



## New Hope Corporation

Testing and Analysis of Rosevale coal to liquids samples RV005LC

**REPORT NO.:** 21008973

**REPORT TO:** Danique Bax  
New Hope Group  
3/22 Magnolia Drive  
Brookwater  
QLD 4300

**SAMPLED BY:** Client

**PURCHASE ORDER:** 5202778

**DATED REPORTED:** 26 July 2011

**Greg Van Gestel**  
Laboratory Manager  
ALS Coal Division - Richlands

## ANALYSIS AND TESTING REPORT

### NEW HOPE CORPORATION

Sample Details	Sample: RVS004_RVS016 Hole: RV005LC From: 13.030 m To: 19.950 m	Sample: RVS017_RVS027 Hole: RV005LC From: 21.810 m To: 26.340 m
<b>PROXIMATE ANALYSIS</b>		
Air Dried Moisture %	16.2	15.2
Ash %	36.1	38.0
Volatile Matter %	28.8	28.8
Fixed Carbon %	18.9	18.0
Total Sulfur %	0.31	0.23
<b>CALORIFIC VALUE (AD)</b>		
Calorific Value MJ/kg	11.97	11.98
Calorific Value kcal/kg	2858	2862
Relative Density	1.62	1.65
<b>ULTIMATE ANALYSIS (d.a.f.)</b>		
Carbon %	63.2	64.3
Hydrogen %	5.36	5.87
Nitrogen %	1.00	0.94
Sulfur %	0.64	0.50
Oxygen (By Difference) %	29.8	28.4

All results reported to air dried basis unless noted  
d.a.f. = dry ash free basis

## **ANALYSIS AND TESTING REPORT**

### **NEW HOPE CORPORATION**

Sample: RVS004\_RVS016  
Hole: RV005LC  
From: 13.030 m  
To: 19.950 m

#### **FLOAT AND SINK ANALYSIS: AIR DRIED BASIS (AS4156.1)**

<b>Relative Density Fraction</b>	<b>FRACTIONAL</b>		<b>CUMULATIVE</b>	
	<b>Mass %</b>	<b>Ash %</b>	<b>Mass %</b>	<b>Ash %</b>
F1.45	28.0	21.9	28.0	21.9
S1.45 - F1.50	3.0	29.8	31.0	22.6
S1.50 - F1.55	18.3	37.4	49.3	28.1
S1.55 - F1.60	9.3	42.3	58.6	30.4
S1.60 - F1.65	6.3	46.5	64.9	31.9
S1.65	35.1	63.5	100.0	43.0

Sample: RVS017\_RVS027  
Hole: RV005LC  
From: 21.810 m  
To: 26.340 m

#### **FLOAT AND SINK ANALYSIS: AIR DRIED BASIS (AS4156.1)**

<b>Relative Density Fraction</b>	<b>FRACTIONAL</b>		<b>CUMULATIVE</b>	
	<b>Mass %</b>	<b>Ash %</b>	<b>Mass %</b>	<b>Ash %</b>
F1.45	43.5	22.3	43.5	22.3
S1.45 - F1.50	6.7	32.6	50.2	23.7
S1.50 - F1.55	12.9	38.2	63.1	26.7
S1.55 - F1.60	4.1	39.2	67.2	27.4
S1.60 - F1.65	9.1	46.9	76.3	29.7
S1.65	23.7	63.9	100.0	37.8



