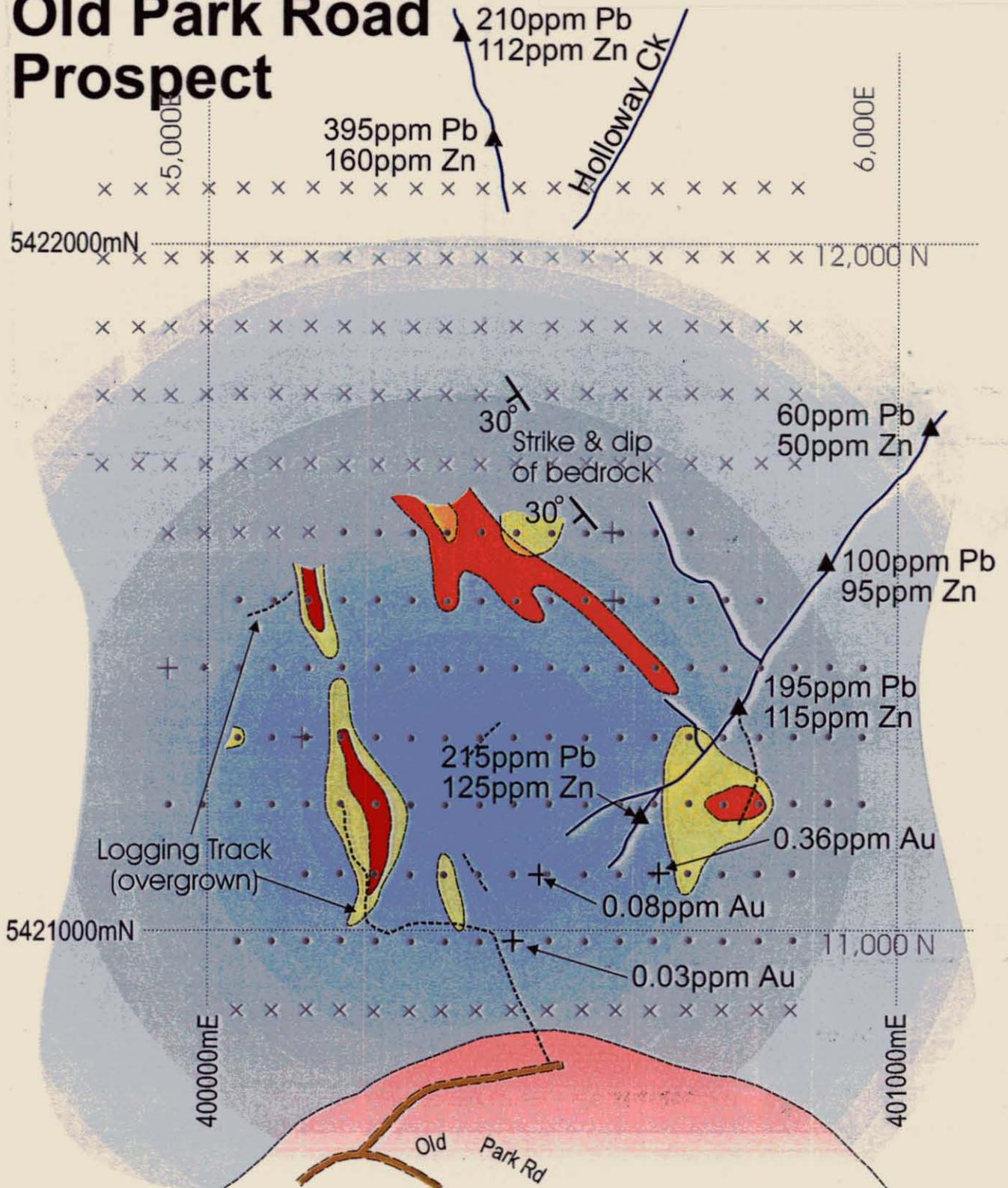
- ⊠ Stream Sediment Locations
- Soil Sample Locations

CRA EXPLORATION PTY. LIMITED	
EL 54/94 St Valentines Peak	
<b>Peak Spur Road Soil and Stream Sediment Location Plan</b>	
Author: S Menpes	Reference: Queenstown SK55-05
Drawn: N Waterman	File Name: Tv1120.wor
Date: March 1997	Report No: 22236
Scale: 1:10,000	Plan No: Tv1120

313016

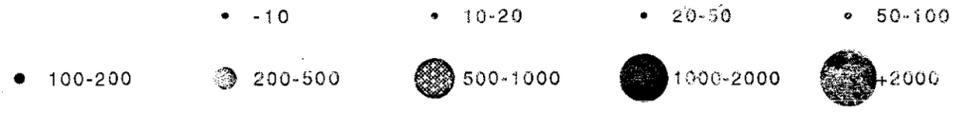
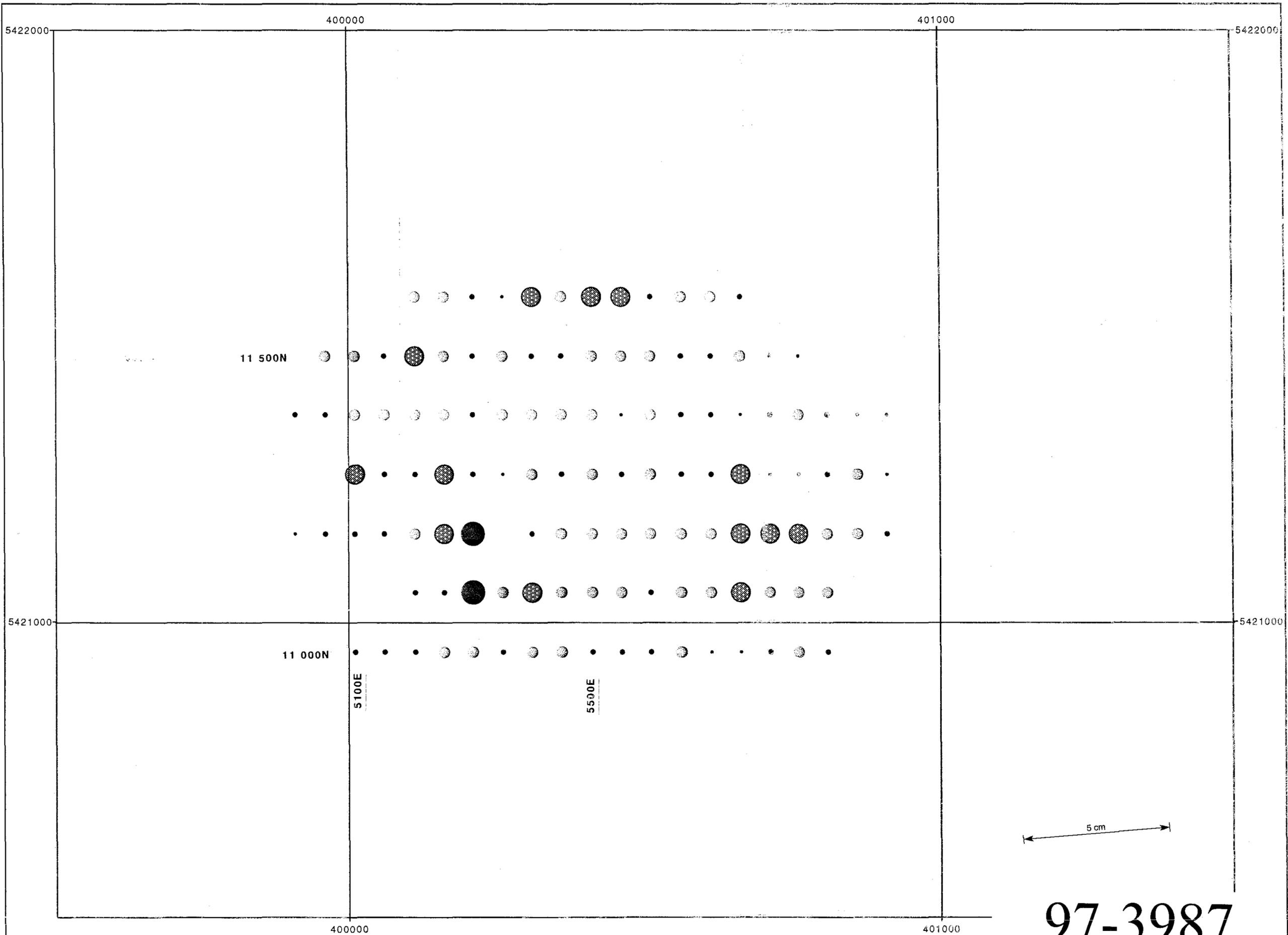
# EL54/94 St Valentines Peak Old Park Road Prospect

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- Pb > 1000ppm
- Pb 500-1000ppm
- Zn > 600ppm
- Variably metamorphosed carbonates
- Tertiary basalt

- Soil sample (CRAE)
- ⊗ Soil Sample (CRAE - results avail.)
- × Planned soil sample
- ▲ Stream sediment sample (Comalco)
- + Rockchip sample (CRAE)

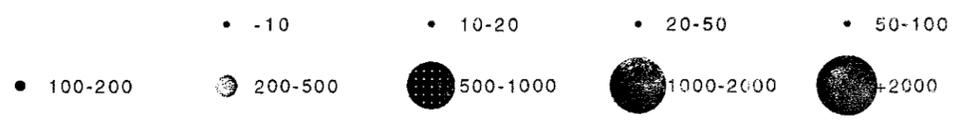
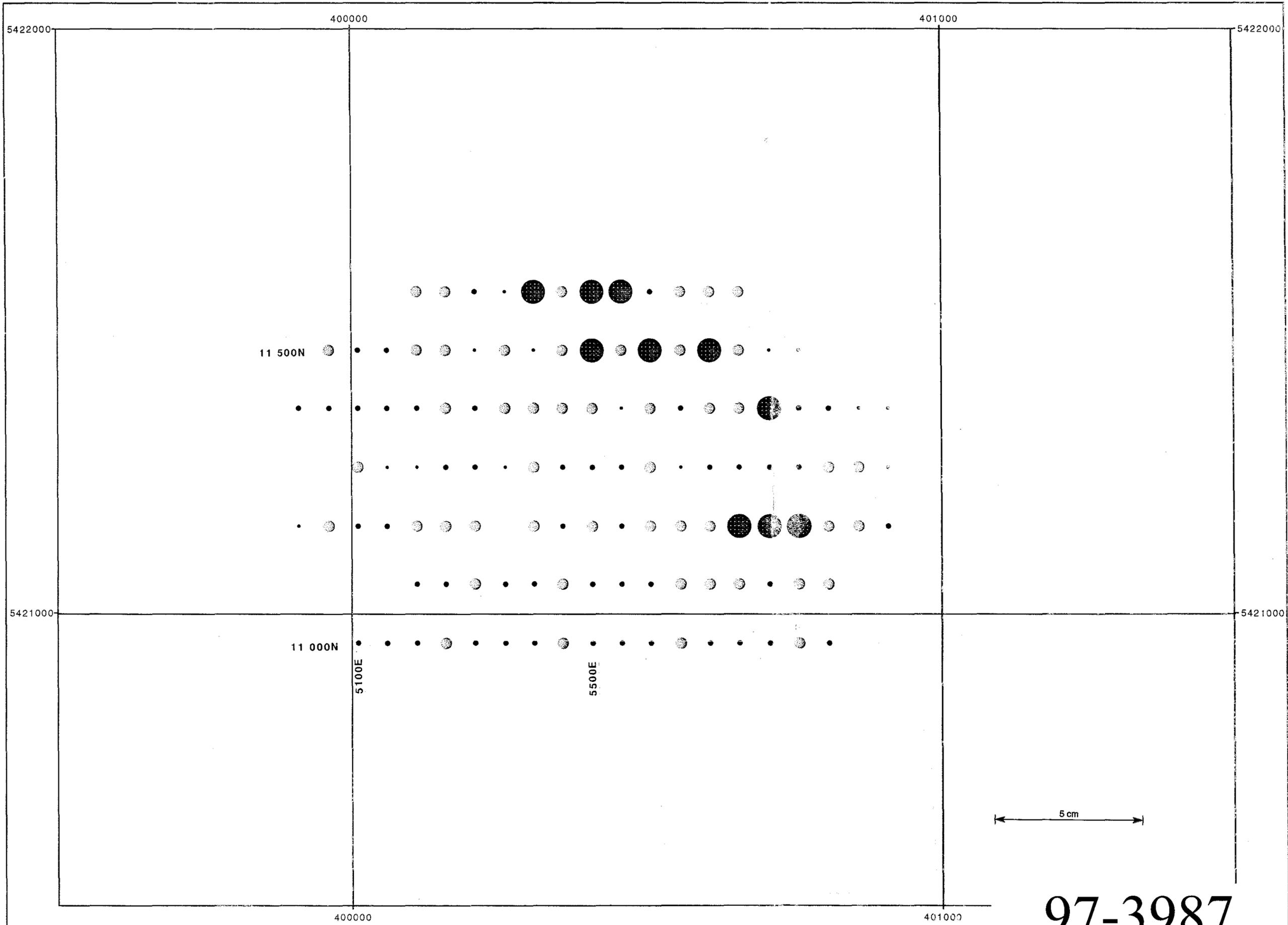


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ST VALENTINES PEAK - CRA  
SA MENPES

CRA EXPLORATION PTY. LIMITED		
Old Park Road Prospect		
Pb (ppm) in soils		
Geol: S Menpes	Scale: 1:5000	Report: 22239
Drawn:	Date: 5/7/96	Plan: Tv 11211

