

Figure 2: Exploratory Hole Location Plan



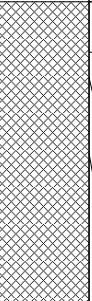
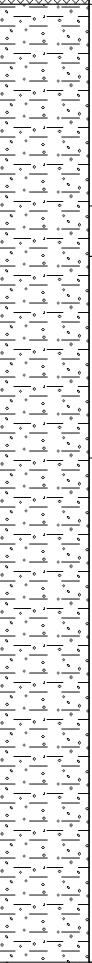
A summary of exploratory holes undertaken during the investigation is presented in Table 2.

Table 2: Summary of Exploratory Holes Undertaken

Hole	Type*	Depth (m)	Date Started	Date Finished	Backfill Details***
WS01	WS	5.00	19/11/2024	19/11/2024	A
WS02	WS	5.00	19/11/2024	19/11/2024	A
WS03	WS	5.00	19/11/2024	19/11/2024	A
WS04	WS	5.00	19/11/2024	19/11/2024	A
WS05	WS	5.00	19/11/2024	19/11/2024	A
WS06	WS	5.00	19/11/2024	19/11/2024	A
TP01	TP	1.70	26/11/2024	26/11/2024	A
*WS = Window Sample Borehole, TP = Trial Pit, **A = Arisings					

Window Sample Log

Project Name: Radstock C of E School		Client: Thames Valley Surveying Ltd		Date: 19/11/2024	
Location: Radstock Lane, Earley, Reading, RG6 5UZ		Contractor: PM Sampling		Co-ords: E474629.00 N170499.00	
Project No. : R4319		Crew Name: DA		Drilling Equipment: Dart Competitor	
Borehole Number WS01	Hole Type WS	Level	Logged By AT	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20			MADE GROUND: MACADAM	
					0.30			MADE GROUND: Pinkish grey sandy angular to subangular fine to coarse GRAVEL of limestone. Sand is fine to coarse.	
		0.45	ES					MADE GROUND: Brown gravelly slightly clayey fine to coarse SAND. Gravel is angular to subangular fine to coarse flint, brick and concrete. Rare fragments of wood. Rare cobbles of angular concrete/paving slab.	
		0.70	ES		0.60			MADE GROUND: Soft grey gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse fine to coarse flint and brick. Sand is fine to coarse.	1
		1.00	D						
		1.20	SPT	N=6 (1,1/1,1,2,2)	1.20			Soft grey slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint. Organic odour. (LONDON CLAY FORMATION)	
		2.00	D					becomes firm at 2mbgl.	2
		2.00	SPT	N=9 (2,2/2,2,2,3)	2.20			Firm brown slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium flint. (LONDON CLAY FORMATION)	
		3.00	D					becomes stiff at 3mbgl.	3
		3.00	SPT	N=19 (2,2/4,4,5,6)					
		4.00	D						4
		4.00	SPT	N=13 (2,2/3,3,3,4)					
		5.00	D		5.00				5
		5.00	SPT	N=20 (3,3/4,4,6,6)				End of Borehole at 5.000m	
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Hole location scanned with CAT. 2. Borehole terminated at the target depth of 5mbgl. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.										 EARTH ENVIRONMENTAL & GEOTECHNICAL
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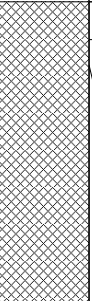
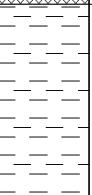
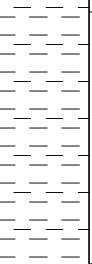
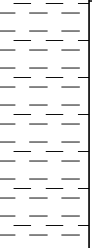
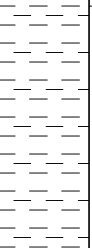
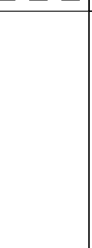
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15			MADE GROUND: MACADAM	
		0.40	ES		0.30			MADE GROUND: Pinkish grey sandy angular to subangular fine to coarse GRAVEL of limestone. Sand is fine to coarse. Soft grey gravelly sandy CLAY. Sand is fine to coarse. (LONDON CLAY FORMATION)	
		0.70	ES						
		1.20	D		1.00			Soft brown slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium flint. (LONDON CLAY FORMATION)	1
		1.20	SPT	N=7 (1,2/2,1,2,2)					
		2.00	D						2
		2.00	SPT	N=12 (2,2/3,2,3,4)				becomes firm at 2mbgl.	
								becomes brown mottled grey at 2.3mbgl.	
		3.00	D						3
		3.00	SPT	N=16 (3,3/3,4,4,5)				becomes stiff at 3mbgl.	
		4.00	SPT	N=16 (2,3/4,3,4,5)				4	
		4.50	D						
		5.00	SPT	N=24 (4,5/6,6,6,6)	5.00			5	
							End of Borehole at 5.000m		
								6	