### ACCREDITED TESTS

HARD COAL TEST	ABBREVIATION	STANDARD /REFERENCE
Abrasion Index	AI	AS1038.19
Adiabatic Self Heating		AL035 (In-House)
Ash	A	AS1038.3
Ash Fusibility		AS1038.15
Carbon		AS1038.6.4
Carbonate Carbon	C	AS1038.23
Chlorine	Cl <sup>m</sup>	AS1038.8
Crucible Swelling Number	CSN	AS1038.12.1
Dilatometer		AS 1038.12.3
Fixed Carbon	FC	AS1038.3
Float/Sink Analysis	F/S	AS4156.1
Forms of Sulfur	FOS [S <sub>o</sub> , S <sub>p</sub> , S <sub>s</sub> ]	AS1038.11
Gieseler		AS1038.12.4.1
Gray King Coke Type	GKCT	AS1038.12.2
Hardgrove Grindability Index	HGI	AS1038.20
Hydrogen	H	AS1038.6.4
Moisture (residual)	M <sub>r</sub>	AS1038.3
Moisture Holding Capacity	MHC	AS1038.17
Nitrogen	N	AS1038.6.4
Oxygen	O	AS1038.16
Phosphorus	P	BS1016.14
Relative Density	RD	AS1038.21.1.1
Relative Ignition Temperature	RIT	AL030 (In-House)
Size Analysis		AS3881
Gross Calorific Value	q	AS1038.5
Total Moisture	M	AS1038.1
Total Sulfur	S	AS1038.6.3.3
Volatile Matter	VM	AS1038.3
Ash Analysis		AL044 (In-House) *
<b>COKE TEST</b>	<b>ABBREVIATION</b>	<b>STANDARD /REFERENCE</b>
Proximate Analysis		AS 1038.4

**Note(s):**

1. Acceptance and reporting of results is in accordance with AS1038.16
2. Sampling by ACIRL is in accordance with the following AS2617 (seams, insitu); AS4264.1 Sampling Procedures ; AS4264.4 Determination of Precision and Bias
3. All analyses reported to Air-Dried Basis unless otherwise indicated.
- \*4. Ash Analysis performed at ACIRL Maitland laboratory (accreditation held).  
Based on AS1038.14.2, variation ICP instead of flame for species excitation.



### NON ACCREDITED TEST

The following tests are not covered in by the scope of accreditation relating to the laboratories technical accreditation.

<u>TEST</u>	<u>STANDARD/REFERENCE</u>
Drop Shatter	AS2519
Durham Cone	AS1038.25
Froth Flotation	AS4156.2 and Client Specific Procedures
Mineral Matter	AS1038.22
Pre- Treatment	AS2519
Roadway Dusts	QLD Department of Mines and Energy – Quality of incompatible dust, sampling and analysis of roadway dust in underground coal mine – Coal Mining Safety and Health Act 1999 Recognised Standard – No. 05, July 2003
Roga Index	ISO335
Caking Index	ISO15585
Sapozhnikov	Journal of Mine Metals and Fuels India Oct 1978
Size Adjustment	AS2519

APPENDIX I  
PETROGRAPHIC ANALYSIS

## MACERAL ANALYSIS

**Sample Details:** RVS004\_RVS016 Hole: RV005LC IP673012

GROUP	VOLUME (%)	VOLUME (% mineral free)	SUBGROUP	MACERAL	VOLUME (%)	VOLUME (% mineral free)		
VITRINITE	27.4	88.5	Telovitrinite	Textinite	0.0	0.0		
				Texto-ulminite	0.0	0.0		
				Eu-ulminite	0.0	0.0		
			Detrovitrinite			Telocollinite	25.8	83.4
						Attrinite	0.0	0.0
						Densinite	0.0	0.0
						Desmocollinite	1.6	5.1
			Gelovitrinite			Corpogellinite	0.0	0.0
						Proigelinite	0.0	0.0
						Eugelinite	0.0	0.0
LIPTINITE	1.0	3.2		Sporinite	0.4	1.3		
				Cutinite	0.6	1.9		
				Resinite	0.0	0.0		
				Liptodetrinite	0.0	0.0		
				Alginite	0.0	0.0		
				Suberinite	0.0	0.0		
				Fluorinite	0.0	0.0		
				Exsudatinite	0.0	0.0		
				Bituminite	0.0	0.0		
				INERTINITE	2.6	8.3	Telo-inertinite	Fusinite
Semifusinite	0.0	0.0						
Funginite	2.6	8.3						
Detro-inertinite			Inertodetrinite				0.0	0.0
			Micrinite				0.0	0.0
Gelo-inertinite			Macrinite				0.0	0.0
MINERAL	69.0							

Prepared and measured in accordance with Australian Standards AS 2856.1; AS 2856.2.

