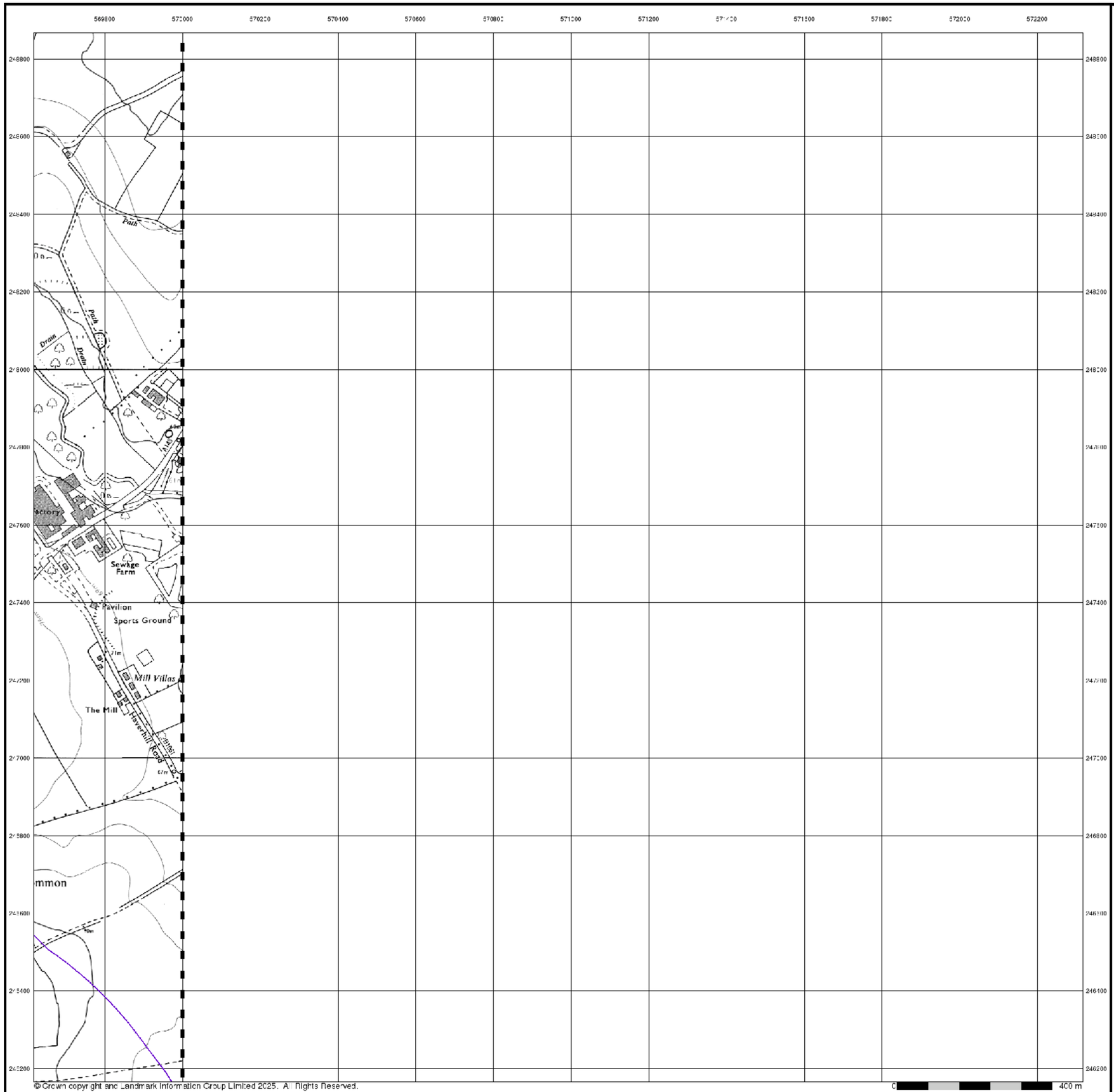

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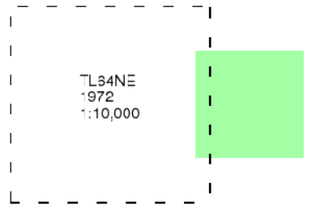
Ordnance Survey Plan

Published 1972

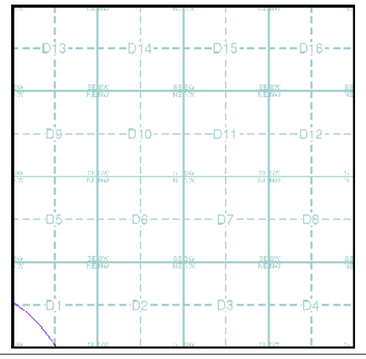
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

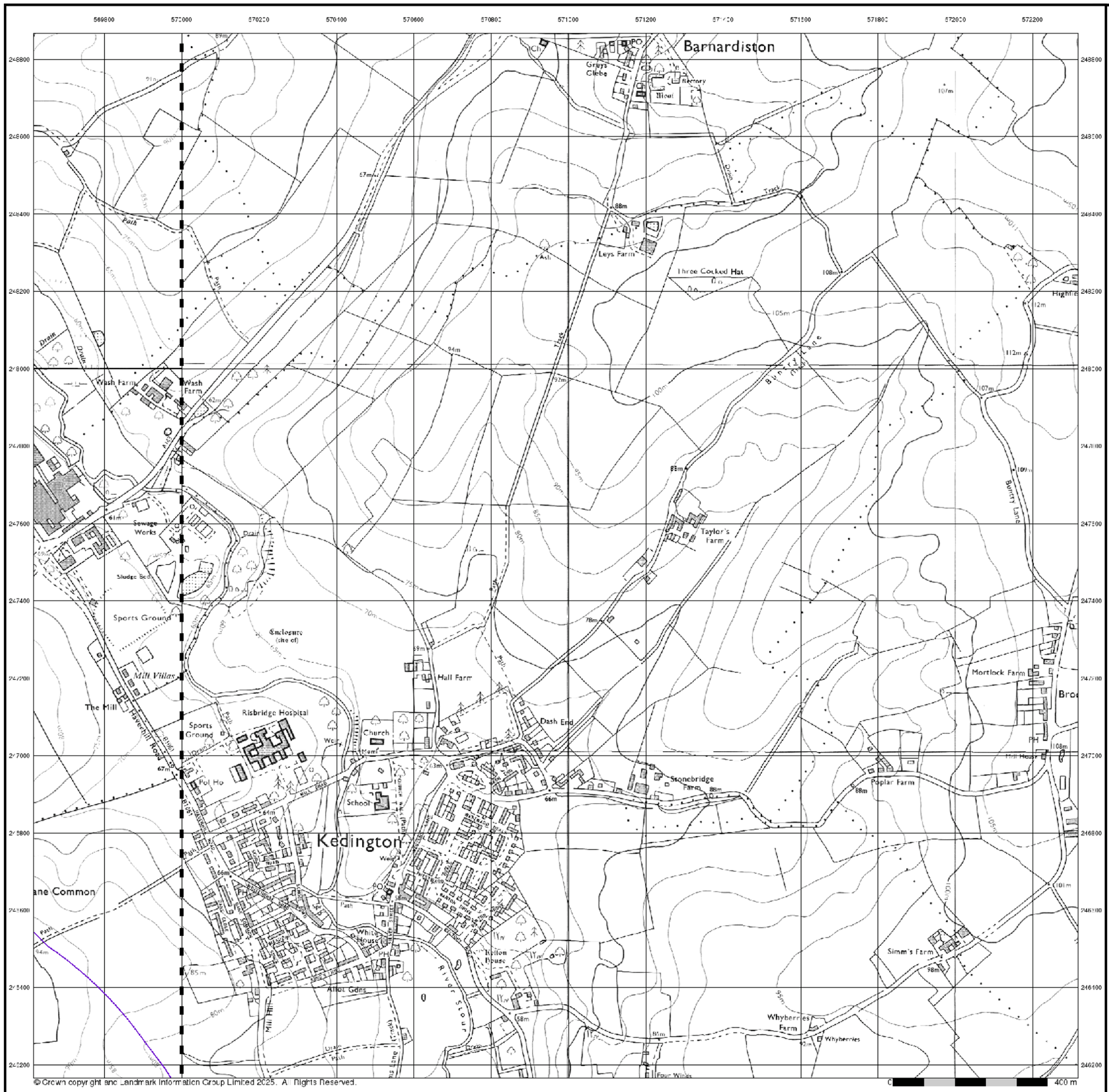
Order Number:	367983655_1_1
Customer Ref:	9081,GI
National Grid Reference:	569740, 246300
Slice:	D
Site Area (Ha):	22.
Search Buffer (m):	1000

Site Details

Phase 2, Great Wilsey Park, Haverhill, Suffolk, CB9 7UN

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ordnance Survey Plan

Published 1981 - 1985

Source map scale - 1:10,000

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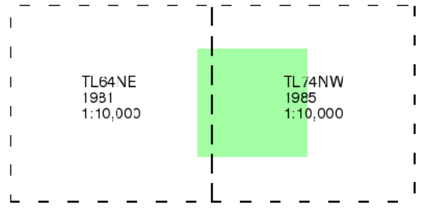
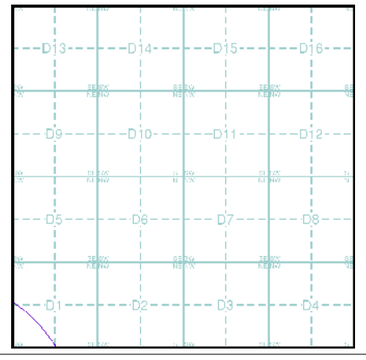
Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	367983655_1_1
Customer Ref:	9081,GI
National Grid Reference:	569740, 246300
Slice:	D
Site Area (Ha):	22.
Search Buffer (m):	1000

Site Details

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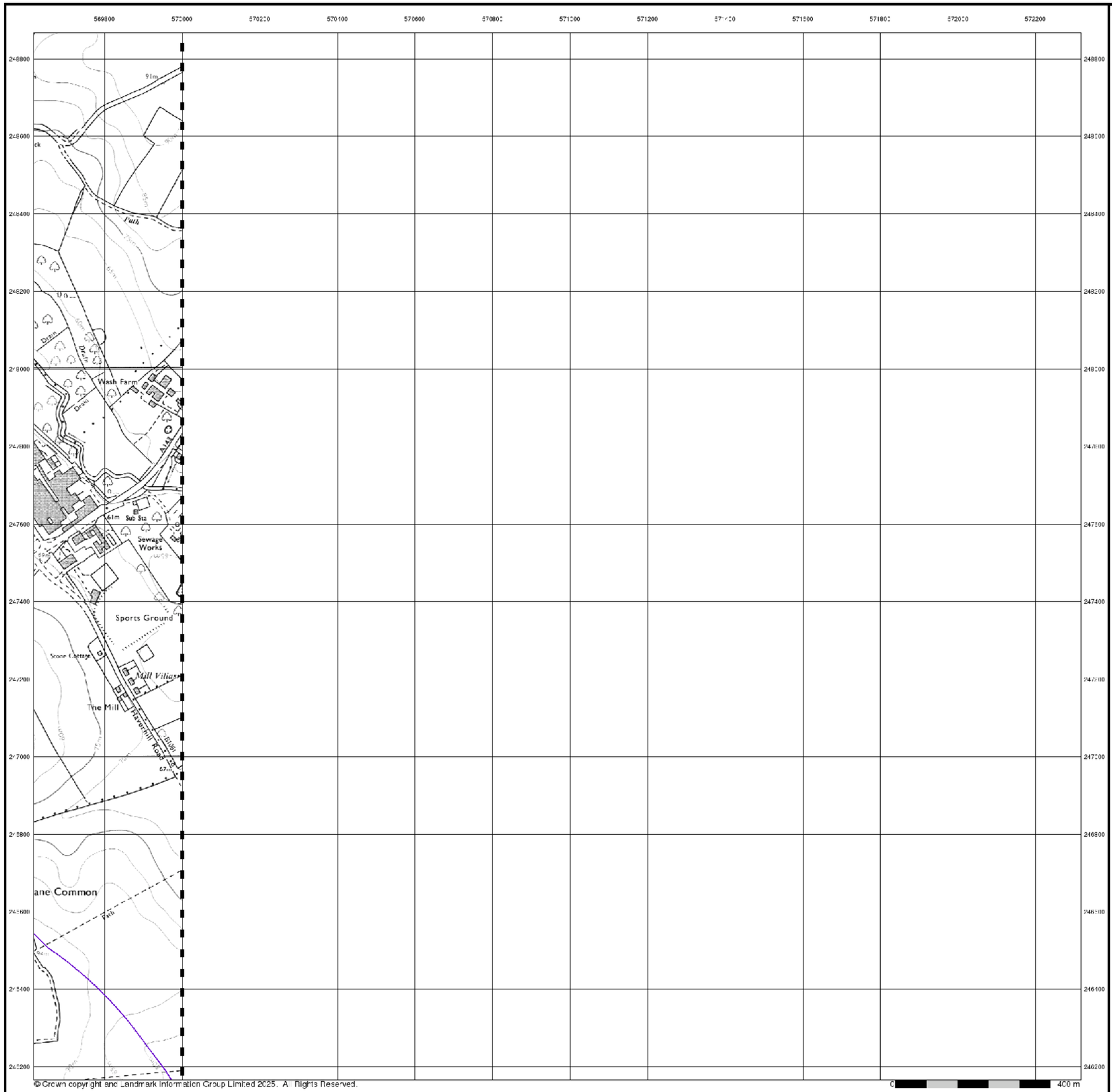

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LANDMARK INFORMATION GROUP®

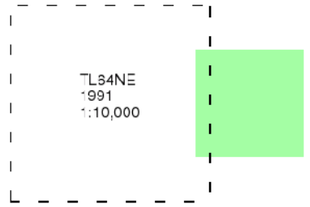
Ordnance Survey Plan

Published 1991

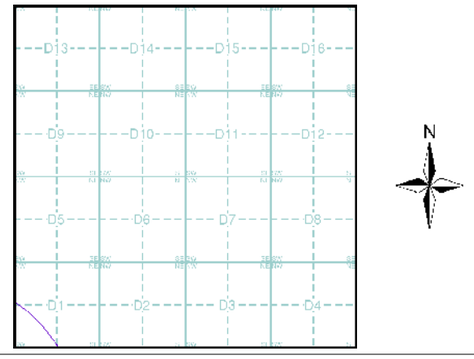
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	367983655_1_1
Customer Ref:	9081,GI
National Grid Reference:	569740, 246300
Slice:	D
Site Area (Ha):	22.
Search Buffer (m):	1000

Site Details

Phase 2, Great Wilsey Park, Haverhill, Suffolk, CB9 7UN

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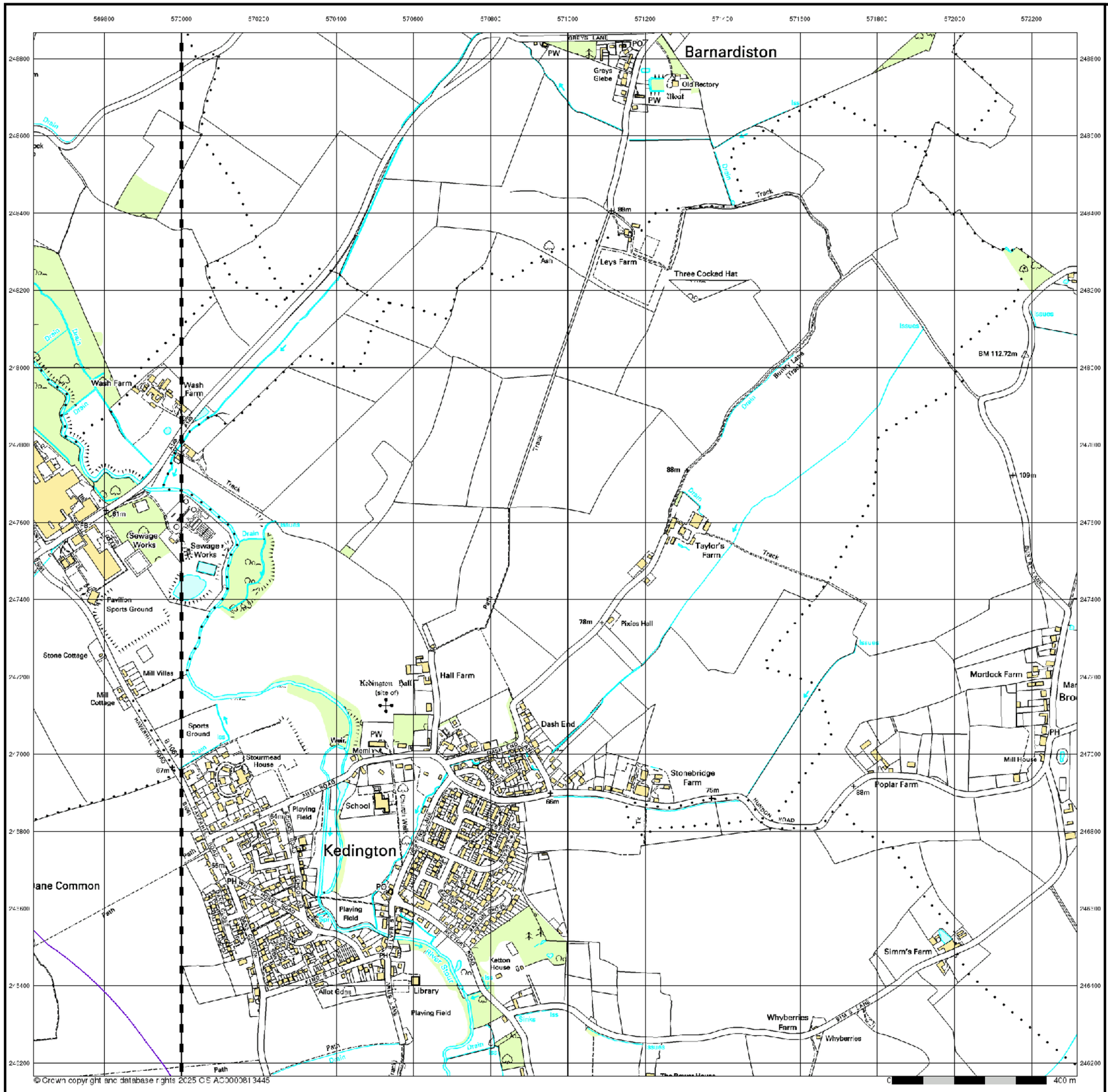

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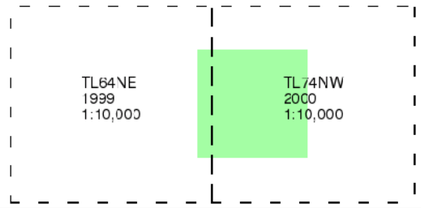
10k Raster Mapping

Published 1999 - 2000

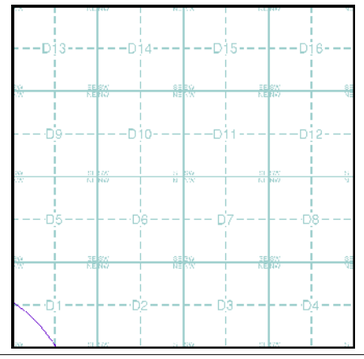
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	367983655_1_1
Customer Ref:	9081,GI
National Grid Reference:	569740, 246300
Slice:	D
Site Area (Ha):	22.
Search Buffer (m):	1000

Site Details

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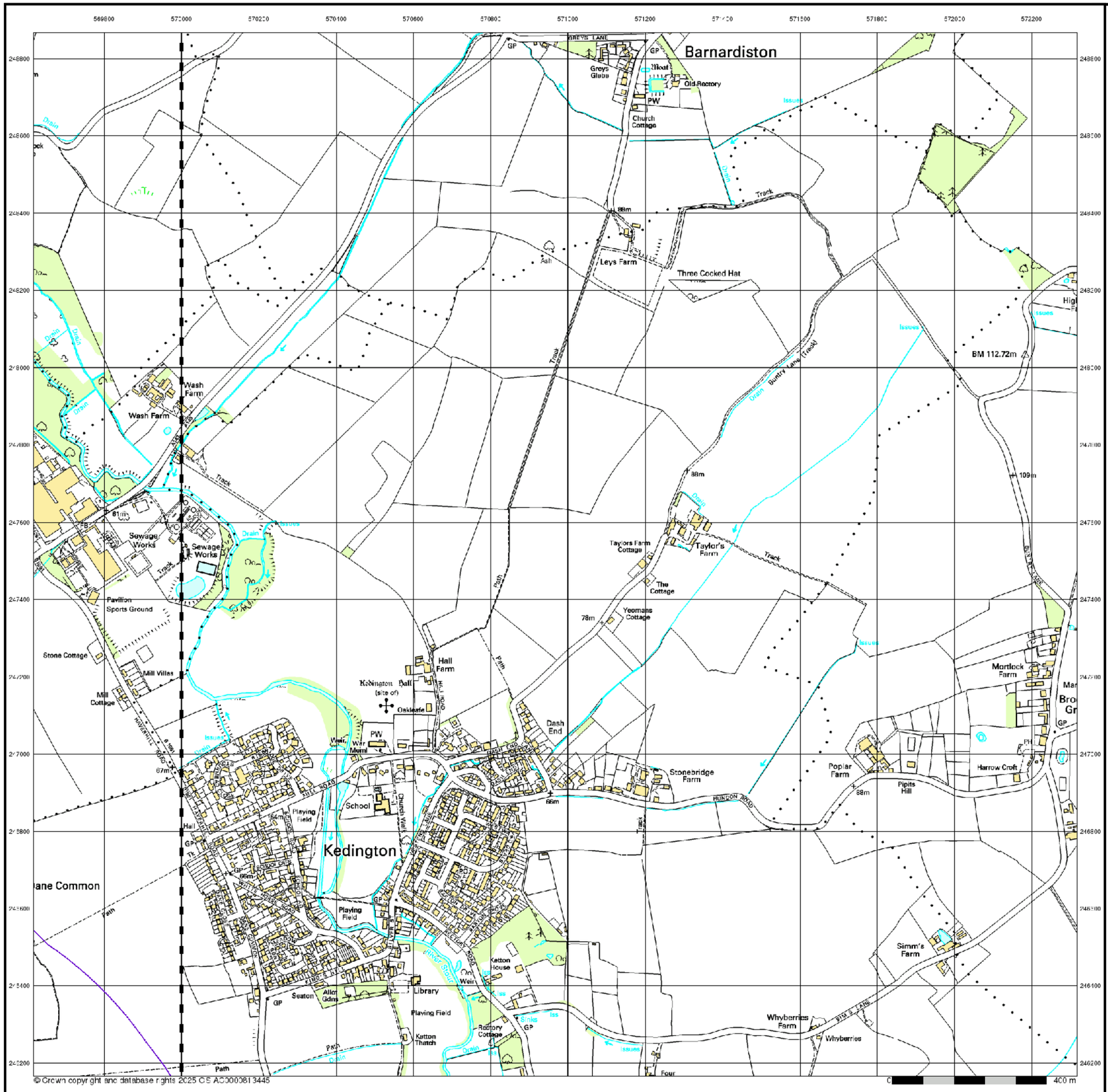

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LANDMARK INFORMATION GROUP®

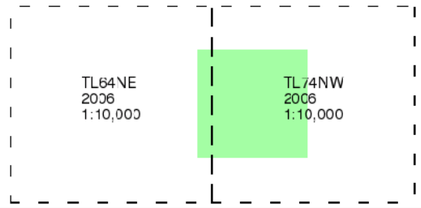
10k Raster Mapping

Published 2006

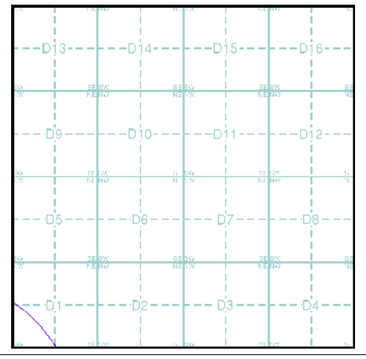
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	367983655_1_1
Customer Ref:	9081,GI
National Grid Reference:	569740, 246300
Slice:	D
Site Area (Ha):	22.
Search Buffer (m):	1000

Site Details

Phase 2, Great Wilsey Park, Haverhill, Suffolk, CB9 7UN

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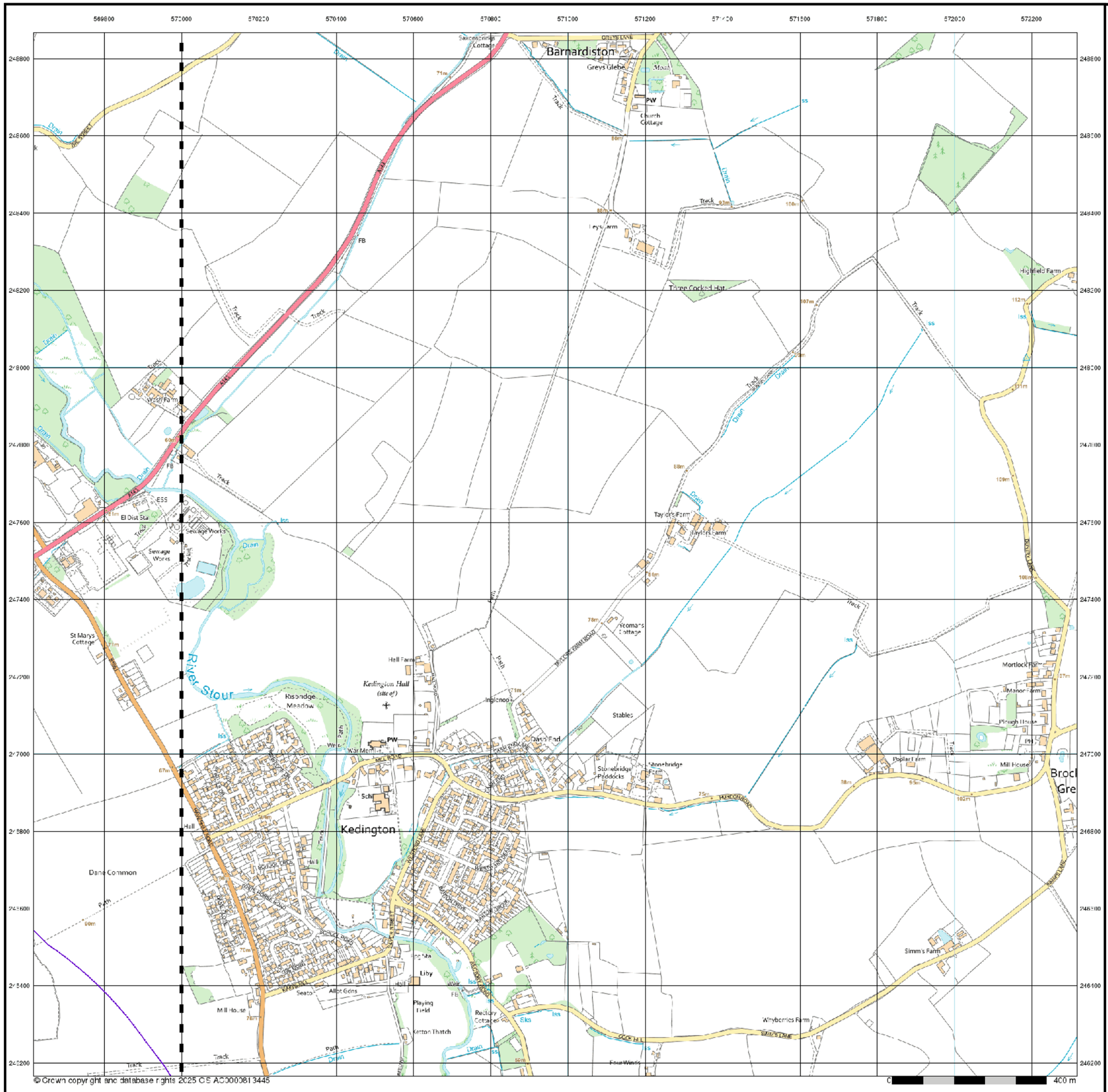

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LANDMARK INFORMATION GROUP®

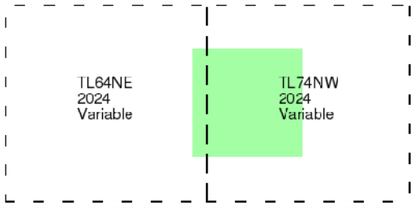
VectorMap Local

Published 2024

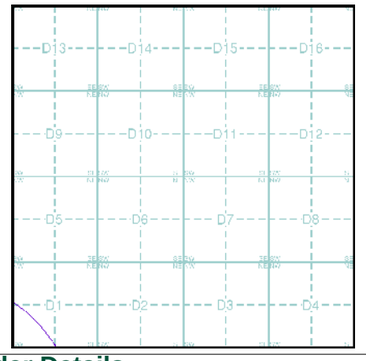
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	367983655_1_1
Customer Ref:	9081,GI
National Grid Reference:	569740, 246300
Slice:	D
Site Area (Ha):	22.
Search Buffer (m):	1000

Site Details

Phase 2, Great Wilsey Park, Haverhill, Suffolk, CB9 7UN

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Fax: 0844 844 9951
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Appendix 6 – Comparison of Consequences Against Probability

		Consequence (Severity of Linkage)			
		Severe (S)	Moderate (M)	Mild/Low (L)	Negligible (N)
Probability (Likelihood of linkage from source)	Highly Likely (H)	Very High Risk (VH)	High Risk (HR)	Moderate Risk (MR)	Moderate/Low Risk (ML)
	Likely (L)	High Risk (HR)	Moderate Risk (MR)	Moderate/Low Risk (ML)	Low Risk (LR)
	Unlikely (U)	Moderate Risk (MR)	Moderate/Low Risk (ML)	Low Risk (LR)	Negligible Risk (NR)
	Negligible (N)	Moderate/Low Risk (ML)	Low Risk (LR)	Negligible Risk (NR)	Negligible Risk (NR)

This table is to provide reference information in conjunction with the GEL Conceptual Model attached within the Hazard Risk Assessment sections of this report, Table 4 – Preliminary Conceptual Site Model and Table 11 – Updated Conceptual Site Model.

Very High Risk (VH)

- There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is happening currently.
- Urgent investigation and remediation are likely to be required and advised.

High Risk (HR)

- Harm is likely to arise to a designated receptor from an identified hazard.
- Urgent investigation is required and remedial works are likely necessary in both the short to long term.

Moderate Risk (MR)

- It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
- Investigation is required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.

Low Risk (LR)

- It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Limited investigation recommended.

Negligible Risk (NR)

- There is a minimal possibility that harm could arise to a receptor. In the event of such harm being realised it is high likely to not be severe. Investigation not deemed necessary.

