

Rust Environmental						Project		Amber Park, South Normanton		Borehole		107R			
Contractor						Hydracrat Water		Client		Wilson Bowden Homes		Project No.		EGMLS283	
Elevation						143.72mOD		Co-ordinates		2141.40mE 4063.70mN		Logged By		JG	
Checked By						Ged									
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.						
3.00						CLAY and MUDSTONE	0.00		143.72						
						Yellow broken SANDSTONE	3.00		140.72						
						COAL, not recovered in core	3.00		140.63						
6.00						Grey thinly to thickly laminated MUDSTONE, weak to moderately weak. Occasional clay on joint surfaces	3.00		140.47						
	33	27	22	33 <1											
						Black thinly bedded COAL, very weak	6.50		137.22						
8.10						Grey thinly bedded silty MUDSTONE, weak to moderately weak. Orange weathering on joints. Broken mudstone 7.35-7.40. Light brown clay 7.40-7.45	6.95		136.77						
	100	90	60	5 93		Grey interlaminated MUDSTONE and SANDSTONE. Orange weathering on joints	7.55		136.17						
						Grey thinly bedded slightly sandy MUDSTONE, moderately weak	7.85		135.87						
						Grey MUDSTONE with sandstone layers	8.10		135.62						

Drilling Data						Progress/Groundwater Behaviour						
Depth	Method	Bit Type	Hole Dia.	Core Dia.	Casing		Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Depth Sealed
					Depth	Size						
0.00-3.00	Rotary Open Hole	Tricone Bit	120mm		1.50m	140mm	30.08.96 4.00pm	14.20	1.50	seepage	14.20	
3.00-8.10	Rotary Core	Tungsten Bit	120mm	75mm			5.00pm	20.00	1.50	DRY		
8.10-12.00	Rotary Open Hole	Tricone Bit	120mm									
12.00-16.20	Rotary Core	Tungsten Bit	120mm	75mm								
16.20-20.00	Rotary Open Hole	Tricone Bit	120mm									

**Remarks**

Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.



Rust Environmental						Project Amber Park, South Normanton		Borehole 107R (Sheet 2 of 2)				
Contractor Hydracrat Water						Client Wilson Bowden Homes		Project No. EGMLS283				
Elevation						Co-ordinates		Logged By JG Checked By CCB				
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.			
12.00	100	81	38	30 <1		Grey MUDSTONE with sandstone layers						
						Grey thinly bedded silty MUDSTONE weak to moderately weak with horizons of extremely closely spaced fractured SILTSTONE, moderately weak to moderately strong at 12.50-12.55 12.80-13.00 13.30-13.35 Very closely spaced fractured mudstone at 13.35-13.45.	12.00		131.72			
14.00	85	75	20	14 <1		Grey thinly bedded extremely closely spaced fractured MUDSTONE, weak	13.70 13.90 14.00		130.02 129.82 129.72			
						Black thinly laminated carbonaceous MUDSTONE, very weak. Occasional orange weathering on joints	14.30 14.40 14.50		129.42 129.32 129.22			
16.20						Black thickly laminated COAL, very weak		XXXXXX				
						Grey thinly laminated MUDSTONE, very weak. Occasional black carbonaceous inclusions	15.15 15.20	XXXXXX	128.57 128.52			
						Black thinly laminated closely spaced fractured MUDSTONE, moderately weak						
						Grey thinly bedded argillaceous SILTSTONE, moderately weak	16.15 16.20		127.57 127.52			
						Grey thinly bedded SILTSTONE, moderately weak to moderately strong						
						Grey with orange weathering on joints, very thinly bedded extremely closely spaced to closely spaced fractured MUDSTONE, weak to moderately weak						
						Grey thinly bedded SILTSTONE, moderately weak to moderately strong						
						Grey MUDSTONE	17.90		125.82			
						COAL	18.10		125.62			
						Grey MUDSTONE						
						Yellow SANDSTONE	19.40		124.32			
						Base of Borehole	20.00		123.72			
Drilling Data							Progress/Groundwater Behaviour					
Depth	Method	Bit Type	Hole Dia.	Core Dia.	Casing		Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Depth Sealed
					Depth	Size						
0.00-3.00	Rotary Open Hole	Tricone Bit	120mm				30.08.96 4.00pm	14.20	1.50	seepage	14.20	
3.00-8.10	Rotary Core	Tungsten Bit	120mm	75mm		1.50m 140mm	5.00pm	20.00	1.50	DRY		
8.10-12.00	Rotary Open Hole	Tricone Bit	120mm									
12.00-16.20	Rotary Core	Tungsten Bit	120mm	75mm								
16.20-20.00	Rotary Open Hole	Tricone Bit	120mm									
Remarks												
Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.												