Date: 14/07/2011

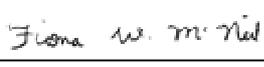
Observations: 507

Analysis performed on As Received sample

This data has not been artificially rounded to avoid misleading presentation of results.



  
 Approved Signatory  
 William Cash, PIC Supervisor

  
 Fiona McNeil, Petrographer

1 of 1

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## MACERAL ANALYSIS

Sample Details: RVS017\_RVS027 Hole: RV005LC IP673019

GROUP	VOLUME (%)	VOLUME (% mineral free)	SUBGROUP	MACERAL	VOLUME (%)	VOLUME (% mineral free)		
VITRINITE	26.4	78.4	Telovitrinite	Textinite	0.0	0.0		
				Texto-ulminite	0.0	0.0		
				Eu-ulminite	0.0	0.0		
			Detrovitrinite			Telocollinite	25.6	76.0
						Attrinite	0.0	0.0
						Densinite	0.0	0.0
						Desmocollinite	0.8	2.3
						Corpogellinite	0.0	0.0
			Gelovitrinite			Proigelinite	0.0	0.0
						Eugelinite	0.0	0.0
LIPTINITE	1.8	5.3		Sporinite	0.2	0.6		
				Cutinite	1.6	4.7		
				Resinite	0.0	0.0		
				Liptodetrinite	0.0	0.0		
				Alginite	0.0	0.0		
				Suberinite	0.0	0.0		
				Fluorinite	0.0	0.0		
				Exsudatinite	0.0	0.0		
				Bituminite	0.0	0.0		
INERTINITE	5.5	16.4	Telo-inertinite	Fusinite	0.0	0.0		
				Semifusinite	0.4	1.2		
				Funginite	5.1	15.2		
			Detro-inertinite			Inertodetrinite	0.0	0.0
						Micrinite	0.0	0.0
			Gelo-inertinite			Macrinite	0.0	0.0
			MINERAL	66.3				

Prepared and measured in accordance with Australian Standards AS 2856.1; AS 2856.2.

Date: 14/07/2011

Observations: 507

Analysis performed on As Received sample

This data has not been artificially rounded to avoid misleading presentation of results.



  
 Approved Signatory  
 William Cash, PIC Supervisor

  
 Fiona McNeil, Petrographer

1 of 1

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APPENDIX II  
CLIENT INSTRUCTIONS



New Hope Group

# memo

**To:** Daniel Caldwell - ACIRL

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**Copy:**

**Our Ref:**

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**From:** Danique Bax

**Date:** 23 March 2011

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**Re:** Coal to Liquids Analysis Instructions - Stage 1-3 for Rosevale

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Hi Daniel

Firstly, I must apologise for something – the purchase order numbers that I provided for the York Plains samples are incorrect. I accidentally gave you the purchase requisition number, which is not the purchase order number. The Rosevale purchase order numbers provided below have been double-checked, and are correct. For the York Plains, please use the following purchase order numbers:

York Plains Stage 1 – 8200862  
York Plains Stage 2 – 5202778  
York Plains Stage 3 – 5202778

Once again, I apologise for the confusion with this. The purchase order number for the Rosevale and York Plains Stage 2 & 3 analysis is the same. The Stage 1 analysis purchase order differs between the two projects.

Please perform the following analyses on the samples from Rosevale, Tasmania. The program of works has not changed between Rosevale and York Plains for these CTL samples.

## Stage 1

**IMPORTANT:** This analysis is for New Hope Exploration, and is to be invoiced separately from the Stage 2 analysis, using Purchase Order number 8200901.

- Proximate Analysis (Moisture, Ash, Volatile Matter, Fixed Carbon)
- RD
- Specific Energy
- Total Moisture
- Total Sulfur
- Calorific Value

Please report these values and await confirmation and further instructions before proceeding with Stage 2 analysis.

## Stage 2

**IMPORTANT:** This analysis is for Coal to Liquids, and is to be invoiced separately from the Stage 1 analysis, using Purchase Order number 5202778.

