

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389389.61 N - 382143.52	GROUND ELEVATION (mAOD) 86.666	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL01
METHOD	CASING	DATE 18/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.30	0.00	D		86.666	(0.20)	0.20	Soft brown sandy SILT with organic odour [Topsoil].			
0.80	0.00	D		86.666	(1.10)	1.10	Soft to firm brown sandy slightly silty CLAY with some subangular to subrounded gravel.			
1.30	0.00	D		86.666	1.30	1.30	Firm blue grey CLAY with some fine to medium subangular to subrounded gravel of mixed lithology.			
1.50	1.95	S	N=13 (1, 2 - 2, 3, 4, 4)	86.666	(0.80)	0.80				
1.50	0.00	SPTLS		86.666						
2.10	0.00	D		85.666	2.10	2.10	Red brown slightly silty SAND with occasional to some fine subrounded gravel of mixed lithology.			
2.50	2.95	S	N=15 (1, 2 - 2, 3, 5, 5)	85.666						
2.50	0.00	SPTLS		85.666						
3.00	0.00	D		84.666	(1.80)	3.00	Very soft red brown very sandy SILT with occasional fine angular to subrounded gravel.			
3.50	3.95	S	N=11 (1, 2 - 2, 2, 3, 4)	84.666						
3.50	0.00	SPTLS		84.666						
4.00	0.00	D		83.666	(0.60)	4.00	Very soft to firm clayey red brown sandy SILT with occasional fine subrounded gravel. Sand content and density increases with depth.			
4.50	4.95	S	N=0 (0, 0 - 0, 0, 0, 0)	83.666						
4.50	0.00	SPTLS		83.666						
5.00	0.00	D		82.666		5.00				
6.00	6.45	S	N=11 (1, 2 - 3, 2, 3, 3)	82.666						
6.00	0.00	SPTLS		82.666						
6.50	0.00	D		80.666	(5.50)	7.00				
7.50	7.95	S	N=2 (1, 0 - 0, 1, 0, 1)	80.666						
7.50	0.00	SPTLS		80.666						
8.00	0.00	D		79.666		8.00				
9.00	9.45	S	N=12 (1, 2 - 2, 3, 4, 3)	79.666						
9.00	0.00	SPTLS		79.666						
9.50	0.00	D		78.666		9.50				
10.00				78.666		10.00				

End of Borehole at 10.00 m

GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS Water added 2.20m bgl to 4.50m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390504.87 N - 381930.03	GROUND ELEVATION (mAOD) 85.575	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL02
METHOD	CASING	DATE 19/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.40	0.00	D		85	(0.30)	0.30	MADE GROUND: Brown sandy silt with organic odour.			
					(1.10)	1	MADE GROUND: Mottled orange brown clay with gravel and occasional lenses of topsoil			
1.50	1.95	S	N=10 (1, 2 - 2, 3, 2, 3)			1.40	Brown silty SAND.			
1.50	0.00	SPTLS			(0.50)					
2.00	0.00	D		84		1.90	Very soft brown thinly laminated slightly silty, slightly sandy CLAY.			
					(0.50)	2				
2.50	2.95	S	N=11 (1, 2 - 2, 3, 3, 3)			2.40	Brown slightly silty medium to coarse SAND of quartz, coal, sandstone and limestone.			
2.50	0.00	SPTLS								
3.00	0.00	D		83						
3.50	3.95	S	N=16 (2, 3 - 4, 3, 4, 5)			(2.50)				
3.50	0.00	SPTLS								
4.00	0.00	D		82		4				
4.50	4.95	S	N=23 (3, 4 - 5, 6, 6, 6)			4.90	Soft brown very sandy SILT.			
4.50	0.00	SPTLS								
5.00	0.00	D		81		5				
5.50	5.95	S	N=8 (1, 1 - 2, 1, 2, 3)			(1.10)				
5.50	0.00	SPTLS								
6.00	0.00	D		80		6	Brown slightly silty medium to coarse SAND with some fine to medium gravel.			
7.00	7.45	S	N=15 (2, 2 - 4, 3, 4, 4)			(1.50)				
7.00	0.00	SPTLS								
7.50	0.00	D		79		7				
7.50	0.00	D		78		7.50	Stiff to very stiff brown thinly laminated slightly sandy SILT with occasional fine angular to subrounded gravel.			
8.50	8.95	S	N=31 (3, 5 - 6, 7, 9, 9)			(2.50)				
8.50	0.00	SPTLS								
9.00	0.00	D		77		9				
9.50	9.95	S	N=36 (4, 6 - 8, 8, 9, 11)							
9.50	0.00	SPTLS								
						10.00	End of Borehole at 10.00 m			

