



001

## INTRODUCTION

Monier Limited engaged Longworth & McKenzie Pty Limited (LM) to carry out a sampling program in the Savage River area of North-Western Tasmania. The program was undertaken between the 26th and 30th October 1987, inclusive.

The geologist from LM assigned to carry out the sampling program was accompanied by Brian Harrison of Monier on the first day of fieldwork.

## REGIONAL GEOLOGY

An intensive analysis of the geology of the Savage River area is beyond the scope of this sampling program. The regional geology of the area consists of a suite of Ultra-Mafic rocks which are adequately described in the supplied map:-

"Regional Geology of the Mount Youngbuck - Magnet Area (1:25,000)".

## SAMPLING PROGRAM

The aim of the sampling program was to:-

- A) Locate outcrop of dark Ultra-mafic lithologies within the sample area for possible use as polished stone blocks.
- B) Adequately traverse the sample area to observe any mineralisation at the boundaries of lithologies.
- C) Carry out stream sediment sampling at selected sites, in order to trace possible mineralisation to specific lithologies upstream of the sample location.

Three types of sampling techniques were used in the Savage River area. These consisted of 'Stream Sediment sampling', 'Dimension Stone sampling' and 'Chip sampling'.

Stream sediment samples were taken from eleven pre-selected sites throughout the sample area. Two other sediment samples were taken where it was thought to be appropriate. The sample locations\* were numbered from one to thirteen (1-13) and prefixed "S". Stream sediments were sieved on location and 50 to 100 grams of materials passing the 475 micron sieve were retained for analysis.

An examination of the geology of the sample area was undertaken by implementing several traverses enabling an adequate coverage of the area. Four traverses were necessary for this task. The first traverse made use of existing logging tracks which allowed coverage of the Eastern and Northern boundaries; the remaining traverses, A, B and C were completed on foot within the interior of the sample area.

\* Sample locations are marked on the Mount Youngbuck (1:25,000) sheet attached.

Dimension Stone samples and Chip samples were taken from the various lithologies within, and surrounding, the area. Most interest was directed towards the darker ultra-mafic rocks for possible testing of strength and polishing properties. Chip samples were taken to identify the lithology at a particular location, or to observe any variation in mineralogy within the lithology.

### FIELD TRAVERSES

Logging Track traverse:- Lithologies were consistent with those indicated on the Mount Youngbuck geological map. Dimension Stone samples were collected of the following lithologies: Tertiary Basalt, Cambrian serpentinised Dunite, Cambrian Tonalite, Cambrian Tholeiitic Basalt, serpentinised Cambrian Pyroxenite and Cambrian Gabbro.

Traverse (A):- This traverse produced a coverage of the Central and Central North portions of the sample area. Rock outcrop was minimal due to the swampy nature of the area. Outcrops observed throughout the traverse were consistent; being moderately weathered serpentinised Pyroxenite showing prominent pale green to white weathered feldspars (15%). Samples A1 to A6 were collected (see map for location).

Traverse (B):- This traverse produced a coverage of the South and South East portions of the sample area. The major lithology was serpentinised Pyroxenite with minor Peridotite. Samples numbered B1 to B5 were collected. The Pyroxenite appeared fresh in the vicinity of B1 and B2, and was associated with abundant veins of light green silicic material which may contain ore minerals. In the area of B4 and B5 the Pyroxenite resembled that of Traverse 'A'.

Traverses (C):- This traverse produced a coverage of the boundary between the Cambrian Dunite and the Cambrian serpentinised Pyroxenite which may be associated with Talc deposits. Talc was not located along this contact due to poor outcrop. Samples taken were labelled C1 to C3. Pegmatite was located in the vicinity of C1 which consisted of large Pyroxene and Feldspar crystals. Kaolinite was found to be a joint infilling material within this rock type. Peridotite and serpentinised Dunite were found to outcrop in the vicinity of C2 and C3 respectively (see map for sample locations).

### RESULTS - DIMENSION STONE

Of the several lithologies collected (see section above) a visual examination of cut faces indicated general unsuitability for use as dimension stone, except possibly for the Tertiary Basalt.

The reason for the unsuitability was generally a tendency for grains to 'pluck' during cutting and the presence of numerous, closely spaced clayey seams.

In order to further evaluate the Tertiary Basalt, a cut sample was provided to Monier for polishing in their South Australian facilities. Results of this are not yet available.

One sample collected (L5/85) was unable to be identified in hand specimen, and was therefore submitted for Petrology and XRD (see Appendix 1). It was found that this sample consisted of altered pyroxene/amphibole-garnet. It is unlikely that the rock contains a high enough proportion to garnet to be attractive as a source of abrasive.

**RESULTS - ANALYTICAL**

The 13 stream sediment samples were submitted to Fox laboratories for NAA scan (See Appendix 2).