Please crush the full sample to -6mm, before performing the following:

- Proximate Analysis (Moisture, Ash, Volatile Matter, Fixed Carbon)
- RD
- Total Sulfur

- Calorific Value
- Ultimate Analysis
- Petrographic (Maceral) Analysis

### **Stage 3**

**IMPORTANT:** This analysis is for Coal to Liquids, and is to be invoiced on the same purchase order as Stage 2 analysis, (Purchase Order number 5202778).

Washability Analysis (on cut points 1.45, 1.50, 1.55, 1.60, 1.65) – standard ash/yield

The remaining -6mm crushed sample will then be freighted under the instruction of Rob Neale. 150kg of each bulk sample will be required for further Coal to Liquids analysis.

If you have any problems, or questions, please don't hesitate to contact me.

Regards,

Danique Bax

<b>Hole Number</b>	<b>RV005LC</b>
<b>Area</b>	<b>Rosevale, Tasmania 8-inch</b>
<b>Geologist</b>	<b>Andrew Basson</b>
<b>Date Sampled</b>	<b>15/03/2011 - 18/03/2011</b>
<b>Sent to</b>	<b>ACIRL</b>
<b>Address</b>	<b>1 Acirl St, Riverview, QLD, 4305</b>
<b>Comment</b>	

Hole	SampNumb	From	To	Thick	Seam1	Lithology	Stage1 Instructions
RV005LC	RVS001	8.86	8.98	0.13		COAL 100%	Proceed
RV005LC	RVS002	8.98	9.16	0.18		LIGNEOUS CLAY 100%	Proceed
RV005LC	RVS003	11.04	11.48	0.44		COAL 100%	Proceed
RV005LC	RVS004	13.03	13.53	0.50		COAL 100%	Proceed
RV005LC	RVS005	13.53	14.02	0.49		COAL 100%	Proceed
RV005LC	RVS006	14.02	14.24	0.22		COAL 50%, LIGNEOUS CLAY 50%	Proceed
RV005LC	RVS007	14.24	14.68	0.44		COAL 100%	Proceed
RV005LC	RVS008	14.68	15.13	0.45		COAL 100%	Proceed
RV005LC	RVS009	15.80	16.37	0.57		COAL 100%	Proceed
RV005LC	RVS010	16.37	16.97	0.60		COAL 100%	Proceed
RV005LC	RVS011	16.97	17.33	0.36		COAL 89%, SIDERITE 11%	Proceed
RV005LC	RVS012	17.33	17.82	0.49		COAL 100%	Proceed
RV005LC	RVS013	17.82	18.25	0.43		COAL 100%	Proceed
RV005LC	RVS014	18.25	18.74	0.49		COAL 100%	Proceed
RV005LC	RVS015	18.74	19.19	0.45		COAL 100%	Proceed
RV005LC	RVS016	19.19	19.95	0.76		COAL 82%, LIGNEOUS CLAY 18%	Proceed
RV005LC	RVS017	21.81	21.95	0.14		COAL 100%	Proceed
RV005LC	RVS018	21.95	22.31	0.36		CLAY 36%, LIGNEOUS CLAY 64%	Proceed
RV005LC	RVS019	22.31	22.36	0.05		COAL 100%	Proceed
RV005LC	RVS020	22.50	22.83	0.33		COAL 100%	Proceed
RV005LC	RVS021	22.83	23.00	0.17		CLAY 100%	Proceed
RV005LC	RVS022	23.00	23.55	0.55		COAL 89%, LIGNEOUS CLAY 11%	Proceed
RV005LC	RVS023	23.55	24.15	0.60		COAL 100%	Proceed
RV005LC	RVS024	24.15	24.70	0.55		COAL 91%, LIGNEOUS CLAY 9%	Proceed
RV005LC	RVS025	24.70	25.28	0.58		COAL 95%, LIGNEOUS CLAY 5%	Proceed
RV005LC	RVS026	25.28	25.62	0.34		COAL 79%, LIGNEOUS CLAY 21%	Proceed
RV005LC	RVS027	25.62	26.34	0.72		COAL 100%	Proceed
RV005LC	RVS028	28.38	28.74	0.36		COAL 100%	Proceed
RV005LC	RVS029	29.16	29.76	0.60		COAL 88%, LIGNEOUS CLAY 12%	Proceed
RV005LC	RVS030	29.76	30.41	0.65		COAL 100%	Proceed
RV005LC	RVS031	30.41	30.71	0.30		COAL 100%	Proceed
RV005LC	RVS032	36.54	37.19	0.65		COAL 100%	Proceed

