



CCI/4090/84

ANALYSIS & TESTING  
OF:-

MT LLOYD COAL



October 1984



This Laboratory is registered by the National Association of Testing Authorities Australia. The test(s) herein have been performed in accordance with its terms of registration and in accordance with the following standards:-

Methods for the sampling of Hard Coal	AS1676 (1975)
Methods for Float & Sink Testing of Hard Coal and Presentation of Results	AS1661 (1979)
Size Analysis of Coal	BS1016-17 (1979) IS01953 (1972)
Free Moisture of Coal & Total Moisture of Hard Coal	AS1038-21 (1983)
Apparent Relative Density (Coal)	AS1038-21 (1983)
Determination of the Relative Density of Hard Coal	AS1038-21 (1983)
Moisture in the Analysis Sample	AS1038-3 (1979)
Determination of Ash	AS1038-3 (1979)
Determination of Volatile Matter	AS1038-3 (1979)
Gross Specific Energy of Coal	AS1038-5 (1979)
Carbon & Hydrogen	AS1038-6 (1971)
Nitrogen	AS1038-6 (1971)
Carbon Dioxide	AS1038-6 (1971)
Total Sulphur	AS1038-6 (1971)
Total Sulphur in Coal (Leco High Temperature)	C.C.I. DIA Sept. 1981
Chlorine in Coal	AS1038-8 (1980)
Forms of Sulphur	AS1038-11 (1982)
Fusibility of Coal & Coke Ash	AS1038-15 (1972)
Analysis of Coal Ash (Bomb Digestion-Flame Atomic absorption Spectrometric Method)	AS1038-14.1 (1981)
Phosphorus in Coal (Bomb Digestion)	AS1038-9 (1977)
Method for Determining the Hardgrove Grindability Index of Hard Coal	AS1038-20 (1981)
Crucible Swelling Number	AS1038-12.1 (1979)
Gray King Coke Type	AS1038-12.2 (1980)
A.A. Dilatometer	IS0349 (1975)
Gieseler Plastometer	AS2137 (1981)

ORIGIN: Department of Mines, Tasmania JOB NO. 4090  
 DESCRIPTION: Mount Lloyd Coal DATE REC'D 24/09/84  
 DATE TESTED 5/10/84  
 REPORTED TO: Ms. C. Bacon C.C. \_\_\_\_\_

**ANALYSIS REPORT**

Sample No. 1 (Top Seam) 3 (Bottom Seam)

Sample No. 4090/3251 4090/3253

Relative Density			
Total Moisture (as) %			
Moisture (ad) %		2.0	1.7
<b>ANALYSIS BASIS</b>		ad	ad
Ash %		9.3	31.4
Volatile Matter %		20.1	17.6
Fixed Carbon %		68.6	49.3
Total Sulphur %		0.38	
Chlorine %			
Phosphorus %			
Specific Energy			
Carbon %			
Hydrogen %			
Nitrogen %			
Carbon Dioxide %			
<b>DRY, ASH-FREE BASIS</b>			
Volatile Matter %		22.7	26.3
Specific Energy			
Carbon %			
Hydrogen %			
Nitrogen %			
Sulphur %			
Oxygen (diff) %			
Crucible Swelling Number			
Gray-King Coke Type			
Hardgrove Grindability Index			
<b>ASH FUSION TEMPERATURES (reducing atmosphere)</b>			
Deformation °C			
Spherical °C			
Hemisphere °C			
Flow °C			



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REPORTED BY *Appleby*

DATE \_\_\_\_\_

Analyses carried out in accordance with AS1038 Parts 1-16  
 and ASK164 and where not available BS1016 Parts 1-16,  
 unless otherwise stated.

ORIGIN: Department of Mines, Tasmania      JOB NO. 4090  
 DESCRIPTION: Mount Lloyd Coal      DATE REC'D 24/09/84  
 REPORTED TO: Ms. C. Bacon      C.C. \_\_\_\_\_

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 MACERAL REPORT
 

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Seam No.	1 (Top Seam)	
Sample No.	4090/3251	
<b>Vitrinite</b>		11
A	3.6	
B	6.8	
<b>Exinite</b>		1
Sporinite	1.0	
Cutinite	0.4	
Resinite	-	
<b>Inertinite</b>		82
Micrinite	1.2	
Macrinite	1.4	
Semi-Fusinite	58.8	
Fusinite	4.8	
Inertodetrinite	15.8	
<b>Minerals</b>		6
(n)Macerals	500	

Analysed by C. F. K. Diessel  
 Reported by *[Signature]*  
 Date 31/10/84



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ORIGIN: Department of Mines, Tasmania JOB NO. 4090  
DESCRIPTION: Mount Llyod Coal DATE REC'D 24/09/84  
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MACERAL REPORT

Seam No.	3 (Bottom Seam)	
Sample No.	4090/3253	
Vitrinite		18
A	8.8	
B	8.8	
Exinite		2
Sporinite	0.8	
Cutinite	0.6	
Resinite	0.4	
Inertinite		59
Micrinite	0.8	
Macrinite	2.4	
Semi-Fusinite	32.2	
Fusinite	4.2	
Inertodetrinite	19.4	
Minerals		21
(n)Macerals	500	

Analysed by C. F. K. Diessel  
Reported by *[Signature]*  
Date 31/10/84