GCR1987/04

CARBON CONSULTING INTERNATIONAL PTY. LTD.

CCI/5423/87

# ANALYSIS & TESTING OF

# CATAMARAN – RIBBON WORKINGS
# NEW STANHOPE
# MT LLOYD


March 1987

CARBON CONSULTING INTERNATIONN. PTY. LTD.
HEAD OFFICE
6 CALLISTEMON CLOSE WARABROOK NEWCASTLE NSW 2304
TEL (049) 67 4477 TELEX 28245 (CCIAUS)
PO BOX 281 MAYFIELD NSW 2304 AUSTRALIA
INCORPORATED IN NEW SOUTH WALES


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 | AS2646 - 2 | (1984) |
| | AS2646 - 4 | (1984) |
| | AS2646 - 6 | (1984) |
| | AS2646 - 8 | (1984) |
| Float & Sink Testing of Hard Coal | AS1661 | (1979) |
| Size Analysis of Coal | ASDR84043 | |
| Total Moisture in Hard Coal | AS1038 - 1 | (1980) |
| Proximate Analysis of Hard Coal | AS1038 - 3 | (1979) |
| Gross Specific Energy of Coal | AS1038 - 5 | (1979) |
| Ultimate Analysis of Higher Rank Coal | | |
| - Carbon and Hydrogen | AS1038 - 6.1 | (1986) |
| - Nitrogen | AS1038 - 6.2 | (1986) |
| - Total Sulphur (High Temp. Combustion) (designated (A) on test report) | AS1038 - 6.3.2 | (1986) |
| - Total Sulphur (Leco Infra Red) (designated (B) on test report) | AS1038 - 6.3.3 | (1986) |
| Chlorine in Coal | AS1038 - 8 | (1980) |
| Forms of Sulphur in Coal | AS1038 - 11 | (1982) |
| Crucible Swelling Number | AS1038 - 12.1 | (1979) |
| Gray King Coke Type | AS1038 - 12.2 | (1979) |
| Dilatometer (Air - Core Furnace) | AS1038 - 12.3 | (1984) |
| | ISO 349 | (1975) |
| Analysis of Coal Ash and Coke Ash (Acid Digestion - Flame AAS Method) | AS1038 - 14.2 | (1985) |
| Gieseler Plastometer | AS2137 | (1981) |
| Fusibility of Coal & Coke Ash | AS1038 - 15 | (1972) |
| Hardgrove Grindability Index of Hard Coal ( ) Represents Mass% -1.18 + 0.600mm material | AS1038 - 20 | (1981) |
| Apparent Relative Density of Hard Coal | AS1038 - 21 | (1983) |
| Relative Density of Hard Coal (Density Bottle Method) | AS1038 - 21 | (1983) |
| Carbonate Carbon of Higher Rank Coal | AS1038 - 23 | (1984) |
| Total Fluorine in Coal (Oxygen Bomb Combustion/Ion Selective Electrode) | D3761 | (1984) |

CARBON CONSULTING INTERNATIONN. PTY. LTD.
6 CALLISTEMON CLOSE WARABROOK NEWCASTLE NSW 2304
TEL (049) 67 4477 TELEX 28245 (CCIAUS)
PO BOX 281 MAYFIELD NSW 2304 AUSTRALIA
INCORPORATED IN NEW SOUTH WALES


ORIGIN: Department of Mines Tasmania
JOB NO. 5423
DESCRIPTION: Catamaran - Ribbon Workings
DATE REC'D 5/2/87
DATE TESTED 23/2/87
REPORTED TO: Mr H Murchie
c.c. Ms C Bacon

## ANALYSIS REPORT

| SAMPLE NO. | | 18937 |
|---|---|---|
| Relative Density | | |
| Total Moisture (as) | % | |
| Moisture (ad) | % | 4.6 |
| **ANALYSIS BASIS** | | ad |
| Ash | % | 17.6 |
| Volatile Matter | % | 29.8 |
| Fixed Carbon | % | 48.0 |
| Total Sulphur B | % | 0.58 |
| Chlorine | % | |
| Phosphorus | % | |
| Specific Energy | MJ/kg | 25.64 |
| Carbon | % | |
| Hydrogen | % | |
| Nitrogen | % | |
| Carbon Dioxide | % | |
| | | |
| **DRY, ASH-FREE BASIS** | | |
| Volatile Matter | % | 38.3 |
| Specific Energy | MJ/kg% | 32.96 |
| Carbon | % | |
| Hydrogen | % | |
| Nitrogen | % | |
| Sulphur | % | |
| Oxygen (diff.) | % | |
| | | |
| Crucible Swelling Number | | |
| Gray-King Coke Type | | |
| Hardgrove Grindability Index | | |
| **ASH FUSION TEMPERATURES** (reducing atmosphere) | | |
| Deformation | °C | |
| Spherical | °C | |
| Hemisphere | °C | |
| Flow | °C | |