<b>Hole Number</b>	<b>RV005LC</b>
<b>Area</b>	<b>Rosevale, Tasmania 8-inch</b>
<b>Geologist</b>	<b>Andrew Basson</b>
<b>Date Sampled</b>	<b>15/03/2011 - 18/03/2011</b>
<b>Sent to</b>	<b>ACIRL</b>
<b>Address</b>	<b>1 Acirl St, Riverview, QLD, 4305</b>
<b>Comment</b>	

Hole	SampNumb	From	To	Thick	Seam1	Lithology	Stage 2 Instructions
RV005LC	RVS001	8.86	8.98	0.13		COAL 100%	Disregard - No Further Testing
RV005LC	RVS002	8.98	9.16	0.18		LIGNEOUS CLAY 100%	Disregard - No Further Testing
RV005LC	RVS003	11.04	11.48	0.44		COAL 100%	Disregard - No Further Testing
RV005LC	RVS004	13.03	13.53	0.50		COAL 100%	Combine RVS004-RVS016 & Proceed
RV005LC	RVS005	13.53	14.02	0.49		COAL 100%	
RV005LC	RVS006	14.02	14.24	0.22		COAL 50%, LIGNEOUS CLAY 50%	
RV005LC	RVS007	14.24	14.68	0.44		COAL 100%	
RV005LC	RVS008	14.68	15.13	0.45		COAL 100%	
RV005LC	RVS009	15.80	16.37	0.57		COAL 100%	
RV005LC	RVS010	16.37	16.97	0.60		COAL 100%	
RV005LC	RVS011	16.97	17.33	0.36		COAL 89%, SIDERITE 11%	
RV005LC	RVS012	17.33	17.82	0.49		COAL 100%	
RV005LC	RVS013	17.82	18.25	0.43		COAL 100%	
RV005LC	RVS014	18.25	18.74	0.49		COAL 100%	
RV005LC	RVS015	18.74	19.19	0.45		COAL 100%	
RV005LC	RVS016	19.19	19.95	0.76		COAL 82%, LIGNEOUS CLAY 18%	
RV005LC	RVS017	21.81	21.95	0.14		COAL 100%	Combine RVS017-RVS027 & Proceed
RV005LC	RVS018	21.95	22.31	0.36		CLAY 36%, LIGNEOUS CLAY 64%	
RV005LC	RVS019	22.31	22.36	0.05		COAL 100%	
RV005LC	RVS020	22.50	22.83	0.33		COAL 100%	
RV005LC	RVS021	22.83	23.00	0.17		CLAY 100%	
RV005LC	RVS022	23.00	23.55	0.55		COAL 89%, LIGNEOUS CLAY 11%	
RV005LC	RVS023	23.55	24.15	0.60		COAL 100%	
RV005LC	RVS024	24.15	24.70	0.55		COAL 91%, LIGNEOUS CLAY 9%	
RV005LC	RVS025	24.70	25.28	0.58		COAL 95%, LIGNEOUS CLAY 5%	
RV005LC	RVS026	25.28	25.62	0.34		COAL 79%, LIGNEOUS CLAY 21%	
RV005LC	RVS027	25.62	26.34	0.72		COAL 100%	
RV005LC	RVS028	28.38	28.74	0.36		COAL 100%	Disregard - No Further Testing
RV005LC	RVS029	29.16	29.76	0.60		COAL 88%, LIGNEOUS CLAY 12%	Disregard - No Further Testing
RV005LC	RVS030	29.76	30.41	0.65		COAL 100%	Disregard - No Further Testing
RV005LC	RVS031	30.41	30.71	0.30		COAL 100%	Disregard - No Further Testing
RV005LC	RVS032	36.54	37.19	0.65		COAL 100%	Disregard - No Further Testing