Appendix 7 – Exploratory Hole Logs

Borehole Logs
(BH01 to BH06)

Windowless Sample Hole Logs
(WS101 to WS130)

Trial Pit Logs
(TP01 to TP35)

Soakage Test Pits
(SK01 to SK10)

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 76m

HOLE No. BH01

LOGGED BY: JK
FIELDWORK BY: Endeavour Drilling
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Cable Percussion (shell and auger)
Uncased to 20.0 m

Grid Reference: TL6922045206
DATES 04/02/2025 - 05/02/2025

SHEET 1 OF 2
PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00 0.30		0.30-0.50	B	B1										
				Firm light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			1.20		0.60-0.80	B	B2										
				Firm dark grey slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					0.80	B	B3										
									1.00-1.20	SPT	SPT1	2 2 3 4	13							
									1.20-1.65	D	D1	3 3								
									1.80	SPT	SPT2	1 2	9							
									2.00-2.45	D	D2	2 2								
									2.60	U	U1	2 3								
									3.00-3.45	D	D4									
									3.30	D	D3									
		4.20		Firm becoming stiff grey slightly sandy gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			3.30		3.45	D	D5	2 2	20							
									3.70-4.00	SPT	SPT3	3 5 6 6								Inflow of water at 4.2m
									4.45	D	D6									
									4.70	B	B4									
									5.00-5.45	U	U2	1 2 3 3	18							
									5.50-5.95	SPT	SPT4	5 7	19							
		6.20							6.00-6.45	SPT	SPT5	1 1								
				Firm dark grey slightly sandy slightly gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			6.20 6.50		6.50	D	D7	2 5 6 6								Inflow of water at 6.2m
				Stiff dark grey slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					7.00	D	D8									
									7.50-7.95	U	U3									
									7.95	D	D9									
									8.50	D	D10									
									9.00-9.45	SPT	SPT6	3 6 8 9 11 11	39							
									10.00	D	D11									
									10.50-10.95	U	U4									
									10.95	D	D12									
									11.50	D	D13									
									12.00-12.45	SPT	SPT7	4 8 8 10 11 11	40							
									13.50-13.95	U	U5									
									13.95	D	D14									
									14.50	D	D15									
									15.00-15.45	SPT	SPT8	7 7 10 10 20 10	64*							
									15.30	B	B5									
									15.80	D	D16									
									16.50-16.95	U	U6									
									16.95	D	D17									
									17.50	D	D18									
									18.00-18.45	SPT	SPT9	9 15 21 25 4	74*							
				15.30 Claystone					19.00	D	D19									
									19.50	U	U7									
				END OF EXPLORATORY HOLE			20.00			D	D20	5 7 27 23	62*							
										SPT	SPT10									

*WATER ▼ Standing water level ▽ Water strikes
PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

HOLE No. BH01
SHEET 1 OF 2
PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 76m	HOLE No. BH01
LOGGED BY: JK FIELDWORK BY: Endeavour Drilling TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Cable Percussion (shell and auger) Uncased to 20.0 m	Grid Reference: TL6922045206 DATES 04/02/2025 - 05/02/2025	SHEET 2 OF 2 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
									19.95 19.95 20.00											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

HOLE No. BH01 | SHEET 2 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081.GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3_1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 81m

HOLE No. BH02

LOGGED BY: JK
FIELDWORK BY: Endeavour Drilling
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Cable Percussion (shell and auger)
Uncased to 20.0 m

Grid Reference: TL6904545366
DATES 06/02/2025 - 07/02/2025

SHEET 1 OF 2
PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.30-	B	B1									
									0.50	B	B2									
									0.60-	B	B3									
									0.80	SPT	SPT1	4 3 3 3	12							
				Firm brown mottled grey slightly sandy slightly gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					1.00-	D	D1	3 3								
									1.20	U	U1									
									1.20-	D	D2									
									1.65	D	D3									
									1.80	SPT	SPT2	2 2 4 4 6 6	20							
									2.00-	D	D4									
									2.45	D	D5									
									2.45	U	U2									
									2.70	D	D6									
									3.00-	D	D7									
									3.45	SPT	SPT3	3 7 7 7	30							
				Soft white structureless CHALK recovered as a chalk gravel in a chalk matrix. (CIRIA Grade Dm)			3.40		3.40											
									3.60	D	D8	7 9								
				Stiff dark grey slightly sandy slightly gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			3.60		4.00-	SPT	SPT4	3 7 8 7 8 9	32							
									4.45											
									4.45	D	D8									
									4.70	U	U3									
									5.00-	D	D9									
									5.45	D	D10									
									5.70	SPT	SPT5	3 5 6 8 8 9	31							
									6.00-											
									6.45	D	D11									
									7.00	U	U4									
									7.50-	D	D12									
									7.95	D	D13									
									7.95	SPT	SPT6	4 5 6 8 11 11	36							
									8.50	D	D14									
									9.00-	U	U5									
									9.45	D	D15									
									10.00	D	D16									
									10.50-	SPT	SPT7	7 7 8 12 15 15	64*							
									10.95											
									10.95	D	D17									
									11.50	U	U6									
									12.00-	D	D18									
									12.45	D	D19									
									13.00	B	B4	5 5	34							Inflow of water at 18.1m
									13.50-	SPT	SPT8	6 7 10 11								
									13.95	D	D20									
									13.95	U	U7									
									14.50	D	D21	7 10 15 27	67*							
									15.00-	SPT	SPT9									
									15.45											
									16.00											
									16.50-											
									16.95											
									16.95											
									17.50											
									18.00-											
									18.50											
									18.00-											
									18.45											
									18.70											
									19.50-											
									19.95											
									19.95											
				END OF EXPLORATORY HOLE			20.00													

18.10

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

*WATER ▼ Standing water level ▽ Water strikes PIEZOMETER Upper seal Response zone Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

Geosphere Environmental Ltd
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Telephone: 01603 298076

HOLE No. BH02
SHEET 1 OF 2
PROJECT No. 9081,GI

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 81m	HOLE No. BH02
LOGGED BY: JK FIELDWORK BY: Endeavour Drilling TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Cable Percussion (shell and auger) Uncased to 20.0 m	Grid Reference: TL6904545366 DATES 06/02/2025 - 07/02/2025	SHEET 2 OF 2 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
									20.00			8								

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH02 | SHEET 2 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081.GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3_1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 77m

HOLE No. BH03

LOGGED BY: JK
FIELDWORK BY: Endeavour Drilling
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Cable Percussion (shell and auger)
Uncased to 20.0 m

Grid Reference: TL6909645614
DATES 07/02/2025 - 10/02/2025

SHEET 1 OF 2
PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata Leg	Strata Reduced Level	Strata Depth	Graphical Representation SPT 'N' Value (0 10 20 30 40)
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00	
							0.30	
		2.00		Orangish brown slightly gravelly clayey fine SAND. Gravel of fine to coarse angular and sub-rounded flint and chalk.			1.20	
				Soft becoming firm light brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			3.80	
				Orangish brown sandy GRAVEL. Sand is fine to coarse. Gravel of fine to coarse angular and sub-rounded flint and quartzite.			4.60	
				Firm grey slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			6.60	
				Soft becoming firm brown slightly gravelly slightly sandy silty CLAY. Gravel fine to coarse angular and sub-rounded flint and chalk.			11.50	
				Orangish brown slightly gravelly sandy CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			12.50	
				White structureless CHALK with rare hard intact chalk fragments.			20.00	
				END OF EXPLORATORY HOLE				

Depths	Type	No.	Blows	SPT N	<425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²
0.30-	B	B1								
0.50	B	B2								
0.60-	B	B3								
0.80	SPT	SPT1	2 2	14						
1.00-	D	D1	3 4							
1.20	D	D2	3 4	15						
1.20-	SPT	SPT2	2 2							
1.65	B	B4	2 4							
1.50	B	B5	5 4	19						
2.00	CPT	CPT1	3 5							
2.00-	D	D3	5 5							
2.45	B	B6	4 5	36						
2.50-	CPT	CPT2	5 6							
3.00	D	D4	8 10							
3.00-	B	B7	9 9							
3.50	U	U1	1 3	26						
3.00-			6 6							
3.45	SPT	SPT3	7 7	25						
3.70			3 6							
4.00-	D	D5	6 6							
4.50	D	D6	6 7							
4.00-	SPT	SPT4	5 6	42						
4.45			8 11							
4.60			11 12							
5.00-	D	D7								
5.50	SPT	SPT5	3 3	32						
5.00-			4 6							
5.45			8 14							
6.00-	D	D8								
6.45										
6.60	SPT	SPT6	7 10	41						
7.00			11 10							
7.50-			10 10							
7.95	D	D9								
8.50	D	D10	8 11	42						
9.00-	SPT	SPT7	10 10							
9.45	D	D11	10 12							
10.00	D	D12								
10.50-										
10.95	SPT	SPT8	2 3	10						
11.50			3 2							
11.90			3 2							
12.00-	D	D13								
12.45	SPT	SPT9								
12.50										
13.00										
13.50-	D	D14								
13.95										
14.50	B	B8	3 4	15						
15.00-	SPT	SPT10	3 4							
15.45			4 4							
16.00	D	D15								
16.50-	SPT	SPT11	6 4	16						
17.00			4 4							
16.50-			4 4							
16.95	D	D16								
17.50	SPT	SPT12	4 4	16						
18.00-	SPT	SPT13	4 4	16						
18.45			4 4							
19.00			4 3							

Additional Tests and Notes

Inflow of water at 2m

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH03 | SHEET 1 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 77m	HOLE No. BH03
LOGGED BY: JK FIELDWORK BY: Endeavour Drilling TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Cable Percussion (shell and auger) Uncased to 20.0 m	Grid Reference: TL6909645614 DATES 07/02/2025 - 10/02/2025	SHEET 2 OF 2 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
									19.50-19.95			4 4								
									19.95-20.00			4 4								

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH03 | SHEET 2 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081.GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3_1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 86m	HOLE No. BH04
LOGGED BY: JK	EXCAVATION METHOD: Cable Percussion (shell and auger)	Grid Reference: TL6885745654	SHEET 1 OF 2
FIELDWORK BY: Endeavour Drilling	Uncased to 20.0 m	DATES 10/02/2025 - 11/02/2025	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY: DATE:		

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00 0.30	
				Firm orangish brown slightly gravelly sandy CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			0.70	
				Firm becoming stiff light greyish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				
				Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			4.00	
				Soft white structureless CHALK recovered as chalk gravel in a chalk matrix. (CIRIA Grade Dm)			15.50 15.80	
				Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				
				END OF EXPLORATORY HOLE			20.00	

Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N
0.30-	B	B1		
0.50	B	B2		
0.70-	B	B3		
0.90	SPT	SPT1	2 2 2 3	12
1.00-	D	D1	3 4	
1.20	U	U1		
1.20-	D	D2		
1.65	D	D3		
1.80	SPT	SPT2	3 3 4 5	20
2.00-				
2.45	D	D4	6 5	
2.45	U	U2		
2.70	D	D5		
3.00-	D	D6		
3.45	SPT	SPT3	5 6 8 8	40
3.70				
4.00-	D	D7	12 12	
4.45	SPT	SPT4	4 5 5 8	31
4.45			8 10	
4.70				
5.00-	D	D8		
5.45	U	U3		
5.70	D	D8		
6.00-				
6.45	D	D9		
7.00	SPT	SPT5	5 5 8 9	38
7.50-			10 11	
7.95				
7.95	D	D10		
8.50	U	U4		
9.00-	D	D11		
9.45				
10.00				
10.50-	D	D12		
10.95	SPT	SPT6	5 5 7 8	31
10.95			8 8	
11.50				
12.00-	D	D13		
12.45				
13.00	U	U5		
13.50-	D	D14		
13.95				
13.95	D	D15		
14.50	SPT	SPT7	5 5 8 10	39
15.00-	D	D16	9 12	
15.45	D	D17		
15.50	D	D18		
15.80	U	U6		
16.00	D	D19		
16.50-				
16.95	D	D20		
16.95	SPT	SPT8	5 6 9 12	44
17.50			12 11	
18.00-				
18.45	D	D21		
19.00	U	U7		
19.50-	D	D22	5 9	50*
19.95	SPT	SPT9	11 13	
19.95				
20.00				

Laboratory Testing	<425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²

Additional Tests and Notes

*WATER ▼ Standing water level ▽ Water strikes PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH04 | SHEET 1 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 86m	HOLE No. BH04
LOGGED BY: JK FIELDWORK BY: Endeavour Drilling TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Cable Percussion (shell and auger) Uncased to 20.0 m	Grid Reference: TL6885745654 DATES 10/02/2025 - 11/02/2025	SHEET 2 OF 2 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
									21			13 13								
									22											
									23											
									24											
									25											
									26											
									27											
									28											
									29											
									30											
									31											
									32											
									33											
									34											
									35											
									36											
									37											
									38											
									39											
									40											
									41											
									42											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH04 | SHEET 2 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081.GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3_1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 83m

HOLE No. BH05

LOGGED BY: JK
FIELDWORK BY: Endeavour Drilling
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Cable Percussion (shell and auger)
Uncased to 20.0 m

Grid Reference: TL6885945796
DATES 11/02/2025 - 12/02/2025

SHEET 1 OF 2
PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.30-	B	B1									
				Soft orangish brown slightly gravelly sandy CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.00		0.50	B	B2									
									0.60-	B	B3									
									0.80	SPT	SPT1	1 1 1 1	6							
							2.00		1.00-	D	D1	2 2								
									1.20	D	D2	1 3	13							
									1.20-	SPT	SPT2	2 3								
				Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					1.65	D	D3	4 4								
									1.80	U	U1									
									2.00	D	D4									
									2.00-	D	D5									
							3.50		2.45	SPT	SPT3	2 3 3 6	19							
				Firm light grey mottled brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					2.70	D	D6	5 5								
									3.00-	D	D7									
									3.45	U	U2									
									3.45	D	D8									
									3.70	D	D9									
									4.00-	SPT	SPT4	2 3 3 5	19							
				Firm becoming stiff slightly sandy slightly gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					4.45			5 6								
									4.40	D	D10									
									4.70	U	U3									
									5.00-	D	D11									
									5.45											
									5.45	D	D12									
									5.70											
									6.00-	SPT	SPT5	3 5 7 10	39							
									6.45			11 11								
									7.00											
									7.50-	D	D13									
									7.95											
									7.95	SPT	SPT6	2 4 10 10	41							
									8.50			10 11								
									9.00-											
								62	9.45	D	D14									
									10.00	SPT	SPT7	5 7 12 13	62*							
									10.50-			17 8								
									10.95											
									11.50	D	D15									
									12.00-											
									12.45	U	U4									
									13.00	D	D16									
									13.50-											
									13.95	D	D17									
									13.95	SPT	SPT8	6 8 10 11	47							
									14.50			13 13								
									15.00-											
								66	15.45	D	D18									
									16.00	SPT	SPT9	6 10 10 13	66*							
									16.50-			15 12								
									16.95											
								67	17.50	D	D19									
									18.00-	SPT	SPT10	7 10 10 12	67*							
									18.45			16 12								
		19.00							19.00	D	D20									Inflow of water at 19m
								69	19.50-	B	B4									
				END OF EXPLORATORY HOLE			20.00		20.00	U	U5									
									19.50-	SPT	SPT11	9 10 11 11	69*							
									19.95											

*WATER ▼ Standing water level ▽ Water strikes
PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH05
SHEET 1 OF 2
PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 83m	HOLE No. BH05
LOGGED BY: JK FIELDWORK BY: Endeavour Drilling TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Cable Percussion (shell and auger) Uncased to 20.0 m	Grid Reference: TL6885945796 DATES 11/02/2025 - 12/02/2025	SHEET 2 OF 2 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
									20.00			14 14								

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- U Undisturbed sample
- P Piston sample
- J Disturbed jar sample
- ES Environmental soil sample
- W Water Sample
- S Standard penetration test
- C Cone penetration test
- K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count

SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating

<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH05 | SHEET 2 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081.GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 85m	HOLE No. BH06
LOGGED BY: JK	EXCAVATION METHOD: Cable Percussion (shell and auger)	Grid Reference: TL6879845791	SHEET 1 OF 2
FIELDWORK BY: Endeavour Drilling	Uncased to 20.0 m	DATES 12/02/2025 - 13/02/2025	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY: DATE:		

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.30-	B	B1									
									0.50	B	B2									
				Soft orangish brown slightly sandy slightly gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					0.60-	B	B3									
									0.80	SPT	SPT1	1 1	6							
									1.00-	D	D1	1 1								
									1.20	U	U1	2 2								
				Firm light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			1.40		1.20-	D	D2									
									1.65	D	D3									
									1.40	SPT	SPT2	2 3	18							
									2.00-			3 4								
									2.45	D	D4	5 6								
				Stiff dark grey sightly sandy slightly gravelly silty CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.			3.60		2.45	U	U2									
									2.70	D	D4									
									3.00-	D	D5									
									3.45	SPT	SPT3	2 4	24							
									3.60			4 6								
									4.00-	D	D6	7 7								
									4.45	SPT	SPT4	2 4	23							
									4.45			4 5								
									4.70			6 8								
									5.00-	D	D7									
									5.45	U	U3									
									5.70	D	D8									
									6.00-											
									6.45	D	D9									
									7.00	SPT	SPT5	3 3	26							
									7.50-			5 7								
									7.95			7 7								
									7.95	D	D10									
									8.50											
									9.00-	U	U4									
									9.45	D	D11									
									10.00											
									10.50-	D	D12									
									10.95	SPT	SPT6	3 6	35							
									10.95			8 8								
									11.50			9 10								
									12.00-	D	D13									
									12.45											
									13.00	U	U5									
									13.50-	D	D14									
									13.95											
									13.95	D	D15									
									14.50	SPT	SPT7	9 9	49							
									15.00-			10 12								
									15.45			12 15								
									16.00	D	D16									
									16.50-	U	U6									
									16.95	D	D17									
									16.95											
								66	17.50	D	D18									
									18.00-	SPT	SPT8	8 8	66*							
									18.45			11 12								
									19.00	D	D19	18 9								
								65	19.50-	U	U7									
				END OF EXPLORATORY HOLE			20.00		19.95	D	D20	7 8	65*							
									19.95	SPT	SPT9	11 14								
									20.00											

*WATER ▼ Standing water level ▽ Water strikes PIEZOMETER Upper seal Response zone Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH06 | SHEET 1 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 85m	HOLE No. BH06
LOGGED BY: JK FIELDWORK BY: Endeavour Drilling TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Cable Percussion (shell and auger) Uncased to 20.0 m	Grid Reference: TL6879845791 DATES 12/02/2025 - 13/02/2025	SHEET 2 OF 2 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
									21			17 8								
									22											
									23											
									24											
									25											
									26											
									27											
									28											
									29											
									30											
									31											
									32											
									33											
									34											
									35											
									36											
									37											
									38											
									39											
									40											
									41											
									42											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. BH06 | SHEET 2 OF 2 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081.GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3_1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 87m	HOLE No. WS101
LOGGED BY: JK	EXCAVATION METHOD: Window Sampler	Grid Reference: TL6869745805	SHEET 1 OF 1
FIELDWORK BY: GEL	Uncased to 5.0 m	DATES 03/02/2025 -	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY: DATE:		

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata Leg	Reduced Level	Depth	Graphical Representation SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing Depths	Type	No.	Blows	SPT N	Laboratory Testing <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.35		0.20	ES	1										
				Orangish brown slightly clayey slightly gravelly SAND. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint.			0.70		0.50	ES	2										
		1.00							0.70	D	1									
				Firm becoming stiff grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.10		1			2 2 2 2 4 3	11							Inflow of water at 1m
									1.20	D	2									
									1.50	ES	3									
				2.00 - 5.00 Dark grey CLAY.					1.90	D	3	3 3 2 3 4 4	13							
									2											
									2.90	D	4	3 5 4 5 7 7	23							
									3											
									3.90	D	5	7 7 6 7 9 10	32							
									4											
				END OF EXPLORATORY HOLE			5.00		5			5 6 8 9 11 14	42							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS101 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 88m	HOLE No. WS102
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6873745768 DATES 03/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0.10	ES	1										
				Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.30														
				Firm becoming stiff grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.60		0.90	D	1	2 3 3 3 4 5	15								
									1.90	D	2	3 3 4 4 5 6	19							
									2.90	D	3	4 3 5 5 7 7	24							
				END OF EXPLORATORY HOLE			4.00	72	3.90	D	4	13 9 8 17 20 5	72*							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS102 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 88m	HOLE No. WS103
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 3.0 m	Grid Reference: TL6877145738 DATES 03/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.20	ES	1									
				Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.50	ES	2									
							0.70													
				Firm becoming stiff grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.90	D	1	2 3 3 4 4 5	16							
									1.50	ES	3									
				1.80 - 3.00 Dark grey CLAY.					1.90	D	2	3 3 5 5 6 7	23							
									2.90	D	3	4 4 4 7 6 8	25							
				END OF EXPLORATORY HOLE			3.00													

*WATER: Standing water level; Water strikes

PIEZOMETER: Upper seal; Response zone; Lower seal

SAMPLE AND TEST KEY: D Small disturbed sample; B Bulk disturbed sample; U Undisturbed sample; P Piston sample; J Disturbed jar sample; ES Environmental soil sample; W Water Sample; S Standard penetration test; C Cone penetration test; K Permeability test

Blows: SPT blows for each 75mm increment (35) Undisturbed sample blow count

SPT N: N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating

<425: Sample % passing 425 micron sieve

DEPTH: All depths, level and thicknesses in metres

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HOLE No. WS103 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 88m	HOLE No. WS104
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6881845691 DATES 04/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
									0.10	ES	1									
				Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.35		0.50	ES	2									
				Firm becoming stiff grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.75		0.90	D	1	2 4 3 4 2 4	13							
				2.00 - 4.00 Dark grey CLAY.					1.90	D	2	4 4 6 8 15 15	44							
				2.50 Large chalk gravel.					2.90	D	3	4 5 7 9 11 16	43							
				END OF EXPLORATORY HOLE			4.00		3.90	D	4	5 6 6 8 10 11	35							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS104 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 85m	HOLE No. WS105
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 3.0 m	Grid Reference: TL6887845662 DATES 04/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.20	ES	1									
				Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.40		0.35	ES	2									
				Firm becoming stiff grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.90	D	1	2 3 3 4 5 5	17							
									1.50	ES	3									
									1.90	D	2	4 4 5 5 6 6	22							
				END OF EXPLORATORY HOLE			3.00		2.90	D	3	3 5 5 7 8 10	30							
									4											
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS105 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 83m	HOLE No. WS106
LOGGED BY: JK	EXCAVATION METHOD: Window Sampler	Grid Reference: TL6891645699	SHEET 1 OF 1
FIELDWORK BY: GEL	Uncased to 4.0 m	DATES 04/02/2025 -	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY:	DATE:	

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
									0.10	ES	1									
				Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.30														
									0.60	ES	2									
									0.70	D	1									
				Soft orangish brown mottled grey sandy slightly gravelly CLAY. Sand is fine to coarse, gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.55														
									0.90	D	2	2 3 2 3 4 5	14							
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.85		1												
				2.00 - 3.20 Greyish brown CLAY.					1.90	D	3	3 4 4 5 5 6	20							
									2											
				3.20 - 4.00 Grey CLAY.					2.90	D	4	3 3 4 5 5 5	19							
									3											
				END OF EXPLORATORY HOLE			4.00		3.90	D	5	5 5 6 5 6 6	23							
									4											
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS106 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 85m	HOLE No. WS107
LOGGED BY: JK	CHECKED BY:	EXCAVATION METHOD: Window Sampler	Grid Reference: TL6883245765	SHEET 1 OF 1
FIELDWORK BY: GEL	DATE:	Uncased to 3.0 m	DATES 04/02/2025 -	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA				

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.20		0.10	ES	1									
				Soft orangish brown sandy slightly gravelly CLAY. Sand is fine to coarse, gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.50	ES	2									
									0.70	D	1									
									1			2 3 3 3 4 4	14							
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.50		1.60	D	2									
									2			4 5 5 5 6 5	21							
									2.60	D	3									
				END OF EXPLORATORY HOLE			3.00		3			4 4 6 5 7 5	23							
									4											
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
S Standard penetration test
C Cone penetration test
K Permeability test
W Water Sample

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS107 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 82m

HOLE No. WS108

LOGGED BY: JK
FIELDWORK BY: GEL
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Window Sampler
Uncased to 5.0 m

Grid Reference: TL6891845780

DATES 05/02/2025 -

SHEET 1 OF 1

PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0.10	ES	1										
				Soft orangish brown sandy slightly gravelly CLAY. Sand is fine to coarse, gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.40		0.50	ES	2										
				1.00 - 3.00 Large sandstone gravel caused compression of second and third meter.					0.90 1.00- 2.00 1.00	D D ES	1 2 3	2 1 1 2 2 3	8							
				Soft orangish brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.00					5 2 3 4 4 5	16							
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.50													
				3.00 - 5.00 Dark grey CLAY.					2.90	D	3	4 4 6 7 8 10	31							
									3.90	D	4	5 7 7 9 10 12	38							
				END OF EXPLORATORY HOLE			5.00	66	4.90	D	5	7 9 17 20 13	66*							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

HOLE No. WS108 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

LOGGED BY: JK
FIELDWORK BY: GEL
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

PROJECT: Great Wilsey Park,Haverhill

EXCAVATION METHOD: Window Sampler
Uncased to 5.0 m

GROUND LEVEL 79m

Grid Reference: TL6900845678

DATES 05/02/2025 -

HOLE No. WS109

SHEET 1 OF 1

PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.25		0.10	ES	1									
				Firm brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.					0.40	ES	2									
							0.80		0.90	D	1	1 3 2 2 3 3	10							
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					1.20	ES	3									
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.60		1.90	D	2	3 3 3 4 5 5	17							
				3.35 - 3.55 Inferred chalk cobble																
				Soft wet off-white STRUCTURELESS CHALK: recovered as a slightly sandy slightly clayey gravel of CHALK. Gravel is fine to coarse sub-angular and sub-rounded flint and chalk.			3.35 3.55		2.90	D	3	4 5 5 6 7 7	25							
				Stiff grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					3.90	D	4	4 4 5 6 7 8	26							
				END OF EXPLORATORY HOLE			5.00		4.90	D	5	7 8 11 10 9 9	39							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

Geosphere Environmental Ltd
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IP10 0BJ
Telephone: 01603 298076

HOLE No. WS109 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 80m

HOLE No. WS110

LOGGED BY: JK
FIELDWORK BY: GEL
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Window Sampler
Uncased to 4.0 m

Grid Reference: TL6898045636

DATES 05/02/2025 -

SHEET 1 OF 1

PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.25		0.20	ES	1									
				Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.50		0.40	ES	2									
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.90	D	1	2 3 4 3 4 4	15							
				2.00 - 3.40 Greyish brown CLAY.					1.90	D	2	2 3 4 6 5 6	21							
				3.40 - 4.00 Dark grey CLAY.					2.90	D	3	5 5 6 6 7 9	28							
				END OF EXPLORATORY HOLE			4.00		3.90	D	4	6 6 7 9 10 13	39							
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS110 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 83m	HOLE No. WS111
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 3.0 m	Grid Reference: TL6892645608 DATES 05/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint, chalk, and brick fragments with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.20	ES	1									
				Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.50		0.40	ES	2									
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.90	D	1	3 4 2 2 4 3	11							
				2.65 - 2.80 Pocket of mudstone.					1.90	D	2	4 5 4 6 4 4	18							
				END OF EXPLORATORY HOLE			3.00		2.90	D	3	6 7 5 7 10 8	30							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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Telephone: 01603 298076

HOLE No. WS111 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 82m

HOLE No. WS112

LOGGED BY: JK
FIELDWORK BY: GEL
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Window Sampler
Uncased to 5.0 m

Grid Reference: TL6895645569

DATES 05/02/2025 -

SHEET 1 OF 1

PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.40		0.20	ES	1										
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.60		0.50	ES	2										
									0.90	D	1	2 3 4 5 5 5	19							
									1.50	ES	3									
									1.90	D	2	4 5 5 4 6 5	20							
									2.90	D	3	4 5 5 8 9 11	33							
									3.90	D	4	5 5 7 6 10 8	31							
				END OF EXPLORATORY HOLE			5.00					6 6 5 5 7 12	29							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS112 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 79m	HOLE No. WS113
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 5.0 m	Grid Reference: TL6902945583 DATES 05/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.10	ES	1									
				Soft brown mottled grey slightly sandy gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.																
							1.00		0.90	D	1	1 2 2 2 4 3	11							
				Firm becoming stiff brownish grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					1											
									1.90	D	2	3 4 4 5 6 7	22							
									2											
									2.90	D	3	4 5 6 6 8 8	28							
									3											
				4.00 - 5.00 Grey CLAY.					3.90	D	4	5 5 5 6 6 8	25							
									4											
				END OF EXPLORATORY HOLE			5.00		4.90	D	5	7 7 8 10 12 13	43							
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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IP10 0BJ
Telephone: 01603 298076

HOLE No. WS113 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 78m	HOLE No. WS114
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 5.0 m	Grid Reference: TL6905545655 DATES 05/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
									0.10	ES	1									
				Soft brown mottled grey slightly sandy gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.30														
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.70														
									0.90	D	1	2 2 3 3 4 4	14							
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.40														
									1.90	D	2	3 2 4 3 5 5	17							
				3.50 - 5.00 Grey CLAY.								4 4 5 5 7 8	25							
												5 6 7 8 10 11	36							
				END OF EXPLORATORY HOLE			5.00					6 7 10 11 13 14	48							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY

D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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Telephone: 01603 298076

HOLE No. WS114 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 77m	HOLE No. WS115
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6911445561 DATES 06/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.30		0.20	ES	1									
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine to coarse sub-angular and sub-rounded flint.					0.50	ES	2									
									0.90	D	1	2 2 2 2 2 3	9							
							1.80		1											
				Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					1.90	D	2	3 2 3 2 4 4	13							
		3.00							2											
				Yellowish brown slightly gravely slightly clayey SAND Sand is fine and medium, gravel of fine to coarse sub-angular and sub-rounded flint.			3.00		2.90	D	3	4 5 4 4 5 4	17							Inflow of water at 3m
									3.10	D	5									
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			3.70		3											
				END OF EXPLORATORY HOLE			4.00		3.90	D	4	3 5 4 4 5 5	18							
									4											
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS115 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 78m	HOLE No. WS116
LOGGED BY: JK	EXCAVATION METHOD: Window Sampler	Grid Reference: TL6906845509	SHEET 1 OF 1
FIELDWORK BY: GEL	Uncased to 5.0 m	DATES 06/02/2025 -	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY:	DATE:	

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.30		0.20	ES	1									
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.65		0.40	ES	2									
									0.50	D	1									
									0.80	ES	3									
									0.90	D	2	2 2 3 3 3 4	13							
									1.50	ES	4									
									1.90	D	3	3 4 3 4 5 4	16							
									2.50	ES	5									
									2.90	D	4	3 3 4 4 4 5	17							
				3.40 - 5.00 Grey CLAY.					3.90	D	5	4 5 5 7 9 11	32							
				END OF EXPLORATORY HOLE			5.00					4 5 5 7 10 8	30							

*WATER ▼ Standing water level ▽ Water strikes PIEZOMETER Upper seal Response zone Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
S Standard penetration test
C Cone penetration test
K Permeability test
W Water Sample

DEPTH All depths, level and thicknesses in metres

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

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IP10 0BJ
Telephone: 01603 298076

HOLE No. WS116 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 81m	HOLE No. WS117
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 5.0 m	Grid Reference: TL6899445509 DATES 06/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.30		0.20	ES	1										
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.70		0.50	ES	2										
									0.90	D	1	2 2 2 4 4 4	14							
									1.20	ES	3									
									1.90	D	2	3 3 4 4 5 6	19							
				3.50 - 5.00 Grey CLAY.					2.90	D	3	3 4 5 5 6 6	22							
									3.90	D	4	5 4 5 6 7 8	26							
				END OF EXPLORATORY HOLE			5.00		4.90	D	5	5 6 7 8 7 8	30							

*WATER: Standing water level; Water strikes. PIEZOMETER: Upper seal; Response zone; Lower seal.

SAMPLE AND TEST KEY: D Small disturbed sample; B Bulk disturbed sample; U Undisturbed sample; P Piston sample; J Disturbed jar sample; ES Environmental soil sample; W Water Sample; S Standard penetration test; C Cone penetration test; K Permeability test.

Blows: SPT blows for each 75mm increment (35) Undisturbed sample blow count. SPT N: N = SPT N value (blows after seating); N*120 = Total blows/penetration including seating. <425: Sample % passing 425 micron sieve.