GROUNDWATER		REMARKS	KEY
DEPTH (m)	BEHAVIOUR		
3.10	Rose to 2.60 after 20 mins	Material logged in general accordance with BS EN ISO 14688	<ul style="list-style-type: none"> <li>B - Bulk disturbed sample</li> <li>D - Disturbed samples (plastic tub)</li> <li>G - Disturbed sample (glass jar)</li> <li>DG - Disturbed sample (tub and jar)</li> <li>U - Undisturbed U100 sample</li> <li>W - Water sample</li> <li>S - Standard Penetration Test</li> <li>C - Standard Penetration Test (using cone)</li> </ul>

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390615.20 N - 382739.38	GROUND ELEVATION (mAOD) 86.859	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL03
METHOD	CASING	DATE 16/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.30	0.00	D		86.559	(0.30)	Soft brown sandy SILT with organic odour [Topsoil].			
0.90	0.00	D		86.000	(1.10)	Soft very sandy orange mottled grey CLAY.			
1.50	1.95	S	N=3 (1, 2 - 1, 0, 1, 1)	85.500	1.40	Grey silty medium to coarse SAND with occasional fine gravel. Wood at base of stratum.			
1.50	0.00	SPTLS		85.000	(1.40)				
2.20	0.00	D		84.500	(1.40)	Firm brown sandy SILT / CLAY with fine subangular gravel of mixed lithology.			
2.50	2.95	S	N=10 (2, 1 - 2, 2, 3, 3)	84.000	2.80				
2.50	0.00	SPTLS		83.500	(2.00)	Brown slightly silty medium to coarse SAND with fine subrounded gravel and occasional clay lenses.			
3.20	0.00	D		83.000	(2.00)				
3.50	3.95	S	N=20 (2, 3 - 4, 5, 5, 6)	82.500	4.80	Firm brown silty CLAY with some fine gravel.			
3.50	0.00	SPTLS		82.000	(3.50)				
4.20	0.00	D		81.500	(3.50)	Firm brown silty CLAY with some fine gravel.			
4.50	4.95	S	N=22 (3, 4 - 5, 5, 6, 6)	81.000	7.00				
4.50	0.00	SPTLS		80.500	(1.70)	Firm brown silty CLAY with some fine gravel.			
5.20	0.00	D		80.000	(1.70)				
5.50	5.95	C	N=32 (3, 5 - 7, 8, 8, 9)	79.500		Firm brown silty CLAY with some fine gravel.			
5.50	0.00	SPTLS		79.000					
6.00	0.00	D		78.500		Firm brown silty CLAY with some fine gravel.			
7.00	7.45	S	N=36 (4, 6 - 6, 7, 11, 12)	78.000					
7.00	0.00	SPTLS		77.500		Firm brown silty CLAY with some fine gravel.			
7.60	0.00	D		77.000					
8.50	0.00	D		76.500		Firm brown silty CLAY with some fine gravel.			
9.50	9.95	S	N=43 (3, 5 - 9, 11, 13, 10)	76.000					
9.50	0.00	SPTLS		75.500					