<b>Hole Number</b>	<b>RV005LC</b>
<b>Area</b>	<b>Rosevale, Tasmania 8-inch</b>
<b>Geologist</b>	<b>Andrew Basson</b>
<b>Date Sampled</b>	<b>15/03/2011 - 18/03/2011</b>
<b>Sent to</b>	<b>ACIRL</b>
<b>Address</b>	<b>1 Acirl St, Riverview, QLD, 4305</b>
<b>Comment</b>	

Hole	SampNumb	From	To	Thick	Seam1	Lithology	Stage 3 Instructions
RV005LC	RVS001	8.86	8.98	0.13		COAL 100%	Disregard - No Further Testing
RV005LC	RVS002	8.98	9.16	0.18		LIGNEOUS CLAY 100%	Disregard - No Further Testing
RV005LC	RVS003	11.04	11.48	0.44		COAL 100%	Disregard - No Further Testing
RV005LC	RVS004	13.03	13.53	0.50		COAL 100%	Combine RVS004-RVS016 & Proceed
RV005LC	RVS005	13.53	14.02	0.49		COAL 100%	
RV005LC	RVS006	14.02	14.24	0.22		COAL 50%, LIGNEOUS CLAY 50%	
RV005LC	RVS007	14.24	14.68	0.44		COAL 100%	
RV005LC	RVS008	14.68	15.13	0.45		COAL 100%	
RV005LC	RVS009	15.80	16.37	0.57		COAL 100%	
RV005LC	RVS010	16.37	16.97	0.60		COAL 100%	
RV005LC	RVS011	16.97	17.33	0.36		COAL 89%, SIDERITE 11%	
RV005LC	RVS012	17.33	17.82	0.49		COAL 100%	
RV005LC	RVS013	17.82	18.25	0.43		COAL 100%	
RV005LC	RVS014	18.25	18.74	0.49		COAL 100%	
RV005LC	RVS015	18.74	19.19	0.45		COAL 100%	
RV005LC	RVS016	19.19	19.95	0.76		COAL 82%, LIGNEOUS CLAY 18%	
RV005LC	RVS017	21.81	21.95	0.14		COAL 100%	Combine RVS017-RVS027 & Proceed
RV005LC	RVS018	21.95	22.31	0.36		CLAY 36%, LIGNEOUS CLAY 64%	
RV005LC	RVS019	22.31	22.36	0.05		COAL 100%	
RV005LC	RVS020	22.50	22.83	0.33		COAL 100%	
RV005LC	RVS021	22.83	23.00	0.17		CLAY 100%	
RV005LC	RVS022	23.00	23.55	0.55		COAL 89%, LIGNEOUS CLAY 11%	
RV005LC	RVS023	23.55	24.15	0.60		COAL 100%	
RV005LC	RVS024	24.15	24.70	0.55		COAL 91%, LIGNEOUS CLAY 9%	
RV005LC	RVS025	24.70	25.28	0.58		COAL 95%, LIGNEOUS CLAY 5%	
RV005LC	RVS026	25.28	25.62	0.34		COAL 79%, LIGNEOUS CLAY 21%	
RV005LC	RVS027	25.62	26.34	0.72		COAL 100%	
RV005LC	RVS028	28.38	28.74	0.36		COAL 100%	Disregard - No Further Testing
RV005LC	RVS029	29.16	29.76	0.60		COAL 88%, LIGNEOUS CLAY 12%	Disregard - No Further Testing
RV005LC	RVS030	29.76	30.41	0.65		COAL 100%	Disregard - No Further Testing
RV005LC	RVS031	30.41	30.71	0.30		COAL 100%	Disregard - No Further Testing
RV005LC	RVS032	36.54	37.19	0.65		COAL 100%	Disregard - No Further Testing

# COAL DIVISION

## AUSTRALIA

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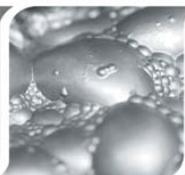
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