DEPTH: All depths, level and thicknesses in metres

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HOLE No. WS117 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 81m	HOLE No. WS118
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6902245451 DATES 06/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.25		0.10	ES	1										
									0.50	ES	2									
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.75		0.90	D	1	2 3 3 2 4 4	13							
				1.70 Large flint cobble.																
				2.00 - 4.00 Greyish brown mottled orangish brown CLAY.					1.90	D	2	3 4 4 5 6 6	21							
									2.90	D	3	4 4 5 6 7 8	26							
				END OF EXPLORATORY HOLE			4.00		3.90	D	4	5 6 6 7 8 8	29							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS118 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 76m	HOLE No. WS119
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 5.0 m	Grid Reference: TL6915345423 DATES 06/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.40		0.20	ES	1										
									0.60	ES	2									
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.80		0.90	D	1	1 2 2 2 3 3	10							
									1.50	ES	3									
	2.00			2.00 - 2.20 Wet.					1.90	D	2	2 3 2 3 3 4	12							Inflow of water at 2m
									2.10	ES	4									
				Stiff brownish grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.50		2.90	D	3	3 3 3 4 4 5	16							
				3.20 - 5.00 Grey CLAY.					3.90	D	4	5 6 8 11 13 12	44							
				END OF EXPLORATORY HOLE			5.00		4.90	D	5	6 4 6 12 10 14	42							

*WATER ▼ Standing water level ▽ Water strikes PIEZOMETER Upper seal Response zone Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS119 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 79m	HOLE No. WS120
LOGGED BY: JK	EXCAVATION METHOD: Window Sampler	Grid Reference: TL6909645392	SHEET 1 OF 1
FIELDWORK BY: GEL	Uncased to 4.0 m	DATES 07/02/2025 -	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY:	DATE:	

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.25		0.10	ES	1										
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.65		0.90	D	1	2 2 2 2 3 3	10								
									1.50	ES	2									
				Stiff greyish brown mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.00		1.90	D	2	2 3 4 5 4 5	18								
				2.70 - 3.20 Grey mottled orangish brown CLAY.					2.90	D	3	7 6 7 11 8 7	33								
				3.20 - 3.80 Light grey mottled orangish brown CLAY.																
				3.80 - 4.00 Grey CLAY.					3.90	D	4	6 6 8 6 9 8	31								
				END OF EXPLORATORY HOLE			4.00													

*WATER: Standing water level; Water strikes

PIEZOMETER: Upper seal; Response zone; Lower seal

SAMPLE AND TEST KEY: D Small disturbed sample; B Bulk disturbed sample; U Undisturbed sample; P Piston sample; J Disturbed jar sample; ES Environmental soil sample; W Water Sample; S Standard penetration test; C Cone penetration test; K Permeability test

Blows: SPT blows for each 75mm increment (35) Undisturbed sample blow count

SPT N: N = SPT N value (blows after seating); N*120 = Total blows/penetration including seating

<425: Sample % passing 425 micron sieve

DEPTH: All depths, level and thicknesses in metres

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HOLE No. WS120 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 78m	HOLE No. WS121
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 5.0 m	Grid Reference: TL6912645348 DATES 07/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.25		0.10	ES	1									
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.55		0.40	ES	2									
									0.50	D	1									
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.					0.90	D	2	3 4 3 3 3 2	11							
				1.50 - 3.00 Greyish brown mottled orangish brown CLAY.					1.50	ES	3									
									1.90	D	3	4 4 7 5 7 7	26							
				3.00 - 4.30 Grey CLAY.					2.90	D	4	4 3 6 6 8 10	30							
									3.90	D	5	5 6 6 8 8 10	32							
				Soft grey slighty sandy slightly gravelly silty CLAY. Gravel of fine sub-angular and sub-rounded flint and chalk.			4.30		4.50	D	6									
				Stiff grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			4.90													
				END OF EXPLORATORY HOLE			5.00		5			5 5 7 8 8 10	33							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS121 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 81m

HOLE No. WS122

LOGGED BY: JK
FIELDWORK BY: GEL
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Window Sampler
Uncased to 5.0 m

Grid Reference: TL6906445330

DATES 07/02/2025 -

SHEET 1 OF 1

PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.20		0.10	ES	1										
				Firm grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.60		0.40	ES	2										
				1.20 - 1.40 Large chalk gravel.					0.90	D	1	2 3 5 4 4 5	18							
									1.50	ES	3									
									1.90	D	2	3 4 4 5 6 6	21							
									2.90	D	3	3 4 5 5 6 5	21							
				4.50 - 5.00 Grey CLAY.					3.90	D	4	4 5 5 7 7 9	28							
				END OF EXPLORATORY HOLE			5.00		4.90	D	5	7 7 8 9 10 12	39							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER: Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY

D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS122 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 81m	HOLE No. WS123
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6908445292 DATES 10/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
									0.10	ES	1									
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.30		0.40	ES	2									
				Firm grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.70		0.80	ES	3									
									0.90	D	1	2 3 3 5 5 6	19							
									1.90	D	2	3 3 4 5 6 6	21							
				3.50 - 4.00 Grey CLAY.					2.90	D	3	4 5 7 9 10 10	36							
				END OF EXPLORATORY HOLE			4.00		3.90	D	4	8 8 9 10 12 11	42							

*WATER: Standing water level; Water strikes. PIEZOMETER: Upper seal; Response zone; Lower seal.

SAMPLE AND TEST KEY: D Small disturbed sample; B Bulk disturbed sample; U Undisturbed sample; P Piston sample; J Disturbed jar sample; ES Environmental soil sample; S Standard penetration test; C Cone penetration test; K Permeability test; W Water Sample.

Blows: SPT blows for each 75mm increment (35) Undisturbed sample blow count. SPT N: N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating. <425: Sample % passing 425 micron sieve.

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS123 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 80m	HOLE No. WS124
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6910845251 DATES 10/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.35		0.20	ES	1										
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.75		1.00	D	1	2 2 3 3 2 3	11								
									2.00	D	2	4 4 4 4 5 4	17							
									3.00	D	3	5 5 7 6 9 8	30							
				END OF EXPLORATORY HOLE			4.00	64	4.00	D	4	5 9 7 43	64*							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- U Undisturbed sample
- P Piston sample
- J Disturbed jar sample
- ES Environmental soil sample
- W Water Sample
- S Standard penetration test
- C Cone penetration test
- K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count

SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating

<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS124 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 78m	HOLE No. WS125
LOGGED BY: JK	EXCAVATION METHOD: Window Sampler	Grid Reference: TL6914845304	SHEET 1 OF 1
FIELDWORK BY: GEL	Uncased to 5.0 m	DATES 10/02/2025 -	PROJECT NO. 9081,GI
TEMPLATE REF: GEL AGS BH BETA	CHECKED BY:	DATE:	

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.30		0.10	ES	1										
				Firm brown mottled light grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.70		0.50	ES	2										
									0.90	D	1	3 4 5 5 5 5	20							
				Stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.55		1.50	ES	3										
				2.30 - 2.70 Greyish brown mottled orangish brown CLAY.					1.90	D	2	3 4 5 4 5 6	20							
									2.90	D	3	4 4 5 5 6 7	23							
				3.40 - 5.00 Grey CLAY.					3.90	D	4	6 4 5 5 6 7	23							
									4.90	D	5	6 6 6 7 7 8	28							
				END OF EXPLORATORY HOLE			5.00													

*WATER: Standing water level; Water strikes. PIEZOMETER: Upper seal; Response zone; Lower seal.

SAMPLE AND TEST KEY: D Small disturbed sample; B Bulk disturbed sample; U Undisturbed sample; P Piston sample; J Disturbed jar sample; ES Environmental soil sample; W Water Sample; S Standard penetration test; C Cone penetration test; K Permeability test.

Blows: SPT blows for each 75mm increment (35) Undisturbed sample blow count. SPT N: N = SPT N value (blows after seating); N*120 = Total blows/penetration including seating. <425: Sample % passing 425 micron sieve.

DEPTH: All depths, level and thicknesses in metres

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HOLE No. WS125 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 76m	HOLE No. WS126
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6917045375 DATES 11/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
							0.10		ES	1										
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.30														
									0.90	D	1	1 2 2 2 3 2	9							
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.50														
									1.90	D	2	4 4 4 3 3 4	14							
				Stiff grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.20														
				2.90 - 3.80 Light grey mottled brown CLAY.					2.90	D	3	5 6 5 4 5 6	20							
									3.90	D	4	4 5 5 6 6 6	23							
				END OF EXPLORATORY HOLE			4.00														

*WATER: Standing water level; Water strikes

PIEZOMETER: Upper seal; Response zone; Lower seal

SAMPLE AND TEST KEY: D Small disturbed sample; B Bulk disturbed sample; U Undisturbed sample; P Piston sample; J Disturbed jar sample; ES Environmental soil sample; W Water Sample; S Standard penetration test; C Cone penetration test; K Permeability test

Blows: SPT blows for each 75mm increment (35) Undisturbed sample blow count

SPT N: N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating

<425: Sample % passing 425 micron sieve

DEPTH: All depths, level and thicknesses in metres

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HOLE No. WS126 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 76m	HOLE No. WS127
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 5.0 m	Grid Reference: TL6919645323 DATES 11/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.40		0.20	ES	1									
				Light brown slightly sandy clayey GRAVEL. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.70		0.50	ES	2									
									0.80	D ES	1 3	2 2 1 3 3 2	9							
				Firm brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.40		1.50	D ES	2 4									
	▽ 2.00																			
				Wet light brown slightly sandy clayey GRAVEL. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.00		2			3 3 4 3 4 4	15							Inflow of water at 2m
				Firm grey mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.20		2.50	D ES	3 5									
				Wet light brown slightly sandy slightly clayey GRAVEL. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			3.00		3			4 5 5 4 4 6	19							
				Firm grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			3.70		3.10	D	4									
				Wet brown slightly sandy slightly clayey GRAVEL. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			4.40		3.80	D	5									
									4			3 2 3 4 4 5	16							
				END OF EXPLORATORY HOLE			5.00		5			5 5 5 6 7 5	23							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY

D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS127 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 75m	HOLE No. WS128
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6922545276 DATES 11/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0.10	ES	1										
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.45		0.70	ES	2										
									0.90	D	1	2 3 5 3 2 4	14							
				Firm becoming stiff brown mottled grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.40		1.50	ES	3										
				2.00 - 2.80 Greyish brown mottled orangish brown CLAY.					1.90	D	2	3 3 3 4 4 3	14							
				2.80 - 4.00 Grey CLAY.					2.90	D	3	3 5 4 3 5 4	16							
				END OF EXPLORATORY HOLE			4.00		3.90	D	4	4 5 5 5 8 13	31							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
S Standard penetration test
C Cone penetration test
K Permeability test
W Water Sample

DEPTH All depths, level and thicknesses in metres

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

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HOLE No. WS128 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers

PROJECT: Great Wilsey Park,Haverhill

GROUND LEVEL 78m

HOLE No. WS129

LOGGED BY: JK
FIELDWORK BY: GEL
TEMPLATE REF: GEL AGS BH BETA

CHECKED BY:
DATE:

EXCAVATION METHOD: Window Sampler
Uncased to 5.0 m

Grid Reference: TL6917645247
DATES 11/02/2025 -

SHEET 1 OF 1
PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
				Soft brown slightly gravelly sandy CLAY. Sand is fine and medium, gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.20		0.10	ES	1										
				Firm brown mottled light grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			0.40														
				0.90 Large flint cobble.					0.80	D	1	3 5 5 7 8 12	32							
				1.80 Large flint cobble.					1.50	ES	2									
				Stiff greyish brown mottled orangish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			2.10		1.90	D	2	5 5 4 7 10 11	32							
				Soft grey slightly sandy slightly gravelly silty CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.			3.80		2.90	D	3	3 3 3 3 5 5	16							
				Stiff grey slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			4.40		3.90	D	4	4 4 5 4 4 4	17							
				END OF EXPLORATORY HOLE			5.00		4.50	D	5	5 6 6 7 8 7	28							

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal / Response zone / Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS129 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

CLIENT: Cannon Consulting Engineers	PROJECT: Great Wilsey Park,Haverhill	GROUND LEVEL 80m	HOLE No. WS130
LOGGED BY: JK FIELDWORK BY: GEL TEMPLATE REF: GEL AGS BH BETA CHECKED BY: DATE:	EXCAVATION METHOD: Window Sampler Uncased to 4.0 m	Grid Reference: TL6913045217 DATES 21/02/2025 -	SHEET 1 OF 1 PROJECT NO. 9081,GI

Date/Time and Depth	Depth of Casing	Depth* of Water	Piez.	Description of Strata	Strata: Leg	Strata: Reduced Level	Strata: Depth	Graphical Representation: SPT 'N' Value (0 10 20 30 40)	Sampling/In-Situ Testing: Depths	Type	No.	Blows	SPT N	Laboratory Testing: <425 %	WC %	PL %	LL %	ρ Mg/m³	Cu kN/m²	Additional Tests and Notes
				Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]			0.00		0												
									0.20	ES	1									
				Firm brown mottled light grey slightly sandy slightly gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.			0.35		0.50	ES	2									
									1.00	D	1	3 2 3 3 3 3	12							
				Firm becoming stiff grey mottled brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.			1.00		2.00	D	2	3 4 4 5 4 5	18							
									3.00	D	3	5 5 7 6 9 8	30							
				END OF EXPLORATORY HOLE			4.00		4.00	D	4	5 8 8 12 10 13	43							
									5											

*WATER ▼ Standing water level ▽ Water strikes

PIEZOMETER Upper seal, Response zone, Lower seal

SAMPLE AND TEST KEY
D Small disturbed sample
B Bulk disturbed sample
U Undisturbed sample
P Piston sample
J Disturbed jar sample
ES Environmental soil sample
W Water Sample
S Standard penetration test
C Cone penetration test
K Permeability test

Blows SPT blows for each 75mm increment (35) Undisturbed sample blow count
SPT N N = SPT N value (blows after seating) N*120 = Total blows/penetration including seating
<425 Sample % passing 425 micron sieve

DEPTH All depths, level and thicknesses in metres

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HOLE No. WS130 | SHEET 1 OF 1 | PROJECT No. 9081,GI

GEL AGS BH BETA 9081 GI - GREAT WILSEY PARK HAVERHILL.GPJ GINT STD AGS 3 1.GDT 23/5/25

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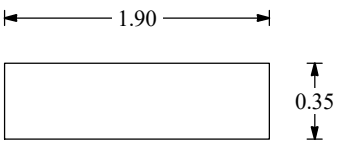
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK01**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	84.00	TL6873745880

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-0.50	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
0.50-1.00	Orangish brown slightly gravelly clayey SAND. Sand is fine and medium. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.				
1.00-2.00	Firm yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				Inflow of water at1 m
2.00	END OF EXPLORATORY HOLE				Inflow of water at1.9 m



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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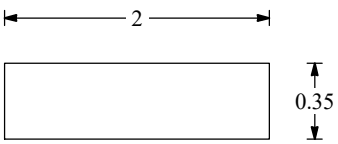
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK02**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	84.00	TL6877745856

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.35	Soft orangish brown slightly gravelly slightly sandy CLAY. Gravel of fine and medium sub-angular and sub-rounded flint.				
1.35-2.00	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded chalk and flint.				Inflow of water at1.8 m
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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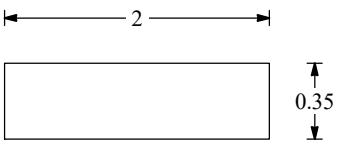
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK03**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	81.00	TL6896345750

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.40	MADE GROUND (Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine to coarse angular and sub-rounded flint, chalk and brick fragments with occasional fine active and inactive vegetative roots.)				
0.40-1.40	Soft brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine and medium sub-angular and sub-rounded flint.				Inflow of water at1.2 m
1.40-2.00	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded chalk and flint.				Inflow of water at1.45 m
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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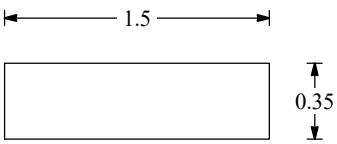
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK04**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	76.00	TL6913845508

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	MADE GROUND (Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine to coarse angular and sub-rounded flint, chalk and brick fragments with occasional fine active and inactive vegetative roots.)				
0.30-1.00	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine and medium angular and sub-rounded flint and chalk.				
1.00-2.00	Firm yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				Inflow of water at1.64 m
2.00	END OF EXPLORATORY HOLE				Inflow of water at1.95 m



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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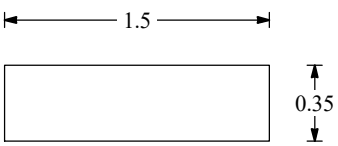
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK05**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	76.00	TL6914245482

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.35	MADE GROUND (Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine to coarse angular and sub-rounded flint, chalk and brick fragments with occasional fine active and inactive vegetative roots.)				
0.35-0.70	Soft orangish brown slightly gravelly sandy CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.				
0.70-2.00	Firm yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				Inflow of water at1.64 m Inflow of water at1.9 m
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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Telephone: 01603 298076

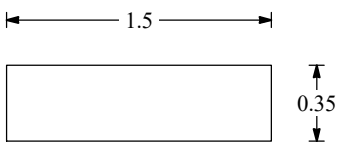
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK06**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	81.00	TL6902945397

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.20	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.				
	1.00 Large flat grey limestone boulder (approx 150x150x20mm).				
1.20-2.00	Firm grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				Inflow of water at1.85 m
2.00	END OF EXPLORATORY HOLE				Inflow of water at2 m



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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Telephone: 01603 298076

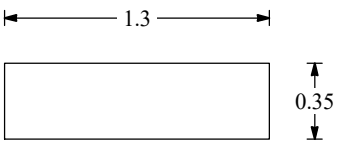
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK07**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	84.00	TL6890545591

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.30	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.30-2.00	Firm grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				Inflow of water at1.78 m Inflow of water at1.9 m
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

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Telephone: 01603 298076

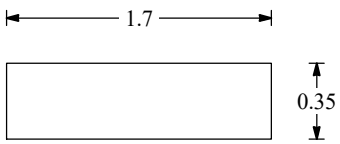
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK08**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	80.00	TL6915145130

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.10	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.10-2.00	Firm grey slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded chalk and flint.				Inflow of water at1.8 m
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

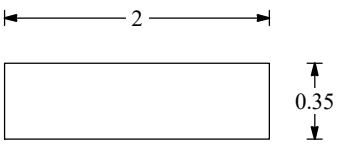
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK09**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	74.00	TL6927245227

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.35	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.35-1.10	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine to coarse sub-angular and sub-rounded flint.				
1.10-2.00	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				Inflow of water at1.52 m Inflow of water at1.8 m
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

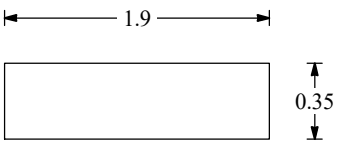
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**SK10**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	74.00	TL6928345203

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.80	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine and medium sub-angular and sub-rounded flint.				Inflow of water at1.46 m Inflow of water at1.5 m
1.80-2.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine and medium angular and sub-rounded flint and chalk.				
2.00	END OF EXPLORATORY HOLE				



Shoring/Support: GRAVEL
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

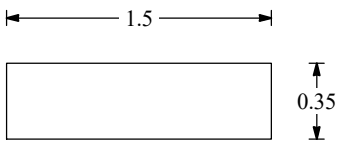
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP01**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	82.00	TL6893745722

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.40	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.40-0.70	Soft orangish brown slightly gravelly slightly sandy CLAY. Gravel of fine and medium sub-angular and sub-rounded flint.				
0.70-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.		0.70	1B	Inflow of water at0.9 m
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

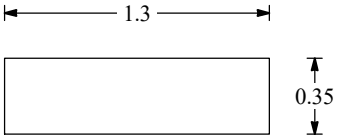
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP02**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	84.00	TL6887245737

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-0.60	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine and medium sub-angular and sub-rounded flint.				
0.60-1.00	Firm yellowish brown slightly sandy gravelly CLAY. Gravel of fine and medium angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

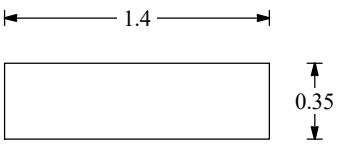
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP03**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	86.00	TL6885945695

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

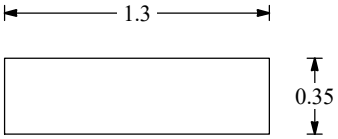
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP04**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	86.00	TL6885545623

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.10	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.10-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

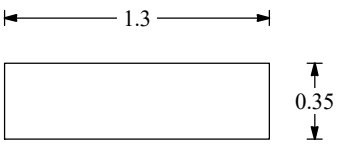
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP05**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	89.00	TL6876945710

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Soft yellowish brown slightly gravelly slightly sandy CLAY. Gravel of fine and medium sub-angular and sub-rounded chalk.		0.70	1B	Inflow of water at0.5 m
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

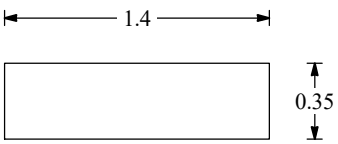
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP06**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	86.00	TL6880545745

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Soft yellowish brown slightly gravelly slightly sandy CLAY. Gravel of fine and medium sub-angular and sub-rounded chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

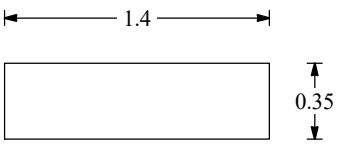
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP07**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	84.00	TL6879245831

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Soft yellowish brown slightly gravelly slightly sandy CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.				
1.00	END OF EXPLORATORY HOLE				Inflow of water at1 m



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

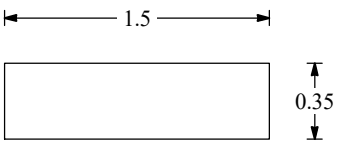
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP08**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	85.00	TL6876545800

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Soft yellowish brown slightly gravelly slightly sandy CLAY. Gravel of fine to coarse angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

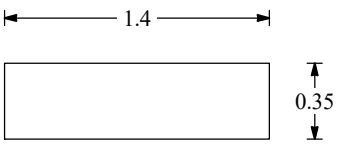
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP09**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	85.00	TL6874745842

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-0.90	Soft yellowish brown slightly gravelly sandy CLAY. Sand is fine and medium. Gravel of fine to coarse angular and sub-rounded flint and chalk.		0.70	1B	
0.90-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

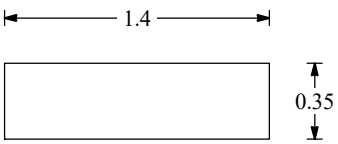
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP10**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	86.00	TL6870545852

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.35	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.35-1.00	Soft yellowish brown slightly gravelly sandy CLAY. Sand is fine and medium. Gravel of fine to coarse angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

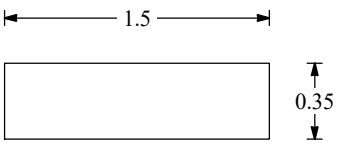
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP11**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	88.00	TL6865845818

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.35	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.35-0.90	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
0.90-1.00	Firm grey slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

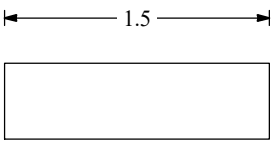
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP12**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	04-02-25	89.00	TL6871245766

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.15	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.15-1.00	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

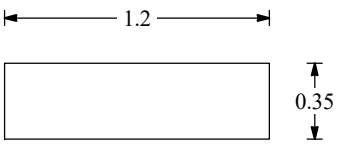
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP13**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	77.00	TL6910345505

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.35	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.35-0.60	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine and medium sub-angular and sub-rounded flint and chalk.				
0.60-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.80	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

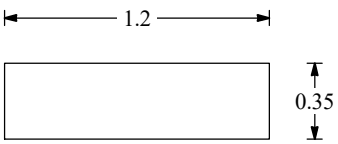
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP14**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	78.00	TL6906045577

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-0.50	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine and medium. Gravel of fine to coarse sub-angular and sub-rounded flint.				
0.50-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

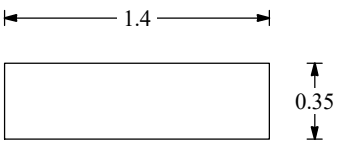
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP15**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	77.00	TL6911345617

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Orangish brown slightly gravelly clayey SAND. Sand is fine and medium. Gravel of fine and medium sub-angular and sub-rounded flint.		0.70	1B	
1.00-1.10	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.10	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

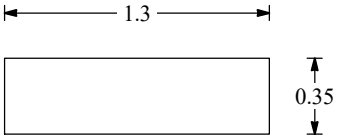
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP16**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	78.00	TL6903445634

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-0.60	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine to coarse sub-angular and sub-rounded flint.				
0.60-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

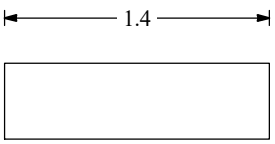
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP17**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	79.00	TL6903645690

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-0.70	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine to coarse sub-angular and sub-rounded flint.				
0.70-1.00	Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

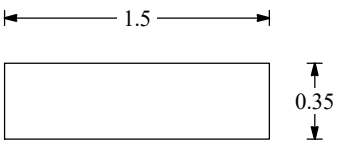
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP18**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	83.00	TL6892345643

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

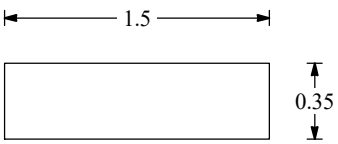
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP19**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	80.00	TL6898345566

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

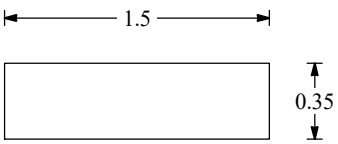
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP20**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	84.00	TL6893145529

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

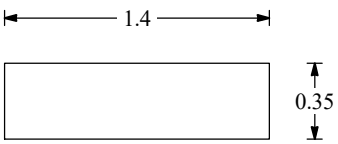
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP21**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	83.00	TL6896945471

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint, chalk and sandstone.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

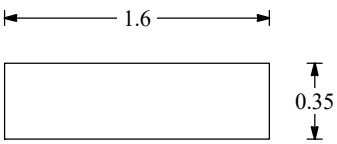
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP22**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	80.00	TL6903245486

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-0.70	Soft orangish brown slightly gravelly sandy CLAY. Sand is fine. Gravel of fine to coarse sub-angular and sub-rounded flint.				
0.70-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

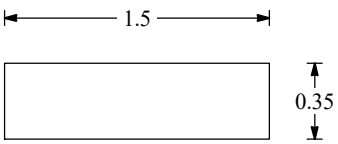
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP23**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	83.00	TL6907245406

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

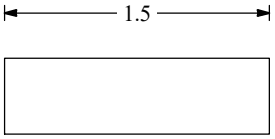
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP24**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	05-02-25	77.00	TL6909845456

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-0.60	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.				
0.60-1.00	Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

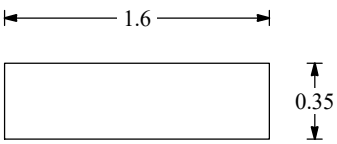
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP25**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	75.00	TL6924045180

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

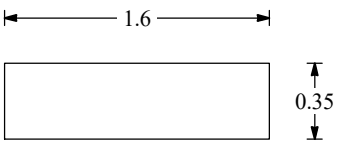
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP26**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	78.00	TL6918345154

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

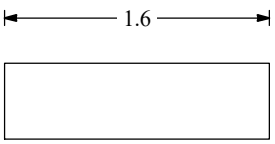
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP27**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	81.00	TL6911845181

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.20	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.20-0.80	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
0.80	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

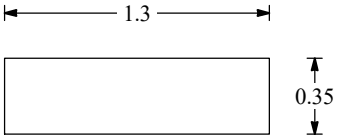
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP28**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	78.00	TL6917745207

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.20	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.20-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

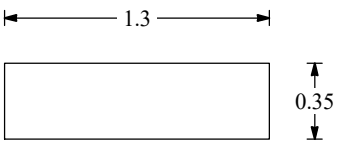
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP29**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	74.00	TL6922845296

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-0.90	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
0.90-1.00	Soft yellowish brown slightly sandy gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

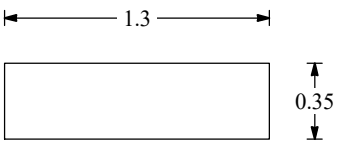
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP30**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	79.00	TL6914445258

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

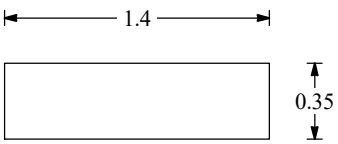
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP31**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	82.00	TL6907345259

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.30	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.30-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

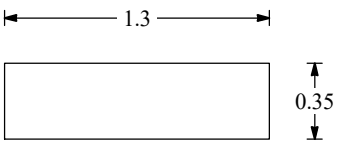
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP32**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	75.00	TL6919045361

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-0.90	Soft yellowish brown slightly gravelly sandy CLAY. Sand is fine and medium. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
0.90-1.00	Soft yellowish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint and chalk.				
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

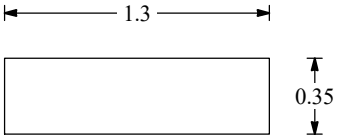
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP33**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	76.00	TL6917145410

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.20	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.20	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

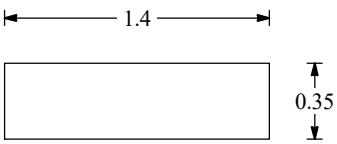
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP34**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	79.00	TL6912045320

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.35	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.35-1.00	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Geosphere Environmental Ltd
Unit 11 Brightwell Barns
IP10 0BJ
Telephone: 01603 298076

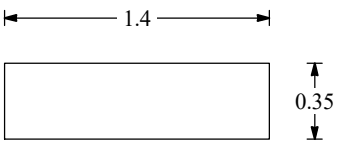
TRIAL PIT LOG

Project	Client	TRIAL PIT No
Great Wilsey Park,Haverhill	Cannon Consulting Engineers	**TP35**

Job No	Date	Ground Level (m)	Coordinates/Grid Reference ()
9081,GI	06-02-25	82.00	TL6904145320

Fieldwork By	Logged By	Sheet
GEL	AW	1 of 1

Depth	DESCRIPTION	Legend	Depth	No	Remarks/Tests
0.00-0.25	Soft dark brown slightly sandy slightly gravelly organic clay. Gravel of fine and medium sub-angular and sub-rounded flint and chalk with occasional fine active and inactive vegetative roots. [TOPSOIL]				
0.25-1.00	Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel of fine to coarse sub-angular and sub-rounded flint.		0.70	1B	
1.00	END OF EXPLORATORY HOLE				



Shoring/Support: NONE
Stability: STABLE

All dimensions in metres Scale 1:20.8333333333333	Method Trial Pit/trench	Plant Used 2.7T Mechanical Excavator	Checked By

Appendix 8 – Infiltration Test Results

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Date: 23/04/2025

Project Name: Great Wilsey Park, Haverhill

Time [min]	Depth to Water [mbgl]
0	1.45
1	1.44
2	1.44
3	1.44
4	1.44
5	1.44
10	1.44
15	1.43
20	1.43
30	1.43
45	1.43
60	1.43
120	1.43
180	1.42
240	1.42
300	1.42
1440	1.40

Pit Size [m]		
Length	Width	Depth
1.90	0.35	2.00

Infiltration Rate Calculations		
Parameter	Unit	Result
height		
h_{75}	[m]	1.863
h_{25}	[m]	1.588
h_{75}-h_{25}	[m]	0.275
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.183
effective area		
ap_{50}	[m^2]	1.903
soil infiltration rate		
f	[m/s]	N/A

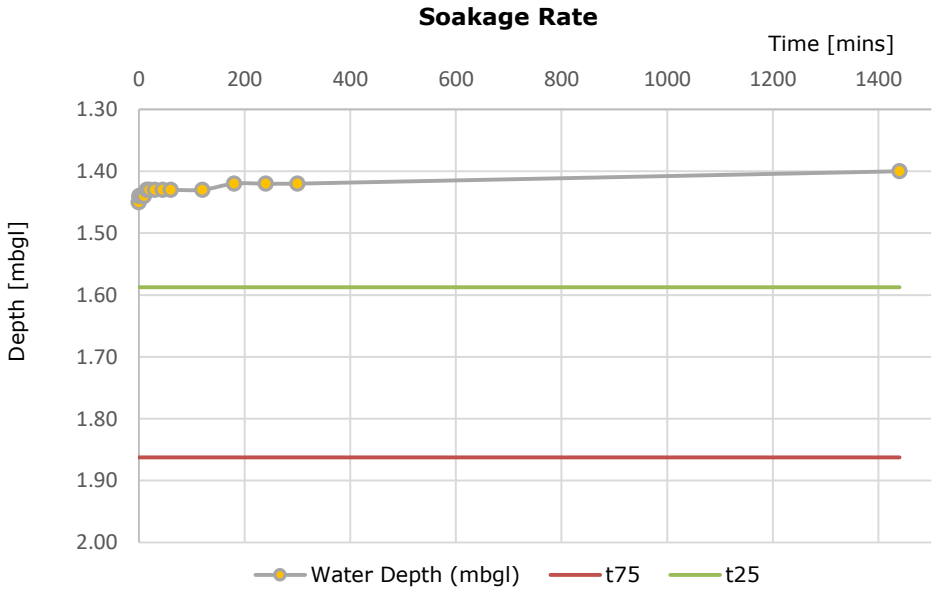
Trial Pit SK01

Run 1 of 1

Test Date 04/02/2025

Groundwater Encountered: 1.90mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Date: 23/04/2025