313018

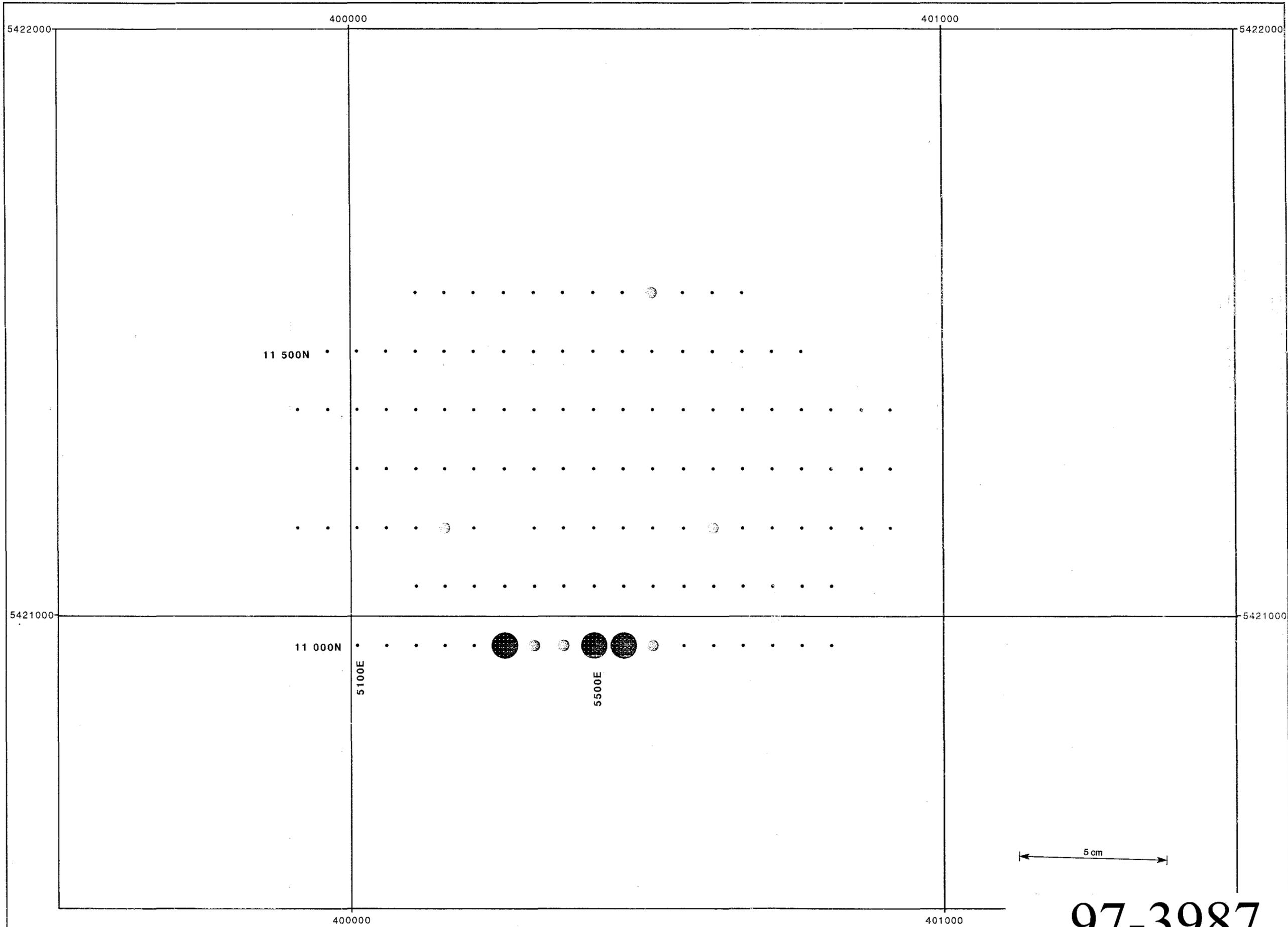


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ST VALENTINES PEAK - CRA  
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CRA EXPLORATION PTY. LIMITED		
Old Park Road Prospect		
Zn (ppm) in soils		
Geol: S Menpes	Scale: 1:5000	Report: 22238
Drawn:	Date: 5/7/96	Plan: Tv 1122

**313019**



11 500N

11 000N

5100E

5500E

5 cm

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- 0.0010
- 0.0010-0.0010
- 0.0010-0.0020
- 0.0020-0.0050
- 0.0050-0.0100
- 0.0100-0.0200
- 0.0200-0.0500
- 0.0500-0.1000
- 0.1000

Note: Lines 11 100N to 11 600N, detection limit 0.008ppm  
Line 11 000N, detection limit 0.001ppm

Note: Lines 11 100N to 11 600N, detection limit 0.008ppm  
Line 11 000N, detection limit 0.001ppm

313020

jmap

100m

CRA EXPLORATION PTY. LIMITED		
<b>Old Park Road Prospect</b>		
<b>Au (ppm) in soils</b>		
Geol: S Menpes	Scale: 1:5000	Report: 22236
Drawn:	Date: 5/7/96	Plan: Tv 1123

313021

**Appendix 1**

**Regional Rockchip and Stream Sediment Sampling Ledger and Assays**

## ROCKCHIP AND DRILLING CODES

22/2/1994

-----  
BMRLITHRock code as per published geological map  
For time designation use:-

Q	Quaternary	M	Permian	P	Proterozoic
T	Tertiary	C	Carboniferous	A	Archaean
		S	Silurian		
K	Cretaceous	D	Devonian		
R	Triassic	O	Ordovician		
J	Jurassic	E	Cambrian		

## FIELD ID

Field term for rock type  
Broad groupings are:-

S	Sedimentary	I	Intrusive	C	Surficial
M	Metamorphic	E	Extrusive	O	Others

## SEDIMENTARY

Scg	Conglomerate	Sl	Limestone	Sw	Wacke
Sss	Sandstone	Sdl	Dolomite	Sag	Agglomerate/mixtite
Ssi	Siltstone				
Ssh	Shale	Sch	Chert	Sox	Breccia
Sbs	Black shale	Sif	BF		

## METAMORPHIC

Msl	Slate	Mq	Quartzite	Mmg	Migmatite
Mph	Phyllite	Mm	Marble		
Msc	Schist	Ma	Amphibolite		
Mbs	Graphitic schist	Mcs	Calcsilicate	Msk	Skarn
Mgn	Gneiss	Mh	Hornfels		

## INTRUSIVE IGNEOUS

If	Felsic undiff.	Ii	Intermed undiff.	Iu	Ultramafic
Iip	Felsic porphyry	Iip	Intermed porph	Ius	Serpentinite
Iap	Apfite	Im	Mafic undiff.		
Igr	Granite	Ilo	Dolente	Ipg	Pegmatite
Igd	Granodiorite	Igb	Gabbro		

## EXTRUSIVE IGNEOUS

Ery	Rhyolite	Ean	Andesite	Et	Tuff undiff
Edc	Dacite	Eb	Basalt	Eft	Felsic tuff
				Emt	Mafic tuff

## SURFICIAL (COVER) MATERIAL

Ca	Alluvium	Clt	Laterite	Cag	Gossan
Cco	Colluvium	Csp	Pisolites	Ccy	Clay
Os	Sand	Csf	Ironstone		
Cbs	Black soil	Csi	Silcrete	Cv	Vegetation/peat
Cg	Gravel	Ccl	Calcrete		

## OTHERS

Ovq	Vein quartz	Omy	Mylonite	Oms	Massive sulphide
Ovc	Vein carbonate	Obx	Breccia	Oxc	Contamination
Ovs	Vein sulphide	Of	Fault gouge	Ox	Unknown

## TEXTURAL CODES

## WEATHERING/SURFICIAL FEATURES

We	Weathered	Fe	Ferruginous
Bf	Bleached	Fo	Fa ox in fract
Le	Leached		

## MINERALISATION/ALTERATION FEATURES

Gs	Gossanous	Vs	Vein sulphide	Al	Altered
Vn	Veined	Ds	Dissem sulph	Sl	Silicified
Vc	Vein carbonate	Fs	Fracture sulph		
Vq	Vein quartz	Bs	Banded sulph	Di	Disseminated

## GEOLOGICAL FEATURES

Bd	Bedded	Fr	Fractured	Po	Porphyritic
Bn	Banded	Ib	Interbedded	Sc	Schistose
Bx	Brecciated	Lm	Laminated	Sh	Sheared
Fi	Fissile (slatey)	Ma	Massive	Vu	Vuggy

## DIAGNOSTIC MINERALOGY

## PRIMARY MINERALISATION

Ga	Galena	Py	Pyrite	Ni	Ni sulphides
Sp	Sphalerite	Po	Pyrrhotite		
Cp	Chalcopyrite	Su	Unknown sulph		

## SECONDARY MINERALISATION

Ls	Lead secondaries	Cs	Copper sec.	Ni	Ni secondaries
Zs	Zinc "	Us	Uranium "		

## ALTERATION/DIAGNOSTIC MINERALS

Cy	Clay	He	Haematite	Gt	Garnet
Ep	Epidote	Mt	Magnetite	Ky	Kyanite
Cc	Carbonate	Js	Jarosite	To	Tourmaline
Sd	Siderite/Ankerite	Mn	Manganese mins	Cl	Chlorite
Di	Dolomite				

## COLOUR CODES

L	Light	A	Banded	M	Mottled
D	Dark				
N	Black	P	Purple	V	Green
G	Grey	R	Red	K	Pink
B	Brown	O	Orange	E	Blue
W	White	Y	Yellow	S	Silver

St Valentines Peak EL 54/94  
Regional Rockchip and Stream Sediment Sampling

Sample No.	DPO No.	EL	AMG E	AMG N	Sample Type	Category	Colour	Minerals	Alteration	Field ID	Comments
4142117	77186	EL54/94	398400	5425000	Rockchip	RKCHIP	LGLBG	Ds	Al	Mh	Banded chert after limestone? 2% pyrrhotite/magnetite mineralisation
4142118	77186	EL54/94	398400	5425000	Rockchip	RKCHIP	VGB		Al	Mq/lf	Greenish grey to olive brown ?quartzite. Possibly intrusive related to nearby granite. Ferruginous where weathered
4142135	77191	EL54/94	401420	5420320	Rockchip	RKCHIP	DG	Po	Al	SlsMcs	Cryptocrystalline altered carbonate. Pyrrhotite replacing fossils. Hornfels
4142136	77191	EL54/94	401480	5420320	Rockfloat	RKFLOAT	G	Po	Al	SlsMcs	Common pyrrhotite replacing fossils. Also dark green, radiating fibrous mineral (metamorphic)
✓ 4142137	77191	EL54/94	401630	5420320	Stream Sediment	SS					Minus 80 mesh stream sediment sample taken in tributary to Blythe River. Sample appears to be predominantly quartz silt
4142138	77191	EL54/94	401650	5420180	Rockfloat	RKFLOAT		Po	Al	Sls	Silty (silt sized quartz) carbonate with brachiopod fossils. Trace pyrrhotite
✓ 4142139	77191	EL54/94	401620	5420120	Stream Sediment	SS					Minus 80 mesh
4142140	77191	EL54/94	401420	5420420	Rockchip	RKCHIP	LBO	Py		Ssi	Very fine grained quartz sandstone grading to argillaceous siltstone. Very fossiliferous. Cubic voids after pyrite. Bell Shale?
✓ 4142141	77191	EL54/94	401760	5420270	Stream Sediment	SS					Blythe River. Minus 80 mesh. Predominantly light greyish brown quartz silt
4142142	77191	EL54/94	401760	5420270	Rockchip	RKCHIP		Po		Sss	Sample from Blythe River. Very fine grained quartz sandstone with trace fine disseminated pyrrhotite
4142143	77191	EL54/94	401860	5420490	Rockchip	RKCHIP		PoDs		SssSsi	Very fine grained quartz sandstone and calcareous siltstone. Pyrrhotite along fractures. Minor disseminated sulphide
✓ 4142144	77191	EL54/94	401780	5420880	Stream Sediment	SS					Minus 80 mesh
✓ 4142145	77191	EL54/94	402000	5420970	Stream Sediment	SS					Minus 80 mesh

313023

St Valentines Peak EL 54/94  
Regional Rockchip and Stream Sediment Sampling

Sample No.	DPO No.	EL	AMGE	AMGN	Sample Type	Category	Colour	Minerals	Alteration	Field ID	Comments
4142146	77191	EL54/94	400530	5420890	Rockfloat	RKFLOAT	LG	Ds		Sls	Light grey, fossiliferous limestone with minor disseminated sulphide and some sulphide replacing fossils
4142147	77191	EL54/94	400530	5420890	Rockfloat	RKFLOAT	LG	DsVs		Sls	Fine network of sulphide veins through sample. Some fossil replacement with sulphide
4142148	77191	EL54/94	400640	5421270	Stream Sediment	SS					Small, narrow, trickling stream
4142149	77191	EL54/94	400640	5421270	Rockchip	RKCHIP	VLG	Ds	Al	Sls	Silicified limestone with 1% fine disseminated sulphide



## ANALYTICAL DATA

Phone (004) 316837

14 Thirkell St. COBEE TAS 7320

Fax (004) 318890

## ANALYTICAL REPORT No.

104155.60.10848

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

ORDER No.

PROJECT

INVOICE TO:

CRA-Exploration Pty Limited  
 P.O. Box 8093  
 NORTHLAND CENTRE VIC 3072

77186

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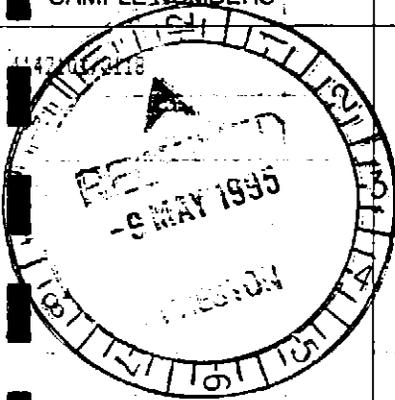
1

18

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD



RD Prep : 6P033

Cu,Pb,Zn,Ag,Fe,Mn/6A140  
 Fe(1)/6A140  
 Au,Au(R),Au(S)/66309  
 Sn,W/6X401

RESULTS TO

Mrs S Menpes  
 CRA Exploration Pty Ltd  
 P.O. Box 8093  
 NORTHLAND CENTRE VIC 3072

REMARKS

Fe(1)/6A140 results are over the recommended analytical range.