<b>GROUNDWATER</b> DEPTH (m)      BEHAVIOUR 4.80              Rose to 3.61 after 20 mins	<b>REMARKS</b>  Material logged in general accordance with BS EN ISO 14688	<b>KEY</b> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389648.17 N - 382814.37	GROUND ELEVATION (mAOD) 90.906	HOLE DEPTH (m) 25.00	Sheet 1 of 3	BOREHOLE BHR01
METHOD	CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
						(0.40)	MADE GROUND: Concrete			
						0.40	MADE GROUND: Brown sand with gravel of concrete, brick and bitumen.			
1.20	1.65	S	N=21 (4, 6 - 8, 6, 4, 3)	90		1				
1.20	0.00	SPTLS				1.30	Stiff to very stiff brown sandy slightly silty CLAY with subrounded to subangular gravel.			
1.75	0.00	D								
2.00	2.45	S	N=7 (1, 2 - 1, 2, 2, 2)	89		2				
2.00	0.00	SPTLS								
3.00	3.45	S	N=10 (1, 2 - 2, 3, 2, 3)	88		3				
3.00	0.00	SPTLS				(3.70)				
4.00	4.45	S	N=10 (1, 2 - 3, 2, 3, 2)	87		4				
4.00	0.00	SPTLS								
5.00	5.45	S	N=29 (3, 4 - 6, 8, 7, 8)	86		5	Red brown silty medium to coarse SAND with some fine to medium subrounded to rounded gravel. Variable silt content with depth.			
5.00	0.00	SPTLS								
6.50	6.95	S	N=26 (4, 5 - 7, 6, 7, 6)	85		6				
6.50	0.00	SPTLS								
8.00	8.45	S	N=27 (3, 4 - 6, 7, 6, 8)	84		7				
8.00	0.00	SPTLS				(4.30)				
8.00	8.45	S	N=27 (3, 4 - 6, 7, 6, 8)	83		8				
8.00	0.00	SPTLS								
9.50	9.95	S	N=14 (2, 3 - 3, 4, 3, 4)	82		9				
9.50	0.00	SPTLS				9.30	Soft to firm red brown very sandy SILT. Some lenses of grey brown silty sand.			

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<b>GROUNDWATER</b> DEPTH (m)      BEHAVIOUR 13.00      Rose to 11.50 after 20 mins	<b>REMARKS</b>  Material logged in general accordance with BS EN ISO 14688	<b>KEY</b> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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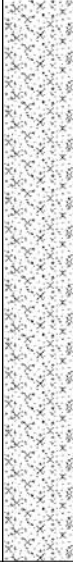


SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389648.17 N - 382814.37	GROUND ELEVATION (mAOD) 90.906	HOLE DEPTH (m) 25.00	Sheet 2 of 3	BOREHOLE BHR01
METHOD	CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
11.00 11.00	11.45 0.00	S SPTLS	N=16 (2, 3 - 4, 3, 4, 5)	80	(3.70)	11	Soft to firm red brown very sandy SILT. Some lenses of grey brown silty sand.			
12.50 12.50	12.95 0.00	S SPTLS	N=14 (3, 4 - 3, 4, 3, 4)	79		12				
13.50 13.50	13.95 0.00	S SPTLS	N=9 (2, 1 - 2, 2, 2, 3)	78	13.00	13	Red brown slightly silty SAND with subangular to subrounded gravel.			
14.50 14.50	14.95 0.00	S SPTLS	N=11 (1, 2 - 3, 2, 3, 3)	77		14				
16.00	0.00	D		76		15				
17.00	0.00	D		75	16.00	16	Firm red brown thinly laminated slightly sandy SILT.			
18.00	0.00	D		74		17				
19.00	0.00	D		73	(3.30)	18				
20.00	0.00	D		72	19.30	19	Red brown silty fine to medium SAND with some subangular gravel of mixed lithology.			