Examination of results shows no significant correlations between element concentrations for individual samples, and the only meaning which can be deduced from the values is that they are typical of background values for samples sourced from mafic or ultra-mafic terrain.

Low values for Cu, Pb, Zn and Ag are not particularly encouraging.

**CONCLUSIONS**

- (i) No evidence of mineralisation.
- (ii) No suitable dimension stone, except possibly Tertiary Basalt.

004

88-2770

819005

354000E

07

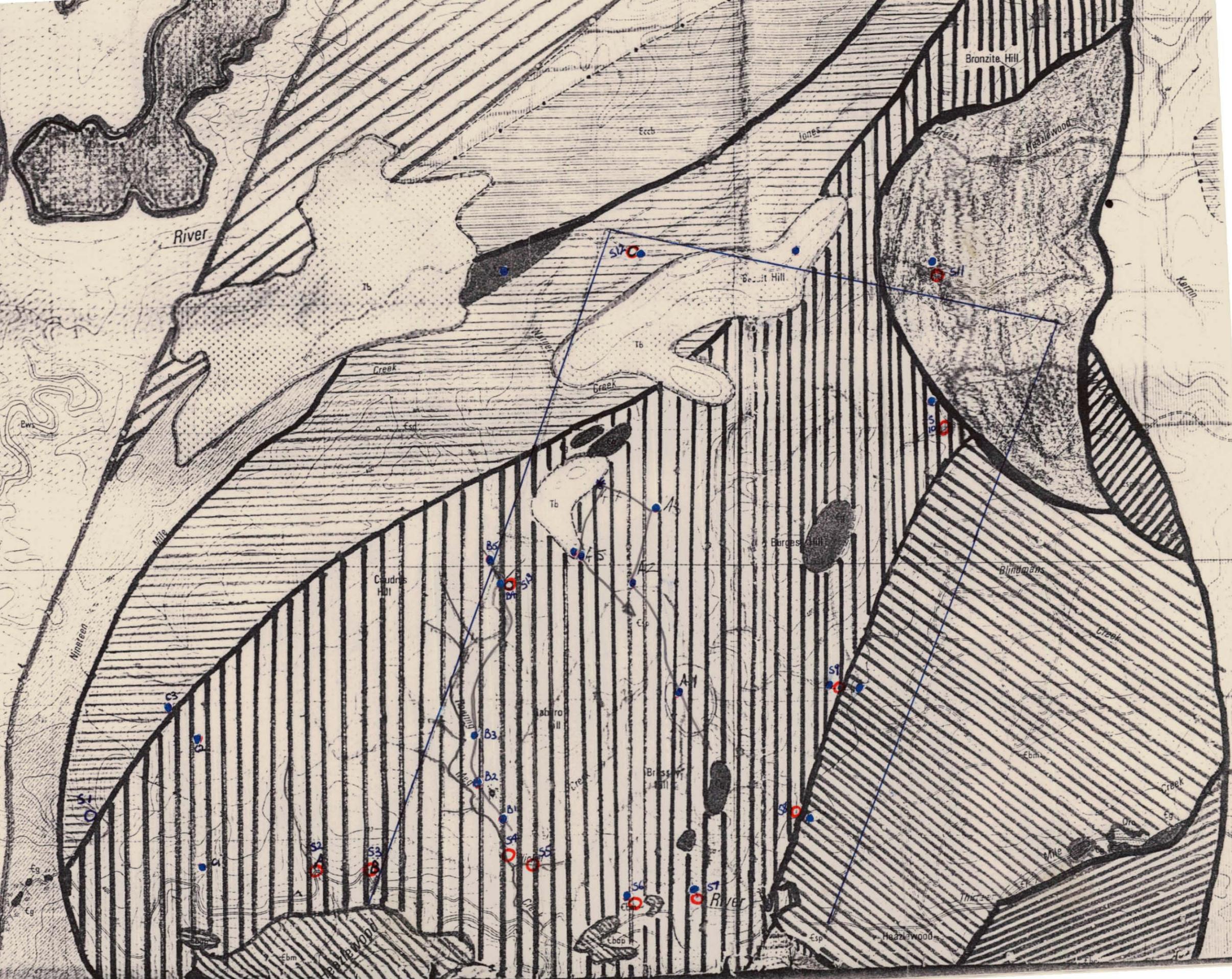
08

09

10

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12



364000E

005

**APPENDIX 1**

**Petrological and X-Ray Diffraction  
Analysis of one Rock Sample**

**LM**

Sample No. L5/85

Rock Type Partly altered pyroxene-amphibole-garnet rock.

Hand Specimen A massive fine grained heavy pale green to pale pink stained almost translucent sample, enclosing large irregular shaped patches (up to about 4 cm across), of dark green-grey material. K-feldspar staining proved negative and the rock is not magnetic.