RESULTS TO

Mrs C Hayward  
 CRA Exploration Pty Limited  
 P.O. Box 8093  
 NORTHLAND CENTRE VIC 3072

RESULTS TO

CRAE Information Systems  
 P.O. Box 3709  
 MANUKA ACT 2603,

AUTHORISED OFFICER

**ANALYTICAL DATA**

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.10848

03/05/95

77186

1 OF 2

ITEM NO.	SAMPLE No.	Pb	Zn	Ag	Fe	Fe (1)	Mn	Au	Au (R)	
	GA140	GA140	GA140	GA140	GA140	GA140	GA140	GG309	GG309	
1	4142101	8	136	16	<1	0.57	-	222	<0.008	-
2	4142102	8	16	58	<1	0.81	-	233	<0.008	-
3	4142103	38	16	52	<1	3.80	-	93	<0.008	-
4	4142104	26	15	87	<1	3.32	-	109	<0.008	-
5	4142105	20	9	36	<1	2.48	-	55	<0.008	-
6	4142106	11	9	15	<1	1.06	-	183	<0.008	-
7	4142107	16	31	30	<1	1.23	-	89	<0.008	-
8	4142108	13	16	25	<1	0.79	-	237	<0.008	-
9	4142109	7	33	28	<1	0.40	-	366	<0.008	-
10	4142110	7	23	27	<1	0.38	-	156	<0.008	-
11	4142111	24	16	27	<1	1.73	-	24	<0.008	-
12	4142112	54	5	95	<1	-	8.0	938	<0.008	<0.008
13	4142113	6	18	24	<1	0.55	-	170	<0.008	-
14	4142114	8	7	20	<1	0.26	-	73	<0.008	-
15	4142115	7	17	31	<1	0.23	-	110	<0.008	-
16	4142116	8	18	14	<1	0.42	-	113	<0.008	-
17	4142117	24	8	22	<1	1.98	-	154	<0.008	-
18	4142118	70	143	395	<1	-	11.0	4379	<0.008	-
19										
20		Cu	Pb	Zn	Ag	Fe		Mn		
21										
22										
23										
24	DETECTION	2	3	2	1	0.01	0.1	3	0.008	0.008
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified

IS = insufficient sample  
SNR = sample not received

AUTHORISED OFFICER



## ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

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PAGE

104165.60.10848

03/05/95

77186

2 OF 2

ME	OD	SAMPLE No	UNIT	SN	W					
		66307		6X401	6X401					
1		4142106	<0.008	-	-					
		4142117	-	11	13					
		4142118	-	245	70					
4										
6										
9										
11										
13										
14										
18										
21										
23										
		DETECTION	0.008	3	5					
		UNITS	ppm	ppm	ppm					

Results in ppm unless otherwise specified  
- element not determined

IS = insufficient sample  
SNR = sample not received

AUTHORISED OFFICER



Phone (004) 316837

14 Thirkell St. COOEE TAS 7320

Fax (004) 318390

## ANALYTICAL REPORT No.

104165.60.11416

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

ORDER No. 77191 PROJECT #1214

VOICE TO:

CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

77191

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30/11/95

1

18

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

4142135-152

VA Prep : 6P033, 6P031

Ag, Al, As, Ba, Ca, Cu, Fe, X, Hg, Mn, Pb.  
Zn/61211  
Sn, W, Mo/61401  
Au, Au(R), Au(S)/66309

RESULTS

TO

Mr S Tear/S Menpes  
CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

G02142 LZ 169 2'

REMARKS

Ca/61211 results >20% are over the recommended analytical range and are reported to an accuracy of +/- 11

RESULTS

TO

Mr C Hayward  
CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

EUOS11

RESULTS

TO

Exploration Technology & Information Group  
Information Resources  
Private Bag 3 Bundoora MDC  
Victoria 3083

0.01

5

0.05

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Cost code(s)

Authorised by

## ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

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PAGE

104165.60.11416

30/11/95

77191

1 OF 2

METHOD	SAMPLE No	Au	Au (R)	Au (S)	Ag	Al	As	Ba	Ca	Cu
		BB309	BB309	BB309	GI211	GI211	GI211	GI211	GI211	GI211
1	4142135	<0.008	3.4	<0.008	<0.5	7.90	<5	720	3.20	18
2	4142136	<0.008	1.5	1.5	<0.5	8.67	14	844	3.66	19
3	4142137	<0.008	0.2	0.1	<0.5	2.98	9	92	0.17	22
4	4142138	<0.008	2.5	1.7	<0.5	7.31	22	640	2.96	13
5	4142139	<0.008	0.7	-	<0.5	2.66	14	214	0.26	15
6	4142140	<0.008	-	-	<0.5	8.41	<5	489	<0.05	16
7	4142141	<0.008	-	-	<0.5	3.12	5	229	0.20	20
8	4142142	<0.008	-	-	<0.5	4.83	21	643	<0.05	10
9	4142143	<0.008	0.2	0.1	<0.5	5.33	<5	1240	1.08	12
10	4142144	<0.008	0.5	0.4	<0.5	2.23	12	158	0.24	22
11	4142145	<0.008	-	-	<0.5	2.88	18	341	0.60	64
12	4142146	<0.008	<0.008	-	<0.5	6.40	24	522	7.72	12
13	4142147	<0.008	0.1	-	<0.5	7.25	8	538	7.69	15
14	4142148	<0.008	0.5	0.2	<0.5	5.06	<5	177	0.25	33
15	4142149	<0.008	0.5	1.5	<0.5	6.57	27	524	8.02	12
16	4142150	0.01	0.1	0.1	<0.5	0.85	<5	38	17.80	<5
17	4142151	502.42	42	42	<0.5	5.66	<5	339	10.30	13
18	4142152	0.5	0.05	12.5	0.6	0.12	15	<5	22.30	6
19										
20										
21										
22										
23										
24	DETECTION	0.008	0.008	0.008	0.5	0.01	5	5	0.05	5
25	UNITS	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm

Result ppm unless otherwise specified IS = insufficient sample  
 element not determined SNR = sample not received

AUTHORISED OFFICER

Cost code(s) G.02142 Authorised by

### ANALYTICAL DATA

JPO No. 77191

SAMPLE PREFIX

REPORT No. 104165.60.11416

REPORT DATE 30/11/95

CLIENT ORDER No. 77191

PAGE 2 OF 2

MET ID	SAMPLE No.	Fe	K	Mg	Mn*	Pb	Zn	Sn	W	Mo
		GI211	GI211	GI211	GI211	GI211	GI211	GX401	GX401	GX401
1	4142135	4.19	3.47	1.53	422	65	157	4	10	<3
2	4142136	4.86	3.80	1.61	438	231	98	75 & 76	<10	<3
3*	4142137	2.69	0.25	0.16	172	65	358	<3	<10	<3
	4142138	3.85	2.99	1.35	411	95	193	7	<10	<3
	4142139	2.34	0.71	0.38	170	25	93	<3	10	<3
6	4142140	3.55	2.46	0.66	214	42	85	6	<10	<3
	4142141	2.34	0.84	0.36	194	19	73	<3	<10	<3
8	4142142	2.15	2.38	0.51	192	20	79	5	<10	<3
	4142143	2.64	4.29	0.90	219	62	145	7	<10	<3
	4142144	2.35	0.51	0.31	187	17	62	<3	<10	<3
11*	4142145	2.59	0.93	0.37	231	29	79	<3	15	<3
	4142146	3.52	3.77	1.61	463	207	308	6	<10	<3
13	4142147	3.10	3.70	1.58	461	70	138	7	<10	<3
	4142148	4.41	0.59	0.16	442	65	156	<3	<10	<3
15	4142149	3.45	3.55	1.57	511	54	109	6	<10	<3
16	4142150	1.04	0.42	9.34	660	398	608	-	-	-
7	4142151	1.73	2.93	5.52	483	48	87	-	-	-
18	4142152	0.57	0.05	12.80	314	15	118	-	-	-
9										
20										
21										
2										
23										
4	DETECTION	0.01	0.05	0.01	10	10	5	3	10	3
25	UNITS	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm

1. Results in ppm unless otherwise specified  
 2. IS = insufficient sample  
 3. Any special assay AUTHORIZED  
 4. SNR = sample not received  
 5. Elements/minerals OFFICER

Cost code(s) G.02142

Authorised by

313031

**Appendix 2**

**Peak Spur Road Soil and Stream Sediment Sample Ledger and Assays**

Peak Spur Road  
Soil and Stream Sediment Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Sample Type	Category	Depth (m)	Horizon	Colour	Texture	Field ID	Comments
5468920	77195	398595	5419715	SOIL	SL	2	B	O	We	CcySsh	Gravelly clay with clasts of orange siltstone. Bell Shale?
5468921	77195	398545	5419735	SOIL	SL	1.7	B	CG	We	CcySsh	Light blue grey and pale orange silty clay with some gravelly fragments
5468922	77195	398510	5419770	SOIL	SL	1.6	B	YG	We	CcySsh	Light yellow grey and grey silty clay. Non calcareous
5468923	77195	398460	5419770	SOIL	SL	1.5	B	CG	WeBn	CcySsh	Orange and pale grey clay. Banded, weathered bedrock
5468924	77195	398415	5419790	SOIL	SL	1.7	B	GDG	We	CcySsh	Grey to dark grey silty clay. Orange specks
5468925	77195	398365	5419810	SOIL	SL	1.2	BC	CG	WeVq	CcySsh	Orange brown stiff silty clay. Possible quartz vein. Bell Shale?
5468926	77195	398315	5419818	SOIL	SL	1.2	BC	OGB	We	CcySsh	Crumbly orange and greyish brown silty clay. Weathered bedrock
5468927	77195	398270	5419820	SOIL	SL	1.2	BC	GO	We	CcySsh	Greyish orange, crumbly, silty clay. Weathered Bell Shale
5468928	77195	398215	5419825	SOIL	SL	1.2	BC	GO	We	CcySsh	Greyish orange and some grey brown silty clay. Weathered Bell Shale?
5468929	77195	398165	5419827	SOIL	SL	1	BC	GO	We	CcySsh	Greyish orange silty clay. Weathered Bell Shale
5468930	77195	398115	5419830	SOIL	SL	0.8	B	MO	We	CcySsh	Mottled orange, brown and grey clay. Very wet and sticky
5468931	77195	398065	5419830	SOIL	SL	0.9	BC	OGB	We	CcySsh	Orange, grey brown and greyish orange silty clay. Weathered bedrock, Bell Shale
5468932	77195	398015	5419830	SOIL	SL	1	BC	OG0	We	CcySsh	Orange and grey orange silty clay. Weathered Bell Shale
5468933	77195	397960	5419830	SOIL	SL	1.5	BC	YGOG	We	CcySsh	Pale yellow grey and grey orange silty clay. Weathered bedrock
5468934	77195	397910	5419830	SOIL	SL	0.8	BC	OG0	We	CcySsh	Orange and greyish orange silty clay. Weathered Bell Shale. Dry creek 3m west, oriented N-S
5468935	77195	397860	5419830	SOIL	SL	1	BC	GO	We	CcySsh	Pale greyish orange silty clay. Weathered Bell Shale. Creek flowing N S east of site
5468936	77195	397810	5419830	SOIL	SL	0.6	BC	GO	We	CcySsh	Crumbly grey orange silty clay, and brown clay. Fossiliferous. Bell Shale clasts. Creek flowing S-N

313032

Peak Spur Road  
Soil and Stream Sediment Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Sample Type	Category	Depth (m)	Horizon	Colour	Texture	Field ID	Comments
5468937	77195	397760	5419830	SOIL	SL	0.7	BC	GB	We	CcySsh	Grey brown orange clay with rock fragments
5468938	77195	397710	5419830	SOIL	SL	0.6	BC	BO	WeFe	CcySsh	Weathered brown and orange (minor red) silty clays with ferruginous rock fragments
5468939	77195	397660	5419830	SOIL	SL	1	BC	ROM	We	CcySsh	Speckled red and orange silty clay. Weathered bedrock
5468940	77195	397610	5419830	SOIL	SL	0.7	BC	GB0	We	CcySsh	Greyish brown and orange silty clay
5468941	77195	398605	5420020	SOIL	SL	1.1	BC	G0	We	CcySsh	Pale greyish orange silty clay. Weathered Bell Shale
5468942	77195	398555	5420020	SOIL	SL	0.5	BC	OG	We	CcySsh	Silty clay, pale orange to grey
5468943	77195	398505	5420020	SOIL	SL	0.6	BC	O	We	CcySsh	Orange silty clay, some light grey clay
5468944	77195	398455	5420020	SOIL	SL	0.15	C	DG0	We	CcySsh	Dark grey to orange silty clay. Weathered bedrock
5468945	77195	398405	5420020	SOIL	SL	0.8	BC	O	We	CcySsh	Orange silty clay. Coarse rock fragments (weathered bedrock). Very crumbly
5468946	77195	398355	5420020	SOIL	SL	0.4	C	OB	We	CcySsh	Orange to brown (dark) clays with rock fragments. Weathered bedrock
5468947	77195	398305	5420020	SOIL	SL	0.5	C	OLB	We	CcySsh	Orange to light brown clay. Crumbly with some rock fragments. Weathered bedrock
5468948	77195	398255	5420020	SOIL	SL	0.8	B	O	We	CcySsh	Orange clay with minor silts. Weathered Bell Shale
5468949	77195	398205	5420020	SOIL	SL	1	B	LGV	We	CcySsh	Light grey to greenish clay. Soft with some fine rock fragments
5468950	77195	398155	5420020	SOIL	SL	1.1	B	OB	We	CcySsh	Orange brown clay. Very fine and crumbly
5468951	77195	398105	5420020	SOIL	SL	0.7	BC	LGO	We	CcySsh	Light grey to orange clay with very fine silts
5468952	77195	398055	5420020	SOIL	SL	0.6	BC	OLG	We	CcySsh	Orange to light grey clay
5468953	77195	398005	5420020	SOIL	SL	0.4	BC	BDB	We	CcySsh	Brown to dark brown silty clay, weathered bedrock, Bell Shale
5468954	77195	397955	5420020	SOIL	SL	0.2	C	OB	We	CcySsh	Orange to brown silty clay. Loose and crumbly
5468955	77195	397905	5420020	SOIL	SL	0.3	BC	LOB	We	CcySsh	Light orange brown, dry, silty clay. Weathered bedrock