Project Name: Great Wilsey Park, Haverhill

Time [min]	Depth to Water [mbgl]
0	1.50
1	1.50
2	1.50
3	1.50
4	1.50
5	1.51
10	1.51
15	1.51
20	1.51
30	1.51
45	1.51
60	1.51
120	1.50
180	1.50
240	1.50
300	1.50
1440	1.48

Pit Size [m]		
Length	Width	Depth
2.00	0.35	2.00

Infiltration Rate Calculations		
Parameter	Unit	Result
height		
h_{75}	[m]	1.875
h_{25}	[m]	1.625
h_{75}-h_{25}	[m]	0.250
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.175
effective area		
ap_{50}	[m^2]	1.875
soil infiltration rate		
f	[m/s]	N/A

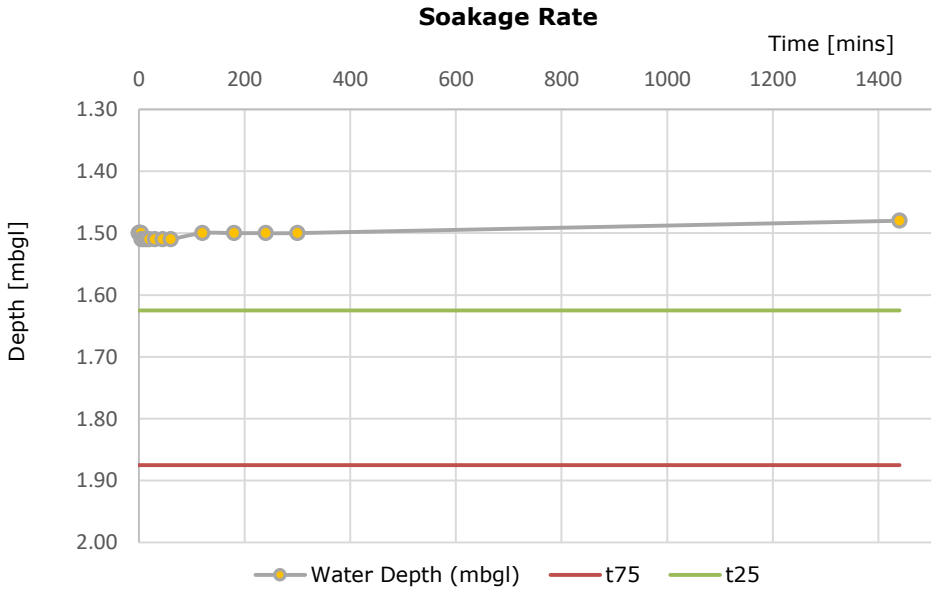
Trial Pit SK02

Run 1 of 1

Test Date 04/02/2025

Groundwater Encountered: 1.80mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.40
1	1.40
2	1.41
3	1.41
4	1.41
5	1.41
10	1.42
15	1.42
20	1.42
30	1.42
45	1.42
60	1.42
120	1.41
180	1.41
240	1.41
300	1.41
1440	1.38

Pit Size [m]		
Length	**Width**	**Depth**
2.00	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.850
h_{25}	[m]	1.550
h_{75}-h_{25}	[m]	0.300
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.210
effective area		
ap_{50}	[m^2]	2.110
soil infiltration rate		
f	[m/s]	N/A

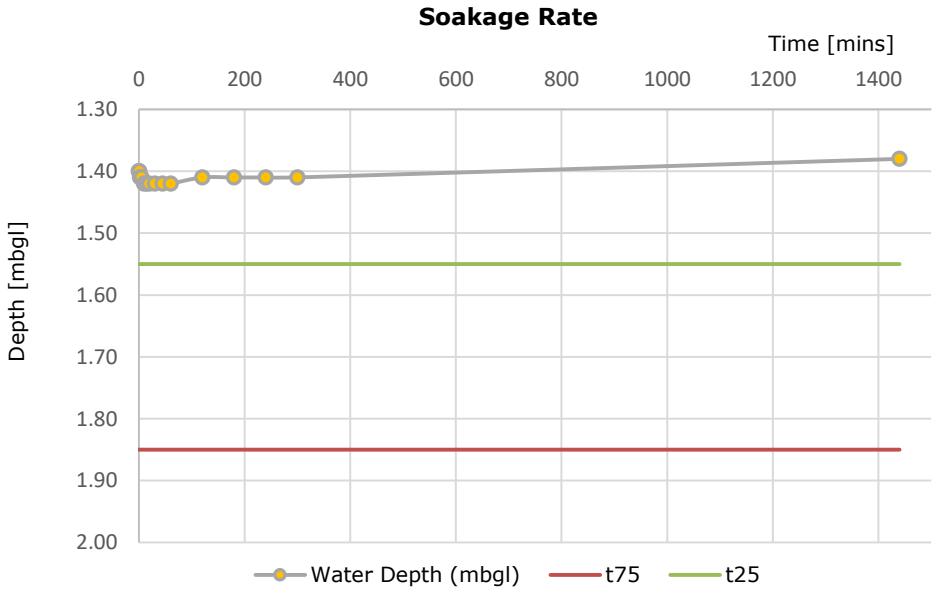
Trial Pit SK03

Run 1 of 1

Test Date 04/02/2025

Groundwater Encountered: 1.20mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.48
1	1.49
2	1.49
3	1.49
4	1.49
5	1.49
10	1.50
15	1.50
20	1.50
30	1.51
45	1.51
60	1.51
120	1.52
180	1.52
240	1.52
300	1.51
1440	1.50

Pit Size [m]		
Length	**Width**	**Depth**
1.50	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.870
h_{25}	[m]	1.610
h_{75}-h_{25}	[m]	0.260
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.137
effective area		
ap_{50}	[m^2]	1.487
soil infiltration rate		
f	[m/s]	N/A

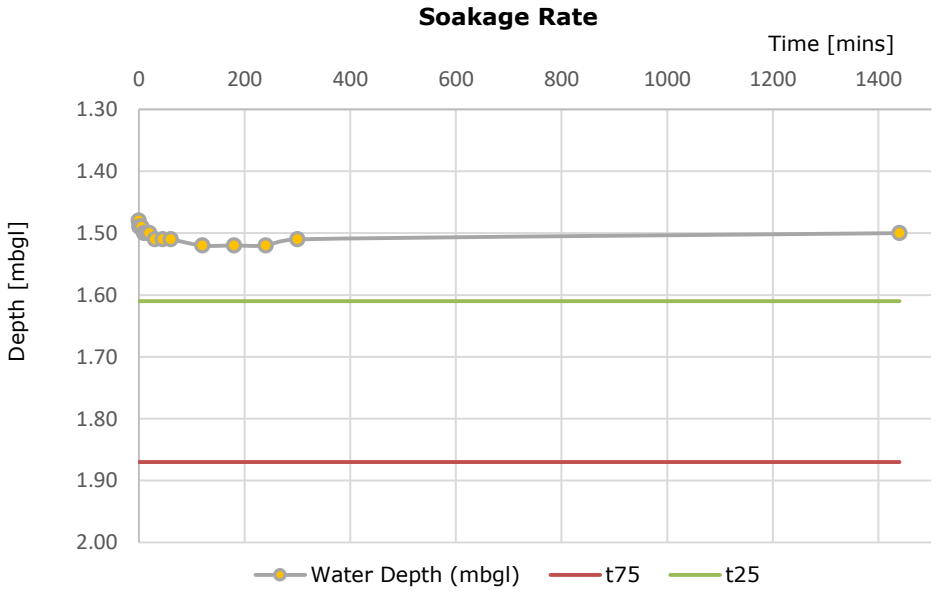
Trial Pit SK04

Run 1 of 1

Test Date 05/02/2025

Groundwater Encountered: 1.95mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.45
1	1.46
2	1.45
3	1.45
4	1.45
5	1.45
10	1.46
15	1.46
20	1.46
30	1.46
45	1.47
60	1.47
120	1.47
180	1.47
240	1.47
300	1.47
1440	1.43

Pit Size [m]		
Length	**Width**	**Depth**
1.60	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.863
h_{25}	[m]	1.588
h_{75}-h_{25}	[m]	0.275
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.154
effective area		
ap_{50}	[m^2]	1.633
soil infiltration rate		
f	[m/s]	N/A

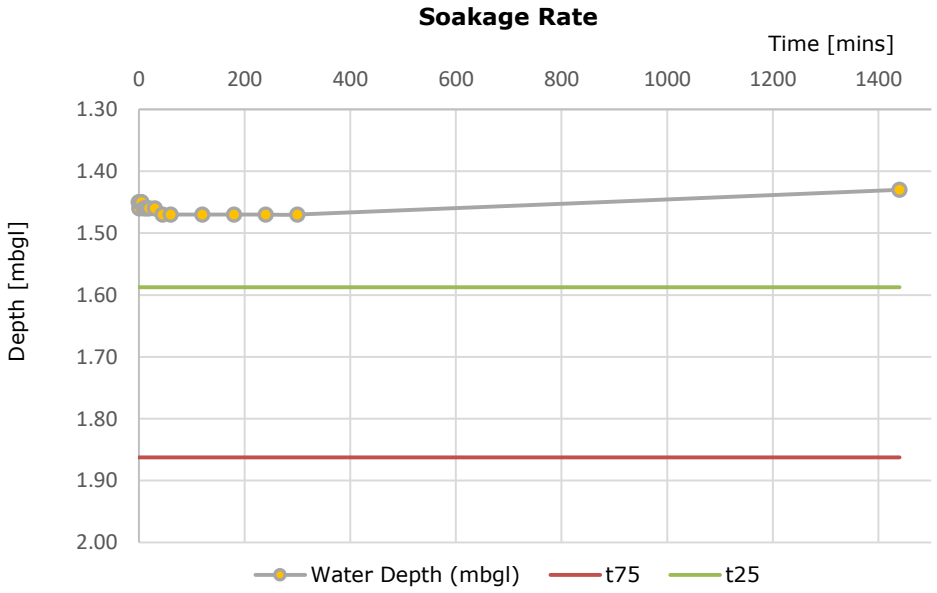
Trial Pit SK05

Run 1 of 1

Test Date 05/02/2025

Groundwater Encountered: 1.90mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.50
1	1.50
2	1.50
3	1.50
4	1.50
5	1.51
10	1.51
15	1.51
20	1.51
30	1.52
45	1.52
60	1.52
120	1.53
180	1.53
240	1.54
300	1.54
1440	1.55

Pit Size [m]		
Length	**Width**	**Depth**
1.50	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.875
h_{25}	[m]	1.625
h_{75}-h_{25}	[m]	0.250
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.131
effective area		
ap_{50}	[m^2]	1.450
soil infiltration rate		
f	[m/s]	N/A

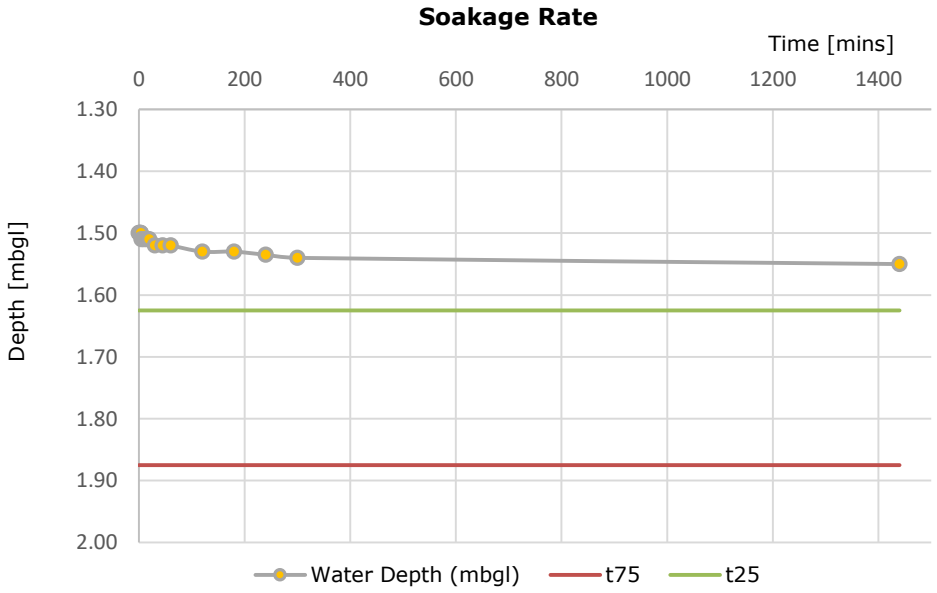
Trial Pit SK06

Run 1 of 1

Test Date 05/02/2025

Groundwater Encountered: 2.00mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.40
1	1.40
2	1.40
3	1.40
4	1.40
5	1.40
10	1.41
15	1.41
20	1.41
30	1.41
45	1.41
60	1.41
120	1.40
180	1.40
240	1.40
300	1.40
1440	1.38

Pit Size [m]		
Length	Width	Depth
1.30	0.35	2.00

Infiltration Rate Calculations		
Parameter	Unit	Result
height		
h_{75}	[m]	1.850
h_{25}	[m]	1.550
h_{75}-h_{25}	[m]	0.300
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.137
effective area		
ap_{50}	[m^2]	1.445
soil infiltration rate		
f	[m/s]	N/A

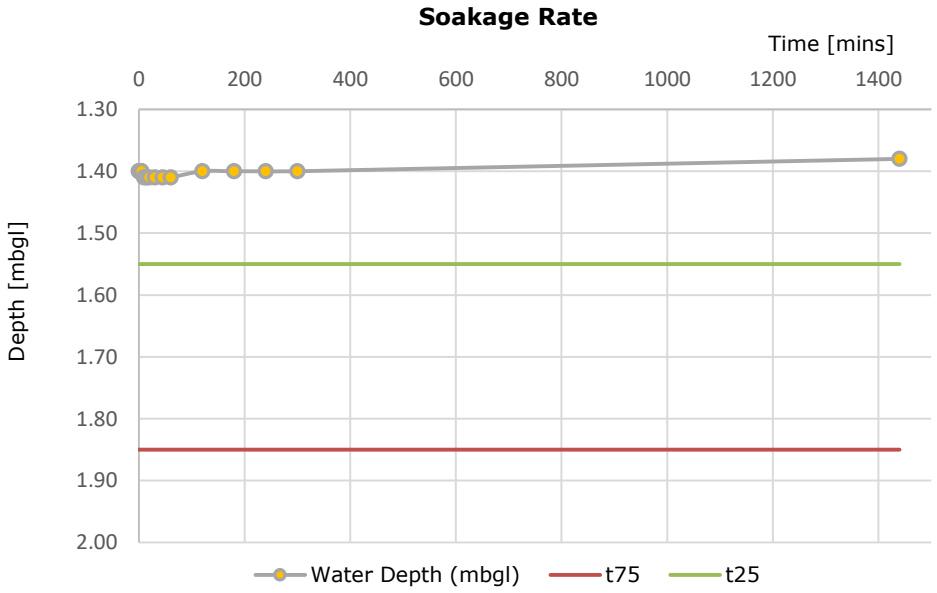
Trial Pit SK07

Run 1 of 1

Test Date 05/02/2025

Groundwater Encountered: 1.90mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.45
1	1.44
2	1.44
3	1.44
4	1.44
5	1.44
10	1.44
15	1.44
20	1.44
30	1.45
45	1.45
60	1.45
120	1.46
180	1.46
240	1.46
300	1.46
1440	1.48

Pit Size [m]		
Length	**Width**	**Depth**
1.70	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.863
h_{25}	[m]	1.588
h_{75}-h_{25}	[m]	0.275
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.164
effective area		
ap_{50}	[m^2]	1.723
soil infiltration rate		
f	[m/s]	N/A

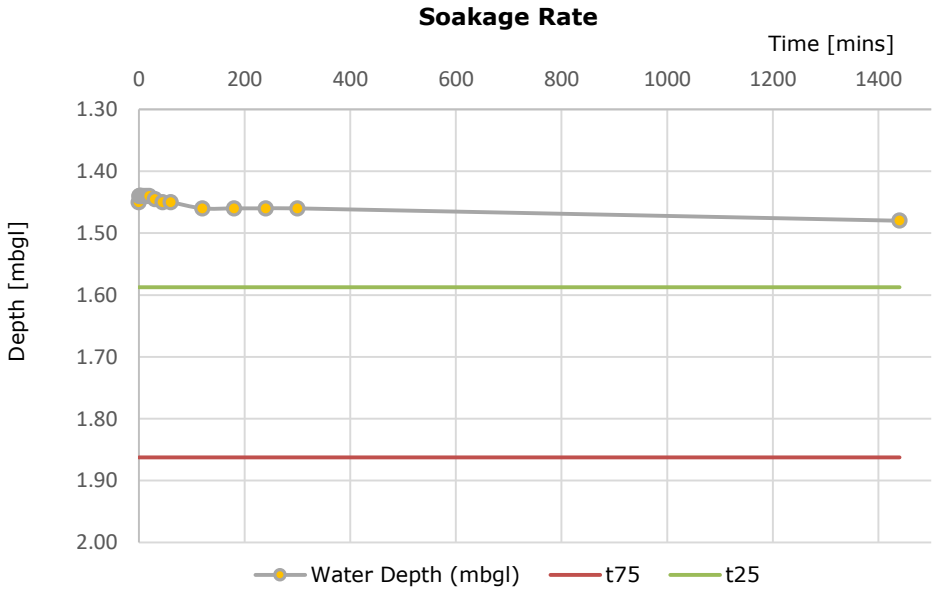
Trial Pit SK08

Run 1 of 1

Test Date 06/02/2025

Groundwater Encountered: 1.95mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 23/04/2025

Time [min]	Depth to Water [mbgl]
0	1.49
1	1.48
2	1.48
3	1.48
4	1.48
5	1.49
10	1.49
15	1.50
20	1.50
30	1.50
45	1.50
60	1.50
120	1.50
180	1.50
240	1.50
300	1.50
1440	1.52

Pit Size [m]		
Length	**Width**	**Depth**
2.00	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.873
h_{25}	[m]	1.618
h_{75}-h_{25}	[m]	0.255
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.179
effective area		
ap_{50}	[m^2]	1.899
soil infiltration rate		
f	[m/s]	N/A

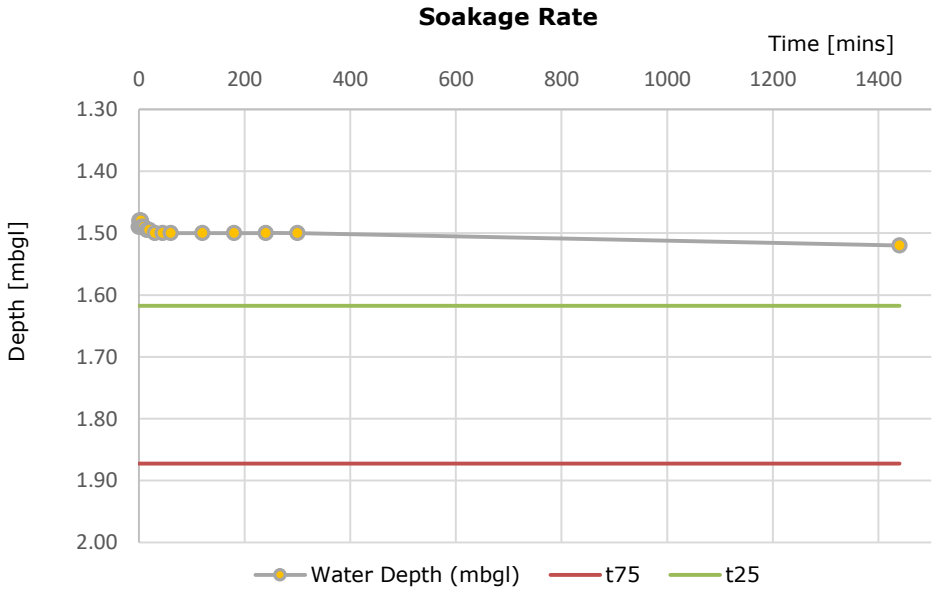
Trial Pit SK09

Run 1 of 1

Test Date 06/02/2025

Groundwater Encountered: 1.80mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

TRIAL PIT INFILTRATION TEST - BRE DIGEST 365

Project Number: 9081,GI

Date: 23/04/2025

Project Name: Great Wilsey Park, Haverhill

Time [min]	Depth to Water [mbgl]
0	1.45
1	1.45
2	1.45
3	1.46
4	1.46
5	1.46
10	1.46
15	1.46
20	1.46
30	1.46
45	1.46
60	1.46
120	1.46
180	1.46
240	1.46
300	1.46
1440	1.45

Pit Size [m]		
Length	**Width**	**Depth**
1.90	0.35	2.00

Infiltration Rate Calculations		
Parameter	**Unit**	**Result**
height		
h_{75}	[m]	1.863
h_{25}	[m]	1.588
h_{75}-h_{25}	[m]	0.275
time		
t_{75}	[s]	N/A
t_{25}	[s]	N/A
t_{75} - t_{25}	[s]	N/A
effective volume		
v_{75-25}	[m^3]	0.183
effective area		
ap_{50}	[m^2]	1.903
soil infiltration rate		
f	[m/s]	N/A

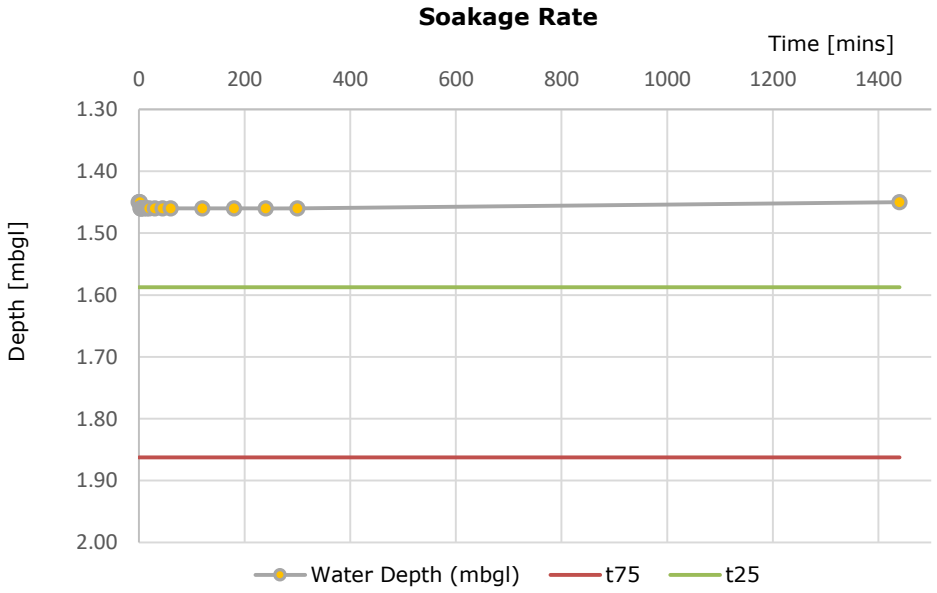
Trial Pit SK10

Run 1 of 1

Test Date 06/02/2025

Groundwater Encountered: 1.50mbgl

Remarks: Infiltration test exceeded 24 hours.



Calculated by: AW

Checked by: JK

Appendix 9 – Gas and Groundwater Monitoring Data

GROUND GAS AND GROUNDWATER MONITORING DATA

GEOSPHERE ENVIRONMENTAL

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 30/05/2025

Exploratory Hole Location **WS101** **Date of Installation** 03/02/2025

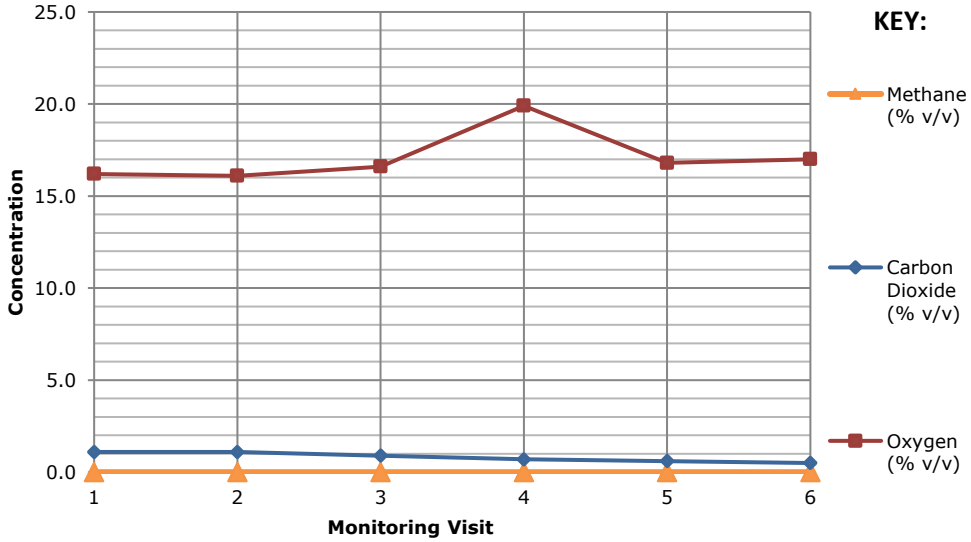
Return Visit #	Monitoring Date	Atmospheric Pressure (mb)	Methane Content (% v/v)	Methane Content (% LEL)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Flow Rate (l/hr)	H2S (ppm)	CO (ppm)	VOC (ppm)	Water Level (mbgl)	Base of Well (mbgl)	Weather Conditions	Comments / Pressure Rise or Fall
1st visit	10/03/2025	993	<0.1	<2	1.1	16.2	<0.1	<1	<1	<1	0.50	4.20	Cool, overcast, damp, breezy (13 °C)	
2nd visit	20/03/2025	1012	<0.1	<2	1.1	16.1	<0.1	<1	<1	<1	0.70	4.15	Warm, sunny, dry, calm (14 °C)	
3rd visit	25/03/2025	1009	<0.1	<2	0.9	16.6	<0.1	<1	<1	<1	0.80	4.15	Cool, cloudy, dry, breezy (11 °C)	
4th visit	02/04/2025	1012	<0.1	<2	0.7	19.9	<0.1	<1	<1	<1	0.96	4.14	Cool, cloudy, dry, windy (13 °C)	
5th visit	10/04/2025	1011	<0.1	<2	0.6	16.8	<0.1	<1	<1	<1	1.10	4.19	Warm, sunny, dry, breezy (15 °C)	
6th visit	14/04/2025	991	<0.1	<2	0.5	17.0	<0.1	<1	<1	<1	1.11	4.16	Cool, cloudy, dry, breezy (15 °C)	

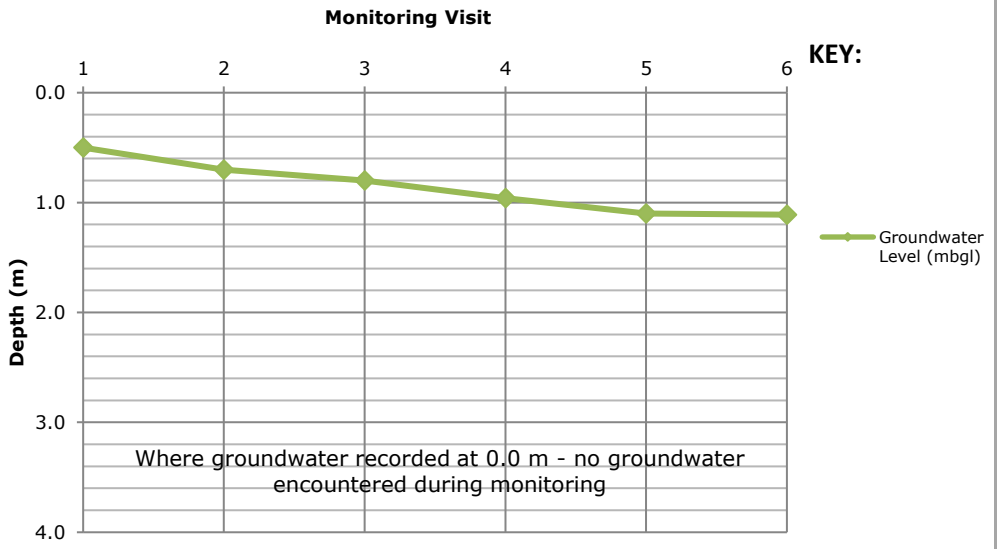
Instruments Used: GFM436 gas analyser / PID MultiRAE lite

REMARKS:

NOTE: **n/a** Not applicable

nm Not measured





GROUND GAS AND GROUNDWATER MONITORING DATA

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 30/05/2025

Exploratory Hole Location **WS108** **Date of Installation** 05/02/2025

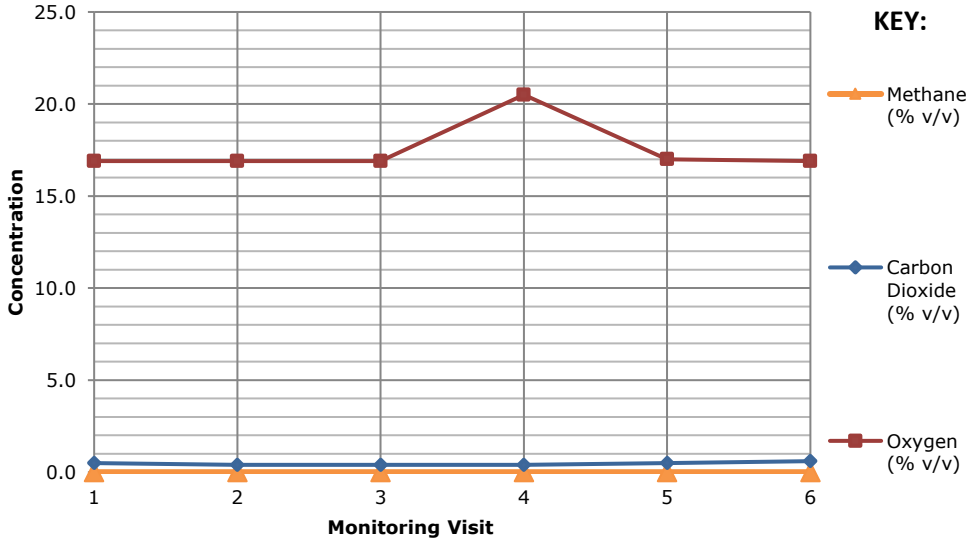
Return Visit #	Monitoring Date	Atmospheric Pressure (mb)	Methane Content (% v/v)	Methane Content (% LEL)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Flow Rate (l/hr)	H2S (ppm)	CO (ppm)	VOC (ppm)	Water Level (mbgl)	Base of Well (mbgl)	Weather Conditions	Comments / Pressure Rise or Fall
1st visit	10/03/2025	993	<0.1	<2	0.5	16.9	<0.1	<1	<1	<1	0.76	4.01	Cool, overcast, damp, breezy (13 °C)	
2nd visit	20/03/2025	1012	<0.1	<2	0.4	16.9	<0.1	<1	<1	<1	0.87	4.02	Warm, sunny, dry, calm (14 °C)	
3rd visit	25/03/2025	1010	<0.1	<2	0.4	16.9	<0.1	<1	<1	<1	0.93	4.03	Cool, cloudy, dry, breezy (11 °C)	
4th visit	02/04/2025	1012	<0.1	<2	0.4	20.5	<0.1	<1	<1	<1	1.02	4.01	Cool, cloudy, dry, windy (13 °C)	
5th visit	10/04/2025	1011	<0.1	<2	0.5	17.0	<0.1	<1	<1	<1	1.10	4.01	Warm, sunny, dry, breezy (15 °C)	
6th visit	14/04/2025	993	<0.1	<2	0.6	16.9	<0.1	<1	<1	<1	1.06	4.02	Cool, cloudy, dry, breezy (15 °C)	