Thin Section This rock has a most unusual texture and a rather simple mineralogy. The dense pale green material of the hand specimen consists of almost monomineralic isotropic garnet in which are set stout subhedral prismatic to somewhat rounded and equant crystals of pyroxene with a wispy oriented intergrowth. Individual crystals range in size up to 5 mm across, but most are within the size range 0.8 mm up to 2 mm. Such aggregates account for about 20% of the total thin section area. Primary accessory phases include rare minute opaque oxide grains enclosed within the pyroxene crystals. Also present are subordinate similar sized crystals of clouded amphibole.

Partial low grade alteration has affected this rock, and the equant to stout prismatic pyroxene crystals show wispy fibrous alteration to very pale green actinolitic amphibole particularly along grain boundaries and in certain patches. Also present are patches of pale green chlorite and pale brown clouded clay (?montmorillonite). Approximately 10% of the garnet has been converted to patches of a fine grained birefringent ragged phase (possibly a birefringent ?layer silicate) with a moderate negative optic axial angle. Subordinate patches of chlorite alter the garnet.

This sample most likely is of contact metamorphic origin, but it is possible that certain of the coarse equant pyroxene and clouded amphibole crystals may be relict phases. The sample may be described in terms of its present assemblage as a partly altered pyroxene- amphibole- garnet rock.

NOTE: An X-ray diffraction analysis was required to confirm the identity of the unusual pale green isotropic phase as massive garnet (grossular), and to confirm the presence of a pyroxene. Some idea of the geological setting of the sample should help in a more accurate identification. Wolframite is not present.

007

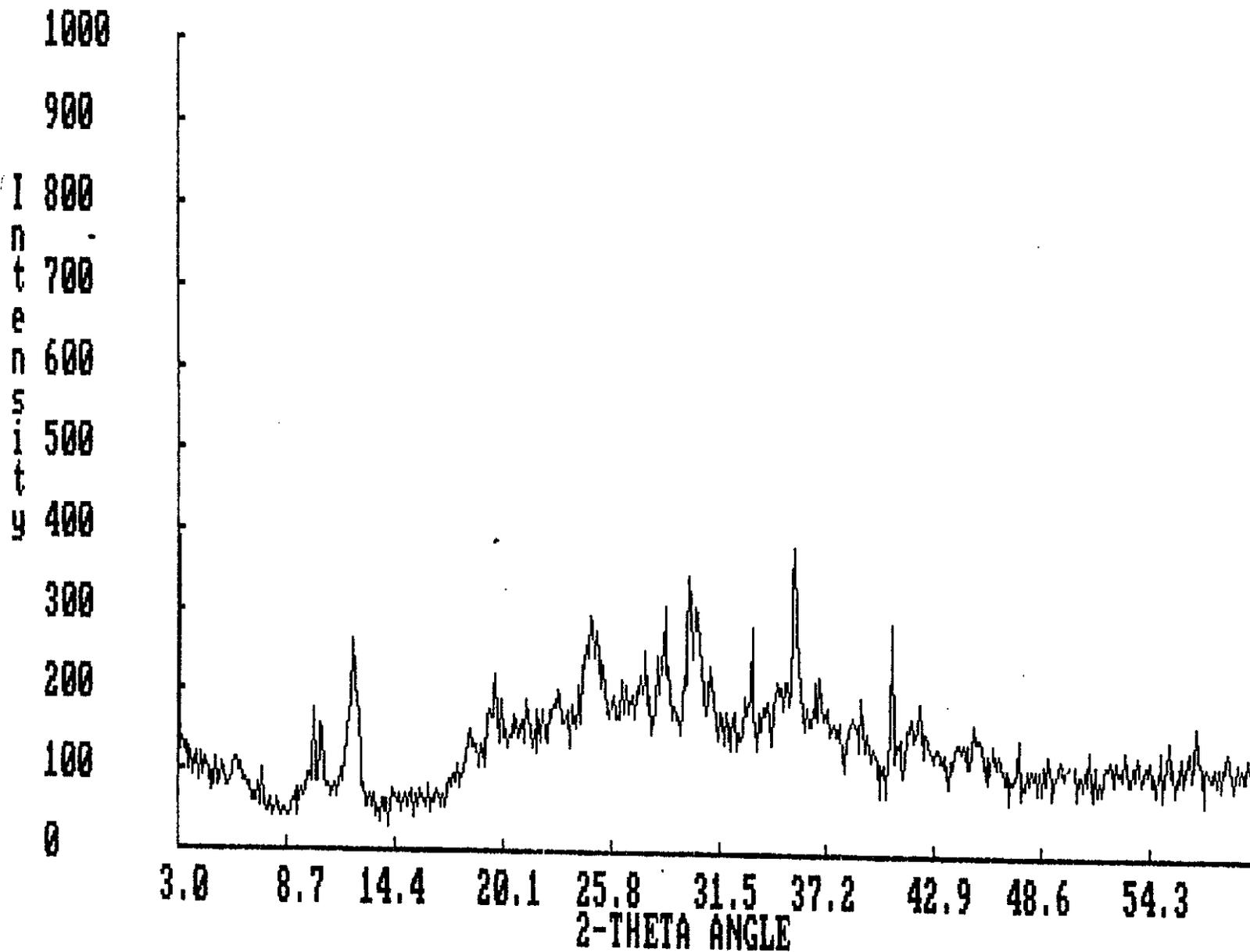
The light and dark phases in the sample were examined separately by X-ray diffraction analysis. The X-ray diffraction analysis showed the presence of:

- i) grossular in the light part and
- ii) a mixture of amphibole clinocllore and pyroxene in the dark part.

The relevant X-ray diffraction charts are included.

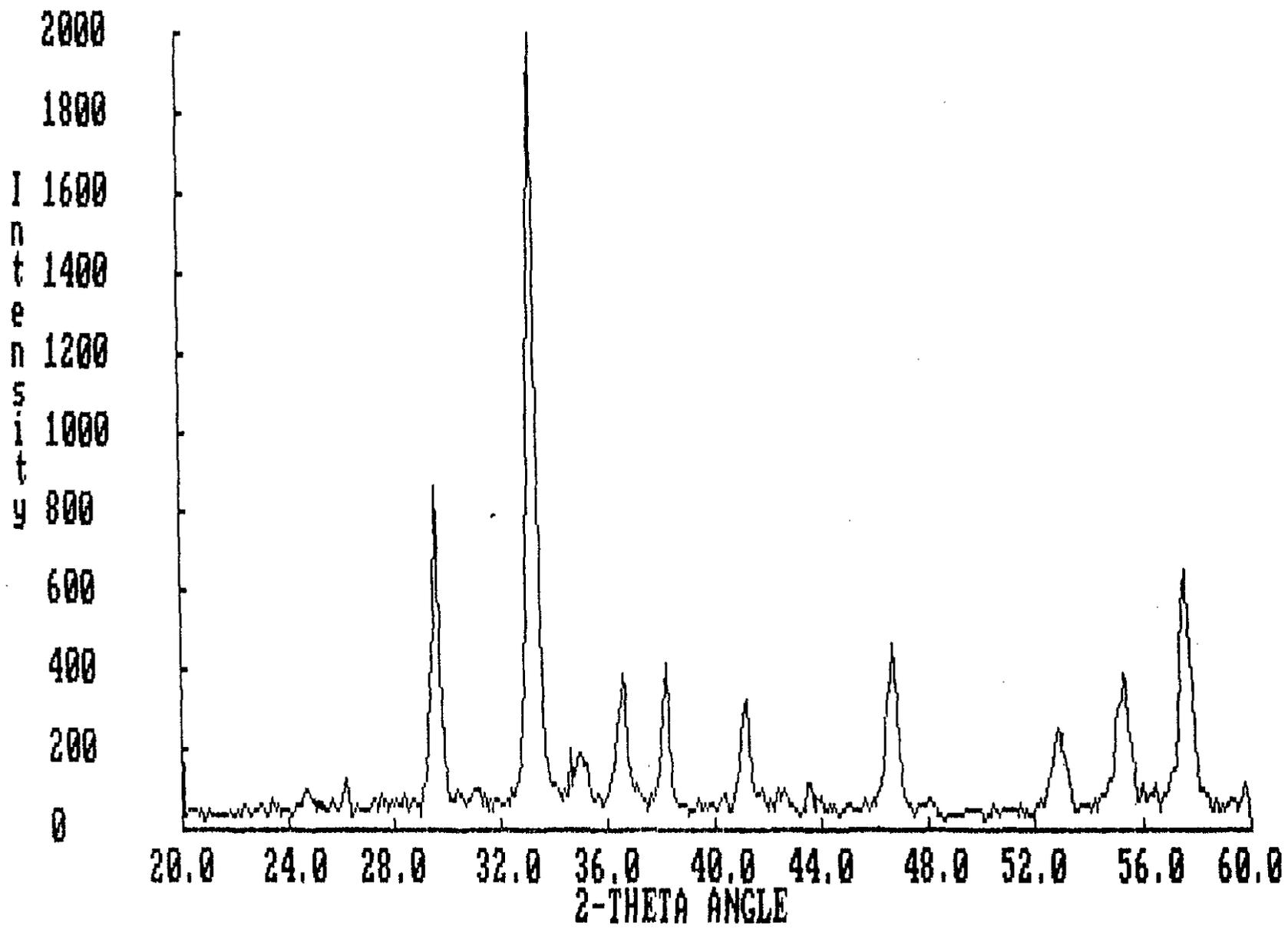
819009

Counts File:BDARK2.CPI



008

009



819010

Input Pattern:

BARLIGHT

d	I	d	I	d	I	d	I	d	I
3.3760	41	2.5356	8	2.3267	15	1.7128	10	1.5876	25
2.9689	31	2.5219	17	2.1709	12	1.6894	100		
2.6519	78	2.4233	15	1.9295	18	1.6475	15		

Identified Phases:

CPDS#	SI	ML/X	At%	Identity . . .
26-0292I	108	8/1	82	*Calcium Aluminum Silicate / Grossular = Ca3Al2(SiO4)3
	Ierr:50,150		derr:2.0	Bground:8 dmax/min:3.398/1.582

Summary Report:

Full	Resid	26-0292:	82%
d	I	d	I
3.3760	41	41	
2.9689	31	None	2.959 20
2.6519	78	None	2.647 82
2.5356	8	8	
2.5219	17	8	2.524 9
2.4233	15	None	2.417 16
2.3267	15	None	2.321 15
2.1709	12	None	2.162 14
1.9295	18	18	
			(1.921 20)
1.7128	10	None	1.710 14
1.6894	100	None	
1.6475	15	None	1.643 20
1.5876	25	25	

\* = Obscured    (..) = Missing    [..] = Previously Removed

Input Patterns:

BARRONS LIGHT WITH Q ADDED

d	I	d	I	d	I	d	I	d	I
4.2504	18	2.6519	64	2.3325	11	1.9295	14	1.6475	12
3.3388	100	2.5356	8	2.2759	9	1.8174	13	1.5901	18
3.2550	23	2.4488	16	2.2326	5	1.8106	7	1.5728	5
2.9689	27	2.4233	11	2.1660	11	1.7187	8	1.5442	5
2.8313	5	2.3983	5	2.1270	8	1.6585	7		

Identified Phases:

JCPDS#	SI	ML/X	At%	Identity . . .
33-1161*	147	9/0	116	*Silicon Oxide / Quartz, low = SiO2 derr:2.0 Bground:5 dmax/min:4.286/1.539
33-0260C	56	7/2	46	Calcium Aluminum Silicate / Grossular, syn = Ca3Al2Si3O12 derr:2.0 Bground:5 dmax/min:4.286/1.539
25-0177I	5	2/3	25	*Calcium Titanium Silicate / Titanite, syn = CaTiSiO5 derr:2.0 Bground:5 dmax/min:4.286/1.539
9-0240D	42	7/*	9	*Calcium Magnesium Silicate / Monticellite, syn = CaMgSiO4 derr:2.0 Bground:5 dmax/min:4.286/1.539

Summary Report:

d	I	Full	Resid	33-1161:116%	33-0260: 46%	25-0177: 25%	19-0240: 9%
d	I		I	d	I	d	I
4.2504	18		None	4.257	25		(4.18 7) (3.84 6) (3.62 9)
3.3388	100		None	3.342	116		
3.2550	23		None			3.24 25 (2.996 7)	(3.18 6)
2.9689	27		None		2.961 26		(2.929 7)
2.8313	5		3			2.843 2	
2.6519	64		None		2.649 46		2.658 9 (2.612 7) (2.593 7)
2.5356	8		None		2.526 2		2.534 6
2.4488	16		None	2.457 9			
2.4233	11		None		2.416 17		
2.3983	5		None				2.391 7 (2.346 5)
2.3325	11		None		2.323 9		
2.2759	9		None	2.282 9		[2.286 2]	
2.2326	5		None	2.237 5		[2.230 1]	
2.1660	11		None		2.163 11		(2.204 5)
2.1270	8		None	2.127 7			
1.9295	14		14				

1.8174	13	None	1.8179	16	<1.9217	16>			
1.8f06	7	None						1.811	9
								<1.744	5>
1.7187	8	None						1.716	6
								<1.697	5>
								<1.680	5>
1.6585	7	5	1.6591	2					
1.6475	12	None			1.6427	10	[1.647	2]	
1.5901	18	None						1.593	6
" "	"	"						1.587	6
					<1.5830	26>			
1.5728	5	5							
1.5442	5	None	1.5418	10					

\* = Obscured    (..) = Missing    [..] = Previously Removed

012

013

μPDSM Report

15:05, 11/23/87

## Input Pattern:

## BARRONS DARK

d	I	d	I	d	I	d	I	d	I
14.489	8	4.8218	10	3.5901	20	2.8848	16	2.2982	13
8.6723	12	4.5755	12	3.3760	14	2.6906	19	2.2116	20
8.3459	10	4.4839	15	3.2319	15	2.5150	26	2.1512	10
7.1960	18	4.1522	12	3.1105	21	2.4359	11	2.0103	11
5.0109	6	3.8668	13	2.9786	24	2.3267	11		