[illegible]

1. Hole location scanned with CAT. 2. Borehole terminated at the target depth of 5m bgl. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.

Window Sample Log

Project Name: Radstock C of E School		Client: Thames Valley Surveying Ltd		Date: 19/11/2024	
Location: Radstock Lane, Earley, Reading, RG6 5UZ		Contractor: PM Sampling		Co-ords: E474629.00 N170508.00	
Project No. : R4319		Crew Name: DA		Drilling Equipment: Dart Competitor	
Borehole Number WS03	Hole Type WS	Level	Logged By AT	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15 0.25			0.15 0.25			MADE GROUND: MACADAM	
		0.30 - 0.50	ES					MADE GROUND: Pinkish grey sandy angular to subangular fine to coarse GRAVEL of limestone. Sand is fine to coarse. MADE GROUND: Soft brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse brick, quartzite and flint. Sand is fine to coarse.	1
		1.00 - 1.20	ES						
		1.20 - 1.40 1.20	ES SPT	N=7 (1,1/2,1,2,2)	1.20			Soft brownish grey CLAY. (LONDON CLAY FORMATION)	
		2.00	SPT	N=11 (2,2/2,3,3,3)				becomes firm at 2mbgl.	2
		3.00	SPT	N=18 (3,4/4,4,5,5)	3.00			Stiff grey mottled orange CLAY. (LONDON CLAY FORMATION)	3
		4.00	SPT	N=18 (3,3/4,4,5,5)				becomes grey at 4mbgl.	4
		5.00	SPT	N=23 (4,5/5,5,6,7)	5.00			End of Borehole at 5.000m	5
									6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Hole location scanned with CAT. 2. Borehole terminated at the target depth of 5mbgl. 3. Groundwater was encountered at 3.1mbgl. 4. Hole backfilled with arisings.										 EARTH ENVIRONMENTAL & GEOTECHNICAL
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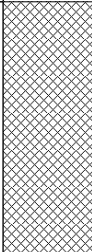
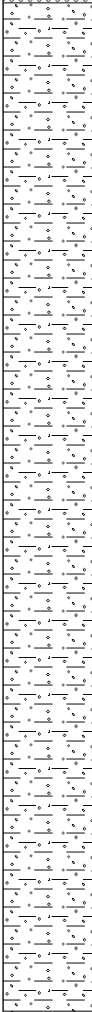
Window Sample Log