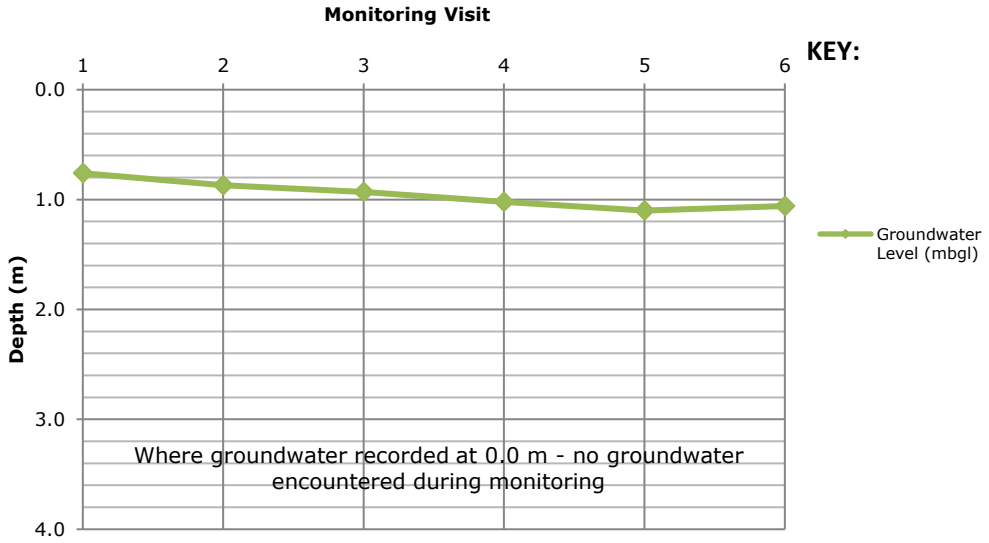
Instruments Used: GFM436 gas analyser / PID MultiRAE lite

REMARKS:

NOTE: **n/a** Not applicable

nm Not measured





GROUND GAS AND GROUNDWATER MONITORING DATA

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 30/05/2025

Exploratory Hole Location **WS112** **Date of Installation** 05/02/2025

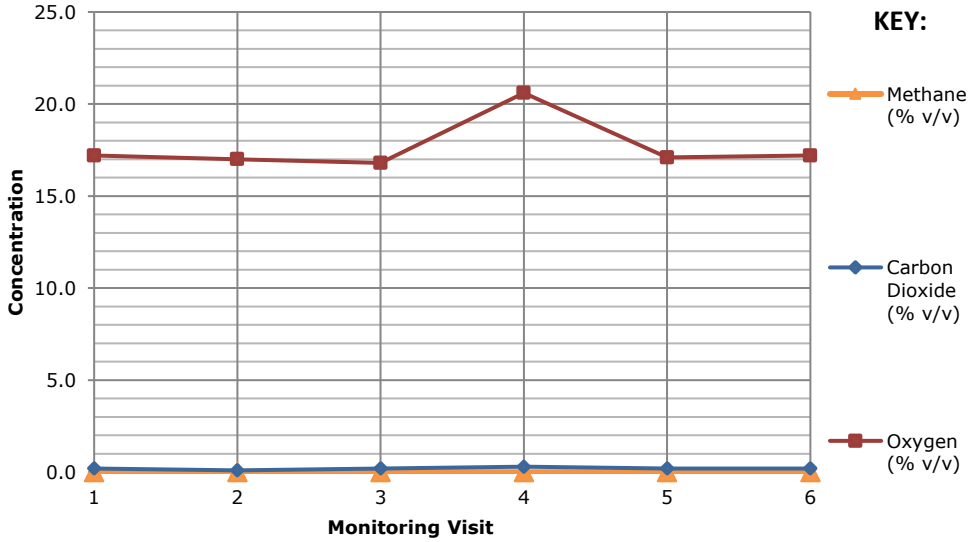
Return Visit #	Monitoring Date	Atmospheric Pressure (mb)	Methane Content (% v/v)	Methane Content (% LEL)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Flow Rate (l/hr)	H2S (ppm)	CO (ppm)	VOC (ppm)	Water Level (mbgl)	Base of Well (mbgl)	Weather Conditions	Comments / Pressure Rise or Fall
1st visit	10/03/2025	993	<0.1	<2	0.2	17.2	<0.1	<1	<1	<1	1.25	4.38	Cool, overcast, damp, breezy (13 °C)	
2nd visit	20/03/2025	1012	<0.1	<2	0.1	17.0	<0.1	<1	<1	<1	1.46	4.44	Warm, sunny, dry, calm (14 °C)	
3rd visit	25/03/2025	1010	<0.1	<2	0.2	16.8	<0.1	<1	<1	<1	1.42	4.40	Cool, cloudy, dry, breezy (11 °C)	
4th visit	02/04/2025	1013	<0.1	<2	0.3	20.6	<0.1	<1	<1	<1	1.54	4.33	Cool, cloudy, dry, windy (13 °C)	
5th visit	10/04/2025	1011	<0.1	<2	0.2	17.1	<0.1	<1	<1	<1	1.77	4.41	Warm, sunny, dry, breezy (15 °C)	
6th visit	14/04/2025	993	<0.1	<2	0.2	17.2	<0.1	<1	<1	<1	1.67	4.40	Cool, cloudy, dry, breezy (15 °C)	

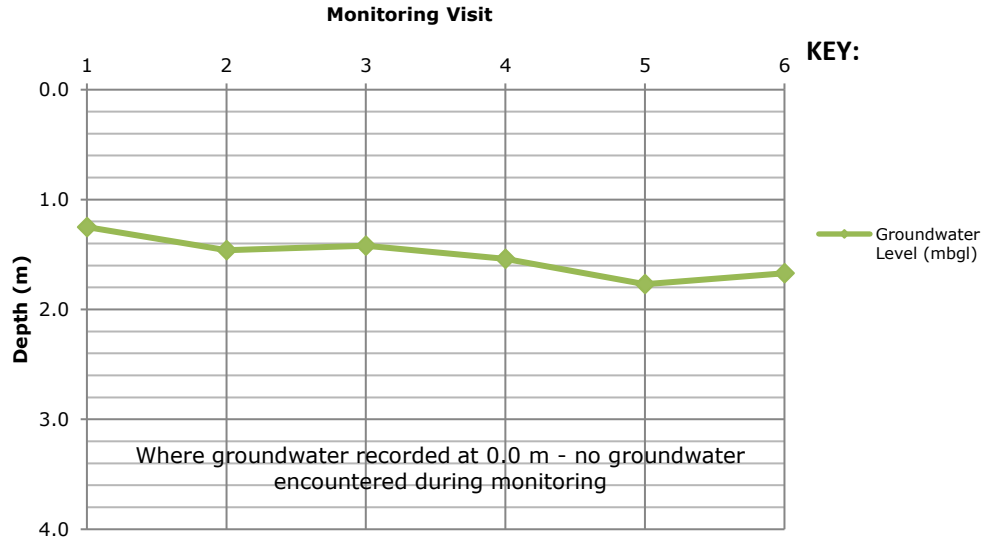
Instruments Used: GFM436 gas analyser / PID MultiRAE lite

REMARKS:

NOTE: **n/a** Not applicable

nm Not measured





GROUND GAS AND GROUNDWATER MONITORING DATA

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 30/05/2025

Exploratory Hole Location **WS119** **Date of Installation** 06/02/2025

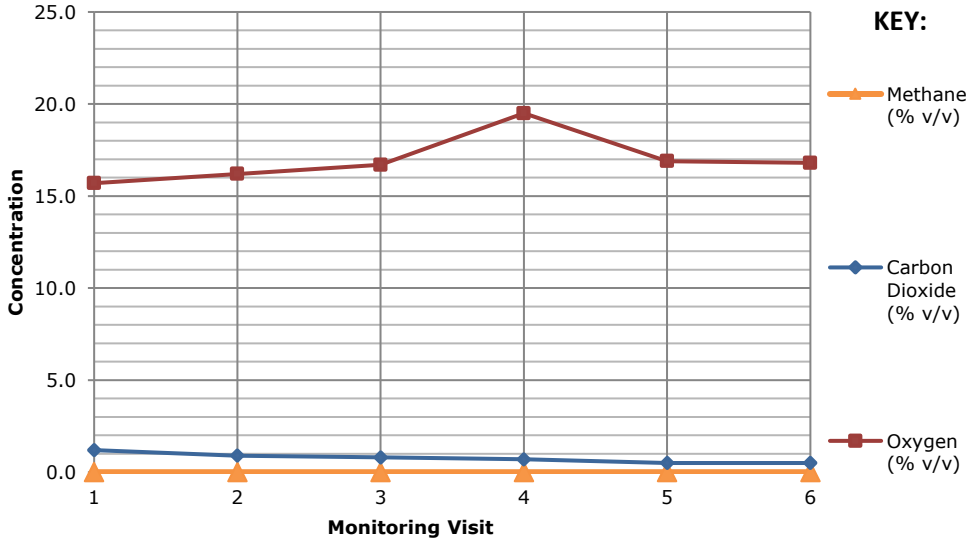
Return Visit #	Monitoring Date	Atmospheric Pressure (mb)	Methane Content (% v/v)	Methane Content (% LEL)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Flow Rate (l/hr)	H2S (ppm)	CO (ppm)	VOC (ppm)	Water Level (mbgl)	Base of Well (mbgl)	Weather Conditions	Comments / Pressure Rise or Fall
1st visit	10/03/2025	994	<0.1	<2	1.2	15.7	<0.1	<1	<1	<1	0.67	3.51	Cool, overcast, damp, breezy (13 °C)	
2nd visit	20/03/2025	1014	<0.1	<2	0.9	16.2	<0.1	<1	<1	<1	0.76	3.49	Warm, sunny, dry, calm (14 °C)	
3rd visit	25/03/2025	1011	<0.1	<2	0.8	16.7	<0.1	<1	<1	<1	0.81	3.46	Cool, cloudy, dry, breezy (11 °C)	
4th visit	02/04/2025	1013	<0.1	<2	0.7	19.5	<0.1	<1	<1	<1	0.80	3.40	Cool, cloudy, dry, windy (13 °C)	
5th visit	10/04/2025	1011	<0.1	<2	0.5	16.9	<0.1	<1	<1	<1	0.90	3.55	Warm, sunny, dry, breezy (15 °C)	
6th visit	14/04/2025	994	<0.1	<2	0.5	16.8	<0.1	<1	<1	<1	0.85	3.44	Cool, cloudy, dry, breezy (15 °C)	

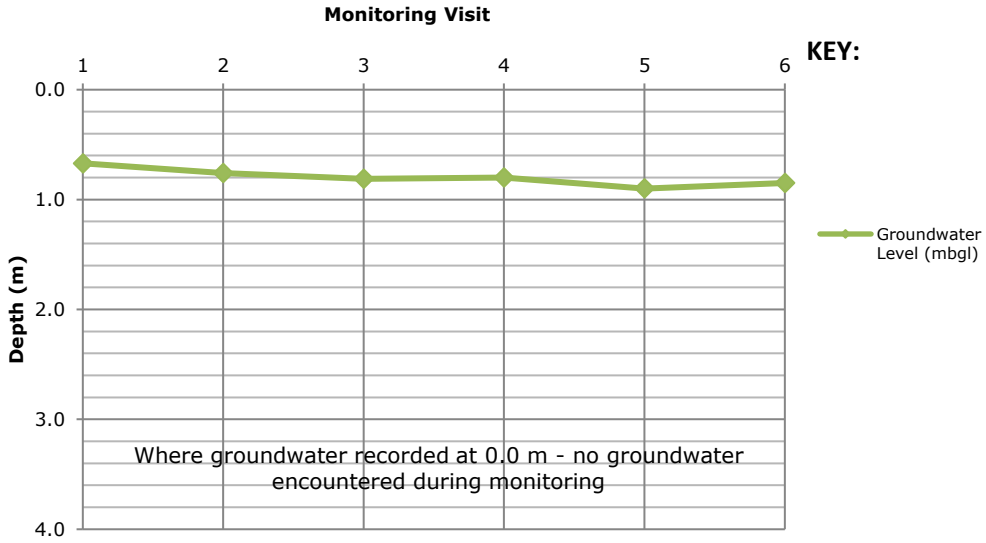
Instruments Used: GFM436 gas analyser / PID MultiRAE lite

REMARKS:

NOTE: **n/a** Not applicable

nm Not measured





GROUND GAS AND GROUNDWATER MONITORING DATA

Project Number: 9081,GI

Project Name: Great Wilsey Park, Haverhill

Date: 30/05/2025

Exploratory Hole Location **WS130** **Date of Installation** 21/02/2025

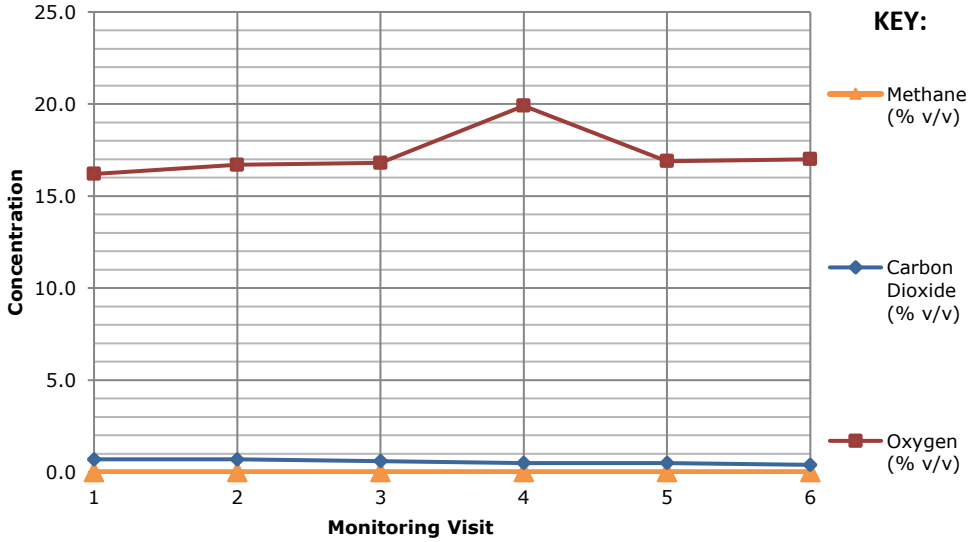
Return Visit #	Monitoring Date	Atmospheric Pressure (mb)	Methane Content (% v/v)	Methane Content (% LEL)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Flow Rate (l/hr)	H2S (ppm)	CO (ppm)	VOC (ppm)	Water Level (mbgl)	Base of Well (mbgl)	Weather Conditions	Comments / Pressure Rise or Fall
1st visit	10/03/2025	993	<0.1	<2	0.7	16.2	<0.1	<1	<1	<1	0.89	3.93	Cool, overcast, damp, breezy (13 °C)	
2nd visit	20/03/2025	1013	<0.1	<2	0.7	16.7	<0.1	<1	<1	<1	0.90	3.90	Warm, sunny, dry, calm (14 °C)	
3rd visit	25/03/2025	1010	<0.1	<2	0.6	16.8	<0.1	<1	<1	<1	0.94	3.90	Cool, cloudy, dry, breezy (11 °C)	
4th visit	02/04/2025	1012	<0.1	<2	0.5	19.9	<0.1	<1	<1	<1	0.86	3.82	Cool, cloudy, dry, windy (13 °C)	
5th visit	10/04/2025	1011	<0.1	<2	0.5	16.9	<0.1	<1	<1	<1	0.91	3.93	Warm, sunny, dry, breezy (15 °C)	
6th visit	14/04/2025	993	<0.1	<2	0.4	17.0	<0.1	<1	<1	<1	0.86	3.88	Cool, cloudy, dry, breezy (15 °C)	

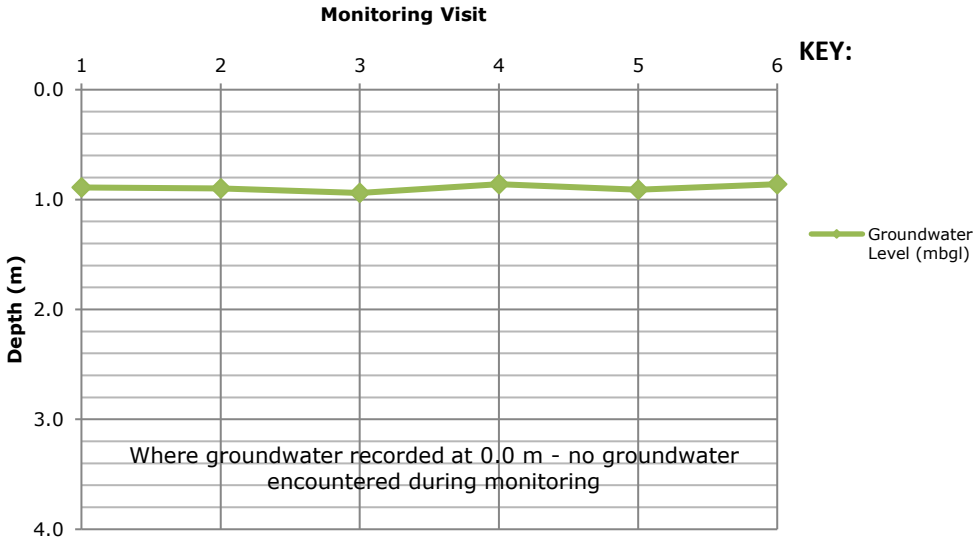
Instruments Used: GFM436 gas analyser / PID MultiRAE lite

REMARKS:

NOTE: **n/a** Not applicable

nm Not measured





Appendix 10 – Environmental Laboratory Test Results

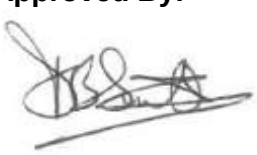
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	25-06928-1
Initial Date of Issue:	06-Mar-2025
Re-Issue Details:	
Client	Geosphere Environmental Ltd
Client Address:	Brightwell Barns Ipswich Road Brightwell Suffolk IP10 0BJ
Contact(s):	Jonathan Khan
Project	9081, GI Phase 2, Great Wilsey Park

Quotation No.:		**Date Received:**	28-Feb-2025
Order No.:		**Date Instructed:**	28-Feb-2025
No. of Samples:	2		
Turnaround (Wkdays):	5	**Results Due:**	06-Mar-2025
Date Approved:	06-Mar-2025		

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 9081, GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-06928	25-06928
Quotation No.:				**Chemtest Sample ID.:**		1939937	1939938
				Client Sample ID.:		E1	E2
				Sample Location:		WS130	WS130
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.20	0.50
				Date Sampled:		21-Feb-2025	21-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	16
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay
pH at 20C		M	2010		4.0	8.1	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.2	0.65
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphate (Total)		U	2430	%	0.010	0.11	0.056
Arsenic		M	2455	mg/kg	0.5	15	7.8
Barium		M	2455	mg/kg	0.5	82	65
Beryllium		U	2455	mg/kg	0.5	1.4	0.8
Cadmium		M	2455	mg/kg	0.10	0.45	0.16
Chromium		M	2455	mg/kg	0.5	39	23
Copper		M	2455	mg/kg	0.50	24	13
Mercury		M	2455	mg/kg	0.05	0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	51	27
Lead		M	2455	mg/kg	0.50	31	12
Vanadium		U	2455	mg/kg	0.5	62	35
Zinc		M	2455	mg/kg	0.50	86	38
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	0.84	1.6
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10

Results - Soil

Project: 9081, GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-06928	25-06928
Quotation No.:				**Chemtest Sample ID.:**		1939937	1939938
				Client Sample ID.:		E1	E2
				Sample Location:		WS130	WS130
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.20	0.50
				Date Sampled:		21-Feb-2025	21-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - The required amount of sample for analysis was not received
H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	25-03969-1
Initial Date of Issue:	05-Mar-2025
Re-Issue Details:	
Client	Geosphere Environmental Ltd
Client Address:	Brightwell Barns Ipswich Road Brightwell Suffolk IP10 0BJ
Contact(s):	Jonathan Khan
Project	9081,GI Phase 2, Great Wilsey Park

Quotation No.:		**Date Received:**	06-Feb-2025
Order No.:		**Date Instructed:**	06-Feb-2025
No. of Samples:	12		
Turnaround (Wkdays):	5	**Results Due:**	12-Feb-2025
Date Approved:	05-Mar-2025		

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd						**Chemtest Job No.:**	25-03969	25-03969	25-03969	25-03969	25-03969	25-03969
Quotation No.:						**Chemtest Sample ID.:**	1927898	1927899	1927902	1927903	1927904	1927907	1927908
						Client Sample ID.:	E1	E2	E1	E2	E3	E1	E2
						Sample Location:	WS101	WS101	WS103	WS103	WS103	WS105	WS105
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.20	0.50	0.20	0.50	1.50	0.20	0.35
						Date Sampled:	03-Feb-2025	03-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type		N	2192		N/A		-	-	-	-		-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020		21	17	20	17	16	23	16
Soil Colour		N	2040		N/A		Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A		Stones and Roots	Stones	Stones and Roots	Stones	Stones	Stones and Roots	Stones
Soil Texture		N	2040		N/A		Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0		6.9	8.1	7.7	8.2	8.4	8.1	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		0.52	1.2	0.92	1.1		1.4	0.97
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		< 0.010	< 0.010	< 0.010	< 0.010	0.013	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		0.60	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		0.70	< 0.50	0.50	< 0.50		< 0.50	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50		0.90	< 0.50	0.80	< 0.50		0.60	< 0.50
Sulphate (Total)		U	2430	%	0.010		0.083	0.16	0.082	0.053		0.16	0.071
Arsenic		M	2455	mg/kg	0.5		9.7	28	13	15		18	15
Barium		M	2455	mg/kg	0.5		50	110	69	58		120	62
Beryllium		U	2455	mg/kg	0.5		0.8	2.4	1.1	1.2		1.7	1.4
Cadmium		M	2455	mg/kg	0.10		0.22	0.28	0.28	0.18		0.42	0.28
Chromium		M	2455	mg/kg	0.5		27	84	36	44		56	48
Molybdenum		M	2455	mg/kg	0.5		0.5	1.4					
Copper		M	2455	mg/kg	0.50		13	35	17	22		26	24
Mercury		M	2455	mg/kg	0.05		0.05	0.08	0.05	< 0.05		0.08	< 0.05
Nickel		M	2455	mg/kg	0.50		26	86	36	50		54	51
Lead		M	2455	mg/kg	0.50		21	33	24	18		46	21
Selenium		M	2455	mg/kg	0.25		0.51	1.4					
Vanadium		U	2455	mg/kg	0.5		40	120	55	65		88	73
Zinc		M	2455	mg/kg	0.50		57	110	69	68		110	74
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05					
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05					
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05					
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		< 0.10	< 0.10					
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05					
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25	< 0.25					
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		2.2	< 2.0					
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		1.0	< 1.0					
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		11	3.1					

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-03969	25-03969	25-03969	25-03969	25-03969	25-03969	25-03969
Quotation No.:				**Chemtest Sample ID.:**		1927898	1927899	1927902	1927903	1927904	1927907	1927908
				Client Sample ID.:		E1	E2	E1	E2	E3	E1	E2
				Sample Location:		WS101	WS101	WS103	WS103	WS103	WS105	WS105
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.50	0.20	0.50	1.50	0.20	0.35
				Date Sampled:		03-Feb-2025	03-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	16	< 3.0					
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10					
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	30	7.3					
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	30	< 10					
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05					
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05					
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05					
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25					
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0					
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0					
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0					
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	7.0	< 2.0					
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	4.3	< 1.0					
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	8.4	< 5.0					
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	13	< 10					
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50					
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	39	< 10					
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	43	< 10					
Organic Matter		M	2625	%	0.40	3.1	0.64	2.9	0.78		0.81	1.4
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0					
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0					
Ethylbenzene		M	2760	µg/kg	1.0	2.6	2.4					
m & p-Xylene		M	2760	µg/kg	1.0	15	10					
o-Xylene		M	2760	µg/kg	1.0	6.8	4.6					
Naphthalene		M	2800	mg/kg	0.10	0.15	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd			**Chemtest Job No.:**			25-03969	25-03969	25-03969	25-03969	25-03969	25-03969	25-03969
Quotation No.:			**Chemtest Sample ID.:**			1927898	1927899	1927902	1927903	1927904	1927907	1927908
				Client Sample ID.:		E1	E2	E1	E2	E3	E1	E2
				Sample Location:		WS101	WS101	WS103	WS103	WS103	WS105	WS105
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.20	0.50	0.20	0.50	1.50	0.20	0.35
				Date Sampled:		03-Feb-2025	03-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-03969	25-03969	25-03969	25-03969	25-03969
Quotation No.:				**Chemtest Sample ID.:**		1927909	1927910	1927911	1927912	1927913
				Client Sample ID.:		E3	E1	E2	E1	E2
				Sample Location:		WS105	WS106	WS106	WS107	WS107
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.50	0.10	0.60	0.10	0.50
				Date Sampled:		04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025
				Asbestos Lab:			DURHAM	DURHAM	DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
ACM Type		N	2192		N/A		-	-	-	
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	15	20	15	20	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	None	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	9.0	7.6	8.2	6.7	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		0.65	0.47	0.60	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	0.087	0.036	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50		0.60	< 0.50	0.50	
Cyanide (Total)		M	2300	mg/kg	0.50		0.80	< 0.50	0.70	
Sulphate (Total)		U	2430	%	0.010		0.14	0.048	0.085	
Arsenic		M	2455	mg/kg	0.5		18	10	13	
Barium		M	2455	mg/kg	0.5		110	64	110	
Beryllium		U	2455	mg/kg	0.5		1.2	0.7	1.0	
Cadmium		M	2455	mg/kg	0.10		0.41	< 0.10	0.52	
Chromium		M	2455	mg/kg	0.5		42	27	35	
Molybdenum		M	2455	mg/kg	0.5		1.2	0.6		
Copper		M	2455	mg/kg	0.50		21	11	16	
Mercury		M	2455	mg/kg	0.05		0.05	< 0.05	0.05	
Nickel		M	2455	mg/kg	0.50		43	26	31	
Lead		M	2455	mg/kg	0.50		33	12	30	
Selenium		M	2455	mg/kg	0.25		0.89	0.35		
Vanadium		U	2455	mg/kg	0.5		65	40	54	
Zinc		M	2455	mg/kg	0.50		87	44	85	
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		< 0.10	< 0.10		
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25	< 0.25		
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		2.0	< 2.0		
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		< 1.0	< 1.0		
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		< 2.0	< 2.0		

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-03969	25-03969	25-03969	25-03969	25-03969
Quotation No.:				**Chemtest Sample ID.:**		1927909	1927910	1927911	1927912	1927913
				Client Sample ID.:		E3	E1	E2	E1	E2
				Sample Location:		WS105	WS106	WS106	WS107	WS107
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.50	0.10	0.60	0.10	0.50
				Date Sampled:		04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025
				Asbestos Lab:			DURHAM	DURHAM	DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		6.5	< 3.0		
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		< 10	< 10		
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		9.9	< 5.0		
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		< 10	< 10		
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05		
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25	< 0.25		
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0		
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0		
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		< 2.0	< 2.0		
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		3.2	< 2.0		
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		1.4	< 1.0		
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		< 5.0	< 5.0		
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		< 10	< 10		
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		< 0.50	< 0.50		
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		13	< 10		
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		15	< 10		
Organic Matter		M	2625	%	0.40		3.3	< 0.40	3.8	
Benzene		M	2760	µg/kg	1.0		< 1.0	< 1.0		
Toluene		M	2760	µg/kg	1.0		3.5	< 1.0		
Ethylbenzene		M	2760	µg/kg	1.0		6.1	< 1.0		
m & p-Xylene		M	2760	µg/kg	1.0		29	6.8		
o-Xylene		M	2760	µg/kg	1.0		14	2.8		
Naphthalene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Phenanthrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10		< 0.10	0.11	< 0.10	
Pyrene		M	2800	mg/kg	0.10		< 0.10	0.11	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd			**Chemtest Job No.:**			25-03969	25-03969	25-03969	25-03969	25-03969
Quotation No.:			**Chemtest Sample ID.:**			1927909	1927910	1927911	1927912	1927913
			Client Sample ID.:			E3	E1	E2	E1	E2
			Sample Location:			WS105	WS106	WS106	WS107	WS107
			Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):			1.50	0.10	0.60	0.10	0.50
			Date Sampled:			04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025	04-Feb-2025
			Asbestos Lab:				DURHAM	DURHAM	DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0		< 2.0	< 2.0	< 2.0	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - The required amount of sample for analysis was not received
H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	25-04571-1
Initial Date of Issue:	24-Feb-2025
Re-Issue Details:	
Client	Geosphere Environmental Ltd
Client Address:	Brightwell Barns Ipswich Road Brightwell Suffolk IP10 0BJ
Contact(s):	Jonathan Khan
Project	9081,GI Phase 2, Great Wilsey Park

Quotation No.:		**Date Received:**	11-Feb-2025
Order No.:		**Date Instructed:**	11-Feb-2025
No. of Samples:	23		
Turnaround (Wkdays):	5	**Results Due:**	17-Feb-2025
Date Approved:	24-Feb-2025		

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:				**Chemtest Sample ID.:**		1930367	1930368	1930369	1930372	1930373	1930374	1930375
				Client Sample ID.:		E1	E2	E3	E1	E2	E1	E2
				Sample Location:		WS109	WS109	WS109	WS111	WS111	WS112	WS112
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.10	0.40	1.20	0.20	0.40	0.20	0.50
				Date Sampled:		05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		N	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	18	15	11	20	17	18	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and	Stones and	Stones and	Roots, Stones and	Stones and	Stones, Roots and	Stones and
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	8.0	8.3	8.4	8.1	8.4	8.4	8.4
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.93	0.86	< 0.40	1.3	1.0	1.9	0.78
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	5.6	2.4	1.3	2.2	0.60	0.70	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	6.2	2.4	1.3	2.2	0.60	0.70	< 0.50
Sulphate (Total)		U	2430	%	0.010	0.068	0.040	0.038	0.13	0.070	0.086	0.092
Arsenic		M	2455	mg/kg	0.5	12	11	18	14	11	13	10
Barium		M	2455	mg/kg	0.5	66	53	70	78	53	79	54
Beryllium		U	2455	mg/kg	0.5	1.1	0.9	0.9	1.4	1.3	1.4	1.3
Cadmium		M	2455	mg/kg	0.10	0.24	0.17	0.27	0.32	0.20	0.28	0.23
Chromium		M	2455	mg/kg	0.5	36	31	25	43	41	44	40
Molybdenum		M	2455	mg/kg	0.5						0.8	1.0
Copper		M	2455	mg/kg	0.50	18	16	14	21	21	22	21
Mercury		M	2455	mg/kg	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	32	29	43	39	42	40	43
Lead		M	2455	mg/kg	0.50	24	15	18	29	15	36	14
Selenium		M	2455	mg/kg	0.25						0.79	0.70
Vanadium		U	2455	mg/kg	0.5	52	45	46	62	58	64	56
Zinc		M	2455	mg/kg	0.50	69	60	40	80	56	81	48
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05						< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05						< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05						< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10						< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05						< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25						< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00						< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00						< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00						< 2.0	< 2.0