## Identified Phases:

JCPDS#	SI	ML/X	At%	Identity . . .
25-01571	5	7/*	55	*Calcium Iron Magnesium Silicate Hydroxide / Actinolite = Ca <sub>2</sub> (Mg,Fe) <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub> Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002
17-0750D	96	11/3	186	Sodium Calcium Magnesium Iron Aluminum Silicate Hydroxide / Richterite, ferrian = (Na,Ca) <sub>3</sub> (Mg,Fe,Mn) <sub>5</sub> (Si,Al) <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub> Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002
16-0351D	77	6/2	72	Magnesium Aluminum Iron Silicate Hydroxide / Clinoclione-Ib, ferroan = (Mg <sub>3.13</sub> Fe <sub>2</sub> Al <sub>0.87</sub> )Si <sub>3.3</sub> Al <sub>0.7</sub> O <sub>10</sub> (OH) <sub>8</sub> Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002
25-01541	40	2/0	47	Calcium Magnesium Aluminum Silicate / Diopside, aluminian. syn = Ca(Mg,Al)(Si,Al) <sub>2</sub> O <sub>6</sub> Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002
29-07131	11	2/1	64	*Iron Oxide Hydroxide / Goethite = FeO(OH) Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002
29-0372	3	2/5	45	*Calcium Silicate / Wollastonite-Itr = CaSiO <sub>3</sub> Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002
23-0495	32	2/0	40	Potassium Sodium Iron Magnesium Aluminum Silicate Fluoride Hydroxide / Magnesian-arfvedsonite = (Na,K) <sub>3</sub> (Fe,Mg,Al) <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (F,OH) <sub>2</sub> Ierr:50,150 derr:2.0 Bground:6 dmax/min:14.92/2.002

## Summary Report (Part 1 of 2):

Full	Resid	25-0157: 55%	17-0750: 186%	16-0351: 72%	25-0154: 47%
d	I	d	I	d	I
14.489	8	None		14.40	11
		(9.12	9)		
8.6723	12	12			
8.3459	10	None	8.47	10	[8.36 12]
7.1960	18	None		7.15	19
5.0109	6	None		5.03	1*
		(4.91	10)		
4.8218	10	None	4.78	1*	4.85 4* 4.79 7
					(4.63 7)
4.5755	12	None	4.54	9	
4.4839	15	None	4.46	1*	4.45 17

4.1522	12	None							
3.8668	12	None	3.892	9	3.64	3			
3.5901	20	7					3.59	13	
			(3.401	11)					
3.3760	14	None			3.38	19			
			(3.290	7)					
3.2319	15	None			3.24	9			3.23 4
			(3.143	10)					
3.1105	21	None			3.11	14			
2.9786	24	None			2.975	14			2.984 12
			(2.959	10)					
2.8848	16	None			2.893	9	2.87	5	[2.887 5]
			(2.719	14)	(2.790	9)			
2.6906	19	None			2.704	48	[2.68	7]	[2.685 0]
			(2.644	9)	(2.570	9)			
			(2.543	14)					
2.5150	26	None	2.505	1*	2.520	24			[2.505 4]
					(2.463	7)	(2.475	11)	
2.4359	11	6							
			(2.344	7)					
2.3267	11	None	2.330	4					
2.2982	13	None	2.308	6			[2.290	2]	[2.291 2]
" "	"	"	2.288	7					
2.2116	20	7	2.220	7*					2.214 1+
			(2.171	7)					
2.1512	10	None	2.159	3*	2.155	10			[2.143 1]
			(2.051	9)					
			(2.022	9)					
2.0103	11	None	2.008	4	2.013	4	2.010	2	[2.015 1]

\* = Obscured (..) = Missing [..] = Previously Removed

Summary Report (Part 2 of 2):

	Full	Resid	29-0713: 64%		29-0372: 45%		23-0495: 40%	
d	I	I	d	I	c	I	c	I
14.489	8	None						
8.6723	12	12						
8.3459	10	None					[8.38	8]
7.1960	18	None						
5.0109	6	None	4.98	2			5.03	1
4.8218	10	None						
4.5755	12	None						
4.4839	15	None			[4.48	2]	[4.45	3]
4.1522	12	None	4.183	17				
3.8668	13	None			[3.838	7]		
3.5901	20	7			(3.510	8)		
3.3760	14	None	[3.383	2]			[3.36	3]
					(3.312	9)		
3.2319	15	None			[3.228	5]	[3.24	4]
3.1105	21	None					3.11	10
					(3.080	8)		
2.9786	24	None			[2.976	12]		
2.8848	16	None			[2.893	2]		
2.6906	19	None	[2.693	6]			[2.694	4]
2.5150	26	None	[2.527	1]	[2.522	5]	[2.525	1]
			(2.450	8)	(2.470	7)		
2.4359	11	6			2.445	5*		