Project Name: Radstock C of E School		Client: Thames Valley Surveying Ltd		Date: 19/11/2024	
Location: Radstock Lane, Earley, Reading, RG6 5UZ		Contractor: PM Sampling		Co-ords: E474635.00 N170514.00	
Project No. : R4319		Crew Name: DA		Drilling Equipment: Dart Competitor	
Borehole Number WS04	Hole Type WS	Level	Logged By AT	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15			MADE GROUND: MACADAM	
		0.30	ES		0.45			MADE GROUND: Pinkish grey sandy angular to subangular fine to coarse GRAVEL of limestone. Sand is fine to coarse. Rare cobbles of angular brick.	
		0.70	ES		1.00			MADE GROUND: Soft brown gravelly sandy CLAY. Gravel is angular to subangular of concrete, brick and flint.	
		1.20	D					Soft brownish grey slightly gravelly CLAY. Gravel is angular to subrounded fine to medium flint. (LONDON CLAY FORMATION)	1
		1.20	SPT	N=7 (2,2/2,1,2,2)					
		2.00	D						
		2.00	SPT	N=9 (2,2/2,2,2,3)					2
		3.00	D						
		3.00	SPT	N=16 (3,3/3,3,5,5)					3
		4.00	SPT	N=21 (4,4/4,5,5,7)					4
		5.00	D		5.00				5
		5.00	SPT	N=27 (5,5/6,6,7,8)					
								End of Borehole at 5.000m	6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks 1. Hole location scanned with CAT. 2. Borehole terminated at the target depth of 5mbgl. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.										 EARTH ENVIRONMENTAL & GEOTECHNICAL
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		Window Sample Log									
Project Name: Radstock C of E School				Client: Thames Valley Surveying Ltd				Date: 19/11/2024			
Location: Radstock Lane, Earley, Reading, RG6 5UZ				Contractor: PM Sampling				Co-ords: E474631.00 N170523.00			
Project No. : R4319				Crew Name: DA				Drilling Equipment: Dart Competitor			
Borehole Number WS05		Hole Type WS		Level		Logged By AT		Scale 1:30		Page Number Sheet 1 of 1	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		0.30	ES		0.15			MADE GROUND: MACADAM		1	
					0.45			MADE GROUND: Pinkish grey sandy angular to subangular fine to coarse GRAVEL of limestone. Sand is fine to coarse. Rare cobbles of angular brick.			
					1.00			MADE GROUND: Soft brown CLAY. Rare timber fragments.			
		1.20	D SPT	N=8 (1,2/2,2,2,2)	1.00		Firm brownish grey slightly gravelly CLAY. Gravel is angular to subrounded fine to medium flint. (LONDON CLAY FORMATION)				
		1.20									
		2.00	D SPT	N=10 (2,2/2,3,2,3)				2			
		2.00									
		3.00	D SPT	N=17 (3,3/4,4,4,5)		becomes stiff at 3mbgl.		3			
		3.00									
		4.00	SPT	N=19 (4,5/5,4,5,5)				4			
4.50	D										
5.00		SPT	N=25 (5,6/6,6,6,7)	5.00	End of Borehole at 5.000m		5				
				6							
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
Remarks											
1. Hole location scanned with CAT. 2. Borehole terminated at the target depth of 5mbgl. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.											

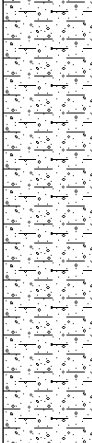
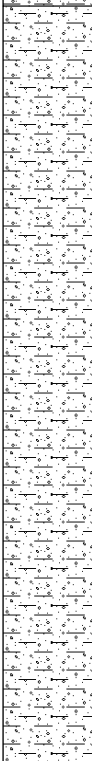
Window Sample Log

Project Name: Radstock C of E School		Client: Thames Valley Surveying Ltd		Date: 19/11/2024	
Location: Radstock Lane, Earley, Reading, RG6 5UZ		Contractor: PM Sampling		Co-ords: E474644.00 N170514.00	
Project No. : R4319		Crew Name: DA		Drilling Equipment: Dart Competitor	
Borehole Number WS06	Hole Type WS	Level	Logged By AT	Scale 1:30	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.15 0.25 0.35			MADE GROUND: MACADAM MADE GROUND: Pinkish grey sandy angular to subangular fine to coarse GRAVEL of limestone. Sand is fine to coarse. Rare cobbles of angular brick. MADE GROUND: Brown sandy angular to subangular fine to medium GRAVEL of brick, flint and concrete. Sand is fine to coarse. MADE GROUND: Brown gravelly slightly clayey fine to coarse SAND. Gravel is angular to subangular fine to coarse flint, brick and concrete.	1
		1.20	SPT	N=12 (1,2/3,2,3,4)					
		1.60	ES		1.50 1.70				
		2.00 2.00	D SPT	N=13 (2,2/3,3,3,4)				Medium dense brown sandy angular to subangular fine to coarse GRAVEL of flint. Sand is fine to coarse. (LONDON CLAY FORMATION) Firm brownish grey slightly gravelly CLAY. Gravel is angular to subrounded fine to medium flint. (LONDON CLAY FORMATION)	2
		3.00 3.00	D SPT	N=18 (3,4/4,4,5,5)				becomes stiff at 3mbgl.	3
		4.00 4.00	D SPT	N=22 (4,4/5,5,6,6)					4
		5.00	SPT	N=29 (5,6/6,7,8,8)	5.00				5
								End of Borehole at 5.000m	6