Ref:RRL355.1



Rust Environmental										Project		Amber Park, South Normanton		Borehole		107R (Sheet 1 of 2)					
Contractor										Hydracrat Water		Client		Wilson Bowden Properties		Project No.		EGMLS283			
Elevation										143.72mOD		Co-ordinates		2141.40mE 4063.70mN		Logged By		JG Checked By			
PENETRATION RATE (secs)										LITHOLOGY											
Depth		Total Time		BAR CHART										Depth		Description		Legend		Level O.D.	
				10	20	30	40	50	60	70	80	90	100								
0.00														0.00		CLAY and MUDSTONE		143.72			
0.50		15																			
1.00		19																			
1.50		20																			
2.00		18																			
2.50		24																			
3.00		NR												3.00		Yellow SANDSTONE		140.72			
														3.05				140.67			
														3.25		COAL		140.47			
3.50		NR														Grey MUDSTONE					
4.00		NR																			
4.50		NR																			
5.00		NR																			
5.50		NR																			
6.00		NR																			
6.50		NR												6.50		COAL		137.22			
7.00		NR												6.95		Grey MUDSTONE		136.77			
7.50		NR																			
8.00		NR												8.10		Grey MUDSTONE with sandstone layers		135.62			
8.50		34																			
9.00		36																			
9.50		24																			
10.00		29																			
Drilling Data										Progress/Groundwater Behaviour											
Depth		Method		Bit Type		Hole Dia.		Casing		Date/Time		Hole Depth		Casing Depth		Water Depth		Depth Struck		Depth Sealed	
								Depth		Size											
0.00-3.00		Rotary Open Hole		Tricone Bit		120mm		1.50m		140mm		30.08.96		20.00		1.50		seepage		14.20	
3.00-8.10		Rotary Core		Tungsten Bit		120mm															
8.10-12.00		Rotary Open Hole		Tricone Bit		120mm															
Remarks																					
NR - denotes not recorded																					
Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.																					



Rust Environmental				Project		Amber Park, South Normanton		Borehole		107R (Sheet 2 of 2)					
Contractor				Hydracrat Water		Client		Wilson Bowden Properties		Project No.		EGMLS283			
Elevation				143.72mOD		Co-ordinates		2141.40mE 4063.70mN		Logged By		JG Checked By			
PENETRATION RATE (secs)						LITHOLOGY									
Depth	Total Time	BAR CHART										Depth	Description	Legend	Level O.D.
		10	20	30	40	50	60	70	80	90	100				
10.00	29												Grey MUDSTONE with sandstone layers		
10.50	34														
11.00	22														
11.50	35														
12.00	NR												12.00	Grey MUDSTONE	131.72
12.50	NR														
13.00	NR														
13.50	NR														
14.00	NR												14.00	Black COAL	129.72
14.50	NR												14.30	Grey MUDSTONE	129.42
15.00	NR														
15.50	NR														
16.00	NR														
16.50	NR														
17.00	NR														
17.50	NR														
18.00	NR												17.90	Black COAL	125.82
18.50	NR												18.10	Grey MUDSTONE	125.62
19.00	NR														
19.50	NR												19.40	Yellow SANDSTONE	124.32
20.00	NR												20.00	Base of Borehole	123.72
Drilling Data						Progress/Groundwater Behaviour									
Depth	Method	Bit Type	Hole Dia.	Casing		Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Depth Sealed				
				Depth	Size										
12.00-16.20	Rotary Core	Tungsten Bit	120mm												
16.20-20.00	Rotary Open Hole	Tricone bit	120mm												
Remarks NR - denotes not recorded															
Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.															

Ref: RHM/1155.2

## Rust Environmental

Project Amber Park  
South Normanton

# Data Sheet

FIGURE A-1

### TRIAL PIT AND BOREHOLE LOCATION PLAN