2.3267	11	None		2.330	6		
2.2982	13	None	[2.303	0]	[2.295	7]	[2.306 1]
2.2116	20	7		2.209	5		
				(2.179	8)		
2.1512	10	None				[2.150	1]
2.0103	11	None	[2.011	0]	[2.017	6]	[2.010 0]

\* = Obscured      (..) = Missing      [..] = Previously Removed

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**APPENDIX 2**  
**Analytical Results**



# FOX Laboratories

15 WHITING ST., ARTARMON, N.S.W., 2064

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## REPORT OF ANALYSIS

(ALL RESULTS IN PPM UNLESS OTHERWISE STATED)



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LONGWORTH & MCKENZIE P/L  
PO BOX 785 NORTH SYDNEY 2060

ORDER 11768 JOB 8711011

819015

SAMPLE NO:	Lu	Mn	Rb	Sm	Sc	Se	Ag	Ta	Th	W	V	Yb	Zn	Pt
12269	.50	-16.000	33.00	-.200	34.600	-5.00	-5.00	-.50	-.500	-5.0	-4.40	-.50	450.00	BLD
70	-.50	-11.000	-20.00	-.200	25.500	-5.00	-9.10	-.59	-.500	-5.0	-2.00	-.50	220.00	BLD
71	-.50	-5.000	-20.00	-.200	3.900	-5.00	-5.00	-1.20	-.500	-5.0	-2.00	-.50	170.00	BLD
72	-.50	-12.000	31.00	.320	35.000	-5.00	-5.00	-.50	.890	-5.0	-2.00	-.50	250.00	BLD
73	1.90	-40.000	38.00	-.200	20.100	-19.00	-12.00	-1.30	-1.600	-10.0	-11.00	-.50	750.00	BLD
74	.56	-24.000	45.00	.390	36.500	-12.00	-13.00	-1.00	-1.000	-5.0	-7.10	1.20	440.00	BLD
75	-.50	-12.000	-20.00	-.200	29.300	-5.00	-5.00	-.50	-.500	-5.0	-2.00	-.50	240.00	BLD
76	-.50	-16.000	-20.00	-.200	25.400	-5.00	-5.00	-.50	-.500	-5.0	-4.00	-.50	190.00	BLD
77	-.50	-16.000	-20.00	.370	36.100	-5.00	-11.00	-.50	-.500	-5.0	-5.00	.79	320.00	BLD
78	.56	-15.000	-20.00	-.200	38.700	-5.00	-5.00	-.50	-.500	-5.0	-4.10	.74	420.00	BLD
79	-.50	-12.000	29.00	2.000	8.200	-5.00	-5.00	.57	3.300	-5.0	-2.00	1.20	120.00	0.03
80	-.50	-21.000	47.00	.380	37.400	-11.00	-12.00	-1.00	-.500	-5.0	-6.20	.59	340.00	BLD
81	-.50	-22.000	-20.00	-.200	23.600	-11.00	-11.00	-.50	-.500	-5.0	-6.20	-.50	270.00	BLD

### DETECTION

LIMIT	0.5	5	20	0.2	0.1	5.....	0.5 .....	5	2	0.5	100	0.1	
METHOD	NAA SCAN.....												FA

NOTE: NAA SCAN. DETECTION LIMIT NOT REACHED DUE TO HIGH Cr, Fe IN SAMPLES

SIGNATORY..... *Gwen Jewell* .....8711011/3



# FOX Laboratories

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018

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## REPORT OF ANALYSIS

(ALL RESULTS IN PPM UNLESS OTHERWISE STATED)