Peak Spur Road  
Soil and Stream Sediment Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Sample Type	Category	Depth (m)	Horizon	Colour	Texture	Field ID	Comments
5468956	77195	397855	5420020	SOIL	SL	1.1	C	O	We	CcySsh	Orange silty clay, crumbly. Weathered bedrock, Bell Shale
5468957	77195	397805	5420020	SOIL	SL	0.4	BC	LB	We	CcySsh	Light brown clay. Gritty (small rock fragments). Weathered bedrock
5468958	77195	397755	5420020	SOIL	SL	0.7	C	LBOG	We	CcySsh	Light brown orange to grey silty clay. Gritty (small rock fragments)
5468959	77195	397705	5420020	SOIL	SL	0.8	C	LBOG	We	CcySsh	Light brown orange to grey sticky clay. Rock fragments (shale). Weathered bedrock
5468960	77195	397655	5420020	SOIL	SL	0.4	C	OB	We	CcySsh	Orange to brown silty clay. Contains small rock fragments. Red bands. Weathered bedrock
5468961	77195	397605	5420020	SOIL	SL	0.7	BC	B	We	CcySsh	Brown silty clay with small rock fragments. Gritty, crumbly
5468962	77195	398460	5419260	SOIL	SL	2	BC	O	We	CcySsh	Soft orange silty clay, containing rock fragments.
5468963	77195	398410	5419260	SOIL	SL	1	C	OLB	We	CcySsh	Orange, light brown gritty clay containing rock fragments.
5468964	77195	398360	5419260	SOIL	SL	0.8	C	OB	We	CcySsh	Orange to brown silty clay containing rock fragments (weathered bedrock)
5468965	77195	398310	5419260	SOIL	SL	0.8	C	LDG		Ccy	Light to dark grey soft clay
5468966	77195	398260	5419260	SOIL	SL	0.6	BC	OLB	We	CcySsh	Orange to light brown clay (weathered bedrock), gritty and crumbly.
5468967	77195	398210	5419260	SOIL	SL	0.6	BC	BO	We	CcySsh	Brown orange silty clay with shale fragments
5468968	77195	398160	5419260	SOIL	SL	0.7	BC	LDB	We	CcySsh	Light to dark brown silty, gritty clay
5468969	77195	398110	5419260	SOIL	SL	1	BC	OLB	We	CcySsh	Orange to light brown, sticky, silty clay with rock fragments
5468970	77195	398060	5419260	SOIL	SL	0.7	C	OLB	We	CcySsh	Orange to light brown silty clay with rock fragments
5468971	77195	398010	5419260	SOIL	SL	0.8	BC	LB	We	CcySsh	Light brown clay, soft, silty
5468972	77195	397960	5419260	SOIL	SL	0.9	BC	OLB	We	CcySsh	Orange to light brown clay, some small weathered bedrock fragments.
5468973	77195	397910	5419260	SOIL	SL	0.7	C	OLB	We	CcySsh	Orange to light brown silty clay. Gritty and crumbly with small rock fragments
5468974	77195	397860	5419260	SOIL	SL	0.4	BC	OLBR	We	CcySsh	Orange to light brown silty clay

313034

Peak Spur Road  
Soil and Stream Sediment Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Sample Type	Category	Depth (m)	Horizon	Colour	Texture	Field ID	Comments
5468975	77195	397810	5419260	SOIL	SL	0.7	C	O	We	CcySsh	Orange silty clay, soft and pliable with minor rock fragments
5470801	77195	397780	5420020	STREAM SEDIMENT	SS						Creek flowing north, oriented approximately N-S. Light to dark brown silt
5470802	77195	398595	5419715	STREAM SEDIMENT	SS						Creek flowing north oriented approximately N-S. Dark brown silt



**Analabs**  
\*\*\*\*\*

**Analabs Pty. Ltd.**  
A.C.N. 004 591 004

Phone (004) 316837      14 Thirkeil St. COOEE TAS 7320      Fax (004) 318890

**ANALYTICAL REPORT No.**

104165.60.11504

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

INVOICE TO:

CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

ORDER No.	PROJECT
77195	
DATE RECEIVED	RESULTS REQUIRED
21/12/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
6	09/01/96	1	58

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
488920-475,5470801-802	SD Pres : 8F031	Au,Au(R),Au151/86309 Sn,W,Mo/GX401 Ag,H3,As,Ba,Ca,Cu,Fe,K,Mg,Mn,Pb, Zn/61211

RESULTS TO  
 Mr S Nennes  
 CRA Exploration Pty Ltd  
 P.O. Box 8093  
 NORTHLAND CENTRE VIC 3072

RESULTS TO  
 Mr C Hayward  
 CRA Exploration Pty Limited  
 P.O. Box 8093  
 NORTHLAND CENTRE VIC 3072

RESULTS TO  
 Exploration Technology & Information Group  
 Information Resources  
 Private Bag 3 Bundora MDC  
 Victoria 3083

REMARKS

*A. M. A. Good*  
 AUTHORIZED OFFICER

313037



Analabs Pty. Ltd.

A.C.N. 004 591 864

## ANALYTICAL DATA

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77195

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	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
METHOD		GI211								
1	5468920	<0.5	8.21	35	344	0.81	39	6.24	1.47	0.92
2	5468921	<0.5	6.88	21	522	0.06	17	2.04	2.88	0.79
3	5468922	<0.5	6.71	51	475	0.06	16	2.58	2.62	0.62
4	5468923	<0.5	8.54	53	612	<0.05	8	2.17	3.28	0.51
5	5468924	<0.5	6.63	10	571	0.05	11	1.07	3.12	0.70
6	5468925	<0.5	7.52	41	460	<0.05	6	5.21	2.53	0.62
7	5468926	<0.5	7.57	33	479	<0.05	6	7.50	2.57	0.54
8	5468927	<0.5	6.11	11	453	<0.05	8	1.72	2.24	0.46
9	5468928	<0.5	7.01	34	440	<0.05	9	5.83	2.37	0.42
10	5468929	<0.5	7.87	46	548	<0.05	6	3.14	3.01	0.52
11	5468930	<0.5	6.54	37	484	<0.05	<5	4.04	2.64	1.04
12	5468931	<0.5	7.08	40	429	<0.05	10	7.71	2.41	0.95
13	5468932	<0.5	7.53	17	439	<0.05	10	3.29	2.78	0.52
14	5468933	<0.5	6.38	19	330	<0.05	<5	0.96	2.32	0.44
15	5468934	<0.5	6.10	33	328	<0.05	10	4.05	1.93	0.43
16	5468935	<0.5	5.98	9	306	<0.05	15	2.21	1.64	0.39
17	5468936	<0.5	7.10	34	240	<0.05	17	6.12	1.52	0.43
18	5468937	<0.5	7.39	60	217	<0.05	22	13.80	1.38	0.35
19	5468938	<0.5	8.82	19	268	0.06	30	7.12	1.70	0.54
20	5468939	<0.5	6.01	17	297	<0.05	21	3.55	2.23	0.43
21	5468940	<0.5	6.19	26	287	<0.05	17	4.55	2.11	0.44
22	5468941	<0.5	5.00	33	277	<0.05	10	2.88	1.40	0.38
23	5468942	<0.5	6.10	100	409	<0.05	<5	3.91	2.27	0.63
24	5468943	<0.5	6.13	146	355	<0.05	8	4.64	1.92	0.55
25	5468944	<0.5	5.81	30	368	<0.05	10	4.17	2.07	1.02

Results in ppm unless otherwise specified  
- = element not determinedIS = insufficient sample  
SNR = sample not receivedAUTHORISED  
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**ANALYTICAL DATA**

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SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.11504				09/01/96		77195		2 OF 6	
	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg	
METHOD		GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211	
1	5468945	<0.5	5.59	26	343	<0.05	11	5.27	1.92	0.84	
2	5468946	<0.5	5.69	25	369	<0.05	11	4.25	2.08	0.71	
3	5468947	<0.5	5.95	20	308	<0.05	9	3.96	1.72	0.74	
4	5468948	<0.5	6.14	52	233	<0.05	10	4.52	1.22	0.44	
5	5468949	<0.5	6.00	34	431	<0.05	14	2.24	1.67	0.56	
6	5468950	<0.5	6.75	48	199	<0.05	21	5.12	1.06	0.42	
7	5468951	<0.5	5.61	29	215	<0.05	14	1.88	1.06	0.97	
8	5468952	<0.5	5.66	32	393	<0.05	7	3.50	1.45	0.70	
9	5468953	<0.5	4.56	15	238	<0.05	9	3.24	0.64	0.49	
10	5468954	<0.5	5.51	7	244	<0.05	9	1.81	0.60	0.12	
11	5468955	<0.5	6.75	14	232	<0.05	13	1.03	0.60	0.13	
12	5468956	<0.5	6.51	44	290	<0.05	20	3.92	0.75	0.23	
13	5468957	<0.5	3.82	30	153	0.06	8	2.76	0.40	0.21	
14	5468958	<0.5	8.17	83	320	<0.05	36	5.76	1.14	0.42	
15	5468959	<0.5	8.22	52	266	0.12	20	5.11	1.05	0.38	
16	5468960	<0.5	10.30	77	364	0.23	25	6.61	1.40	0.45	
17	5468961	<0.5	10.90	62	378	0.35	28	6.04	1.38	0.66	
18	5468962	<0.5	8.44	38	382	<0.05	27	6.02	1.96	0.50	
19	5468963	<0.5	9.36	41	395	<0.05	41	7.97	2.04	0.58	
20	5468964	<0.5	9.91	21	263	<0.05	42	8.69	1.40	0.44	
21	5468965	<0.5	8.61	22	582	0.35	19	3.50	2.95	1.39	
22	5468966	<0.5	8.75	26	540	<0.05	11	4.69	2.65	0.92	
23	5468967	<0.5	8.25	6	290	0.06	14	4.96	1.26	0.39	
24	5468968	<0.5	8.19	23	191	0.62	45	11.40	0.72	1.09	
25	5468969	<0.5	8.44	14	159	0.14	33	12.60	0.53	0.49	

Results in ppm unless otherwise specified  
 -- element not determined

IS = insufficient sample  
 SNR = sample not received

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**ANALYTICAL DATA**

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	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
ETHOD		GI211								
1	5468970	<0.5	9.23	24	450	<0.05	23	7.32	2.46	0.68
2	5468971	<0.5	9.23	44	385	<0.05	21	6.76	1.99	0.57
3	5468972	<0.5	8.73	36	352	<0.05	29	6.69	1.86	0.52
4	5468973	<0.5	8.69	47	524	<0.05	14	5.17	2.74	0.54
5	5468974	<0.5	8.38	13	434	<0.05	14	5.13	2.32	0.49
6	5468975	<0.5	8.75	34	533	<0.05	18	5.05	2.95	0.60
7	5470801	<0.5	1.83	23	166	0.11	8	1.16	0.51	0.15
8	5470802	<0.5	3.86	15	154	0.71	10	4.43	0.52	0.66
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.5	0.01	5	5	0.05	5	0.01	0.05	0.01
25	UNITS	ppm	%	ppm	ppm	%	ppm	%	%	%

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SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.11504				09/01/96		77195		4 OF 6	
METHOD	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)	
		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309	
1	5468920	244	37	176	7	10	<3	<0.008	-	-	
2	5468921	52	19	255	6	25	<3	<0.008	-	-	
3	5468922	40	22	69	9	10	<3	<0.008	-	-	
4	5468923	20	34	28	13	<10	<3	<0.008	-	-	
5	5468924	52	28	50	13	<10	<3	<0.008	-	-	
6	5468925	52	28	29	7	<10	<3	<0.008	-	-	
7	5468926	80	26	67	8	<10	<3	<0.008	-	-	
8	5468927	32	20	41	9	<10	<3	<0.008	-	-	
9	5468928	33	19	28	8	10	<3	<0.008	-	-	
10	5468929	21	11	18	8	<10	<3	<0.008	-	-	
11	5468930	53	55	32	5	10	<3	<0.008	-	-	
12	5468931	71	23	67	9	<10	<3	<0.008	<0.008	-	
13	5468932	53	20	71	7	<10	4	<0.008	-	-	
14	5468933	19	20	15	6	<10	<3	<0.008	-	-	
15	5468934	45	20	39	8	<10	<3	<0.008	-	-	
16	5468935	52	22	33	5	<10	<3	<0.008	-	-	
17	5468936	90	25	48	6	<10	4	<0.008	-	-	
18	5468937	490	28	86	5	10	<3	<0.008	-	<0.008	
19	5468938	906	19	84	4	<10	4	<0.008	-	-	
20	5468939	298	28	46	7	10	<3	<0.008	-	-	
21	5468940	766	27	47	13	20	<3	<0.008	-	-	
22	5468941	46	21	37	10	<10	<3	<0.008	<0.008	-	
23	5468942	53	21	45	8	<10	<3	<0.008	-	-	
24	5468943	49	25	51	7	<10	<3	<0.008	-	-	
25	5468944	113	26	63	8	<10	<3	<0.008	-	-	