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GROUNDWATER DEPTH (m)      BEHAVIOUR 13.00            Rose to 11.50 after 20 mins	REMARKS  Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389648.17 N - 382814.37	GROUND ELEVATION (mAOD) 90.906	HOLE DEPTH (m) 25.00	Sheet 3 of 3	BOREHOLE BHR01
METHOD	CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
21.00	0.00	D		70		21	Red brown silty fine to medium SAND with some subangular gravel of mixed lithology.			
				(4.70)		22				
22.00	0.00	D		69		22				
23.00	0.00	D		68		23				
				24.00		24	Firm red brown very sandy thinly laminated SILT.			
				(1.00)		25				
				25.00		25	End of Borehole at 25.00 m			
				66		26				
				65		27				
				64		28				
				63		29				
				62						


GROUNDWATER DEPTH (m)      BEHAVIOUR 13.00            Rose to 11.50 after 20 mins	<b>REMARKS</b>  Material logged in general accordance with BS EN ISO 14688	<b>KEY</b> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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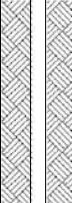



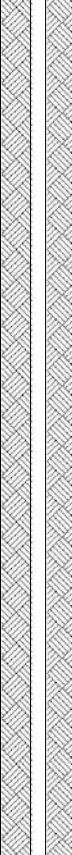
SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 1 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.45		N=0 (0, 0 - 0, 0, 0, 0)		(0.25)		MADE GROUND: Concrete			
0.30	0.00	D			0.25		MADE GROUND: Brown sand with gravel of concrete, brick and bitumen.			
0.60	0.00	D								
					(1.15)	1				
1.50	1.95	S	N=13 (1, 2 - 3, 3, 4, 3)		1.40		Soft black sandy SILT with some subangular gravel.			
1.50	0.00	SPTLS								
2.00	0.00	D			(0.90)	2				
					2.30		Firm brown slightly sandy CLAY with some fine to medium subrounded gravel			
2.50	2.95	S	N=15 (2, 3 - 3, 4, 3, 5)							
2.50	0.00	SPTLS								
3.00	0.00	D				3				
3.50	3.95	S	N=28 (4, 5 - 6, 7, 7, 8)							
3.50	0.00	SPTLS								
4.00	0.00	D				4				
4.50	4.95	S	N=25 (3, 5 - 5, 6, 7, 7)							
4.50	0.00	SPTLS								
5.00	0.00	D				5				
5.50	5.95	S	N=24 (3, 4 - 5, 6, 6, 7)							
5.50	0.00	SPTLS								
6.00	0.00	D			(7.00)	6				
7.00	7.45	S	N=28 (4, 5 - 6, 7, 7, 8)							
7.00	0.00	SPTLS				7				
7.50	0.00	D				8				
8.50	8.95	S	N=21 (3, 4 - 4, 5, 6, 6)							
8.50	0.00	SPTLS				9				
9.00	0.00	D					Soft orange brown sandy SILT.			
9.30	0.00	D			9.30					
10.00	10.45	S	N=14 (2, 3 - 3, 4, 3, 4)							
10.00	0.00	SPTLS								

GROUNDWATER		REMARKS	KEY
DEPTH (m)	BEHAVIOUR		
		Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	<ul style="list-style-type: none"> <li>B - Bulk disturbed sample</li> <li>D - Disturbed samples (plastic tub)</li> <li>G - Disturbed sample (glass jar)</li> <li>DG - Disturbed sample (tub and jar)</li> <li>U - Undisturbed U100 sample</li> <li>W - Water sample</li> <li>S - Standard Penetration Test</li> <li>C - Standard Penetration Test (using cone)</li> </ul>
		Material logged in general accordance with BS EN ISO 14688	BAE Cable Percussion Log v1.4



SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 2 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
10.50	0.00	D				(2.20)	Soft orange brown sandy SILT.			
11.50	11.95	S	N=7 ( 1, 0 - 1, 2, 2, 2)	11.50		11				
11.50	0.00	SPTLS				80				
12.00	0.00	D				12	Soft orange brown very sandy SILT with fine subrounded gravel. Variable sand content with depth.			
13.00	13.45	S	N=1 ( 1, 0 - 0, 1, 0, 0)			13				
13.00	0.00	SPTLS				78				
13.50	0.00	D				14				
14.50	14.95	S	N=12 ( 1, 2 - 3, 3, 2, 4)	14.60		15				
14.50	0.00	SPTLS				76	Firm red brown thinly laminated very sandy SILT with fine to medium subrounded gravel.			
15.00	0.00	D				16				
16.00	0.00	D				17				
17.00	0.00	D				18				
18.00	0.00	D				19				
19.00	0.00	D				72				

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GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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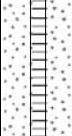

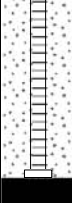

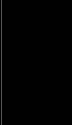



SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 3 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
20.60	0.00	D		20.60			Firm red brown thinly laminated very sandy SILT with fine to medium subrounded gravel.			
21.00	0.00	D		21.00	(0.40)	21	Brown sandy subangular to subrounded GRAVEL of mixed lithology.			
22.00	0.00	D		22.00		22	Red brown slightly silty SAND with some fine subrounded gravel of coal.			
23.00	0.00	D		23.00		23				
24.00	0.00	D		24.00		24				
26.00	0.00	D		26.00		26	Red brown very sandy SILT with some fine subrounded gravel of coal.			
28.50	0.00	D		28.50	(5.70)	29				

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GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 4 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
31.50	0.00	D		59 31.40		31	Red brown very sandy SILT with some fine subrounded gravel of coal.			
				(1.30) 32		58 32.70	Red brown medium to coarse SAND with some fine to medium gravel.			
33.50	0.00	D		(0.80) 33		57 33.50	Stiff brown sandy slightly silty CLAY with fine to medium gravel.			
				(0.50) 34		56 34.00	Red brown slightly silty medium to coarse SAND with fine subrounded to rounded gravel.			
							End of Borehole at 34.00 m			

GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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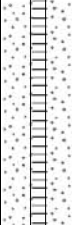

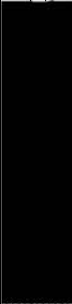


SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389765.49 N - 382461.52	GROUND ELEVATION (mAOD) 88.523	HOLE DEPTH (m) 27.00	Sheet 2 of 3	BOREHOLE BHR03
METHOD	CASING	DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL	
10.50	0.00	D				Soft to firm thinly laminated brown clayey slightly sandy SILT. Clay content is variable with depth.				
11.50	11.95	S	N=28 (4, 8 - 7, 6, 7, 8)	77	11					
11.50	0.00	D								
12.00	0.00	D		76	12					
13.00	13.45	S	N=15 (2, 3 - 3, 4, 3, 5)	75	(6.50) 13					
13.00	0.00	D								
13.50	0.00	D		74	14					
14.50	14.95	S	N=20 (2, 4 - 4, 5, 6, 5)	73	15					
14.50	0.00	D								
15.00	0.00	D		72	16					
16.50	0.00	D		71	17	Red brown very silty SAND with some to much fine subangular gravel of mixed lithology. Silt content decreases with depth.				
17.50	0.00	D		70	(3.50) 18					
18.50	0.00	D		69	19					
19.50	0.00	D		19.80		Firm to stiff sandy SILT with occasional				


GROUNDWATER		REMARKS	KEY
DEPTH (m)	BEHAVIOUR		
16.30	Rose to 14.45 after 20 mins	Water added between 2.0m bgl and 9.0m bgl	<ul style="list-style-type: none"> <li>B - Bulk disturbed sample</li> <li>D - Disturbed samples (plastic tub)</li> <li>G - Disturbed sample (glass jar)</li> <li>DG - Disturbed sample (tub and jar)</li> <li>U - Undisturbed U100 sample</li> <li>W - Water sample</li> <li>S - Standard Penetration Test</li> <li>C - Standard Penetration Test (using cone)</li> </ul>