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
1. Hole location scanned with CAT. 2. Borehole terminated at the target depth of 5mbgl. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.

		Trial Pit Log									
Project Name: Radstock C of E School				Client: Thames Valley Surveying Ltd			Date: 26/11/2024				
Location: Radstock Lane, Earley, Reading, RG6 5UZ				Contractor: PM Sampling			Co-ords: E474646.00 N170532.00				
Project No. : R4319				Crew Name: PN			Equipment: Hitachi 3tonne				
Location Number TP01		Location Type TP		Level		Logged By FL		Scale 1:10		Page Number Sheet 1 of 1	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					0.10			Grass over TOPSOIL: Soft dark brown slightly gravelly slightly sandy clay with frequent rootlets. Gravel is angular to subrounded fine to medium of flint and china. Sand is fine to coarse.		1	
								Soft to firm dark brown slightly gravelly sandy CLAY with infrequent rootlets. Gravel is angular to subrounded fine to medium of flint. Sand is fine to coarse. (LONDON CLAY FORMATION)			
									Firm grey mottled orange slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to medium of flint. Sand is fine to coarse. (LONDON CLAY FORMATION)		
					0.70						
					1.70			End of Borehole at 1.700m		2	
Dimensions		Trench Support and Comment				Pumping Data					
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks			Date	Rate	Remarks		
2.70	0.50										
Remarks Trial Pit location was scanned using a Cable Avoidance Tool (CAT) prior to excavation. Excavation was monitored by an EEGSL engineer throughout. Hole was excavated to 1.70mbgl. Groundwater seepage was encountered at 1.00mbgl. Hole was backfilled with arisings immediately on completion of in-situ soakaway testing.											



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SOAKAWAY TEST

(To: BRE 365 2016)

Job No: R4319
Site: Radstock School, Reading
Client: Radstock School

Location Reference:

Date
Geology in test section
Depth to Base of Hole
Effective Depth
Hole Width
Hole Length
Depth to water at start of test below ground level
Depth to water at end of test below ground level
Effective storage depth to 75% full
(Depth below GL)
Effective storage depth to 50% full
(Depth below GL)
Effective storage depth to 25% full
(Depth below GL)
Height to 50% depth
Effective Storage Volume Vp75-25
Time tp25 at which water is 75% of effective depth (minutes)
Time tp25 at which water is 25% of effective depth (minutes)
Time for water level to fall between Vp75 -25
Time for water level to fall between Vp75 -25
Internal surface area of hole up to 50% depth including base
Soil Infiltration Rate, f

TP01	Test 1
26/11/2024	
sl gravelly sl sandy CLAY	
1.70	m
0.92	m
0.50	m
2.70	m
0.78	m
-	m
0.69	m
1.01	m
0.46	m
1.24	m
0.23	m
1.47	m
0.46	m3
1.24	m3
-	mins
-	mins
-	mins
-	secs
6.79	m2
-	m/s

Time Elapsed (mins:sec)	Depth of Water below GL (m)	Measured Data
0.00	0.780	
1.00	0.780	
2.00	0.780	
3.00	0.780	
4.00	0.780	
5.00	0.780	
7.00	0.780	
10.00	0.780	
15.00	0.770	
30.00	0.760	
45.00	0.750	
60.00	0.740	
90.00	0.720	
120.00	0.710	
150.00	0.695	
180.00	0.690	
210.00	0.680	
240.00	0.670	