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd						**Chemtest Job No.:**	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:						**Chemtest Sample ID.:**	1930367	1930368	1930369	1930372	1930373	1930374	1930375
						Client Sample ID.:	E1	E2	E3	E1	E2	E1	E2
						Sample Location:	WS109	WS109	WS109	WS111	WS111	WS112	WS112
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.10	0.40	1.20	0.20	0.40	0.20	0.50
						Date Sampled:	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00						7.4	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00						< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00						8.4	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00						< 10	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05						< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05						< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05						< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25						< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00						< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00						< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00						< 2.0	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00						4.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00						2.7	1.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00						< 5.0	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00						< 10	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50						< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00						13	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00						16	< 10
Organic Matter		M	2625	%	0.40	2.3	1.1	0.76	2.8	0.83	2.3	0.69
Benzene		M	2760	µg/kg	1.0						< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0						1.8	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0						1.5	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0						8.1	< 1.0
o-Xylene		M	2760	µg/kg	1.0						4.1	< 1.0
Naphthalene		M	2800	mg/kg	0.10	1.7	< 0.10	1.9	0.48	0.69	< 0.10	1.1
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd												
Quotation No.:				**Chemtest Job No.:**		25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
				Chemtest Sample ID.:		1930367	1930368	1930369	1930372	1930373	1930374	1930375
				Client Sample ID.:		E1	E2	E3	E1	E2	E1	E2
				Sample Location:		WS109	WS109	WS109	WS111	WS111	WS112	WS112
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.10	0.40	1.20	0.20	0.40	0.20	0.50
				Date Sampled:		05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025	05-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:				**Chemtest Sample ID.:**		1930376	1930379	1930380	1930381	1930382	1930383	1930384
				Client Sample ID.:		E3	E1	E2	E1	E2	E3	E4
				Sample Location:		WS112	WS115	WS115	WS116	WS116	WS116	WS116
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.50	0.20	0.50	0.20	0.40	0.80	1.50
				Date Sampled:		05-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025
				Asbestos Lab:		IN-TRAN-D	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		N	2192		N/A		-	-	-	-	-	
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	15	14	12	15	14	13	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and	Stones and	Stones	Stones, Roots and	Stones and	Stones and	Stones and
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	8.2	7.6	7.6	7.2	7.5	8.4	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		< 0.40	0.59	0.40	0.56	0.40	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.033	< 0.010	< 0.010	< 0.010	< 0.010	0.019	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50		2.2	< 0.50	6.0	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50		0.70	< 0.50	0.90	< 0.50	< 0.50	
Cyanide (Total)		M	2300	mg/kg	0.50		2.9	< 0.50	6.9	< 0.50	< 0.50	
Sulphate (Total)		U	2430	%	0.010		0.10	0.059	0.097	0.045	0.13	
Arsenic		M	2455	mg/kg	0.5		12	11	15	15	8.6	
Barium		M	2455	mg/kg	0.5		68	56	75	95	30	
Beryllium		U	2455	mg/kg	0.5		1.1	1.0	1.3	1.3	< 0.5	
Cadmium		M	2455	mg/kg	0.10		0.19	0.12	0.28	0.23	0.14	
Chromium		M	2455	mg/kg	0.5		34	31	43	40	20	
Molybdenum		M	2455	mg/kg	0.5				0.9	0.8		
Copper		M	2455	mg/kg	0.50		17	13	41	18	11	
Mercury		M	2455	mg/kg	0.05		< 0.05	< 0.05	0.05	< 0.05	< 0.05	
Nickel		M	2455	mg/kg	0.50		28	28	35	36	21	
Lead		M	2455	mg/kg	0.50		24	12	28	17	8.7	
Selenium		M	2455	mg/kg	0.25				0.73	0.72		
Vanadium		U	2455	mg/kg	0.5		53	44	58	58	26	
Zinc		M	2455	mg/kg	0.50		66	49	76	68	35	
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10				< 0.10	< 0.10		
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25				< 0.25	< 0.25		
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00				< 2.0	< 2.0		
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00				< 1.0	< 1.0		
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00				< 2.0	< 2.0		

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd						**Chemtest Job No.:**	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:						**Chemtest Sample ID.:**	1930376	1930379	1930380	1930381	1930382	1930383	1930384
						Client Sample ID.:	E3	E1	E2	E1	E2	E3	E4
						Sample Location:	WS112	WS115	WS115	WS116	WS116	WS116	WS116
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	1.50	0.20	0.50	0.20	0.40	0.80	1.50
						Date Sampled:	05-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025
						Asbestos Lab:	IN-TRAN-D	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00				4.8	< 3.0		
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00				< 10	< 10		
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00				< 5.0	< 5.0		
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00				< 10	< 10		
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05				< 0.05	< 0.05		
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25				< 0.25	< 0.25		
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00				< 1.0	< 1.0		
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00				< 1.0	< 1.0		
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00				< 2.0	< 2.0		
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00				< 2.0	< 2.0		
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00				1.1	1.0		
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00				< 5.0	< 5.0		
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00				< 10	< 10		
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50				< 0.50	< 0.50		
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00				< 10	< 10		
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00				< 10	< 10		
Organic Matter		M	2625	%	0.40		1.6	0.62	1.7	0.74	1.2	
Benzene		M	2760	µg/kg	1.0				< 1.0	< 1.0		
Toluene		M	2760	µg/kg	1.0				< 1.0	< 1.0		
Ethylbenzene		M	2760	µg/kg	1.0				< 1.0	< 1.0		
m & p-Xylene		M	2760	µg/kg	1.0				< 1.0	< 1.0		
o-Xylene		M	2760	µg/kg	1.0				< 1.0	< 1.0		
Naphthalene		M	2800	mg/kg	0.10		1.4	0.57	1.6	0.15	2.9	
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Pyrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd			**Chemtest Job No.:**			25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:			**Chemtest Sample ID.:**			1930376	1930379	1930380	1930381	1930382	1930383	1930384
			Client Sample ID.:			E3	E1	E2	E1	E2	E3	E4
			Sample Location:			WS112	WS115	WS115	WS116	WS116	WS116	WS116
			Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):			1.50	0.20	0.50	0.20	0.40	0.80	1.50
			Date Sampled:			05-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025	06-Feb-2025
			Asbestos Lab:			IN-TRAN-D	NEW-ASB	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0		< 2.0	< 2.0	< 2.0	< 2.0	2.9	

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd			**Chemtest Job No.:**			25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:			**Chemtest Sample ID.:**			1930385	1930389	1930390	1930397	1930398	1930399	1930400
			Client Sample ID.:			E5	E1	E2	E1	E2	E3	E1
			Sample Location:			WS116	WS118	WS118	WS121	WS121	WS121	WS122
			Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):			2.50	0.10	1.50	0.10	0.40	1.50	0.10
			Date Sampled:			06-Feb-2025	06-Feb-2025	06-Feb-2025	07-Feb-2025	07-Feb-2025	07-Feb-2025	07-Feb-2025
			Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		N	2192		N/A	-	-	-	-	-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	14	19	12	17	16	13	18
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and	Stones, Roots and	Stones and	Stones, Roots and	Stones and	Stones and	Stones, Roots and
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	8.4	6.9	8.4	8.2	8.1	8.2	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.52	< 0.40	0.87	0.86		1.3
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	< 0.010	0.025	< 0.010	0.041	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.60	0.70		< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	0.50	< 0.50	< 0.50	0.60	0.70		< 0.50
Sulphate (Total)		U	2430	%	0.010	0.13	0.086	0.22	0.10	0.43		0.011
Arsenic		M	2455	mg/kg	0.5	7.8	13	7.9	15	14		8.5
Barium		M	2455	mg/kg	0.5	57	76	49	76	59		59
Beryllium		U	2455	mg/kg	0.5	0.9	1.2	1.0	1.3	1.4		0.7
Cadmium		M	2455	mg/kg	0.10	0.19	0.35	0.18	0.36	0.21		0.21
Chromium		M	2455	mg/kg	0.5	25	41	29	45	44		24
Molybdenum		M	2455	mg/kg	0.5	0.8						< 0.5
Copper		M	2455	mg/kg	0.50	16	25	20	23	24		13
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Nickel		M	2455	mg/kg	0.50	28	39	34	42	50		27
Lead		M	2455	mg/kg	0.50	12	28	14	30	18		16
Selenium		M	2455	mg/kg	0.25	0.78						0.40
Vanadium		U	2455	mg/kg	0.5	34	59	40	66	62		34
Zinc		M	2455	mg/kg	0.50	51	73	55	80	67		44
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05						< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05						< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05						< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10						< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05						< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25						< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0						2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.7						2.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.1						2.2

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd			**Chemtest Job No.:**			25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:			**Chemtest Sample ID.:**			1930385	1930389	1930390	1930397	1930398	1930399	1930400
			Client Sample ID.:			E5	E1	E2	E1	E2	E3	E1
			Sample Location:			WS116	WS118	WS118	WS121	WS121	WS121	WS122
			Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):			2.50	0.10	1.50	0.10	0.40	1.50	0.10
			Date Sampled:			06-Feb-2025	06-Feb-2025	06-Feb-2025	07-Feb-2025	07-Feb-2025	07-Feb-2025	07-Feb-2025
			Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0						3.9
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10						< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	8.1						11
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10						11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05						< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05						< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05						< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25						< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0						< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0						< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0						< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0						< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.1						2.4
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0						< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10						< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50						< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10						12
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10						15
Organic Matter		M	2625	%	0.40	< 0.40	3.5	0.50	2.2	1.0		2.2
Benzene		M	2760	µg/kg	1.0	< 1.0						< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0						< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0						< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0						< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0						< 1.0
Naphthalene		M	2800	mg/kg	0.10	4.6	2.1	7.5	6.9	51		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		0.13
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		0.24
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		0.25
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd			**Chemtest Job No.:**			25-04571	25-04571	25-04571	25-04571	25-04571	25-04571	25-04571
Quotation No.:			**Chemtest Sample ID.:**			1930385	1930389	1930390	1930397	1930398	1930399	1930400
			Client Sample ID.:			E5	E1	E2	E1	E2	E3	E1
			Sample Location:			WS116	WS118	WS118	WS121	WS121	WS121	WS122
			Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):			2.50	0.10	1.50	0.10	0.40	1.50	0.10
			Date Sampled:			06-Feb-2025	06-Feb-2025	06-Feb-2025	07-Feb-2025	07-Feb-2025	07-Feb-2025	07-Feb-2025
			Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.6	2.1	7.5	6.9	51		< 2.0

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-04571	25-04571
Quotation No.:				**Chemtest Sample ID.:**		1930401	1930402
				Client Sample ID.:		E2	E3
				Sample Location:		WS122	WS122
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.40	1.50
				Date Sampled:		07-Feb-2025	07-Feb-2025
				Asbestos Lab:		DURHAM	IN-TRAN-D
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type		N	2192		N/A	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected	
Moisture		N	2030	%	0.020	15	14
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and	Stones and
Soil Texture		N	2040		N/A	Clay	Clay
pH at 20C		M	2010		4.0	8.2	8.1
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.76	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	0.025
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	
Sulphate (Total)		U	2430	%	0.010	0.040	
Arsenic		M	2455	mg/kg	0.5	12	
Barium		M	2455	mg/kg	0.5	50	
Beryllium		U	2455	mg/kg	0.5	1.1	
Cadmium		M	2455	mg/kg	0.10	0.20	
Chromium		M	2455	mg/kg	0.5	35	
Molybdenum		M	2455	mg/kg	0.5	1.0	
Copper		M	2455	mg/kg	0.50	21	
Mercury		M	2455	mg/kg	0.05	< 0.05	
Nickel		M	2455	mg/kg	0.50	40	
Lead		M	2455	mg/kg	0.50	16	
Selenium		M	2455	mg/kg	0.25	0.65	
Vanadium		U	2455	mg/kg	0.5	51	
Zinc		M	2455	mg/kg	0.50	55	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-04571	25-04571
Quotation No.:				**Chemtest Sample ID.:**		1930401	1930402
				Client Sample ID.:		E2	E3
				Sample Location:		WS122	WS122
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.40	1.50
				Date Sampled:		07-Feb-2025	07-Feb-2025
				Asbestos Lab:		DURHAM	IN-TRAN-D
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	
Organic Matter		M	2625	%	0.40	0.69	
Benzene		M	2760	µg/kg	1.0	< 1.0	
Toluene		M	2760	µg/kg	1.0	< 1.0	
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	
o-Xylene		M	2760	µg/kg	1.0	< 1.0	
Naphthalene		M	2800	mg/kg	0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10	< 0.10	
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	
Pyrene		M	2800	mg/kg	0.10	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-04571	25-04571
Quotation No.:				**Chemtest Sample ID.:**		1930401	1930402
				Client Sample ID.:		E2	E3
				Sample Location:		WS122	WS122
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.40	1.50
				Date Sampled:		07-Feb-2025	07-Feb-2025
				Asbestos Lab:		DURHAM	IN-TRAN-D
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**		
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - The required amount of sample for analysis was not received
H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	25-05105-1
Initial Date of Issue:	28-Feb-2025
Re-Issue Details:	
Client	Geosphere Environmental Ltd
Client Address:	Brightwell Barns Ipswich Road Brightwell Suffolk IP10 0BJ
Contact(s):	Jonathan Khan
Project	9081,GI Phase 2, Great Wilsey Park

Quotation No.:		**Date Received:**	14-Feb-2025
Order No.:		**Date Instructed:**	14-Feb-2025
No. of Samples:	14		
Turnaround (Wkdays):	11	**Results Due:**	28-Feb-2025
Date Approved:	28-Feb-2025	**Subcon Results Due:**	07-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-05105	25-05105	25-05105	25-05105	25-05105	25-05105	25-05105
Quotation No.:				**Chemtest Sample ID.:**		1932506	1932507	1932508	1932510	1932511	1932512	1932514
				Client Sample ID.:		E1	E2	E3	E1	E2	E3	E1
				Sample Location:		WS123	WS123	WS123	WS125	WS125	WS125	WS127
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.10	0.40	0.80	0.10	0.50	1.50	0.20
				Date Sampled:		10-Feb-2025	10-Feb-2025	10-Feb-2025	10-Feb-2025	10-Feb-2025	10-Feb-2025	11-Feb-2025
				Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		N	2192		N/A	-		-	-	-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	21	12	16	20	15	13	16
Soil Colour		N	2040		N/A	Brown		Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and		Stones, Roots and	Stones, Roots and	Stones and	Stones and	Stones, Roots and
Soil Texture		N	2040		N/A	Clay		Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	7.5	8.0	7.8	7.0	8.0	8.1	6.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.5	0.97	0.62	1.1	0.67		< 0.40
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	< 0.010	0.023	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		0.60
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		0.60
Sulphate (Total)		U	2430	%	0.010	0.068	0.072	0.046	0.11	0.028		0.063
Arsenic		M	2455	mg/kg	0.5	12	12	8.7	19	11		13
Barium		M	2455	mg/kg	0.5	60	110	34	110	45		57
Beryllium		U	2455	mg/kg	0.5	1.2	1.1	0.8	1.6	1.1		0.8
Cadmium		M	2455	mg/kg	0.10	0.33	0.56	0.19	0.44	0.20		0.13
Chromium		M	2455	mg/kg	0.5	33	24	25	53	32		29
Molybdenum		M	2455	mg/kg	0.5							0.8
Copper		M	2455	mg/kg	0.50	17	32	14	28	17		16
Mercury		M	2455	mg/kg	0.05	< 0.05	0.17	< 0.05	0.05	< 0.05		< 0.05
Nickel		M	2455	mg/kg	0.50	35	28	26	57	35		25
Lead		M	2455	mg/kg	0.50	21	98	11	36	13		27
Selenium		M	2455	mg/kg	0.25							0.61
Vanadium		U	2455	mg/kg	0.5	51	41	40	82	48		45
Zinc		M	2455	mg/kg	0.50	62	130	37	98	55		65
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	S	2780	mg/kg	0.10							< 0.10
Aliphatic VPH >C6-C8	HS_2D_AL	S	2780	mg/kg	0.10							< 0.10
Aliphatic Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	19.00							< 19
Aromatic Total >C05-C35	HS_2D_AL	S	2780	mg/kg	19.00							< 19
Ali Aro Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	38.00							< 38
Aliphatic VPH >C8-C10	HS_2D_AL	SN	2780	mg/kg	0.05							< 0.05
Aliphatic EPH >C10-C12	EH_2D_AL_#1	S	2690	mg/kg	0.20							1.8
Aliphatic EPH >C12-C16	EH_2D_AL_#1	S	2690	mg/kg	4.00							< 4.0
Aliphatic EPH >C16-C21	EH_2D_AL_#1	S	2690	mg/kg	7.00							< 8.00

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-05105	25-05105	25-05105	25-05105	25-05105	25-05105	25-05105
Quotation No.:				**Chemtest Sample ID.:**		1932506	1932507	1932508	1932510	1932511	1932512	1932514
				Client Sample ID.:		E1	E2	E3	E1	E2	E3	E1
				Sample Location:		WS123	WS123	WS123	WS125	WS125	WS125	WS127
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.10	0.40	0.80	0.10	0.50	1.50	0.20
				Date Sampled:		10-Feb-2025	10-Feb-2025	10-Feb-2025	10-Feb-2025	10-Feb-2025	10-Feb-2025	11-Feb-2025
				Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic EPH >C21-C35	EH_2D_AL_#1	S	2690	mg/kg	7.00							< 8.00
Aromatic VPH >C5-C7	HS_2D_AR	S	2780	mg/kg	0.10							< 0.10
Aromatic VPH >C7-C8	HS_2D_AR	S	2780	mg/kg	0.10							< 0.10
Aromatic VPH >C8-C10	HS_2D_AR	S	2780	mg/kg	0.10							< 0.10
Aromatic EPH >C10-C12	EH_2D_AR_#1	S	2690	mg/kg	0.20							< 1.00
Aromatic EPH >C12-C16	EH_2D_AR_#1	S	2690	mg/kg	4.00							< 4.0
Aromatic EPH >C16-C21	EH_2D_AR_#1	S	2690	mg/kg	7.00							< 10.00
Aromatic EPH >C21-C35	EH_2D_AR_#1	S	2690	mg/kg	7.00							< 10.00
Organic Matter		M	2625	%	0.40	2.9	1.3	1.7	2.6	0.66		1.0
Benzene		M	2760	µg/kg	1.0							< 1.0
Toluene		M	2760	µg/kg	1.0							< 1.0
Ethylbenzene		M	2760	µg/kg	1.0							< 1.0
m & p-Xylene		M	2760	µg/kg	1.0							< 1.0
o-Xylene		M	2760	µg/kg	1.0							< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.56	< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.18	< 0.10	< 0.10	< 0.10		< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.85	< 0.10	< 0.10	< 0.10		< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.27	< 0.10	< 0.10	< 0.10		< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.9	< 0.10	< 0.10	< 0.10		< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	1.7	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.85	< 0.10	< 0.10	< 0.10		< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.85	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.2	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.42	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	0.95	< 0.10	< 0.10	< 0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	0.61	< 0.10	< 0.10	< 0.10		< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	0.58	< 0.10	< 0.10	< 0.10		< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	11	< 2.0	< 2.0	< 2.0		< 2.0

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-05105	25-05105	25-05105	25-05105	25-05105	25-05105	25-05105
Quotation No.:				**Chemtest Sample ID.:**		1932515	1932516	1932517	1932518	1932519	1932520	1932521
				Client Sample ID.:		E2	E3	E4	E5	E1	E2	E3
				Sample Location:		WS127	WS127	WS127	WS127	WS128	WS128	WS128
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	0.80	1.50	2.50	0.10	0.70	1.50
				Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM	DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		N	2192		N/A	-	-		-	-	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	16	13	14	17	18	17	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and	Stones and	Stones and	Stones and	Stones, Roots and	Stones and	Stones and
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	7.8	8.1	8.2	8.0	7.1	7.4	7.9
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40		< 0.40	< 0.40	0.63	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50	0.50	< 0.50	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50	0.50	< 0.50	
Sulphate (Total)		U	2430	%	0.010	0.029	0.039		0.055	0.069	0.040	
Arsenic		M	2455	mg/kg	0.5	10	21		15	15	12	
Barium		M	2455	mg/kg	0.5	44	65		57	71	66	
Beryllium		U	2455	mg/kg	0.5	0.7	0.9		1.2	1.2	0.9	
Cadmium		M	2455	mg/kg	0.10	0.18	0.30		0.14	0.25	0.12	
Chromium		M	2455	mg/kg	0.5	21	35		32	37	32	
Molybdenum		M	2455	mg/kg	0.5	0.7	1.6		2.6			
Copper		M	2455	mg/kg	0.50	10	16		25	20	16	
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	
Nickel		M	2455	mg/kg	0.50	22	42		49	34	29	
Lead		M	2455	mg/kg	0.50	12	17		18	31	17	
Selenium		M	2455	mg/kg	0.25	0.44	0.51		0.78			
Vanadium		U	2455	mg/kg	0.5	34	62		47	59	50	
Zinc		M	2455	mg/kg	0.50	37	48		81	83	62	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10		< 0.10			
Aliphatic VPH >C6-C8	HS_2D_AL	S	2780	mg/kg	0.10	< 0.10	< 0.10		< 0.10			
Aliphatic Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	19.00	< 19	< 19		< 19			
Aromatic Total >C05-C35	HS_2D_AL	S	2780	mg/kg	19.00	< 19	< 19		< 19			
Ali Aro Total >C05-C35	HS_2D_AL	SN	2780	mg/kg	38.00	< 38	< 38		< 38			
Aliphatic VPH >C8-C10	HS_2D_AL	SN	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05			
Aliphatic EPH >C10-C12	EH_2D_AL_#1	S	2690	mg/kg	0.20	< 1.00	< 1.00		< 1.00			
Aliphatic EPH >C12-C16	EH_2D_AL_#1	S	2690	mg/kg	4.00	< 4.0	< 4.0		< 4.0			
Aliphatic EPH >C16-C21	EH_2D_AL_#1	S	2690	mg/kg	7.00	< 8.00	< 7.0		< 8.00			

Results - Soil

Project: 9081,GI Phase 2, Great Wilsey Park

Client: Geosphere Environmental Ltd				**Chemtest Job No.:**		25-05105	25-05105	25-05105	25-05105	25-05105	25-05105	25-05105
Quotation No.:				**Chemtest Sample ID.:**		1932515	1932516	1932517	1932518	1932519	1932520	1932521
				Client Sample ID.:		E2	E3	E4	E5	E1	E2	E3
				Sample Location:		WS127	WS127	WS127	WS127	WS128	WS128	WS128
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.50	0.80	1.50	2.50	0.10	0.70	1.50
				Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
				Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM	DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic EPH >C21-C35	EH_2D_AL_#1	S	2690	mg/kg	7.00	< 8.00	< 8.00		< 8.00			
Aromatic VPH >C5-C7	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10		< 0.10			
Aromatic VPH >C7-C8	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10		< 0.10			
Aromatic VPH >C8-C10	HS_2D_AR	S	2780	mg/kg	0.10	< 0.10	< 0.10		< 0.10			
Aromatic EPH >C10-C12	EH_2D_AR_#1	S	2690	mg/kg	0.20	< 1.00	< 1.00		< 1.00			
Aromatic EPH >C12-C16	EH_2D_AR_#1	S	2690	mg/kg	4.00	< 4.0	< 4.0		< 4.0			
Aromatic EPH >C16-C21	EH_2D_AR_#1	S	2690	mg/kg	7.00	< 10.00	< 10.00		< 10.00			
Aromatic EPH >C21-C35	EH_2D_AR_#1	S	2690	mg/kg	7.00	< 10.00	< 10.00		< 10.00			
Organic Matter		M	2625	%	0.40	0.55	< 0.40		0.66	2.1	0.98	
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0			
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0			
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0			
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0			
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0			
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - The required amount of sample for analysis was not received
H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Appendix 11 – Geotechnical Laboratory Test Results

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

Client:

Geosphere Environmental Ltd

Head Office
Brightwell Barns
Ipswich Road
Brightwell
Suffolk
IP10 0BJ

Soil Property Testing Ltd

15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG

Tel: 01480 455579
Email: enquiries@soilpropertytesting.com
Website: www.soilpropertytesting.com

Samples Submitted By:

Geosphere Environmental Ltd

Samples Labelled:

Great Wilsey Park, Haverhill

Approved Signatories:

☑ **J.C. Garner B.Eng (Hons) FGS**
Technical Director & Quality Manager

☐ **W. Johnstone**
Materials Lab Manager

Date Received: 22/03/2025

Samples Tested Between: 22/03/2025 **and** 11/04/2025

Remarks:

For the attention of Jonathan Khan
Your Reference No: 9081,GI

Notes:

1. All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary.
2. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
3. Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation Schedule for this testing laboratory.
4. This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory.
5. The results within this report only relate to the items tested or sampled.

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**		
Serial No.	**46975_1**	**Target Date**	09/04/2025
Scheduled By	Geosphere Environmental Ltd		

Schedule Remarks

Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BSEN)	Liquid/Plastic Limits	Wet Sieve Preparation	Triaxial Test	Sulphate Content/pH Value													Sample Remarks
BH01	B	3	1.00	1	1	1															
BH01	SPT	6	2.00	1																	
BH01	UT	8	3.00				1														
BH01	D	9	3.45	1																	
BH01	SPT	12	4.00	1																	
BH01	D	13	4.70					1													
BH01	D	19	7.00	1	1	1															
BH01	UT	25	10.50				1														
BH01	D	26	10.95	1																	
BH01	D	31	13.95	1																	
BH01	D	37	16.95	1																	
BH02	B	3	1.00	1	1	1															
BH02	SPT	9	3.00	1																	
BH02	UT	12	4.00				1														
BH02	SPT	15	5.00	1																	
BH02	D	30	13.95	1																	
BH02	UT	40	19.50				1														
BH03	B	3	1.00	1	1	1															
BH03	D	7	2.00	1																	
BH03	B	13	4.00	1																	
BH03	D	19	6.60	1																	
BH03	D	30	13.00	1	1	1															
BH04	B	3	1.00	1	1	1															
BH04	D	5	1.80	1																	
BH04	D	7	2.45	1																	
BH04	UT	11	4.00	1																	
BH04	D	12	4.45	1	1	1															
BH04	UT	18	7.50				1														
BH04	D	22	10.00	1																	
BH04	SPT	26	12.00	1																	
BH04	D	33	15.80	1																	
BH04	UT	35	16.50				1														
BH04	D	37	17.50	1																	

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**		
Serial No.	**46975_1**	**Target Date**	09/04/2025
Scheduled By	Geosphere Environmental Ltd		
Schedule Remarks			

Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BSEN)	Liquid/Plastic Limits	Wet Sieve Preparation	Triaxial Test	Sulphate Content/pH Value														Sample Remarks
BH04	UT	40	19.50	1																		
BH05	B	3	1.00	1	1	1																
BH05	D	8	2.70	1	1	1																
BH05	UT	9	3.00				1															
BH05	D	11	3.70	1																		
BH05	D	14	4.70	1				1														
BH05	D	17	5.70	1																		
BH05	UT	20	7.50	1																		
BH05	D	26	11.50	1																		
BH05	D	30	13.95					1														
BH05	SPT	32	15.00	1																		
BH06	D	5	1.40	1	1	1																
BH06	UT	6	2.00				1															
BH06	D	13	4.70	1	1	1																
BH06	D	15	5.70					1														
BH06	D	19	7.95	1																		
BH06	D	28	13.00	1																		
BH06	SPT	31	15.00					1														
BH06	UT	33	16.50				1															
Totals				**39**	**11**	**11**	**9**	**5**														**End of Schedule**

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
BH01	1.00	B	3	**23.6**	Soft mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	
BH01	2.00 - 2.45	SPT	6	**17.7**	Firm mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH01	3.45	D	9	**19.1**	Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH01	4.00	SPT	12	**18.9**	Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH01	7.00	D	19	**25.7**	Soft dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk	
BH01	10.95	D	26	**17.0**	Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	
BH01	13.95	D	31	**19.0**	Stiff olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH01	16.95	D	37	**18.0**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH02	1.00 - 1.20	B	3	**18.5**	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH02	3.00 - 3.45	SPT	9	**22.5**	Soft olive slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH02	5.00 - 5.45	SPT	15	**17.3**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH02	13.95	D	30	**17.4**	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH03	1.00 - 1.20	B	3	**14.2**	Brownish yellow slightly clayey gravelly silty SAND. Gravel is brown, black and white fine to coarse angular to rounded chalk and chert	
BH03	2.00	D	7	**14.7**	Very soft brownish yellow slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
BH03	4.00 - 4.50	B	13	**11.4**	Brown, black and white fine to coarse angular to rounded very sandy chert and quartzite GRAVEL. Sand is brownish grey	
BH03	6.60	D	19	**15.0**	Soft light olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH03	13.00	D	30	**30.5**	White structureless CHALK with rare harder intact chalk fragments	
BH04	1.00 - 1.20	B	3	**26.4**	Soft mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	
BH04	1.80	D	5	**21.9**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
BH04	2.45	D	7	**22.3**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
BH04	4.00 - 4.45	UT	11	**19.7**	Very stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	
BH04	4.45	D	12	**19.3**	Stiff dark olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH04	10.00	D	22	**17.3**	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH04	12.00 - 12.45	SPT	26	**17.8**	Stiff dark grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH04	15.80	D	33	**17.5**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH04	17.50	D	37	**19.0**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	
BH04	19.50 - 19.95	UT	40	**18.8**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	1.00 - 1.20	B	3	**20.4**	Very soft yellowish brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to subrounded chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

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Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
BH05	2.70	D	8	**21.7**	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	3.70	D	11	**22.2**	Soft olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	4.70	D	14	**18.5**	Stiff greyish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	5.70	D	17	**19.9**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	7.50 - 7.95	UT	20	**18.5**	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	11.50	D	26	**17.6**	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH05	15.00 - 15.45	SPT	32	**17.6**	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH06	1.40	D	5	**24.1**	Soft brownish yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH06	4.70	D	13	**20.0**	Firm dark grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH06	7.95	D	19	**17.8**	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
BH06	13.00	D	28	**18.7**	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

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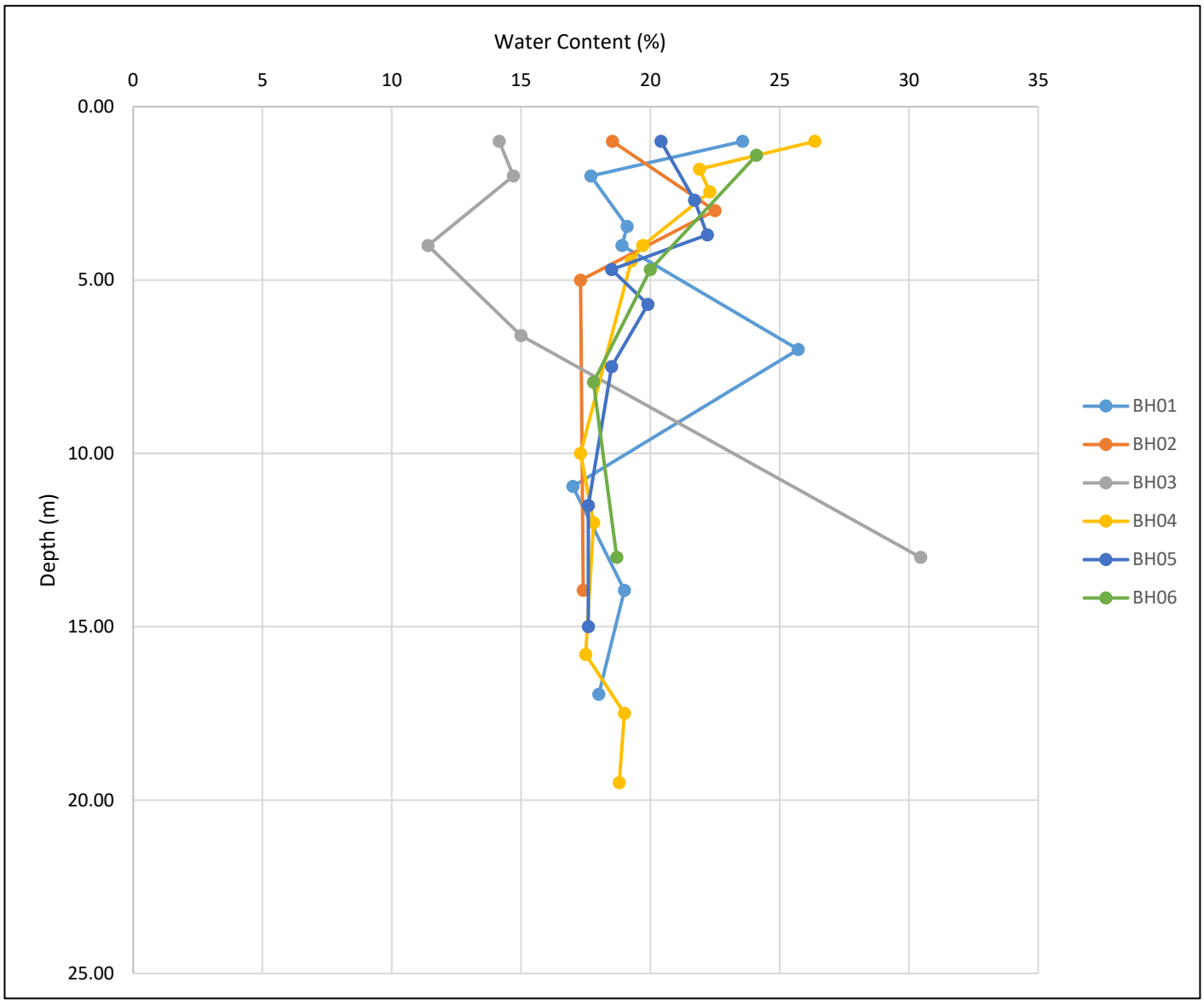
UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

WATER CONTENT VS DEPTH BELOW GROUND LEVEL



Method of Preparation:	BSEN ISO 17892-1: 2014+A1:2022
Method of Test:	BSEN ISO 17892-1: 2014+A1:2022
Type of Sample Key:	U - Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	
Remarks to Include:	Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

TEST REPORT

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UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti-city Index (%)	Liquid-ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
BH01	1.00	B	3	**23.6**	49	17	32	0.21	Wet Sieved	24 (M)	31.0*	28	Soft mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	CI
BH01	7.00	D	19	**25.7**	45	18	27	0.29	Wet Sieved	8 (M)	28.0*	28	Soft dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk	CI
BH02	1.00 - 1.20	B	3	**18.5**	45	17	28	0.05	Wet Sieved	13 (M)	21.3*	24	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	CI
BH03	1.00 - 1.20	B	3	**14.2**	20	16	4	-0.46	Wet Sieved	20 (M)	17.7*	44	Brownish yellow slightly clayey gravelly silty SAND. Gravel is brown, black and white fine to coarse angular to rounded chalk and chert	ML
BH03	13.00	D	30	**30.5**	31	24	7	0.92	Wet Sieved	2 (M)	31.1*	24	White structureless CHALK with rare harder intact chalk fragments	ML
BH04	1.00 - 1.20	B	3	**26.4**	48	20	28	0.23	Wet Sieved	14 (M)	30.7*	24	Soft mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	CI
BH04	4.45	D	12	**19.3**	45	19	26	0.01	Wet Sieved	7 (M)	20.7*	27	Stiff dark olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	CI
BH05	1.00 - 1.20	B	3	**20.4**	39	18	21	0.11	Wet Sieved	43 (M)	35.8*	26	Very soft yellowish brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to subrounded chert	CI

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments: *Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.

Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured

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UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti-city Index (%)	Liquid-ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
BH05	2.70	D	8	**21.7**	38	16	22	0.26	Wet Sieved	15 (M)	25.5*	25	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	CI
BH06	1.40	D	5	**24.1**	46	18	28	0.22	Wet Sieved	9 (M)	26.5*	27	Soft brownish yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	CI
BH06	4.70	D	13	**20.0**	36	16	20	0.20	Wet Sieved	10 (M)	22.2*	27	Firm dark grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	CI

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments: *Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.

Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured

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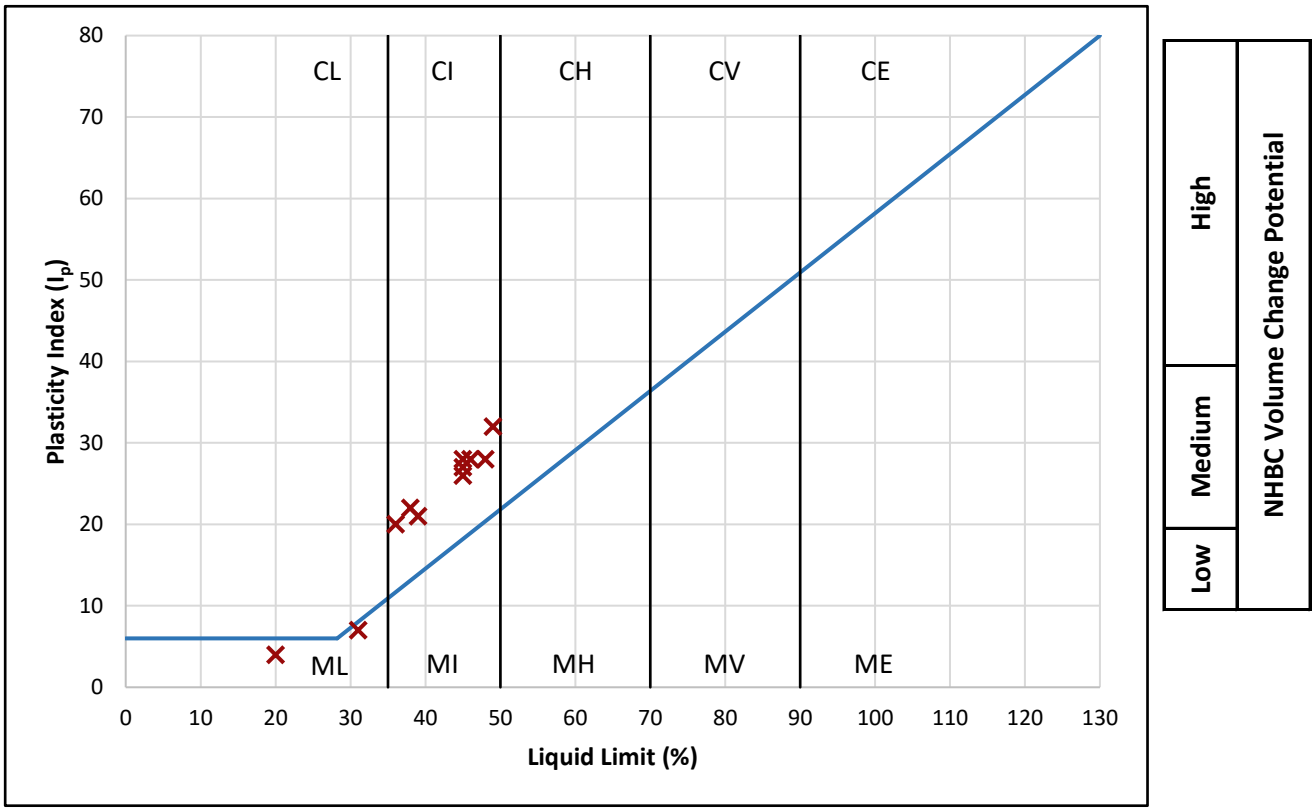
PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

Plasticity				
Low	Medium	High	Very High	Extremely High



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS 1377: Part 2: 1990: 4.2
Method of Test:	BS1377: Part 2: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index

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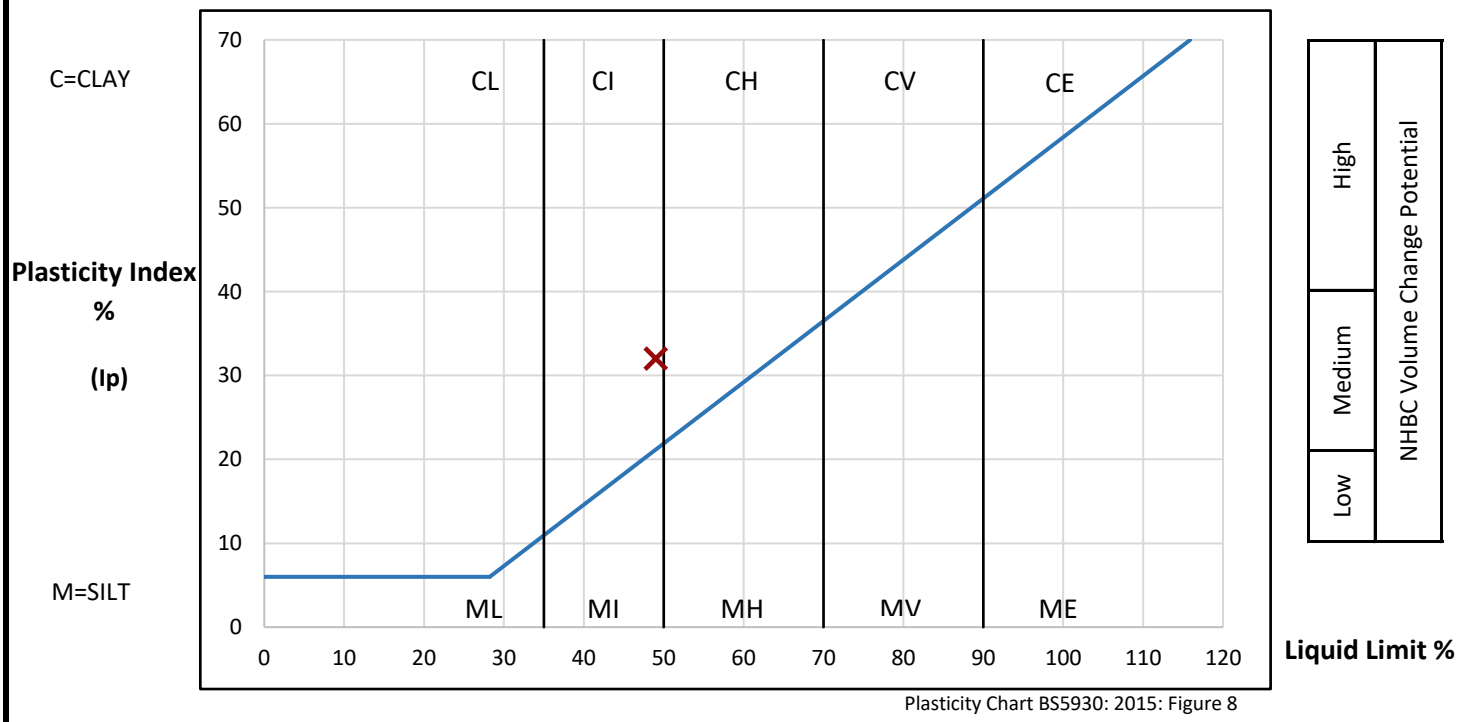
Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH01	1.00	B	3	23.6	Soft mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	

PREPARATION				Liquid Limit	49 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	17 %
Sample retained 0.425mm sieve	(Measured)	24 %		Plasticity Index	32 %
Corrected water content for material passing 0.425mm		31.0 %		Liquidity Index	0.21
Sample retained 2mm sieve	(Measured)	21 %		NHBC Modified (I'p)	24 %
Curing time	28 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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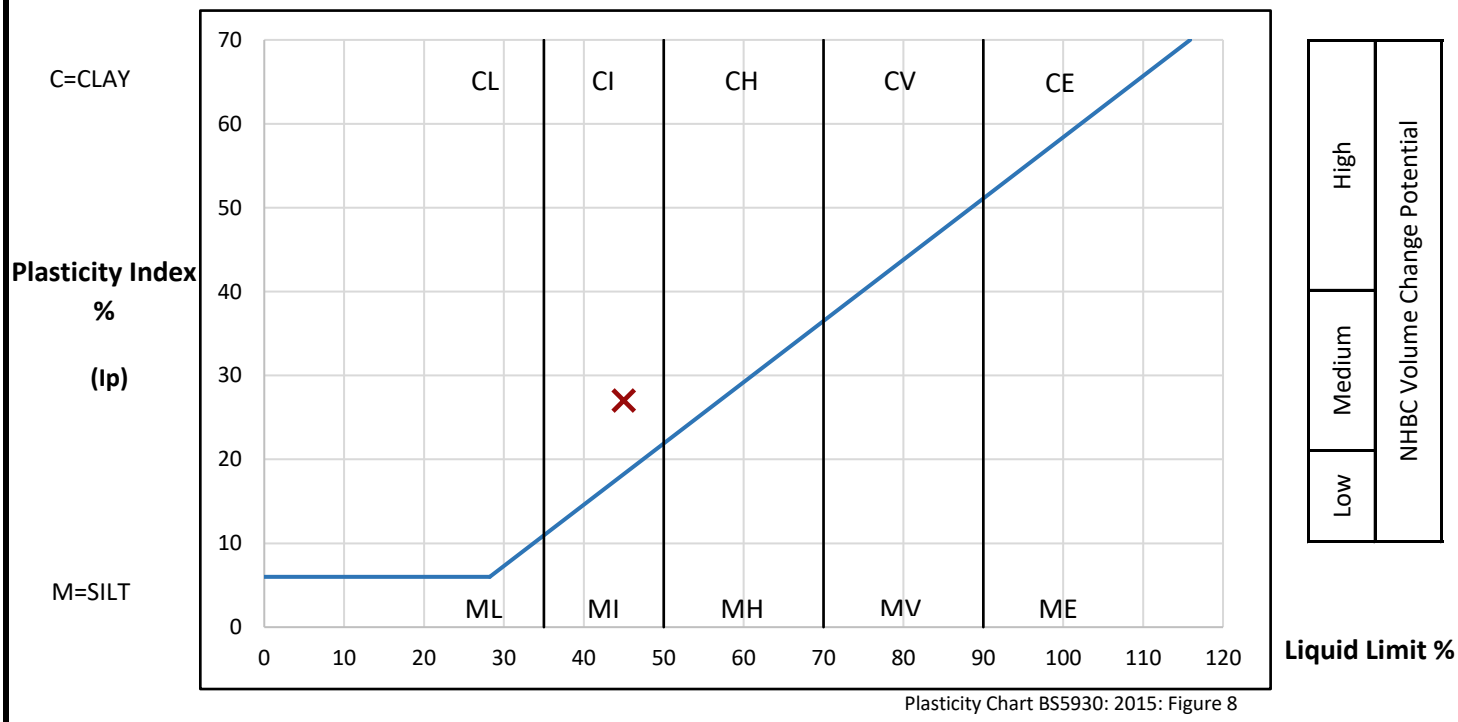
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH01	7.00	D	19	25.7	Soft dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk	

PREPARATION				Liquid Limit	45 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	18 %
Sample retained 0.425mm sieve	(Measured)	8 %		Plasticity Index	27 %
Corrected water content for material passing 0.425mm		28.0 %		Liquidity Index	0.29
Sample retained 2mm sieve	(Measured)	5 %		NHBC Modified (I'p)	25 %
Curing time	28 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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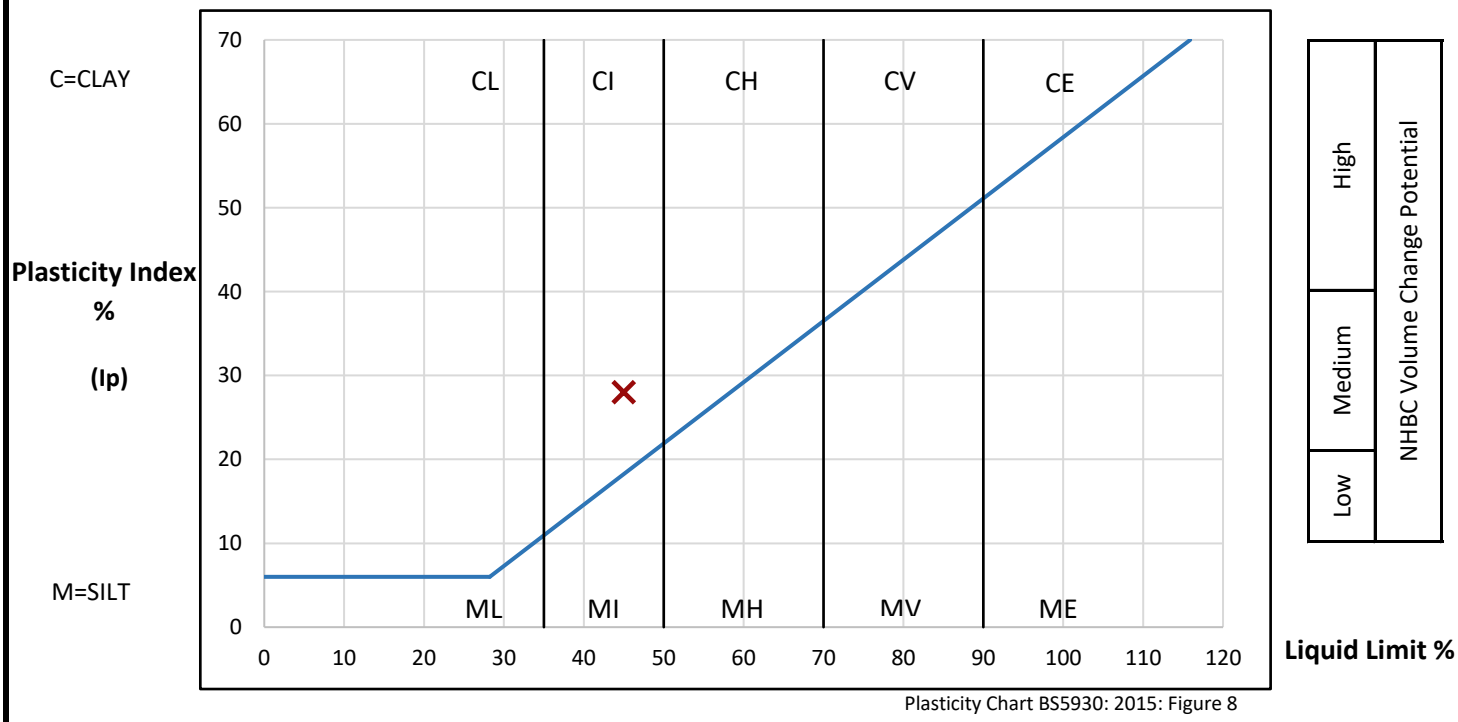
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH02	1.00 - 1.20	B	3	18.5	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	45 %
Method of preparation		Wet sieved over 0.425mm sieve		Plastic Limit	17 %
Sample retained 0.425mm sieve	(Measured)	13 %		Plasticity Index	28 %
Corrected water content for material passing 0.425mm		21.3 %		Liquidity Index	0.05
Sample retained 2mm sieve	(Measured)	11 %		NHBC Modified (I'p)	24 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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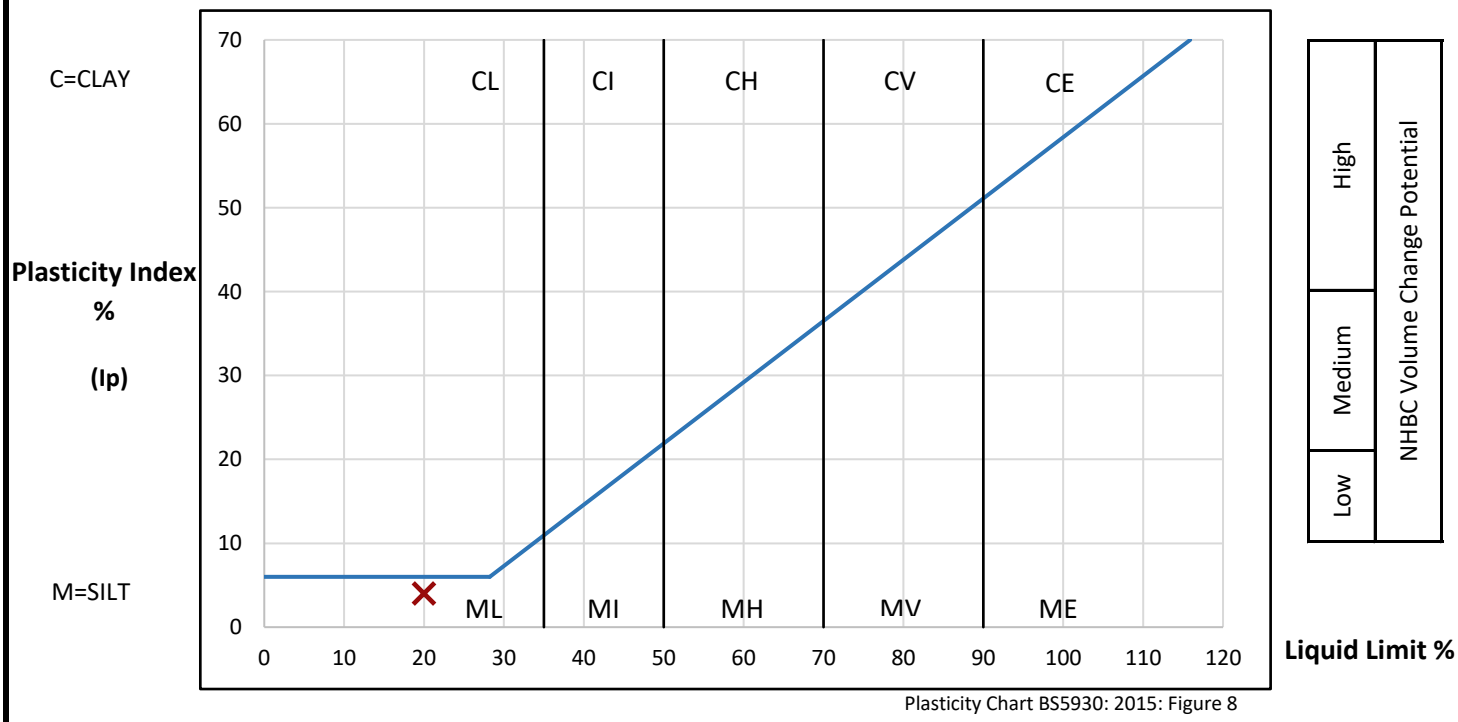
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH03	1.00 - 1.20	B	3	14.2	Brownish yellow slightly clayey gravelly silty SAND. Gravel is brown, black and white fine to coarse angular to rounded chalk and chert	

PREPARATION				Liquid Limit	20 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	16 %
Sample retained 0.425mm sieve	(Measured)	20 %		Plasticity Index	4 %
Corrected water content for material passing 0.425mm		17.7 %		Liquidity Index	-0.46
Sample retained 2mm sieve	(Measured)	15 %		NHBC Modified (I'p)	3 %
Curing time	44 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

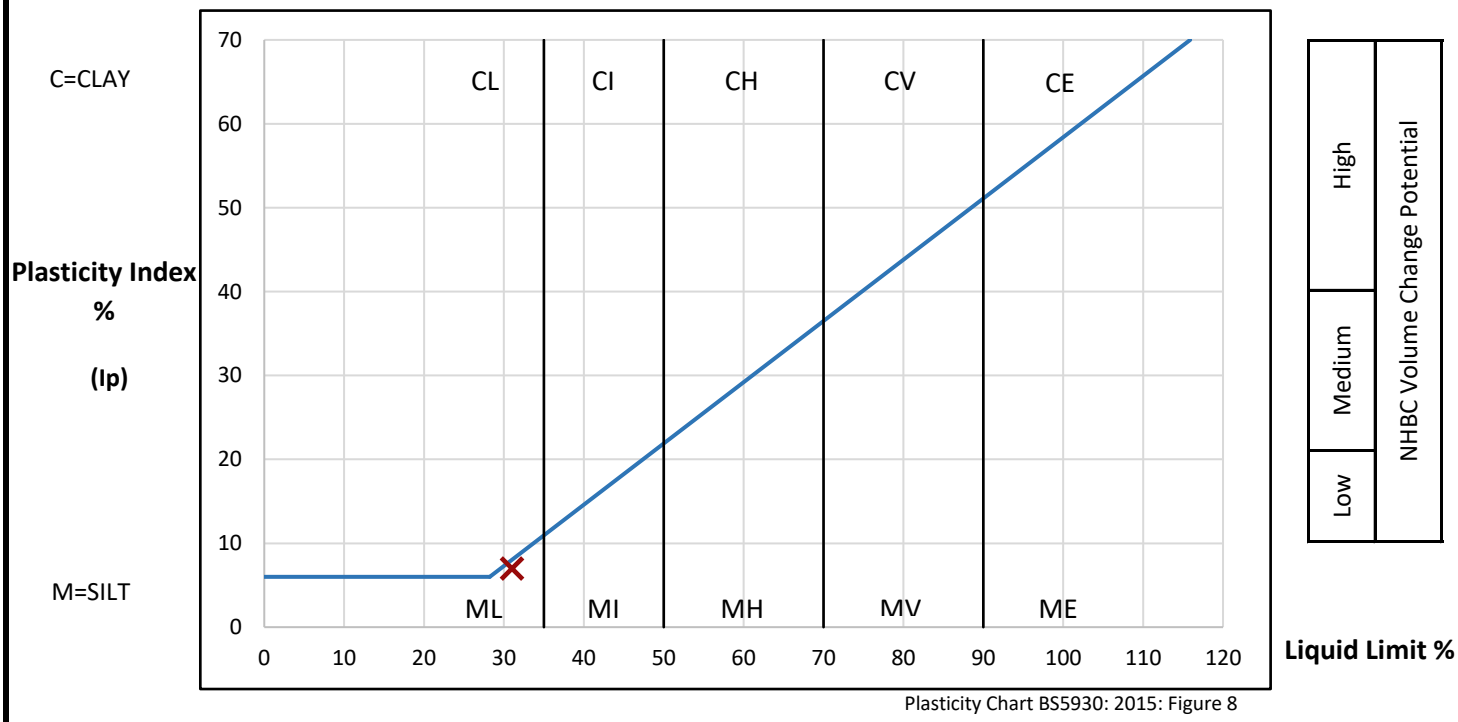
UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH03	13.00	D	30	30.5	White structureless CHALK with rare harder intact chalk fragments	

PREPARATION				Liquid Limit	31 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	24 %
Sample retained 0.425mm sieve	(Measured)	2 %		Plasticity Index	7 %
Corrected water content for material passing 0.425mm		31.1 %		Liquidity Index	0.92
Sample retained 2mm sieve	(Measured)	1 %		NHBC Modified (I'p)	7 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

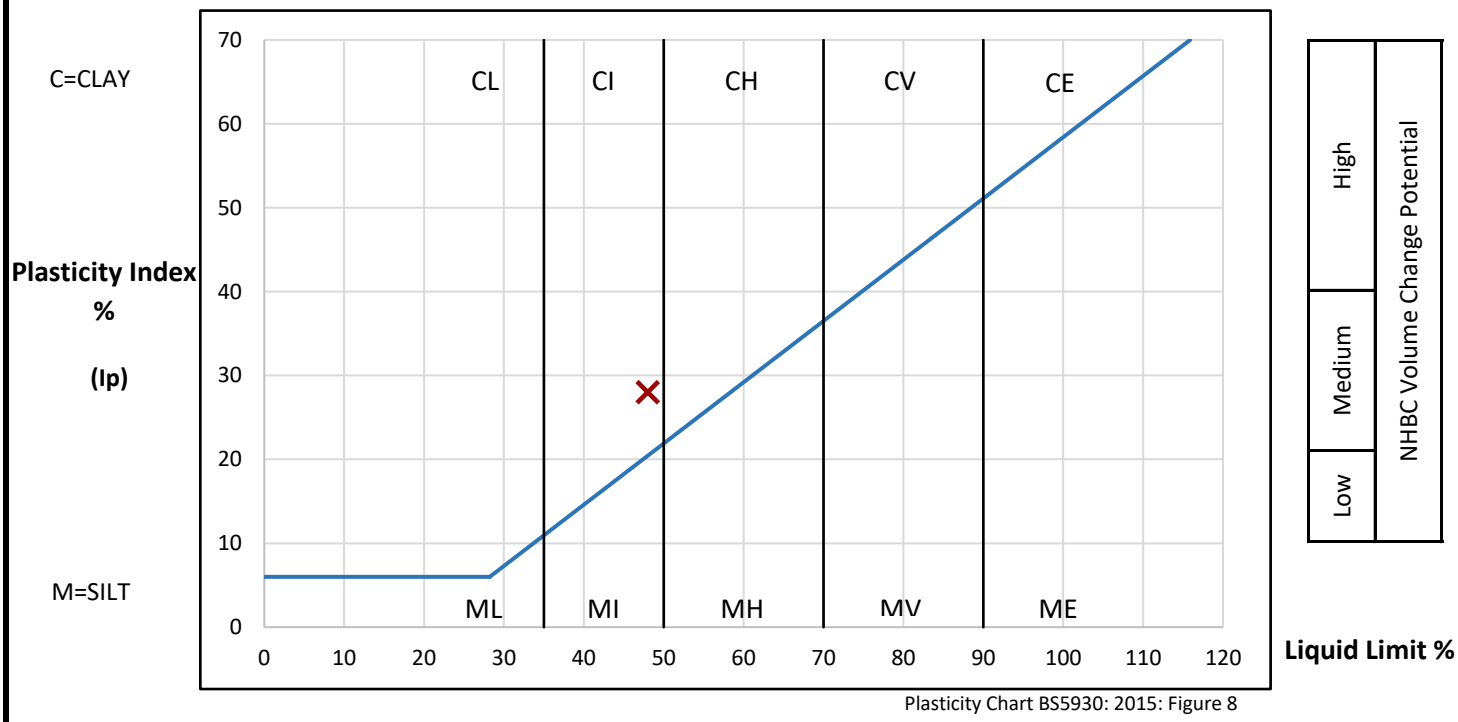
UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH04	1.00 - 1.20	B	3	26.4	Soft mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	

PREPARATION				Liquid Limit	48 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	20 %
Sample retained 0.425mm sieve	(Measured)	14 %		Plasticity Index	28 %
Corrected water content for material passing 0.425mm		30.7 %		Liquidity Index	0.23
Sample retained 2mm sieve	(Measured)	12 %		NHBC Modified (I'p)	24 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