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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389765.49 N - 382461.52	GROUND ELEVATION (mAOD) 88.523	HOLE DEPTH (m) 27.00	Sheet 3 of 3	BOREHOLE BHR03
METHOD	CASING	DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
20.50	0.00	D					some fine subrounded gravel.			
21.50	0.00	D		67		21				
22.50	0.00	D		66		22	Firm to stiff brown slightly sandy SILT.			
23.50	0.00	D		65		23				
25.00	0.00	D		64		24				
26.00	0.00	D		63		25				
				62		26	Soft brown thinly laminated sandy SILT.			
				61		27	End of Borehole at 27.00 m			
				60		28				
				59		29				



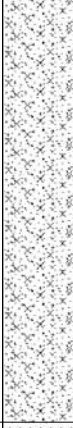

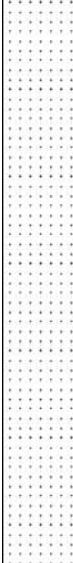
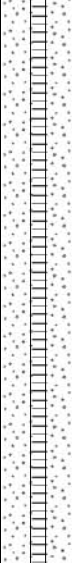
<b>GROUNDWATER</b> DEPTH (m)      BEHAVIOUR 16.30            Rose to 14.45 after 20 mins	<b>REMARKS</b> Water added between 2.0m bgl and 9.0m bgl  Material logged in general accordance with BS EN ISO 14688	<b>KEY</b> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 1 of 3	BOREHOLE BHR04
METHOD	CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.45		N=0 ( 0, 0 - 0, 0, 0, 0 )			(0.40)	Brown sandy SILT with organic odour [Topsoil]			
						0.40	Soft light brown thinly laminated silty CLAY with some sand lenses.			
				89		1				
						(2.10)				
				88		2				
						2.50	Grey slightly silty SAND with subangular to subrounded gravel.			
				87		3				
						(2.90)				
				86		4				
						5				
				85		5				
						5.40	Stiff brown sandy slightly silty CLAY with gravel.			
				84		6				
						6.70	Red brown SAND.			
				83		7				
						(2.60)				
				82		8				
						9				
				81		9				
						9.30	Firm to stiff red brown slightly silty sandy CLAY with subangular to subrounded gravel.			
						(0.70)				
				10.00			Continued next sheet			

GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS  Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 2 of 3	BOREHOLE BHR04
METHOD	CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
				79		11	Firm brown laminated slightly silty CLAY with			
				78	(3.70)	12				
				77		13				
				76		14	Red brown slightly silty SAND with subangular to subrounded gravel [Weathered Sandstone]			
				75	(2.80)	15				
				74		16				
				73		17	Sherwood SANDSTONE [Sherwood Sandstone]			
				72		18				
				71	(5.30)	19				

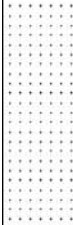
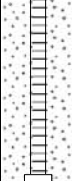
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GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS  Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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




SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 3 of 3	BOREHOLE BHR04
METHOD	CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

<b>SAMPLES &amp; TESTS</b>				<b>STRATA</b>			
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TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
				69		21	Sherwood SANDSTONE [Sherwood Sandstone]  End of Borehole at 21.80 m			
				21.80		22				
				68		23				
				67		24				
				66		25				
				65		26				
				64		27				
				63		28				
				62		29				
				61						


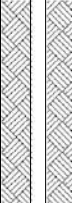










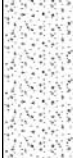

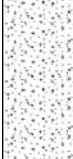

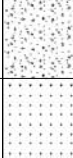

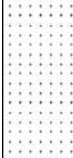
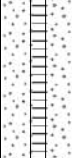
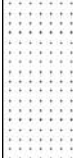
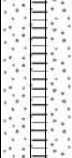


GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS  Material logged in general accordance with BS EN ISO 14688	KEY <ul style="list-style-type: none"> <li>B - Bulk disturbed sample</li> <li>D - Disturbed samples (plastic tub)</li> <li>G - Disturbed sample (glass jar)</li> <li>DG - Disturbed sample (tub and jar)</li> <li>U - Undisturbed U100 sample</li> <li>W - Water sample</li> <li>S - Standard Penetration Test</li> <li>C - Standard Penetration Test (using cone)</li> </ul>
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389168.62 N - 381814.12	GROUND ELEVATION (mAOD) 87.975	HOLE DEPTH (m) 23.00	Sheet 1 of 3	BOREHOLE BHR05
METHOD	CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.00					(0.30)	Soft brown sandy SILT with organic odour [Topsoil].			
0.40	0.00	D		87		0.30	Soft brown mottled grey sandy CLAY with slight organic odour.			
1.10	0.00	D				1				
1.50	1.95	S	N=17 (1, 2 - 3, 5, 4, 5)			1.90				
1.50	0.00	D								
2.00	0.00	D		86		2	Red brown slightly silty SAND with occasional fine subrounded to subangular gravel of mixed lithology.			
2.50	2.95	S	N=21 (2, 3 - 5, 5, 6, 5)							
2.50	0.00	D								
3.00	0.00	D		85		3				
3.50	3.95	S	N=23 (2, 4 - 5, 5, 6, 7)			(3.70)				
3.50	0.00	D								
4.00	0.00	D		84		4				
4.50	4.95	S	N=24 (3, 6 - 5, 6, 6, 7)							
4.50	0.00	D								
5.00	0.00	D		83		5				
5.50	5.95	S	N=10 (1, 2 - 2, 3, 2, 3)			5.60				
5.50	0.00	D				(0.60)	Very soft red brown sandy SILT with occasional fine to medium subangular to subrounded gravel.			
6.20	0.00	D		82		6.20	Soft orange brown thinly lamiated sandy slightly silty CLAY with much fine angular to subrounded gravel.			
7.00	7.45	S	N=22 (2, 4 - 5, 5, 6, 6)			(1.40)				
7.00	0.00	D								
7.80	0.00	D		80		7.60	Soft red brown thinly laminated very sandy SILT.			
8.50	8.95	S	N=12 (2, 2 - 3, 2, 3, 4)			(1.30)				
8.50	0.00	D								
9.00	0.00	D		79		8.90	Red brown sandy SILT with occasional fine gravel of coal and quartz. Sand content variable with depth.			
10.00	10.45	S	N=19 (2, 3 - 4, 4, 5, 6)							
10.00	0.00	D								

GROUNDWATER DEPTH (m)      BEHAVIOUR		REMARKS Water added from 2.0m bgl to 18.0m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
		Material logged in general accordance with BS EN ISO 14688	BAE Cable Percussion Log v1.4

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389168.62 N - 381814.12	GROUND ELEVATION (mAOD) 87.975	HOLE DEPTH (m) 23.00	Sheet 2 of 3	BOREHOLE BHR05
METHOD	CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
10.50	0.00	D				(2.60)	Red brown sandy SILT with occasional fine gravel of coal and quartz. Sand content variable with depth.			
11.50 11.50	11.95 0.00	S D	N=41 (4, 6 - 9, 9, 11, 12)	11.50		11	Very soft to stiff brown sandy silty CLAY.			
12.00	0.00	D				12				
13.00 13.00	13.45 0.00	S D	N=28 (3, 5 - 6, 6, 7, 9)			(3.20)				
13.50	0.00	D				13				
14.50 14.50	14.95 0.00	S D	N=34 (3, 5 - 6, 9, 9, 10)	14.70		14				
15.10	0.00	D				15	Dark red brown medium to coarse SAND with some medium angular gravel of Sandstone [Weathered Sherwood Sandstone].			
16.00	0.00	D				(2.80)				
17.00	0.00	D				17				
						17.50	Red brown SANDSTONE [Sherwood Sandstone].			
						18				
						19				
						(5.50)				