REPORTED BY
DATE 20/3/87

CARBON CONSULTING INTERNATIONN. PTY. LTD.
6 CALLISTEMON CLOSE WARABROOK NEWCASTLE NSW 2304
TEL (049) 67 4477 TELEX 28245 (CCiAUS)
PO BOX 281 MAYFIELD NSW 2304 AUSTRALIA
INCORPORATED IN NEW SOUTH WALES


ORIGIN: Department of Mines Tasmania
JOB NO. 5423
DESCRIPTION: New Stanhope
DATE REC'D 5/2/87
DATE TESTED 23/2/87
REPORTED TO: Mr H Murchie
c.c. Ms C Bacon

## ANALYSIS REPORT

| SAMPLE NO. | | 18938 |
|---|---|---|
| Relative Density | | |
| Total Moisture (as) | % | |
| Moisture (ad) | % | 2.8 |
| **ANALYSIS BASIS** | | ad |
| Ash | % | 16.5 |
| Volatile Matter | % | 29.4 |
| Fixed Carbon | % | 51.3 |
| Total Sulphur B | % | 0.51 |
| Chlorine | % | |
| Phosphorus | % | |
| Specific Energy MJ/kg | | 27.44 |
| Carbon | % | |
| Hydrogen | % | |
| Nitrogen | % | |
| Carbon Dioxide | % | |
| | | |
| **DRY, ASH-FREE BASIS** | | |
| Volatile Matter | % | 36.4 |
| Specific Energy MJ/kg | % | 34.00 |
| Carbon | % | |
| Hydrogen | % | |
| Nitrogen | % | |
| Sulphur | % | |
| Oxygen (diff.) | % | |
| | | |
| Crucible Swelling Number | | |
| Gray-King Coke Type | | |
| Hardgrove Grindabilily Index | | |
| **ASH FUSION TEMPERATURES** (reducing atmosphere) | | |
| Deformation | °C | |
| Spherical | °C | |
| Hemisphere | °C | |
| Flow | °C | |

REPORTED BY [signature]

DATE 20/3/87

CARBON CONSULTING INTERNATIONAL PTY. LTD.
6 CALLISTEMON CLOSE WARABROOK NEWCASTLE NSW 2304
TEL (049) 67 4477 TELEX 28245 (CCIAUS)
PO BOX 281 MAYFIELD NSW 2304 AUSTRALIA
INCORPORATED IN NEW SOUTH WALES


ORIGIN: Department of Mines Tasmania
JOB NO. 5423

DESCRIPTION: Mt Lloyd
DATE REC'D 5/2/87

DATE TESTED 23/2/87

REPORTED TO: Mr H Murchie
c.c. Ms C Bacon

## ANALYSIS REPORT

| SAMPLE NO. | | 18939 |
|---|---|---|
| Relative Density | | |
| Total Moisture (as) | % | |
| Moisture (ad) | % | 2.9 |
| **ANALYSIS BASIS** | | ad |
| Ash | % | 26.6 |
| Volatile Matter | % | 18.0 |
| Fixed Carbon | % | 52.5 |
| Total Sulphur B | % | 0.40 |
| Chlorine | % | |
| Phosphorus | % | |
| Specific Energy MJ/kg | | 23.96 |
| Carbon | % | |
| Hydrogen | % | |
| Nitrogen | % | |
| Carbon Dioxide | % | |
| | | |
| **DRY, ASH-FREE BASIS** | | |
| Volatile Matter | % | 25.5 |
| Specific Energy MJ/kg | % | 33.98 |
| Carbon | % | |
| Hydrogen | % | |
| Nitrogen | % | |
| Sulphur | % | |
| Oxygen (diff.) | % | |
| | | |
| Crucible Swelling Number | | |
| Gray-King Coke Type | | |
| Hardgrove Grindability Index | | |
| **ASH FUSION TEMPERATURES** (reducing atmosphere) | | |
| Deformation | °C | |
| Spherical | °C | |
| Hemisphere | °C | |
| Flow | °C | |

REPORTED BY

DATE 20/3/87