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		104165.60.11504				09/01/96		77195		5 OF 6	
	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)	
METHOD		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309	
1	5468945	70	18	60	8	<10	<3	<0.008	-	<0.008	
2	5468946	61	23	55	8	<10	<3	<0.008	-	-	
3	5468947	123	23	58	7	<10	<3	<0.008	-	-	
4	5468948	77	26	44	9	<10	<3	<0.008	-	-	
5	5468949	38	40	95	6	<10	<3	<0.008	-	-	
6	5468950	102	33	52	8	<10	4	<0.008	-	-	
7	5468951	41	36	184	12	10	<3	<0.008	-	-	
8	5468952	91	21	52	8	<10	<3	<0.008	-	-	
9	5468953	69	27	60	8	<10	<3	<0.008	-	-	
10	5468954	20	50	37	10	15	<3	<0.008	-	-	
11	5468955	<10	141	39	11	10	<3	<0.008	-	-	
12	5468956	29	38	64	8	15	<3	<0.008	<0.008	-	
13	5468957	80	35	26	9	10	<3	<0.008	-	-	
14	5468958	99	27	60	10	15	<3	<0.008	-	-	
15	5468959	100	33	46	10	<10	<3	<0.008	-	-	
16	5468960	147	38	84	10	10	<3	<0.008	-	-	
17	5468961	381	36	111	12	10	<3	<0.008	-	-	
18	5468962	150	27	68	12	10	<3	<0.008	-	-	
19	5468963	391	27	90	8	<10	<3	<0.008	-	-	
20	5468964	236	22	88	8	15	5	<0.008	-	-	
21	5468965	116	29	137	9	10	<3	<0.008	-	-	
22	5468966	92	19	46	6	<10	<3	<0.008	<0.008	-	
23	5468967	117	33	50	7	15	<3	<0.008	-	-	
24	5468968	293	16	132	4	<10	6	<0.008	-	-	
25	5468969	164	21	79	5	<10	6	<0.008	-	-	

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	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)
METHOD		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309
1	5468970	114	23	76	12	<10	4	<0.008	-	-
2	5468971	1110	27	95	5	10	4	<0.008	-	-
3	5468972	476	30	75	9	<10	<3	<0.008	-	-
4	5468973	323	29	60	8	<10	<3	<0.008	-	-
5	5468974	1230	33	46	10	<10	<3	<0.008	-	-
6	5468975	141	24	59	9	<10	<3	<0.008	-	-
7	5470801	120	26	31	9	<10	<3	<0.008	-	-
8	5470802	634	34	103	8	<10	<3	<0.008	-	-
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	10	10	5	3	10	3	0.008	0.008	0.008
25	UNITS	ppm	ppm	ppm						

!...ults in ppm unless otherwise specified  
 -- = element not determined

IS = insufficient sample  
 SNR = sample not received

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*PP M.R. Good*

**Appendix 3**

**Old Park Road Soil and Rockchip Sample Ledgers and Assays**

Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5468976	77197	400910	5421150	6000	11200	Soil	0.9	OLYG	BC	CcySch	Clay with some rock fragments
5468977	77197	400860	5421150	5950	11200	Soil	0.8		BC	Ccy	Light orange, crumbly silty clay with white streaks
5468978	77197	400810	5421150	5900	11200	Soil	1.5	ORBYB	BC	CcySch	Orange clay with minor red brown to yellow brown rock fragments. Some organic matter
5468979	77197	400760	5421150	5850	11200	Soil	0.5	YOLG	BC	CcySch	Crumbly clay with minor angular rock fragments
5468980	77197	400710	5421150	5800	11200	Soil	0.2	LOLB	BC	CcySch	Light orange to yellow brown clay with small rock fragments
5468981	77197	400660	5421150	5750	11200	Soil	0.6	LYW	BC	CcySch	Pale yellow creme clay with rock fragments
5468982	77197	400610	5421150	5700	11200	Soil	1.1	YG	BC	CcySch	Yellow grey clay with angular rock fragments, wet sample
5468983	77197	400560	5421150	5650	11200	Soil	2	OG	BC	CcySls	Orange grey clay with angular rock fragments
5468984	77197	400510	5421150	5600	11200	Soil	0.4	OBLGW	BC	CcySls	Orange brown clay with light creme colored rock fragments
5468985	77197	400460	5421150	5550	11200	Soil	0.8	OBLG	BC	CcySls	Orange brown clay with angular fragments of light grey bedrock
5468986	77197	400410	5421150	5500	11200	Soil	1.6	OB	BC	Ccy	Orange brown clay
5468987	77197	400360	5421150	5450	11200	Soil	1.3	OGLY	C	CcySls	Orange grey clay with 30% pale yellow rock fragments
5468988	77197	400310	5421150	5400	11200	Soil	1.4	YO	BC	Ccy	Dry, crumbly yellow orange clay with rare rock fragments
5468989	77197	400210	5421150	5300	11200	Soil	0.3	LYOG	BC	CcySls	Pale yellow grey clay with angular rock fragments
5468990	77197	400160	5421150	5250	11200	Soil	1.3	LOLB	BC	CcySls	Pale orange to light brown clay, with small angular fragments of weathered bedrock. Sample reasonably wet.
5468991	77197	400110	5421150	5200	11200	Soil	1	LBO	B	Ccy	Light brown to orange brown clay soft, gritty, sticky clay
5468992	77197	400060	5421150	5150	11200	Soil	0.7	LDBLO	BC	CcySch	Dark to light brown clay with weathered, angular rock fragments

Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5468993	77197	400010	5421150	5100	11200	Soil	0.7	RBB	BC	CcySls	Red brown to brown clay with rock fragments
5468994	77197	399960	5421150	5050	11200	Soil	0.8	BOLB	C	CcySch	Brown orange wet clay with 40% light brown rock fragments
5468995	77197	399910	5421150	5000	11200	Soil	0.4	BRYG	BC	CcySls	Mottled, crumbly brown clay with fragments of red to yellow grey bedrock
5468996	77197	400110	5421050	5200	11100	Soil	0.5	OLB	BC	CcySch	Orange to light brown clay with fragments weathered bedrock
5468997	77197	400160	5421050	5250	11100	Soil	0.4	BG	C	CcySch	Brown grey silty clay with bedrock fragments
5468998	77197	400210	5421050	5300	11100	Soil	0.5	LDB	BC	CcySch	Light to dark brown clay with black rock fragments
5468999	77197	400260	5421050	5350	11100	Soil	1.2	OLG	BC	CcySch	Orange to light grey clay with coarse rock fragments. Sample very wet.
5469000	77197	400310	5421050	5400	11100	Soil	0.4	G	C	CgSls	Grey gravel. Very wet sample next to a creek
5470201	77197	400360	5421050	5450	11100	Soil	0.8	DO	BC	CcySls	Dark orange, crumbly clay with small, weathered rock fragments
5470202	77197	400410	5421050	5500	11100	Soil	1.5	O	B	Ccy	Orange, crumbly clay
5470203	77197	400460	5421050	5550	11100	Soil	0.6	OLB	BC	CcySch	Orange to light brown clay with dark brown red bedrock fragments
5470204	77197	400510	5421050	5600	11100	Soil	1.3	OB	B	Ccy	Dry and crumbly, orange to brown clay. Very fine light brown rock fragments
5470205	77197	400560	5421050	5650	11100	Soil	0.7	OB	C	CcySch	Crumbly orange to brown clay with rock fragments
5470206	77197	400610	5421050	5700	11100	Soil	0.4	ODB	C	CcySch	Orange to dark brown clay with rock fragments. Rock outcropping
5470207	77197	400660	5421050	5750	11100	Soil	0.8	OLB	BC	Ccy	Light brown and orange gritty clay
5470208	77197	400710	5421050	5800	11100	Soil	0.6	OLB	BC	CcySch	Orange and light brown clay with fine rock fragments
5470209	77197	400760	5421050	5850	11100	Soil	0.8	LBO	BC	CcySch	Light brown and orange clay with small rock fragments approximately 2 to 5mm. Weathered bedrock
5470210	77197	400810	5421050	5900	11100	Soil	0.9	OBLG	BC	CcySch	Orange and brown clay with fine, light grey rock fragments

Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5470211	77197	400660	5421550	5750	11600	Soil	0.9	OB	BC	CcySch	Orange brown clay, dry and crumbly. Some organic matter. Contains angular fragments of weathered bedrock
5470212	77197	400610	5421550	5700	11600	Soil	0.3	GDB	BC	CcySls	Soft grey clay with dark brown rock fragments up to 10mm
5470213	77197	400560	5421550	5650	11600	Soil	2	LY	C	CcySch	Creamy yellow clay with some rock fragments. Site marshy - sample very wet
5470214	77197	400510	5421550	5600	11600	Soil	0.3	BG	C	CcySls	Brown grey clay with some tree roots and rock fragments. Hit bedrock
5470215	77197	400460	5421550	5550	11600	Soil	0.4	OBLB	BC	CcySls	Orange and brown clay with light brown rock fragments
5470216	77197	400410	5421550	5500	11600	Soil		B	C	CcySls	Crumbly brown silty clay with 10% light brown angular rock fragments
5470217	77197	400360	5421550	5450	11600	Soil	0.4	DBLB	C	CcySls	Dark brown crumbly clay with light brown streaks. Small rock fragments
5470218	77197	400310	5421550	5400	11600	Soil	0.5	DBN	BC	CcySls	Dark brown to black gritty clay.
5470219	77197	400260	5421550	5350	11600	Soil	0.3	GBLG	C	CcySls	Grey brown silty clay with light grey rock fragments
5470220	77197	400210	5421550	5300	11600	Soil	0.3	GBFB	C	CcySls	Grey brown silty clay containing red brown rock fragments
5470221	77197	400160	5421550	5250	11600	Soil		GBFB	C	CcySls	Grey brown gritty clay with angular red brown rock fragments
5470222	77197	400110	5421550	5200	11600	Soil	1.3	LGB	C	CcySls	Pale grey brown clay with 40% angular rock fragments
5470223	77197	400110	5421450	5200	11500	Soil		OLBG	BC	CcySch	Orange to light brown grey clay. Very soft and wet. 20% angular rock fragments up to 10mm
5470224	77197	399960	5421450	5050	11500	Soil	0.4	LBLOG	C	CcySls	Light brown clay with angular light orange grey rock fragments up to 15mm. Some organic matter
5470225	77197	400010	5421450	5100	11500	Soil	0.4	LDOB	BC	CcySch	Light to dark orange brown crumbly clay. Angular light orange rock fragments up to 5mm
5470226	77197	400060	5421450	5150	11500	Soil	1.2	FBY	BC	CcySch	Red brown clay with small yellow rock fragments (0.5mm)

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Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5470227	77197	400160	5421450	5250	11500	Soil	0.9	OLB	C	CcySls	Orange to light brown clay - very soft and wet. Small fragments of angular weathered bedrock, generally less than
5470228	77197	400210	5421450	5300	11500	Soil	0.5	LG	C	CcySls	Light grey soft clay, very wet. Sharp angular rock fragments up to 15mm. Weathered limestone
5470229	77197	400260	5421450	5350	11500	Soil	0.8	LGO	C	CcyCgSls	Light grey and orange clay. Very wet. Gravelly rock fragments up to 20mm. 20 from creek
5470230	77197	400310	5421450	5400	11500	Soil	0.2	LG	C-Bdrk	CcySls	Light grey clay, very wet. Angular rock fragments and chips. 30m from creek
5470231	77197	400360	5421450	5450	11500	Soil	0.2	BLBLG	C-bdrk	CcySls	Brown to light brown clay with light grey rock fragments up to 10mm
5470232	77197	400410	5421450	5500	11500	Soil	0.3	DOBLO	C-Bdrk	CcySls	Dry, crumbly, dark orange and brown clay. Angular light orange rock fragments up to 15mm
5470233	77198	400460	5421450	5550	11500	Soil	0.3	BLBG	C	CcySls	Brown crumbly clay containing some organic matter. No rock fragments
5470234	77198	400510	5421450	5600	11500	Soil	0.3	BLB	C-Bdrk	CcySls	Brown dry crumbly clay containing small, angular, orange and light brown rock fragments up to 5mm
5470235	77198	400560	5421450	5650	11500	Soil	0.1	DBLB	C-Bdrk	CcySls	Dark brown clay with light brown angular rock fragments. Bedrock below 0.1m
5470236	77198	400610	5421450	5700	11500	Soil	0.4	DBLB	C-Bdrk	CcySls	Dark brown, dry and crumbly, clay. Small light brown rock fragments up to 5mm, approximately 10%
5470237	77198	400660	5421450	5750	11500	Soil	0.4	OLB	C-Bdrk	CcySls	Orange to light brown clay with light brown to grey rock fragments up to 20mm. Some organic matter
5470238	77198	400710	5421450	5800	11500	Soil	0.3	LDB	C-Bdrk	CcySls	Light to dark brown crumbly clay. Rock fragments less than 15mm, some with iron staining. Organic matter present.
5470239	77198	400760	5421450	5850	11500	Soil	0.4	OG	C	CcySch	Orange and grey clay. 40% rock fragments up to 20mm. Wet sample .