4111245



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ORDER 11768 JOB 8711011

819019

SAMPLE	Ag	As	Bi	Cd	Co	Cr*	Cu	%Fe	Mn	Mo	Ni	Pb	Sb	Sn*	U	V	W	Zn	
12269	0.52	BLD	BLD	1.10	156	3970	8	9.22	3176	BLD	589	PLD	BLD	BLD	33	36	BLD	53	
70	0.52	BLD	6	BLD	95	4500	BLD	6.79	1491	BLD	707	BLD	BLD	BLD	37	46	BLD	49	
71	0.71	19	BLD	BLD	152	167	BLD	6.20	1207	BLD	2520	BLD	BLD	BLD	24	2	BLD	14	
72	BLD	BLD	BLD	0.50	93	1223	50	7.18	1956	BLD	504	BLD	BLD	10	28	50	BLD	47	
73	0.58	BLD	BLD	1.00	167	5430	BLD	8.93	1824	BLD	1202	BLD	BLD	BLD	50	22	BLD	90	
74	0.15	30	BLD	0.60	87	4270	20	7.13	1769	BLD	583	BLD	BLD	BLD	31	51	BLD	101	
75	0.31	BLD	7	BLD	100	3420	BLD	7.87	1677	BLD	642	BLD	BLD	BLD	27	22	BLD	56	
76	0.46	63	BLD	0.90	108	5840	BLD	7.54	2009	BLD	716	BLD	BLD	BLD	30	20	BLD	62	
77	0.15	BLD	BLD	BLD	73	2860	BLD	6.45	1645	BLD	589	BLD	BLD	BLD	37	58	BLD	40	
78	0.45	BLD	BLD	0.80	105	3620	10	7.47	2321	BLD	692	5	BLD	BLD	31	56	BLD	85	
79	BLD	BLD	BLD	BLD	15	567	BLD	2.01	278	BLD	73	BLD	BLD	BLD	BLD	18	BLD	9	
80	0.11	BLD	5	BLD	137	4280	12	8.38	1594	BLD	1365	BLD	BLD	BLD	34	48	BLD	61	
81	0.11	BLD	BLD	0.60	123	3680	BLD	7.73	1650	BLD	822	BLD	BLD	BLD	33	16	BLD	58	
DET. LIMIT	0.10	5	5	0.5	1	2	5	0.01%	2	1	2	5	5	5	20	2	4	5	
METHOD	GP-3 .....																		

\* ACID SOLUBLE ONLY

SIGNATORY ..... *Gwen Farrell* ..... 8711011/1

NOTE: LARGE AMOUNTS OF UNDISSOLVED SAMPLE REMAINING AFTER GP-3 DIGEST

## REPORT OF ANALYSIS

(ALL RESULTS IN PPM UNLESS OTHERWISE STATED)



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LONGWORTH & MCKENZIE P/L  
 PO BOX 785 NORTH SYDNEY 2060

ORDER 1176B JOB 8711011

819020

SAMPLE NO:	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	%Fe	La
12269	-200	3.30	-100.0	18.0	7.10	-1.00	55000.0	284.00	-5.50	-5.00	-1.000	-20.00	14.900	1.00
70	-200	-2.00	-100.0	5.20	-2.00	-1.00	12700.0	133.00	-5.50	-5.00	-1.000	-20.00	8.820	-5.50
71	-200	-2.00	-100.0	7.30	3.30	-1.00	5540.0	194.00	-5.50	-5.00	-1.000	-20.00	7.150	.55
72	-200	-2.00	300.0	13.00	-2.00	-1.00	12800.0	133.00	-5.50	-5.00	-1.000	-20.00	9.200	1.60
73	.490	-4.70	-260.0	16.00	-12.00	-1.00	147000.	457.00	-5.50	-18.00	-1.000	-42.00	19.300	1.40
74	-520	-4.00	-220.0	16.00	-7.50	2.50	46100.0	198.00	-5.50	-13.00	-1.000	-20.00	12.100	1.10
75	-200	-2.00	-100.0	4.30	-2.00	-1.00	3100.0	141.00	-5.50	-5.00	-1.000	-20.00	10.000	-5.50
76	1.200	-2.00	-100.0	5.20	-4.90	-1.00	26600.0	171.00	-5.50	-5.00	-1.000	-20.00	10.600	-5.50
77	-200	-2.00	-100.0	16.00	-4.80	-1.00	25400.0	134.00	-5.50	-10.00	-1.000	-20.00	9.030	.86
78	.840	-2.00	-100.0	17.00	5.20	3.30	49300.0	210.00	-5.50	-5.00	-1.000	-20.00	12.200	.84
79	-200	-2.00	-100.0	6.70	23.00	1.60	17700.0	43.00	-5.50	-5.00	6.700	-20.00	3.300	12.00
80	-410	-2.00	-210.0	25.00	13.00	1.70	37500.0	234.00	-5.50	-12.00	-1.000	-20.00	12.500	1.90
81	.370	-2.00	-100.0	13.00	-6.40	-1.00	41400.0	219.00	-5.50	-11.00	-1.000	-20.00	12.000	-5.50
DETECTION LIMIT	0.2	2	100	2	2	1	5	0.5	0.5	10ppb	1	20ppb	0.05%	0.5
METHOD	NAA SCAN.....													

SIGNATORY..... *Gwen Farrell* .....8711011/2



# FOX Laboratories

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## REPORT OF ANALYSIS

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LONGWORTH AND MCKENZIE PTY LIMITED  
P.O BOX 785  
NORTH SYDNEY N.S.W 2060

DATE REPORTED: 16/12/87  
JOB NO: 8712023

819021

SAMPLE NO:	Ni
12269	1266
70	777
71	2610
72	1223
73	1565
74	591
75	581
76	2750
77	1311
78	723
79	135
80	1282
81	575

DETECTION LIMIT 2  
METHOD GP-2

Arrived 18/12/87

*Insol. Residues*

SIGNATORY..... *Owen Farrell* .....8712023/1