



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 silty SANDSTONE, weak. Broken and 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	Size										
3.00-15.00	Rotary Core	Tungsten Bit	120mm		1.30	140mm	27.08.96	20.00	1.50	DRY	-	-				
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			
					Depth	Size									
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