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Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5470240	77198	400910	5421350	6000	11400	Soil		DOBLB	C	CcySch	Dry dark orange and brown clay with light brown and dark red brown rock fragments to 10mm
5470241	77198	400860	5421350	5950	11400	Soil	0.7	ODB	BC	CcySch	Orange clay, soft and pliable (high plasticity). Small rock fragments <5mm dark brown in colour
5470242	77198	400810	5421350	5900	11400	Soil	0.7	OBLBR	BC	CcySch	Orange brown sticky clay. Light brown rock fragments less than 5mm
5470243	77198	400760	5421350	5850	11400	Soil	1	OLBDBG	BC	Ccy	Orange, light brown, dark brown and grey gritty clay. Very soft and pliable. Light orange and grey rock fragments less than 10mm. Next to creek
5470244	77198	400710	5421350	5800	11400	Soil	1.3	OBLB	C	CcySlS	Orange brown clay (very wet) containing 15 to 20% angular light brown rock fragments. Site very marshy, covered in thick undergrowth
5470245	77198	400660	5421350	5750	11400	Soil	0.8	ODOLG	C	CcySlS	Heavy plastic orange clay with dark orange and light grey streaks. Rock fragments less than 20mm
5470246	77198	400610	5421350	5700	11400	Soil		BOLB	C	CcySlS	Brown clay with orange streaks. Rock fragments sharp and angular, less than 10 to 15mm. Generally red brown iron staining
5470247	77198	400560	5421350	5650	11400	Soil	0.4	GDRBO	BC	CcySlS	Soft and pliable grey coloured clay. Weathered rock fragments dark red brown in colour. Some organic matter
5470248	77198	400510	5421350	5600	11400	Soil	0.5	DBO	B	Ccy	Dark brown crumbly gritty clay. Very fine orange rock fragments approximately 1mm
5470249	77198	400460	5421350	5550	11400	Soil	0.3	LG	CBdrk	CcySlS	Light grey clay, very soft and pliable. Large chips of weathered limestone.
5470250	77198	400410	5421350	5500	11400	Soil	0.5	OB	BC	Ccy	Orange to brown clay, dry and crumbly. Rock fragments <10mm

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Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5470251	77198	400360	5421350	5450	11400	Soil	0.5	DBOLB	C	CcySls	Dark brown and orange clay. Very dry and crumbly. Large red brown and light brown rock fragments
5470252	77198	400310	5421350	5400	11400	Soil	0.5	DB	C	CcySls	Dark brown crumbly clay. Fragments of weathered limestone 0.5 to 20mm
5470253	77198	400260	5421350	5350	11400	Soil	0.3	GO	C	CcySls	Soft grey clay. Orange rock fragments less than 20mm
5470254	77198	400210	5421350	5300	11400	Soil	0.2	GO	BC	CcySls	Grey, soft, pliable clay. Some small orange rock chips. Bedrock at 0.2m. Low relief area
5470255	77198	400160	5421350	5250	11400	Soil	0.6	OB	B	Ccy	Orange and brown wet clay. Small rock fragments 2 to 3mm. Sample very crumbly. Low relief area
5470256	77198	400110	5421350	5200	11400	Soil	0.4	YB	BC	CcySch	Yellow brown clay with brown rock fragments
5470257	77198	400060	5421350	5150	11400	Soil	0.3	RBLBG	BC	CcySls	Very dry and crumbly reddish brown clay. Light brown and grey rock fragments generally 2 to 3mm. Some organic matter
5470258	77198	400010	5421350	5100	11400	Soil	0.3	RBLB	BC	CcySls	Very dry and crumbly reddish brown clay. 5% light brown rock fragments (less than 5mm)
5470259	77198	399960	5421350	5050	11400	Soil	0.4	ROLB	BC	CcySls	Crumbly reddish orange clay. Fine rock fragments
5470260	77198	399910	5421350	5000	11400	Soil	0.3	FBO	B	CcySls	Reddish brown and orange clay, sticky and pliable. Very fine rock fragments. Some organic matter
5470261	77198	400010	5421250	5100	11300	Soil	0.4	OBLB	BC	CcySls	Orange brown clay. Fine light brown rock fragments less than 1mm
5470262	77198	400060	5421250	5150	11300	Soil	0.3	B	BC	CcySls	Brown crumbly clay with small orange rock fragments up to 5mm. Some organic matter
5470263	77198	400110	5421250	5200	11300	Soil	0.4	BLO	BC	CcySls	Brown, moist crumbly clay with small light orange rock fragments, generally 1 to 2mm

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Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5470264	77198	400160	5421250	5250	11300	Soil	0.4	BLBO	CBdrk	CcySls	Brown crumbly clay with large, light brown to orange rock fragments up to 30mm (generally 10mm)
5470265	77198	400210	5421250	5300	11300	Soil	0.4	G	CBdrk	CcySls	Grey gritty clay with rock fragments to 20mm
5470266	77198	400260	5421250	5350	11300	Soil	0.3	G	B	Ccy	Grey pliable clay with high plasticity. Some organic matter.
5470267	77198	400310	5421250	5400	11300	Soil	0.3	OB	BC	CcySls	Orange brown clay with rock fragments 0.2 to 0.5mm
5470268	77198	400360	5421250	5450	11300	Soil	0.3	LDB	BC	CcySls	Very dry and crumbly, light to dark brown clay. Minor very fine rock fragments
5470269	77198	400410	5421250	5500	11300	Soil	0.2	GOLB	BC	CcySls	Soft grey pliable clay. Orange and light brown weathered rock fragments less than 20mm.
5470270	77198	400460	5421250	5550	11300	Soil	0.2	G	BC	CcySls	Soft and pliable grey clay. Rock fragments less than 5mm. Next to creek
5470271	77198	400510	5421250	5600	11300	Soil	0.5	LB	BC	CcySls	Light brown clay, very dry and crumbly. Rock fragments generally less than 5mm
5470272	77198	400560	5421250	5650	11300	Soil	1.1	OG	B	Ccy	Orange and grey gritty clay, dry and crumbly. Next to creek
5470273	77198	400610	5421250	5700	11300	Soil	0.4	GLB	BC	CcySls	Soft grey moist clay. Small fragments orange and light brown rock less than 5mm
5470274	77198	400660	5421250	5750	11300	Soil	0.2	GLG	BC	CcySch	Grey, very dry and crumbly clay with light grey rock fragments less than 10mm
5470275	77198	400710	5421250	5800	11300	Soil	1	LOYLG	BC	CcySch	Light orange yellow moist clay with small, light grey rock fragments generally less than 3mm
5470276	77198	400760	5421250	5850	11300	Soil	0.5	ODBLBO	B	CcySch	Orange and dark brown clay. Dry and crumbly with some organic matter. Small light brown and orange rock fragments around 2 to 3mm
5470277	77198	400810	5421250	5900	11300	Soil	0.7	BLB	BC	CcySch	Brown clay with angular light brown rock fragments less than 15mm

Old Park Road Prospect  
Soil Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Type	Depth (m)	Colour	Horizon	Field ID	Comments
5470278	77198	400860	5421250	5950	11300	Soil	0.8	OLBG	B	CcySch	Orange and light brown grey moist clay. Rock fragments generally less than 5mm. 5m from creek
5470279	77198	400910	5421250	6000	11300	Soil	0.3	BO	BC	CcySch	Brown crumbly clay with orange lenses. Light brown rock fragments generally less than 10mm. Low relief area
5470655	77315	400410	5420950	5500	11000	Soil	0.5	OB	BC	CcySch	Silty clay with siliceous rock fragments
5470656	77315	400460	5420950	5550	11000	Soil	0.3	OBLGO	BC	CcySch	Clay with rock fragments
5470657	77315	400510	5420950	5600	11000	Soil	0.8	OBGO	BC	CcySch	Clay with weathered rock fragments
5470658	77315	400560	5420950	5650	11000	Soil	0.5	OGO	BC	CcySch	Silty clay with some rock fragments
5470659	77315	400610	5420950	5700	11000	Soil	0.7	OB	BC	CcySch	Clay with rock fragments
5470660	77315	400660	5420950	5750	11000	Soil	0.3	OLGO	BC	CcySch	Silty clay with large bedrock fragments
5470661	77315	400710	5420950	5800	11000	Soil	0.5	BO	B	Ccy	Silty clay. Very few rock fragments
5470662	77315	400760	5420950	5850	11000	Soil	0.4	OBGO	BC	CcySch	Silty clay with large bedrock fragments
5470663	77315	400810	5420950	5900	11000	Soil	0.7	OB	BC	CcySch	Silty clay with large bedrock fragments
5470664	77315	400360	5420950	5450	11000	Soil	0.9	GO	BC	CcySch	Silty clay with some weathered bedrock fragments
5470665	77315	400310	5420950	5400	11000	Soil	0.3	GO	BC	CcySch	Crumbly, silty clay with weathered bedrock fragments
5470666	77315	400260	5420950	5350	11000	Soil	0.8	GOLG	BC	Ccy	Wet clay
5470667	77315	400210	5420950	5300	11000	Soil	1	GOO	C	Ccy	Silty clay. Quite damp
5470668	77315	400160	5420950	5250	11000	Soil	0.5	OGOBG	C	Ccy	Silty clays. Quite wet
5470669	77315	400110	5420950	5200	11000	Soil	0.2	BGOB	CBdrk	CcySls	Wet, silty clay with ferruginous rock fragments
5470670	77315	400060	5420950	5150	11000	Soil	1.2	LVGYG	C	Ccy	Silty clay with rare bedrock fragments
5470671	77315	400010	5420950	5100	11000	Soil	0.5	OGO	CBdrk	CcySls	Wet clays with fragments of weathered limestone



### 313052

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### ANALYTICAL REPORT No.

104165.60.11531

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

INVOICE TO:

CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

77197

DATE RECEIVED

RESULTS REQUIRED

08/01/96

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

6

22/01/96

1

57

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

5468976-9000.5470201-232

SD Prep : 6P031

Au, Au(R), Au(S)/66309

Sn, W, Mo/GX401

Ag, Al, As, Ba, Ca, Cu, Fe, K, Mg, Mn, Pb, Zn/G1211

RESULTS TO

Ms S Henpes  
CRA Exploration Pty Ltd  
P O Box 8093  
NORTHLAND CENTRE VIC 3072

RESULTS TO

Mr C Hayward  
CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

RESULTS TO

Exploration Technology & Information Group  
Information Resources  
Private Bag 3 Bundoora VIC  
Victoria 3083

REMARKS

AUTHORISED OFFICER

313053

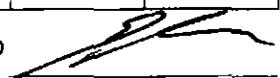
## ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE					
		104165.60.11531	22/01/96	77197	1 OF 6					
	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
METHOD		GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211
1	5468976	<0.5	9.52	36	452	0.34	22	5.31	1.21	0.23
2	5468977	<0.5	10.20	55	762	0.09	38	4.83	1.69	0.11
3	5468978	<0.5	9.59	65	284	0.16	28	6.59	0.45	0.15
4	5468979	<0.5	10.30	46	648	0.61	40	6.30	1.34	0.25
5	5468980	<0.5	8.84	65	658	0.10	32	6.82	2.12	0.28
6	5468981	<0.5	6.93	33	663	0.32	55	1.99	2.98	0.16
7	5468982	<0.5	10.00	45	831	0.30	31	3.97	2.04	0.17
8	5468983	<0.5	7.84	56	592	0.75	25	3.19	2.41	0.23
9	5468984	<0.5	7.44	35	338	0.93	25	6.45	1.58	0.17
10	5468985	<0.5	8.14	40	414	1.76	21	3.77	1.64	0.14
11	5468986	<0.5	7.73	32	417	0.96	19	4.43	2.27	0.32
12	5468987	<0.5	6.98	24	379	1.18	18	6.76	2.07	0.20
13	5468988	<0.5	6.73	27	502	0.42	19	6.10	2.86	0.56
14	5468989	<0.5	8.06	36	3270	0.65	48	3.81	3.26	0.13
15	5468990	<0.5	7.81	65	279	1.10	18	4.01	1.27	0.16
16	5468991	<0.5	8.96	30	418	0.23	36	5.00	1.69	0.25
17	5468992	<0.5	8.64	24	391	0.48	24	5.75	1.41	0.32
18	5468993	<0.5	7.51	17	506	1.15	23	5.36	2.14	0.50
19	5468994	<0.5	9.07	43	619	0.29	20	4.96	2.50	0.39
20	5468995	<0.5	5.35	41	575	0.94	14	4.16	2.86	0.32
21	5468996	<0.5	8.85	28	589	0.11	23	4.74	2.10	0.12
22	5468997	<0.5	5.00	24	518	0.48	11	5.07	2.71	0.14
23	5468998	<0.5	6.19	23	438	0.56	15	6.38	2.01	0.21
24	5468999	<0.5	8.76	32	1150	0.21	22	4.06	4.12	0.19
25	5469000	<0.5	5.88	59	313	1.46	12	5.04	1.45	0.18

Results in ppm unless otherwise specified  
element not determined

IS = insufficient sample  
SNR = sample not received

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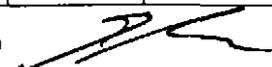
### ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.11531				22/01/96		77197		2 OF 6	
METHOD	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg	
		GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211	
1	5470201	<0.5	7.22	41	332	0.82	20	6.71	1.69	0.20	
2	5470202	<0.5	8.13	7	332	0.11	22	3.93	1.91	0.21	
3	5470203	<0.5	9.57	47	439	0.08	34	6.35	1.97	0.16	
4	5470204	<0.5	9.91	15	326	<0.05	33	7.32	1.18	0.18	
5	5470205	<0.5	10.50	38	765	0.16	31	5.49	2.56	0.13	
6	5470206	<0.5	10.30	35	721	0.19	30	5.02	2.77	0.10	
7	5470207	<0.5	9.46	45	602	0.17	39	5.31	1.54	0.19	
8	5470208	<0.5	10.70	69	509	0.14	29	5.41	2.10	0.07	
9	5470209	<0.5	10.80	45	278	0.16	35	7.35	0.93	0.16	
10	5470210	<0.5	9.83	48	292	0.18	30	6.69	1.26	0.32	
11	5470211	<0.5	9.73	71	765	0.37	26	7.42	2.25	0.11	
12	5470212	<0.5	5.56	32	409	2.15	11	5.89	2.25	0.09	
13	5470213	<0.5	11.60	38	579	0.13	37	1.94	2.52	0.15	
14	5470214	<0.5	4.43	9	392	2.70	5	4.45	2.21	0.24	
15	5470215	<0.5	9.48	66	511	1.26	27	4.72	1.87	0.12	
16	5470216	<0.5	7.70	76	554	3.00	18	5.06	1.82	0.36	
17	5470217	<0.5	7.08	25	426	2.88	22	5.11	1.91	0.21	
18	5470218	<0.5	7.58	55	311	2.17	18	4.36	1.29	0.14	
19	5470219	<0.5	4.36	8	283	3.47	13	1.64	1.67	0.04	
20	5470220	<0.5	5.37	11	207	3.79	<5	3.49	1.21	0.10	
21	5470221	<0.5	8.17	29	284	2.53	8	5.56	1.38	0.15	
22	5470222	<0.5	7.77	146	371	1.91	9	11.10	1.42	0.08	
23	5470223	<0.5	10.60	12	874	0.23	47	2.06	1.48	0.09	
24	5470224	<0.5	8.24	38	362	1.67	15	4.46	0.97	0.35	
25	5470225	<0.5	9.97	36	727	0.27	31	4.87	0.90	0.10	