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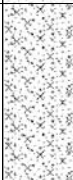

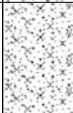

GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS Water added from 2.0m bgl to 18.0m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		<b>BAE SYSTEMS</b>	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389168.62 N - 381814.12	GROUND ELEVATION (mAOD) 87.975	HOLE DEPTH (m) 23.00	Sheet 3 of 3	BOREHOLE BHR05
METHOD	CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
							Red brown SANDSTONE [Sherwood Sandstone].			
				21						
				67						
				22						
				66						
				23.00		23	End of Borehole at 23.00 m			
				65						
				24						
				64						
				25						
				63						
				26						
				62						
				27						
				61						
				28						
				60						
				29						
				59						


GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS Water added from 2.0m bgl to 18.0m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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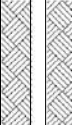
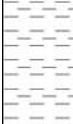
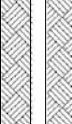
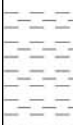

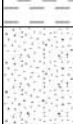



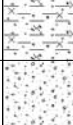
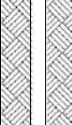
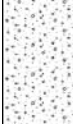

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mAOD) 84.546	HOLE DEPTH (m) 30.00	Sheet 1 of 3	BOREHOLE BHR06
METHOD	CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
1.00	0.00	D		84	(0.40)	1	MADE GROUND: Brown sandy silt with organic odour.			
					(0.30)		MADE GROUND: Brown sandy silt with angular to subangular gravel of concrete and brick.			
					(1.00)		Firm orange brown mottled grey sandy CLAY.			
2.00	0.00	D		83	1.70	2	Soft orange brown very sandy SILT.			
3.00	0.00	D		82	(1.00)	3	Medium to coarse slightly silty SAND with occasional fine subangular gravel of mixed lithology.			
4.00	0.00	D		81	(3.10)	4				
5.00	0.00	D		80		5				
6.00	0.00	D		79	5.80	6	Soft to firm brown silty CLAY with some fine gravel.			
7.00	0.00	D		78	(0.90)	7	Brown silty SAND with subrounded to rounded gravel of mixed lithology.			
8.00	0.00	D		77	(0.80)	8	Firm brown thinly laminated silty slightly sandy CLAY with occasional to some subrounded gravel of mixed lithology.			
9.00	0.00	D		76	7.50	9				
10.00	0.00	D			(3.50)					

Continued next sheet

GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mAOD) 84.546	HOLE DEPTH (m) 30.00	Sheet 2 of 3	BOREHOLE BHR06
METHOD	CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
11.00	0.00	D		73		11	Firm brown thinly laminated silty slightly sandy CLAY with occasional to some subrounded gravel of mixed lithology.			
12.00	0.00	D		72	(2.00)	12	Firm thinly laminated brown CLAY.			
13.00	0.00	D		71		13	Red brown SAND.			
14.00	0.00	D		70	(1.40)	14				
14.50	0.00	D		70		14	Firm brown silty CLAY with some fine gravel.			
15.50	0.00	D		69		15	Brown sandy subangular to subrounded GRAVEL of mixed lithology.			
16.50	0.00	D		68	(1.80)	16				
17.00	0.00	D		67		17	Red brown fine to medium SAND with much subrounded to subangular gravel.			
18.00	0.00	D		66	(2.10)	18				
19.00	0.00	D		65		19	Firm grey brown clayey sandy SILT with subrounded to subangular gravel.			
20.00	0.00	D		65	(1.60)	19				

Continued next sheet

GROUNDWATER DEPTH (m)      BEHAVIOUR	REMARKS  Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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