



Rust Environmental						Project		Amber Park, South Normanton		Borehole		103R (Sheet 1 of 2)			
Contractor						Hydracrat Water		Client		Wilson Bowden Homes		Project No.		EGMLS283	
Elevation						138.06mOD		Co-ordinates		2240.90mE 4112.63mN		Logged By		JG	
Checked By						GPA									
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.						
						Sandy clay	0.00		138.06						
						Yellow SANDSTONE	2.40		135.66						
3.00						Orange and grey thinly laminated argillaceous fine to medium grained SANDSTONE, very weak	3.00		135.06						
	100	53	10	14	<1	Orange and grey thinly laminated very closely spaced fractured silty SANDSTONE, very weak	3.10		134.96						
						Orange silty SANDSTONE, weak. Recovered as fine to medium gravel	3.15		134.91						
						Orange and grey closely spaced fractured slightly silty SANDSTONE, weak	3.35		134.71						
						Orange silty SANDSTONE, weak. Broken and recovered as a fine to medium gravel	3.70		134.36						
4.20						Orange and grey closely spaced fractured slightly silty SANDSTONE, weak	3.80		134.26						
	85	14	56	12	<1	Orange, with brown weathered zones, extremely closely spaced fractured silty SANDSTONE, weak, recovered as a fine to medium gravel	4.20		133.86						
						Orange and yellow thinly laminated SANDSTONE, weak to moderately weak	4.95		133.11						
6.20						Orange thinly laminated SANDSTONE, weak	5.45		132.61						
	100	86	68	60	10	Yellow thinly laminated SANDSTONE, weak with thin carbonaceous laminae	6.45		131.61						
						Yellow thinly laminated SANDSTONE, weak to moderately weak, with thin black carbonaceous laminae (ripple marks)									
9.20						Yellow thinly laminated SANDSTONE, weak with thin black carbonaceous laminae									
	78	28	3	10	<1	Orange and grey thinly to thickly laminated very closely spaced fractured slightly silty MUDSTONE, weak	9.20		128.86						
						Grey with orange weathered zones along joints, very thinly bedded very closely spaced MUDSTONE, weak to moderately weak. Clay smeared on weathered surfaces	9.60		128.46						
							9.70		128.36						
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				
0.00-3.00	Rotary Open Hole	Tricone Bit	120mm	75mm	Depth	27.08.96	20.00	1.50	DRY	-	-				
3.00-15.00	Rotary Core	Tungsten Bit	120mm		Size										
15.00-20.00	Rotary Open Hole	Tricone Bit	120mm												
Remarks															

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

Ref:BNHLS95.1

Rust Environmental						Project	Amber Park, South Normanton		Borehole 103R (Sheet 2 of 2)				
Contractor						Hydracrat Water		Client	Wilson Bowden Homes		Project No.	EGMLS283	
Elevation						138.06mOD		Co-ordinates	2240.90mE 4112.63mN		Logged By	JG	
								Checked By	GEO				
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description			Depth	Legend	Level O.D.		
12.00	78	28	3	10 <1		Grey, with orange weathered zones along joints, very thinly bedded very closely spaced fractured MUDSTONE, weak to moderately weak. Clay smeared on weathered surfaces			10.45		127.61		
						Grey, with orange weathered surfaces, broken, MUDSTONE, weak. Recovered as fine to medium gravel							
						SANDSTONE, core lost			11.40		126.66		
	43	21	13	10 <1		Grey thinly laminated MUDSTONE, weak to moderately weak			12.00		126.06		
						Grey broken MUDSTONE, moderately strong			12.20		125.86		
						Grey and black fine mudstone and coal gravel with much clay matrix and rare fine gravel size timber fragments and sandstone gravel (PROBABLE PACKED WORKINGS)			12.55		125.51		
						Grey broken MUDSTONE, weak			13.40		124.66		
						Grey MUDSTONE, core lost			13.50		124.56		
	15.00					Grey MUDSTONE			15.00		123.06		
Black MUDSTONE with coal layers						17.00		121.06					
Dark grey becoming grey, MUDSTONE						17.40		120.66					
						Base of Borehole			20.00		118.06		
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
0.00-3.00	Rotary Open Hole	Tricone Bit		120mm	75mm	1.30m	140mm	27.08.96	20.00	1.50	DRY	-	-
3.00-15.00	Rotary Core	Tungsten Bit		120mm									
15.00-20.00	Rotary Open Hole	Tricone Bit		120mm									
Remarks													
Slotted 50mm standpipe installed to 20.00m depth with pea gravel response zone to 0.50m depth, bentonite seal to ground level and covered by an upright vandal proof cover.													



Rust Environmental											Project		Amber Park, South Normanton		Borehole		103R (Sheet 1 of 2)				
Contractor											Hydracrat Water		Client		Wilson Bowden Properties		Project No.		EGMLS283		
Elevation											138.06mOD		Co-ordinates		2240.90mE 4112.63mN		Logged By		JG		
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	Yellow sandy clay		138.06						
0.50	NR																				
1.00	NR																				
1.50	NR																				
2.00	NR																				
2.40												2.40	Yellow SANDSTONE		135.66						
2.50	NR																				
3.00	NR											3.00	Yellow SANDSTONE		135.06						
3.50	NR																				
4.00	NR																				
4.50	NR																				
5.00	NR																				
5.50	NR																				
6.00	NR																				
6.50	NR																				
7.00	NR																				
7.50	NR																				
8.00	NR																				
8.50	NR																				
9.00	NR																				
9.50	NR																				
9.60												9.60	Grey MUDSTONE		128.46						
10.00	NR																				

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	1.30m	140mm	27.08.96	20.00	1.30	-	-	-
3.00-15.00	Rotary Core	Tungsten 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: NRH/1155.2

Rust Environmental				Project		Amber Park, South Normanton		Borehole		103R													
Contractor				Hydracrat Water		Client		Wilson Bowden Properties		Project No.		EGMLS283											
Elevation				138.06mOD		Co-ordinates		2240.90mE 4112.63mN		Logged By		JG											
										Checked By		ced											
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		NR												Grey MUDSTONE									
10.50		NR																					
11.00		NR																					
11.50		NR											11.40	SANDSTONE		126.66							
12.00		NR											12.00	Grey MUDSTONE		126.06							
12.50		NR											12.50	Probable packed workings - MUDSTONE, COAL, CLAY occasional timber fragments		125.56							
13.00		NR											13.40	Grey MUDSTONE		124.66							
13.50		NR																					
14.00		NR																					
14.50		NR																					
15.00		NR																					
15.50		24																					
16.00		23																					
16.50		23																					
17.00		33											17.00	Black MUDSTONE		121.06							
17.50		31											17.40	Grey MUDSTONE		120.66							
18.00		32																					
18.50		51																					
19.00		NR																					
19.50		49																					
20.00		46											20.00	End of Borehole		118.06							
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																		
3.00-15.00	Rotary Core	Tungsten Bit	120mm			27.08.96	20.00	1.30	seepage	12.40-	NOT												
15.00-20.00	Rotary Open Hole	Tricore Bit	120mm							15.00													
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

Data Sheet

FIGURE A-1

TRIAL PIT AND BOREHOLE LOCATION PLAN