Results in ppm unless otherwise specified  
element not determined

IS = insufficient sample  
SNR = sample not received

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## 313056

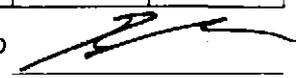
### ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.	REPORT DATE	CLIENT ORDER No.			PAGE			
		104165.60.11531	22/01/96	77197			4 OF 6			
METHOD	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)
		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309
1	10000, 12000N 5468976	137	141	141	14	<10	<3	0.009	-	-
2	4500, 1200N 5468977	199	201	240	11	<10	<3	<0.008	-	-
3	4500, 1200N 5468978	440	239	218	13	<10	4	<0.008	-	-
4	5500, 1200N 5468979	871	672	667	10	<10	4	<0.008	-	-
5	5000, 1200N 5468980	3630	672	648	9	<10	3	<0.008	-	-
6	5468981	547	559	582	9	<10	3	<0.008	-	-
7	5468982	99	493	284	8	<10	3	0.013	-	-
8	5468983	153	471	260	8	<10	<3	0.009	-	-
9	5468984	274	378	320	5	<10	3	<0.008	-	-
10	5468985	290	349	182	11	<10	<3	0.008	-	-
11	5468986	223	348	265	17	<10	4	<0.008	-	-
12	5468987	322	394	196	13	10	3	<0.008	<0.008	-
13	5468988	449	164	438	10	<10	3	<0.008	-	-
14	5468989	416	1160	326	8	<10	3	<0.008	-	-
15	5468990	275	759	248	9	<10	<3	0.010	-	-
16	5468991	1160	239	210	10	10	3	<0.008	-	-
17	5468992	639	176	177	8	<10	3	<0.008	-	-
18	5468993	552	139	147	7	<10	3	<0.008	-	-
19	5468994	190	125	258	20	<10	<3	<0.008	-	<0.008
20	5468995	554	80	65	11	10	3	<0.008	-	-
21	5468996	291	140	160	6	<10	<3	<0.008	-	-
22	5468997	1100	155	120	6	<10	<3	<0.008	<0.008	-
23	5468998	5360	1270	212	7	10	4	<0.008	-	-
	5468999	92	281	151	10	<10	3	<0.008	-	-
	5469000	343	533	131	<3	<10	4	<0.008	-	-

unless otherwise specified  
not determined

IS = insufficient sample  
SNR = sample not received

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### ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

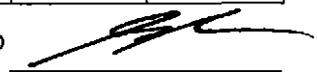
PAGE

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		104165.60.11531				22/01/96		77197		5 OF 6	
METHOD	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)	
		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309	
1	5470201	505	469	262	6	<10	<3	<0.008	-	-	
2	5470202	80	204	179	11	<10	<3	<0.008	-	-	
3	5470203	184	239	157	8	<10	3	<0.008	-	-	
4	5470204	683	163	159	5	<10	3	<0.008	-	-	
5	5470205	233	336	266	10	<10	3	<0.008	-	-	
6	5470206	765	245	287	7	<10	3	<0.008	-	-	
7	5470207	1450	630	265	6	<10	4	<0.008	-	-	
8	5470208	808	332	188	9	<10	3	<0.008	-	-	
9	5470209	651	440	289	5	<10	3	<0.008	-	<0.008	
10	5470210	157	406	384	7	<10	4	<0.008	-	-	
11	5470211	139	199	321	9	10	4	<0.008	-	-	
12	5470212	1280	256	237	8	<10	5	<0.008	<0.008	-	
13	5470213	48	275	395	6	<10	<3	<0.008	-	-	
14	5470214	625	169	136	6	<10	4	0.010	-	-	
15	5470215	236	637	726	10	<10	3	<0.008	-	-	
16	5470216	628	610	855	7	<10	3	<0.008	-	-	
17	5470217	694	365	476	6	<10	4	0.008	-	-	
18	5470218	516	530	517	11	<10	3	<0.008	-	-	
19	5470219	649	65	69	6	<10	3	<0.008	-	-	
20	5470220	996	184	141	6	<10	3	<0.008	-	-	
21	5470221	628	345	406	8	<10	3	<0.008	-	-	
22	5470222	440	400	405	<3	<10	3	<0.008	<0.008	-	
23	5470223	39	802	210	10	<10	<3	<0.008	-	<0.008	
24	5470224	465	325	205	6	<10	<3	<0.008	-	-	
25	5470225	75	330	116	8	<10	3	<0.008	-	-	

Results in ppm unless otherwise specified  
element not determined

IS = insufficient sample  
SNR = sample not received

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### ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.11531

22/01/96

77197

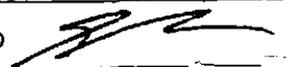
6 OF 6

	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au(R)	Au(S)
METHOD		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309
1	5470226	249	192	128	9	<10	3	<0.008	-	-
2	5470227	254	207	250	6	<10	<3	<0.008	-	-
3	5470228	342	101	91	4	<10	<3	<0.008	-	-
4	5470229	413	370	264	6	<10	4	<0.008	-	-
5	5470230	667	153	96	7	<10	<3	<0.008	-	-
6	5470231	499	184	221	10	<10	4	0.008	-	-
7	5470232	479	389	664	5	<10	3	<0.008	-	-
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	10	10	5	3	10	3	0.008	0.008	0.008
25	UNITS	ppm	ppm	ppm						

Results in ppm unless otherwise specified  
- element not determined

IS = insufficient sample  
SNR = sample not received

AUTHORISED OFFICER





### 313059

Phone (004) 316837

14 Thirkell St. CODEE TAS 7320

Fax (004) 318890

## ANALYTICAL REPORT No.

104165.60.11532

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

INVOICE TO:

CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

77198

DATE RECEIVED

RESULTS REQUIRED

08/01/96

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

4

23/01/96

1

47

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

5470233-279

SD Prep : 6P031

Au, Au(R), Au(S)/66309

Sn, W, Mo/6X401

Ag, Al, As, Ba, Ca, Cu, Fe, K, Mg, Mn, Pb, Zn/6I211

RESULTS TO

Ms S Menpes  
CRA Exploration Pty Ltd  
P O Box 8093  
NORTHLAND CENTRE VIC 3072

RESULTS TO

Mr C Hayward  
CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

RESULTS TO

Exploration Technology & Information Group  
Information Resources  
Private Bag 3 Bundoora VIC  
Victoria 3085

REMARKS

  
AUTHORISED OFFICER

313060

## ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

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23/01/96

77198

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	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
METHOD		GI211								
1	5470233	<0.5	6.17	27	247	1.68	17	3.97	1.42	0.14
2	5470234	<0.5	7.15	65	420	2.64	20	5.03	1.79	0.30
3	5470235	<0.5	4.82	43	408	1.74	9	3.80	2.32	0.11
4	5470236	<0.5	7.93	73	205	1.69	24	8.37	0.59	0.32
5	5470237	<0.5	7.75	80	242	1.59	16	8.19	0.76	0.16
6	5470238	<0.5	4.34	38	99	2.10	14	5.08	0.49	0.07
7	5470239	<0.5	5.22	27	174	0.90	8	4.41	0.83	0.06
8	5470240	<0.5	10.20	38	442	0.51	43	6.37	1.20	0.18
9	5470241	<0.5	9.66	38	323	0.28	35	6.97	0.89	0.17
10	5470242	<0.5	10.80	82	335	0.16	29	9.23	0.48	0.15
11	5470243	<0.5	7.21	36	225	0.78	17	3.85	0.95	0.09
12	5470244	<0.5	7.01	53	195	2.32	21	14.10	0.54	0.16
13	5470245	<0.5	9.72	<5	145	5.13	<5	4.82	0.06	0.21
14	5470246	<0.5	5.09	52	292	3.42	13	6.10	1.61	0.23
15	5470247	<0.5	5.26	21	516	1.61	7	2.15	2.99	0.09
16	5470248	<0.5	8.77	29	546	0.89	21	3.89	1.84	0.15
17	5470249	<0.5	3.40	11	336	2.29	5	1.79	2.58	0.47
18	5470250	<0.5	8.89	56	442	0.66	26	4.62	2.25	0.13
19	5470251	<0.5	6.64	18	352	1.98	17	4.48	1.93	0.29
20	5470252	<0.5	7.16	43	330	1.76	19	4.50	1.76	0.18
21	5470253	<0.5	5.15	29	427	3.24	17	4.13	1.88	0.32
22	5470254	<0.5	4.52	23	564	1.87	19	3.59	2.45	0.11
23	5470255	<0.5	10.70	28	1220	0.60	32	6.10	0.94	0.30
24	5470256	<0.5	8.98	37	498	0.55	24	4.92	1.58	0.17
25	5470257	<0.5	7.62	46	425	1.26	23	5.00	1.87	0.32

Results in ppm unless otherwise specified  
element not determined

IS = insufficient sample  
SNR = sample not received

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## 313061

### ANALYTICAL DATA

SAMPLE PREFIX		REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE					
		104165.60.11532	23/01/96	77198	2 OF 4					
METHOD	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
		GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211	GI211
1	5470258	<0.5	7.78	26	433	1.02	16	4.92	1.65	0.17
2	5470259	<0.5	9.98	36	470	1.23	20	5.69	1.59	0.33
3	5470260	<0.5	6.20	18	432	0.88	15	4.39	1.82	0.19
4	5470261	<0.5	9.46	50	246	1.81	17	5.33	0.85	0.22
5	5470262	<0.5	4.22	23	345	1.10	8	4.09	2.22	0.25
6	5470263	<0.5	3.75	16	426	1.40	6	2.59	2.48	0.37
7	5470264	<0.5	6.32	31	211	3.09	16	5.63	1.12	0.24
8	5470265	<0.5	4.27	26	208	2.49	9	6.89	1.29	0.09
9	5470266	<0.5	2.38	<5	253	0.80	<5	0.68	1.66	0.03
10	5470267	<0.5	9.91	35	389	1.03	18	3.91	1.39	0.18
11	5470268	<0.5	5.00	21	379	1.13	15	3.02	2.38	0.23
12	5470269	<0.5	4.85	52	344	0.94	8	7.67	2.22	0.13
13	5470270	<0.5	4.43	16	356	1.40	7	2.06	2.21	0.07
14	5470271	<0.5	7.82	55	264	1.68	24	7.22	1.25	0.19
15	5470272	<0.5	8.59	26	964	0.14	13	2.05	3.72	0.19
16	5470273	<0.5	6.21	31	479	0.78	11	2.41	2.39	0.15
17	5470274	<0.5	5.22	37	338	0.20	23	8.21	1.73	0.06
18	5470275	<0.5	8.98	18	721	0.14	26	3.47	2.03	0.13
19	5470276	<0.5	8.65	27	478	0.11	38	5.35	0.98	0.11
20	5470277	<0.5	11.00	41	566	0.21	39	7.04	0.43	0.15
21	5470278	<0.5	9.22	44	618	0.37	30	8.55	1.70	0.17
22	5470279	<0.5	9.08	50	392	0.35	22	6.12	1.04	0.21
23										
24	DETECTION	0.5	0.01	5	5	0.05	5	0.01	0.05	0.01
25	UNITS	ppm	%	ppm	ppm	%	ppm	%	%	%

Results in ppm unless otherwise specified  
- element not determined

IS = insufficient sample  
SNR = sample not received

AUTHORISED OFFICER

### ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.11532

23/01/96

77198

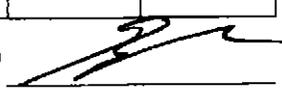
3 OF 4

	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)
METHOD		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309
1	5470233	907	271	385	5	<10	<3	<0.008	-	<0.008
2	5470234	832	216	641	11	<10	3	<0.008	-	-
3	5470235	811	129	242	4	10	5	<0.008	-	-
4	5470236	3280	141	947	11	<10	4	0.008	-	-
5	5470237	2100	223	295	4	<10	<3	<0.008	-	-
6	5470238	511	78	69	8	<10	4	<0.008	-	-
7	5470239	243	55	87	<3	<10	<3	<0.008	-	-
8	5470240	531	50	80	13	<10	<3	<0.008	-	-
9	5470241	491	62	79	13	<10	3	<0.008	-	-
10	5470242	129	197	152	13	<10	4	<0.008	-	-
11	5470243	161	251	195	8	25	<3	<0.008	-	-
12	5470244	608	144	651	29	<10	<3	<0.008	<0.008	-
13	5470245	850	28	230	217	<10	<3	<0.008	-	-
14	5470246	641	120	235	10	<10	3	<0.008	-	-
15	5470247	479	146	115	4	<10	<3	<0.008	-	-
16	5470248	435	292	264	5	<10	3	<0.008	-	-
17	5470249	240	51	40	6	<10	5	<0.008	-	-
18	5470250	1060	344	307	6	<10	<3	<0.008	-	-
19	5470251	565	254	353	6	<10	3	<0.008	-	-
20	5470252	400	283	273	6	<10	3	<0.008	-	-
21	5470253	783	315	201	<3	<10	<3	<0.008	-	-
22	5470254	340	127	146	4	15	3	<0.008	0.009	-
23	5470255	884	495	339	8	<10	3	<0.008	-	-
24	5470256	1370	342	173	5	<10	3	<0.008	-	-
25	5470257	1100	203	105	5	<10	4	<0.008	-	-

Results in ppm unless otherwise specified  
- element not determined

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SNR = sample not received

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## 313063

### ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.11532

23/01/96

77198

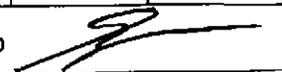
4 OF 4

	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (R)	Au (S)
METHOD		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	GG309
1	5470258	474	211	128	4	<10	5	<0.008	-	<0.008
2	5470259	332	183	160	4	<10	4	<0.008	-	-
3	5470260	354	154	137	8	<10	4	<0.008	-	-
4	5470261	512	524	357	5	<10	3	<0.008	-	-
5	5470262	226	123	78	6	<10	3	<0.008	-	-
6	5470263	388	132	54	10	<10	3	<0.008	-	-
7	5470264	1740	1660	197	4	<10	<3	<0.008	-	-
8	5470265	537	166	125	<3	<10	3	<0.008	-	-
9	5470266	142	37	16	5	<10	4	<0.008	-	-
10	5470267	205	271	320	10	<10	<3	<0.008	-	-
11	5470268	244	149	124	<3	<10	<3	<0.008	-	-
12	5470269	474	321	141	6	<10	3	<0.008	-	-
13	5470270	383	159	117	7	<10	3	<0.008	-	-
14	5470271	712	373	365	5	<10	3	<0.008	-	-
15	5470272	47	197	96	8	<10	3	<0.008	-	-
16	5470273	148	148	141	7	<10	5	<0.008	-	-
17	5470274	4430	522	133	6	<10	<3	<0.008	-	-
18	5470275	130	91	153	9	<10	4	<0.008	-	-
19	5470276	729	73	154	7	<10	3	<0.008	-	-
20	5470277	1680	172	305	7	<10	3	<0.008	-	-
21	5470278	105	211	210	9	<10	3	<0.008	-	-
22	5470279	550	67	90	10	<10	3	<0.008	<0.008	-
23										
24	DETECTION	10	10	5	3	10	3	0.008	0.008	0.008
25	UNITS	ppm	ppm	ppm						

 results in ppm unless otherwise specified  
 element not determined

 IS = insufficient sample  
 SNR = sample not received

AUTHORISED OFFICER





### 313064

Phone (004) 318837

14 Thirkell St. COOEE TAS 7029

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## ANALYTICAL REPORT No.

104165, 50, 11649

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

INVOICE TO:

CPA Exploration Pty Ltd  
 P.O. Box 6093  
 NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

7/308

DATE RECEIVED

RESULTS REQUIRED

20/02/96

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No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

2

05/04/96

1

22

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

0470655/7, 5470646/50

30 Prep : 3P031, 3P033

Ag, Al, As, Ba, Ca, Co, Fe, I, Mo, Mn, Pb,

Sn, W, Zn, Cu

Au, Bi, Cd, Cr

RESULTS TO

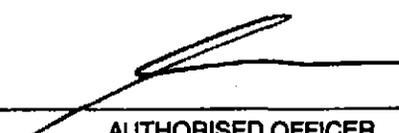
CPA Exploration Pty Ltd  
 P.O. Box 6093  
 Northland Centre VIC 3072

RESULTS TO

CPA Exploration Pty Ltd  
 P.O. Box 6093  
 Northland Centre VIC 3072

RESULTS TO

REMARKS

  
 AUTHORIZED OFFICER

### ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.11649

03/04/96

77315

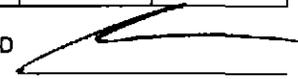
1 OF 2

	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
METHOD		GI211								
1	5470655	<0.5	9.50	25	384	0.05	28	5.31	2.10	0.24
2	5470656	<0.5	9.72	29	474	0.16	24	6.59	2.15	0.16
3	5470657	<0.5	11.70	32	240	0.10	45	10.40	1.24	0.20
4	5470658	<0.5	9.16	30	374	0.06	22	7.64	1.36	0.13
5	5470659	<0.5	8.55	18	278	0.23	17	6.18	1.51	0.17
6	5470660	<0.5	10.70	21	391	0.24	23	5.42	2.09	0.16
7	5470661	<0.5	10.30	27	214	0.17	29	7.25	1.27	0.17
8	5470662	<0.5	9.27	22	429	0.73	19	5.92	2.93	0.36
9	5470663	<0.5	11.80	32	309	0.12	25	6.31	1.60	0.17
10	5470664	<0.5	10.10	39	466	<0.05	27	6.81	2.40	0.21
11	5470665	<0.5	8.02	6	495	<0.05	22	5.07	2.54	0.07
12	5470666	<0.5	9.32	24	764	<0.05	23	6.10	3.67	0.09
13	5470667	<0.5	8.76	33	636	<0.05	22	7.18	1.83	0.40
14	5470668	<0.5	6.26	41	526	0.49	24	9.05	2.63	0.59
15	5470669	<0.5	5.93	27	986	1.16	7	5.36	4.34	0.30
16	5470670	<0.5	8.86	6	>1000	0.23	16	1.95	3.91	0.23
17	5470671	<0.5	7.59	26	702	0.71	19	4.96	3.67	0.76
18	5470846	<0.5	5.77	20	616	7.01	13	3.33	3.68	1.6
19	5470847	<0.5	6.07	17	542	8.89	16	3.18	3.34	1.60
20	5470848	<0.5	5.68	12	427	10.50	11	3.01	3.22	1.56
21	5470849	<0.5	6.63	19	662	7.43	15	3.41	3.75	1.67
22	5470850	<0.5	6.98	18	468	7.69	23	3.57	3.69	1.57
23										
24	DETECTION	0.5	0.01	5	5	0.05	5	0.01	0.05	0.01
25	UNITS	ppm	%	ppm	ppm	%	ppm	%	%	%

Results in ppm unless otherwise specified  
 - element not determined

IS = insufficient sample  
 SNR = sample not received

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313066

**ANALYTICAL DATA**

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.11649

03/04/96

77315

2 OF 2

METHOD	SAMPLE No.	Mn	Pb	Zn	Mo	Sn	W	Au		
		GI211	GI211	GI211	GI211	GX401	GX401	GG326		
1	5470655	254	129	187	<10	11	<10	0.032		
2	5470656	214	124	159	<10	13	<10	0.022		
3	5470657	662	109	122	<10	8	<10	0.018		
4	5470658	393	245	211	<10	7	<10	0.008		
5	5470659	280	51	107	<10	11	<10	0.006		
6	5470660	333	40	136	<10	14	<10	0.006		
7	5470661	424	127	149	<10	11	<10	0.006		
8	5470662	396	211	200	<10	11	<10	0.006		
9	5470663	637	130	142	<10	9	<10	0.004		
10	5470664	233	431	458	<10	11	<10	0.010		
11	5470665	54	336	161	<10	6	10	0.016		
12	5470666	34	152	157	<10	7	15	0.037		
13	5470667	65	272	175	<10	7	<10	0.004		
14	5470668	300	446	356	<10	7	<10	0.004		
15	5470669	339	192	119	<10	6	<10	0.002		
16	5470670	128	166	140	<10	7	<10	0.002		
17	5470671	222	176	158	<10	7	<10	0.002		
18	5470845	563	158	192	<10	7	<10	0.026		
19	5470847	657	87	153	<10	5	<10	0.004		
20	5470848	546	34	88	<10	7	<10	0.011		
21	5470849	380	18	128	<10	5	10	0.008		
22	5470850	461	173	263	<10	6	<10	0.008		
23										
24	DETECTION	10	10	5	10	5	10	0.001		
25	UNITS	ppm								

Results in ppm unless otherwise specified  
element not determined

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Old Park Road Prospect  
Rockchip Sample Ledger

Sample No.	DPO No.	AMG E	AMG N	Local E	Local N	Sample Type	Category	Colour	Minerals	Alteration	Field ID	Comments
5470803	77199	400480	5421050	5570	11100	Rock chip	RKCHIP	LG	PoDs		Sls	Limestone, light grey in colour. Disseminated sulphides and sulphide replacement of fossils. Minor light green mineral.
5470804	77199	400610	5421050	5700	11100	Rock chip	RKCHIP	LG	PoDs		Sls	Light grey limestone with disseminated sulphide (pyrrhotite?) and some fossil replacement.
5470805	77199	400510	5421550	5600	11600	Rock chip	RKCHIP	LG	PoDs		Sls	Light grey limestone. Sulphide disseminated throughout sample (pyrrhotite?). Also sulphide replacement of fossils. Green mineral present
5470806	77199	400560	5421450	5650	11500	Rock chip	RKCHIP	LG	PoDs		Sls	Light grey limestone. Sulphide disseminated throughout sample (pyrrhotite?). Also sulphide replacement of fossils.
5470807	77199	399910	5421350	5000	11400	Rock chip	RKCHIP	LEG	PoDs		Sls	Light blue grey limestone. Minor disseminated sulphide and sulphide replacement of fossils
5470808	77199	400110	5421250	5200	11300	Rock chip	RKCHIP	G	PoDs		Sls	Relatively fresh grey limestone. Minor disseminated sulphide, common fossil replacement
5470846	77315	400410	5420950	5500	11000	Rock chip	RKFLOAT	LG	Ds	SI	Sls	Light grey silicified limestone with disseminated sulphide
5470847	77315	400430	5420950	5520	11000	Rock chip	RKCHIP	LG	Ds		Sls	Light grey fossiliferous limestone with disseminated sulphide and some fossil replacement with sulphide
5470848	77315	400460	5420950	5550	11000	Rock chip	RKFLOAT	LG	Ds	AI	Sls	Light grey limestone with disseminated sulphide. Some alteration
5470849	77315	400610	5420950	5700	11000	Rock chip	RKFLOAT	LG	Ds		Sls	Fossiliferous limestone. Some sulphide replacing fossils
5470850	77315	400710	5420950	5800	11000	Rock chip	RKCHIP	LG	Ds	SI	Sls	Altered (silicified) limestone with disseminated sulphide and sulphide replacing fossils

313067



Phone (004) 316837

14 Thirkell St. COOEE TAS 7320

Fax (004) 318890

## ANALYTICAL REPORT No.

104165.60.11533

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

INVOICE TO:

CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

ORDER No.

PROJECT

77199

DATE RECEIVED

RESULTS REQUIRED

08/01/96

ASAP

No. OF PAGES  
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DATE  
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OF COPIES

TOTAL No.  
OF SAMPLES

2

22/01/96

1

6

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

5470803-808

RD Prep : 6P033

Au, Au(S)/86309

Sn, W, Mo/6X401

Ag, Al, As, Ba, Ca, Cu, Fe, K, Mg, Mn, Pb,  
Zn/6I211

RESULTS  
TO

Ms S Menpes  
CRA Exploration Pty Ltd  
P O Box 8093  
NORTHLAND CENTRE VIC 3072

RESULTS  
TO

Mr C Hayward  
CRA Exploration Pty Limited  
P.O. Box 8093  
NORTHLAND CENTRE VIC 3072

RESULTS  
TO

Exploration Technology & Information  
Group  
Information Resources  
Private Bag 3 Bundoora MDC  
Victoria 3083

REMARKS

  
AUTHORISED OFFICER

### ANALYTICAL DATA

# 313069

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

104165.60.11533

22/01/96

77199

1 OF 2

METHOD	SAMPLE No.	Ag	Al	As	Ba	Ca	Cu	Fe	K	Mg
		GI211								
1	5470803	<0.5	7.40	49	569	9.23	44	3.75	4.02	1.76
2	5470804	<0.5	6.73	12	425	10.60	28	3.44	3.69	1.59
3	5470805	<0.5	6.56	25	555	9.23	23	3.79	3.16	1.74
4	5470806	<0.5	6.80	40	666	7.75	20	3.81	3.82	1.72
5	5470807	<0.5	6.51	17	575	7.91	17	3.36	3.35	1.77
6	5470808	<0.5	6.19	33	571	8.70	28	3.46	3.32	1.64
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.5	0.01	5	5	0.05	5	0.01	0.05	0.01
25	UNITS	ppm	%	ppm	ppm	%	ppm	%	%	%

Results in ppm unless otherwise specified  
 - element not determined

IS = insufficient sample  
 SNR = sample not received

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313070

## ANALYTICAL DATA

SAMPLE PREFIX      REPORT No.      REPORT DATE      CLIENT ORDER No.      PAGE

104165.60.11533      22/01/96      77199      2 OF 2

	SAMPLE No.	Mn	Pb	Zn	Sn	W	Mo	Au	Au (S)	
METHOD		GI211	GI211	GI211	GX401	GX401	GX401	GG309	GG309	
1	5470803	750	96	116	<3	<10	4	0.075	0.074	
2	5470804	639	89	221	8	<10	5	0.361	-	
3	5470805	951	121	476	<3	15	6	0.016	-	
4	5470806	868	146	190	7	15	5	0.014	-	
5	5470807	532	127	77	8	<10	4	<0.008	-	
6	5470808	595	185	164	3	10	4	<0.008	-	
7										
8										
9										
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11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	10	10	5	3	10	3	0.008	0.008	
25	UNITS	ppm	ppm							

units in ppm unless otherwise specified  
element not determined

IS = insufficient sample  
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