TEST REPORT

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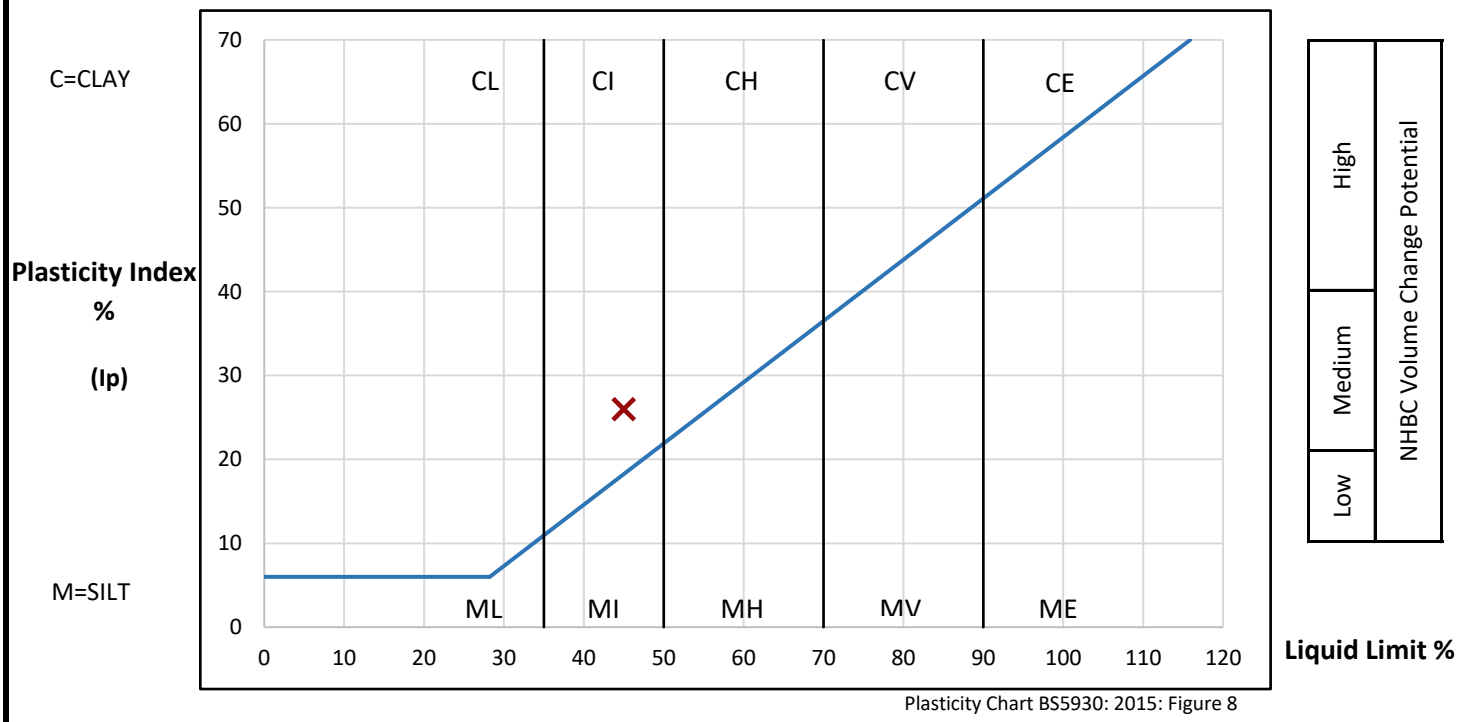
Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH04	4.45	D	12	19.3	Stiff dark olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	45 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	19 %
Sample retained 0.425mm sieve	(Measured)	7 %		Plasticity Index	26 %
Corrected water content for material passing 0.425mm		20.7 %		Liquidity Index	0.01
Sample retained 2mm sieve	(Measured)	5 %		NHBC Modified (I'p)	24 %
Curing time	27 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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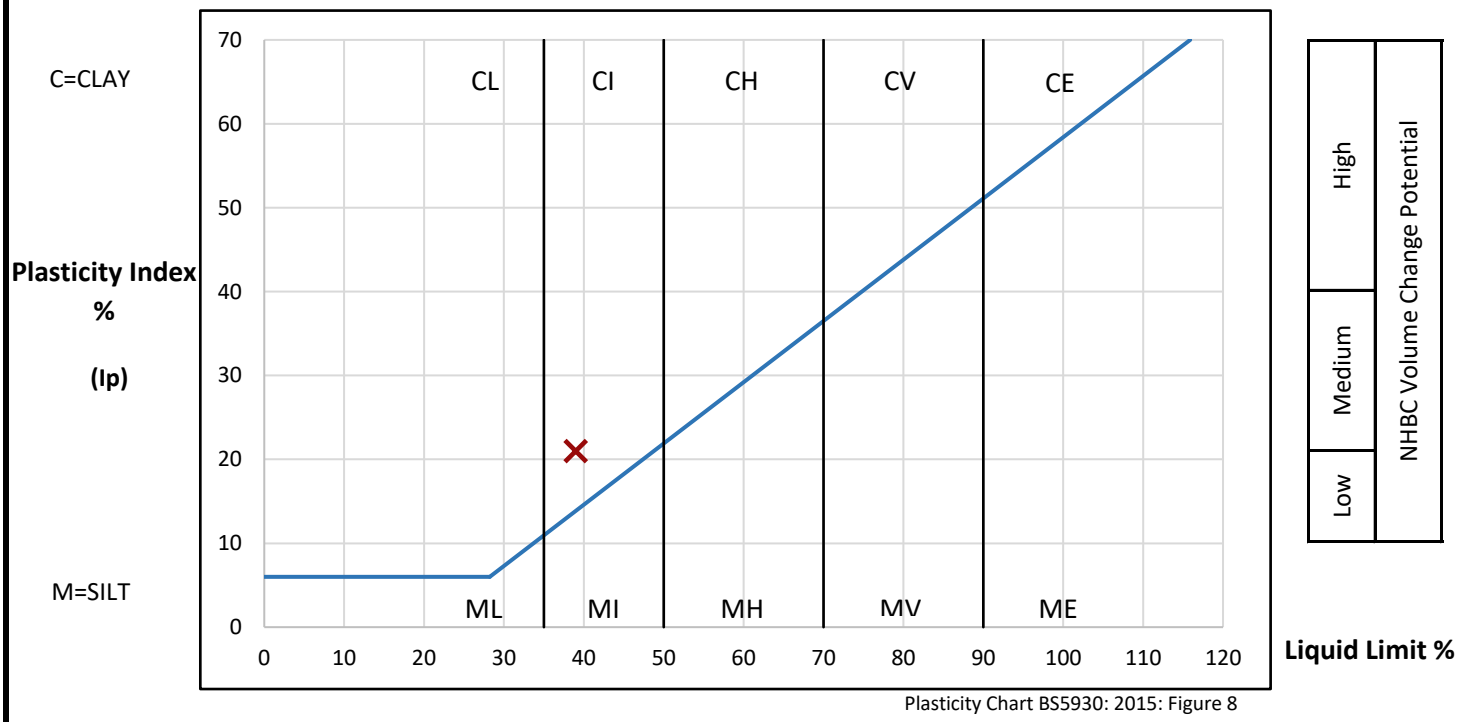
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH05	1.00 - 1.20	B	3	20.4	Very soft yellowish brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to subrounded chert	

PREPARATION				Liquid Limit	39 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	18 %
Sample retained 0.425mm sieve	(Measured)	43 %		Plasticity Index	21 %
Corrected water content for material passing 0.425mm		35.8 %		Liquidity Index	0.11
Sample retained 2mm sieve	(Measured)	40 %		NHBC Modified (I'p)	12 %
Curing time	26 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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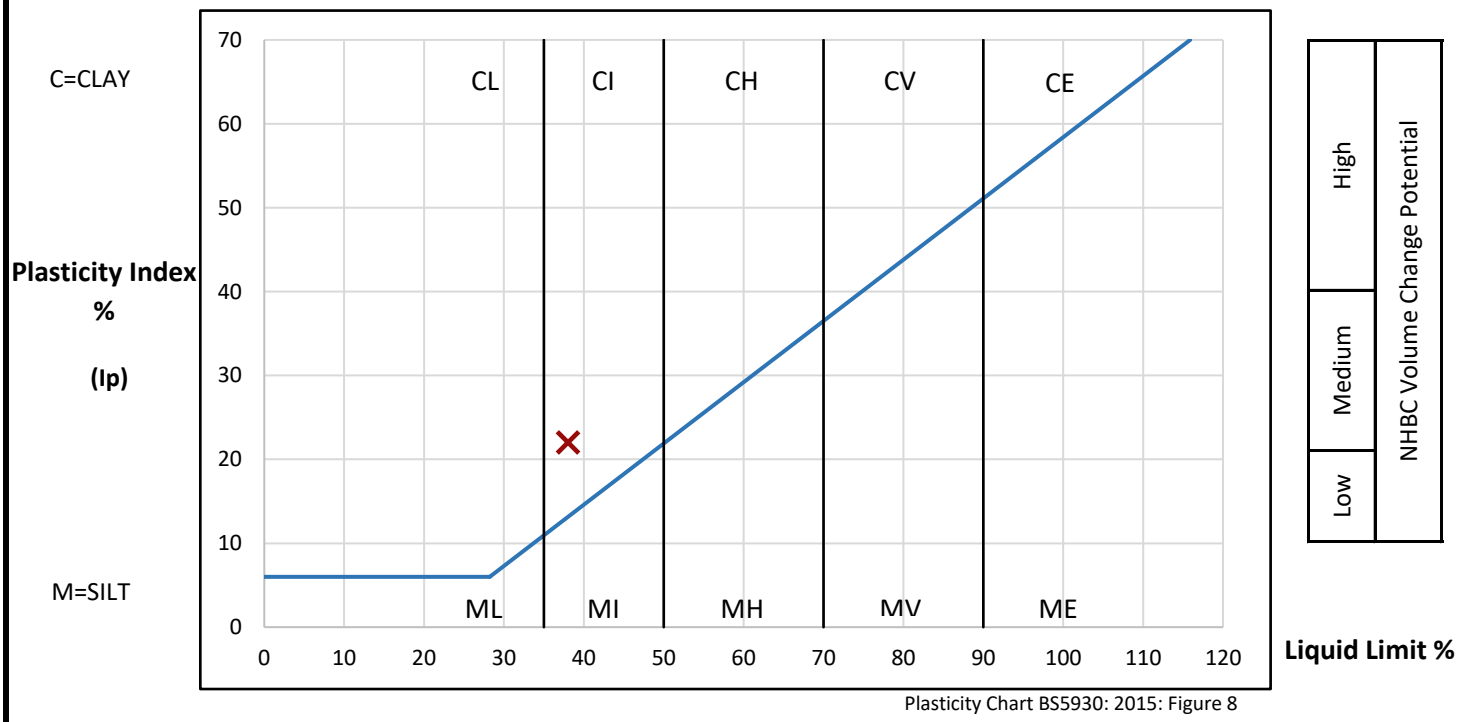
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH05	2.70	D	8	21.7	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION			Liquid Limit	38 %
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	16 %
Sample retained 0.425mm sieve	(Measured)	15 %	Plasticity Index	22 %
Corrected water content for material passing 0.425mm		25.5 %	Liquidity Index	0.26
Sample retained 2mm sieve	(Measured)	12 %	NHBC Modified (I'p)	19 %
Curing time	25 hrs	Clay Content Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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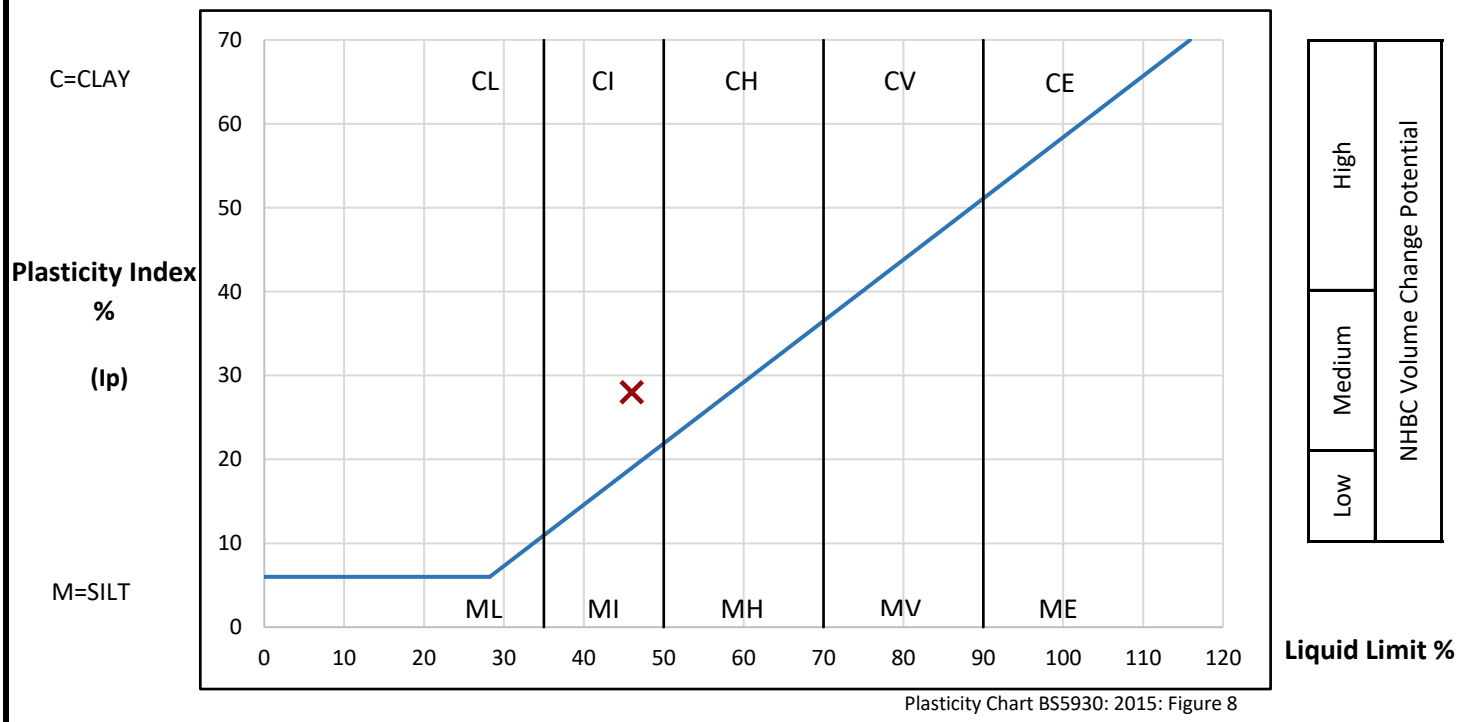
Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH06	1.40	D	5	24.1	Soft brownish yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	46 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	18 %
Sample retained 0.425mm sieve	(Measured)	9 %		Plasticity Index	28 %
Corrected water content for material passing 0.425mm		26.5 %		Liquidity Index	0.22
Sample retained 2mm sieve	(Measured)	6 %		NHBC Modified (I'p)	25 %
Curing time	27 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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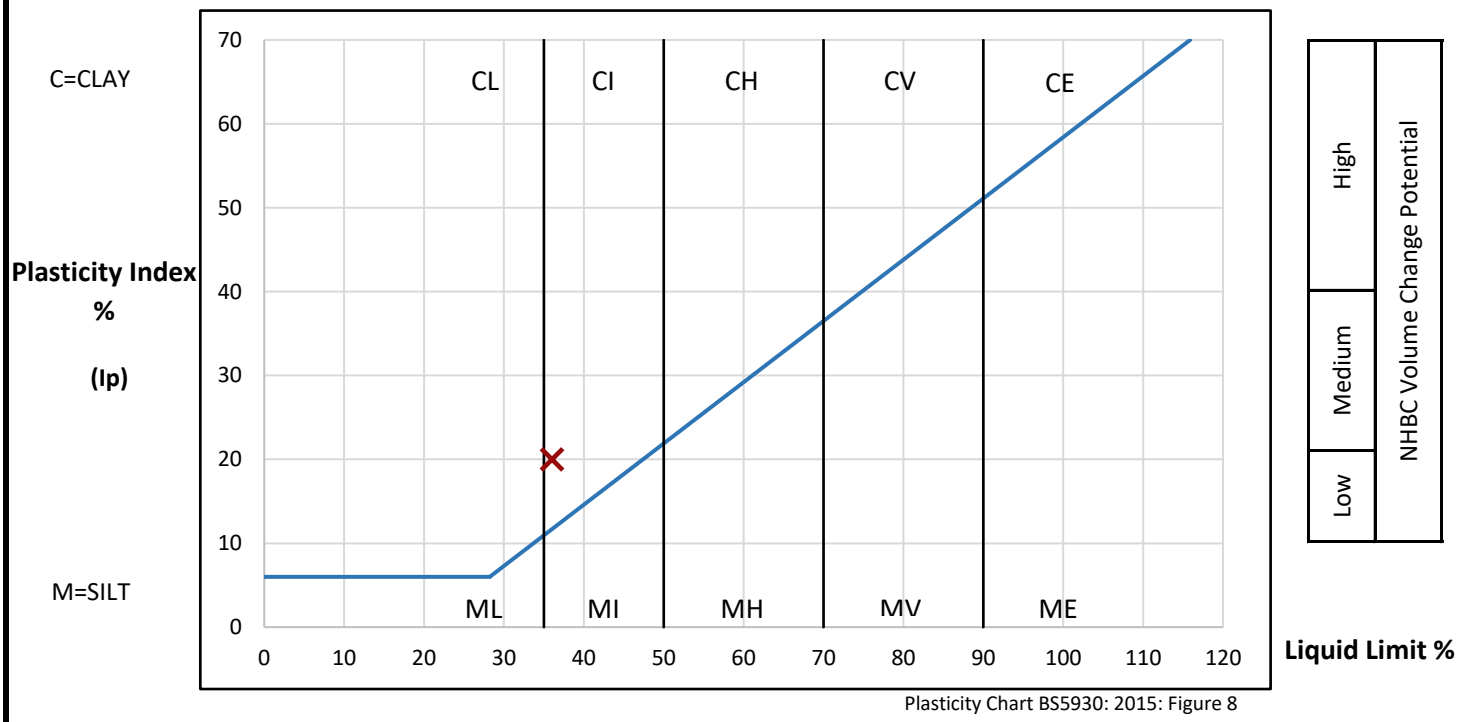
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
BH06	4.70	D	13	20.0	Firm dark grey and olive slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION			Liquid Limit	36 %
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	16 %
Sample retained 0.425mm sieve	(Measured)	10 %	Plasticity Index	20 %
Corrected water content for material passing 0.425mm		22.2 %	Liquidity Index	0.20
Sample retained 2mm sieve	(Measured)	8 %	NHBC Modified (I'p)	18 %
Curing time	27 hrs	Clay Content Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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DETERMINATION OF DENSITY, WATER CONTENT AND UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)	Lateral Pressure (kPa)	Deviator Stress (kPa)	Shear Stress (kPa)	Mohrs Circle Analysis		Description
										Cu (kPa)	Ø degrees	
BH01	3.10	UT	8	19.0	2.09	1.76	65	234	117			Stiff yellowish brown becoming dark grey slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert
BH01	10.57	UT	25	16.8	2.17	1.86	211	786	393			Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert
BH02	4.06	UT	12	16.2	2.16	1.86	81	556	278			Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk
BH02	19.57	UT	40	17.7	2.13	1.81	388	698	349			Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert
BH04	7.55	UT	18	16.2	2.16	1.86	151	677	339			Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert
BH04	16.56	UT	35	17.8	2.16	1.83	328	716	358			Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert
BH05	3.05	UT	9	21.6	2.06	1.69	60	260	130			Stiff mottled grey and yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert

Method of Preparation:	BS 1377: Part 1: 1990: 7.4.2 & 8, Part 2: 1990: 7.2, Part 7: 1990: 8.3
Method of Test:	BS 1377: Part 2: 1990:3 Determination of Moisture Content, Part2: 1990:7 Determination of Density, Part 7: 1990: 8 Undrained Shear Strength, 9 Multistage Loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	
Remarks to Include:	Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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DETERMINATION OF DENSITY, WATER CONTENT AND UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)	Lateral Pressure (kPa)	Deviator Stress (kPa)	Shear Stress (kPa)	Mohrs Circle Analysis		Description
										Cu (kPa)	Ø degrees	
BH06	2.04	UT	6	27.5	1.99	1.56	41	81	41			Firm yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert
BH06	16.54	UT	33	17.7	2.15	1.83	331	761	381			Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert

Method of Preparation:	BS 1377: Part 1: 1990: 7.4.2 & 8, Part 2: 1990: 7.2, Part 7: 1990: 8.3
Method of Test:	BS 1377: Part 2: 1990:3 Determination of Moisture Content, Part2: 1990:7 Determination of Density, Part 7: 1990: 8 Undrained Shear Strength, 9 Multistage Loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	
Remarks to Include:	Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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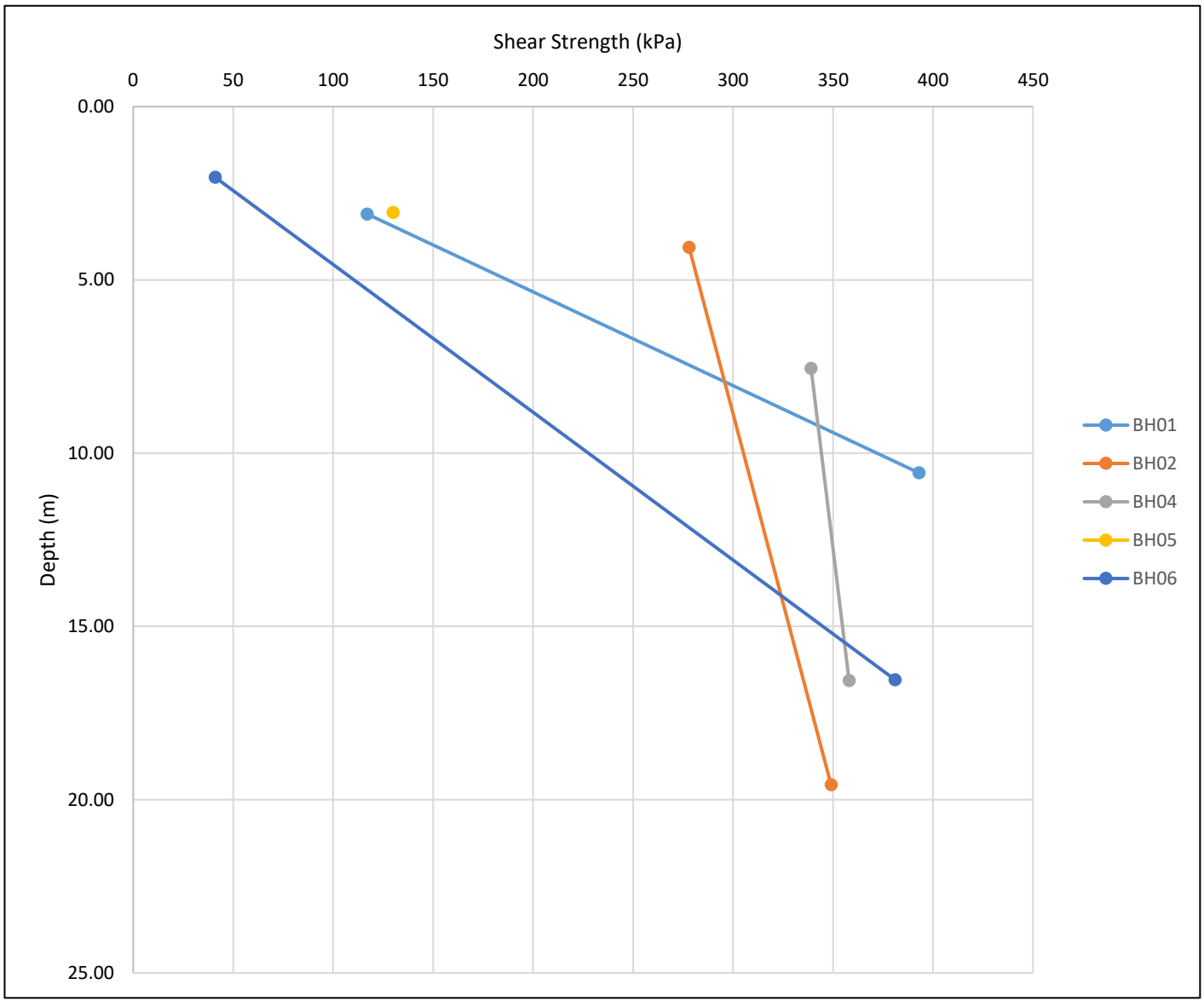
SHEAR STRENGTH VS DEPTH BELOW GROUND LEVEL



Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part7: 1990:8 Definitive Method, 1990:9 Multi-stage loading
Type of Sample Key:	U - Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	
Remarks to Include:	Sample disturbance, loss of water, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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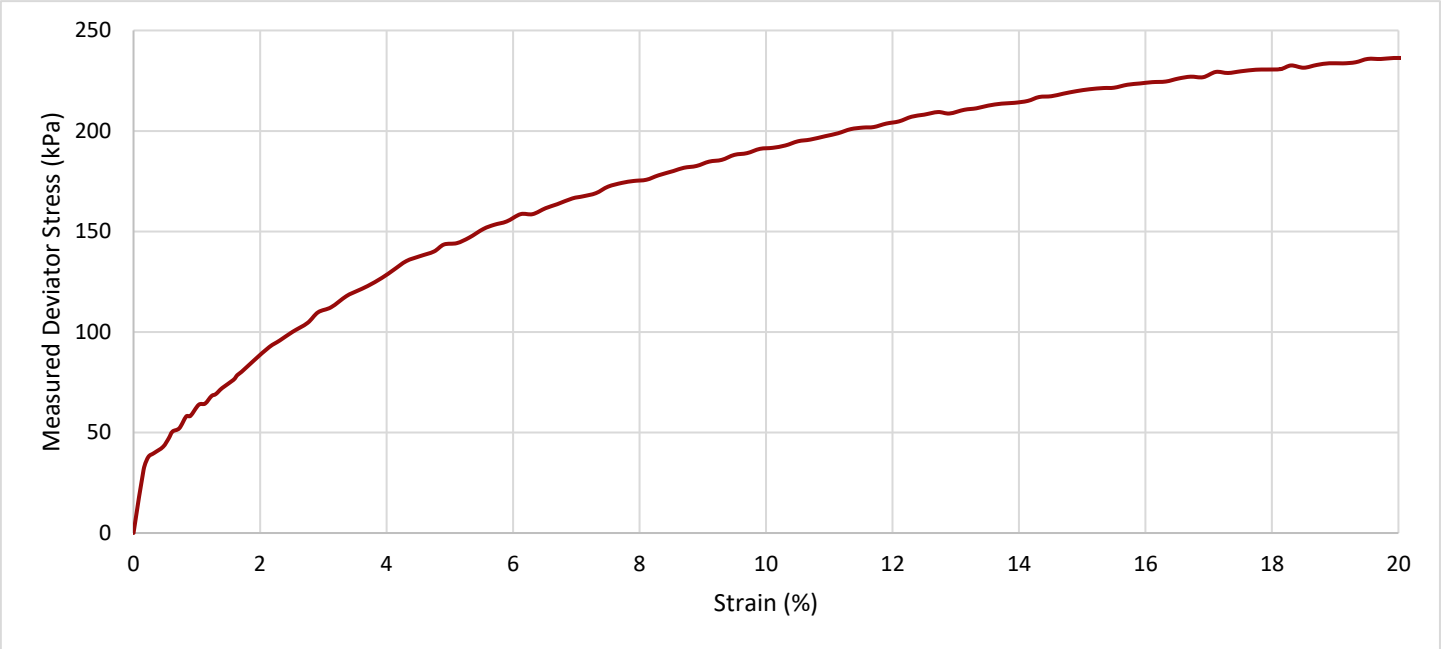
DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH01	3.00 - 3.45	UT	8	Stiff yellowish brown becoming dark grey slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 3.10	199.1	103.4	3497	19.0	2.09	1.76

TEST INFORMATION	Rate of Strain	2.0	% per Min	Rubber Membrane Thickness	0.6	mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	65	19.9	2.2	\	234	117		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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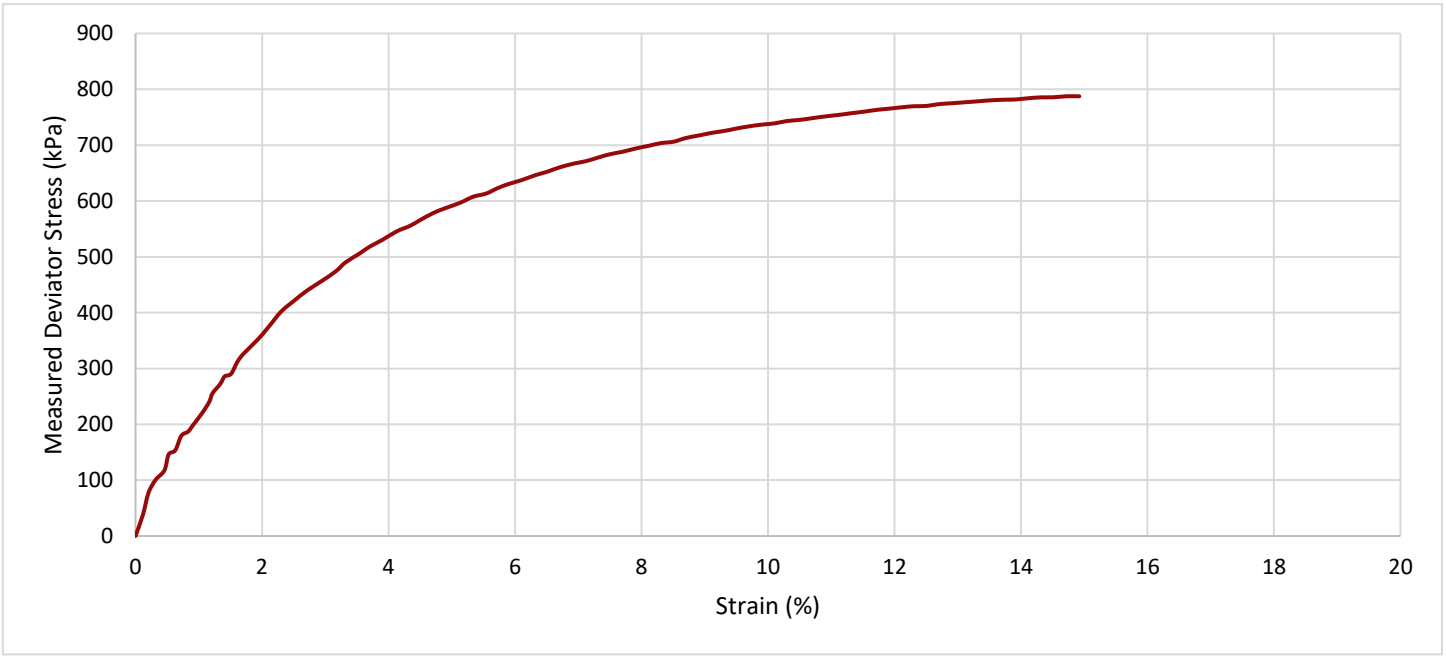
DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH01	10.50 - 10.95	UT	25	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 10.57	199.2	102.8	3583	16.8	2.17	1.86

TEST INFORMATION — Rate of Strain 1.0 % per Min — Rubber Membrane Thickness 0.6 mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	211	14.7	1.7	\	786	393		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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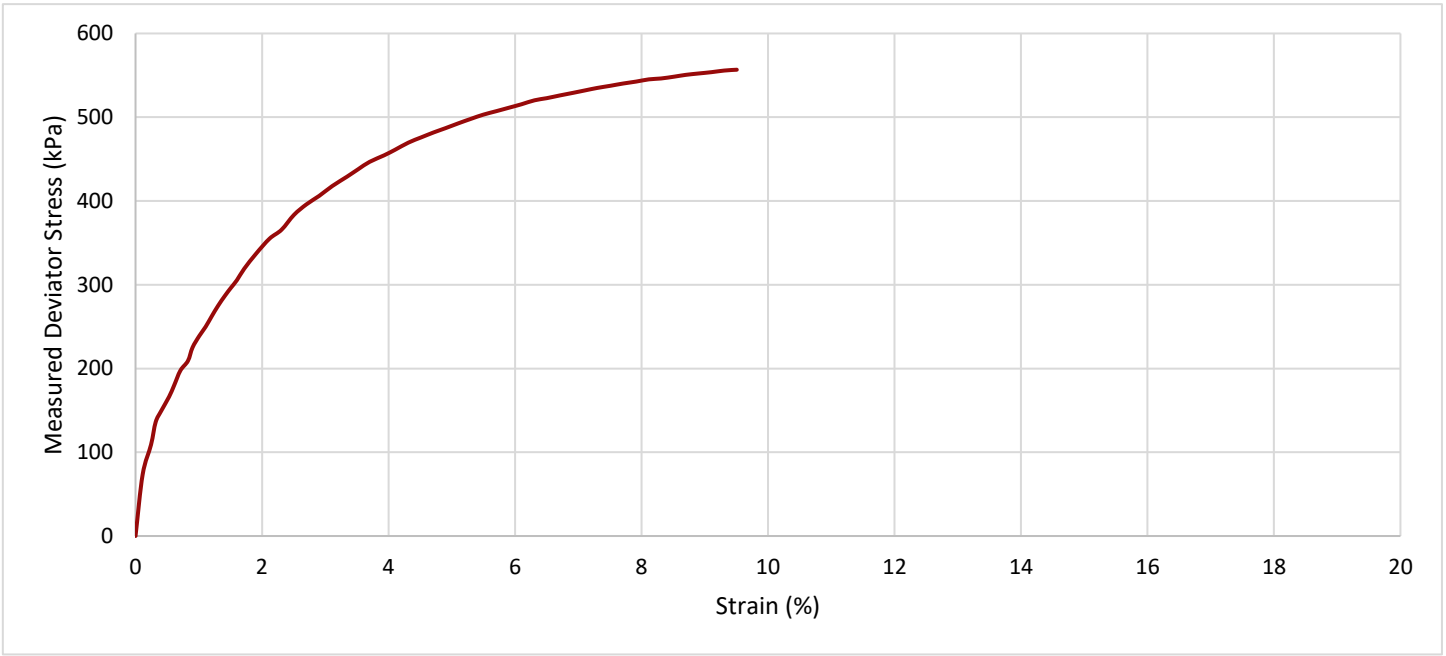
DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH02	4.00 - 4.45	UT	12	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 4.06	199.1	102.3	3540	16.2	2.16	1.86

TEST INFORMATION	Rate of Strain	0.5	% per Min	Rubber Membrane Thickness	0.6	mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	81	9.5	1.3	\	556	278		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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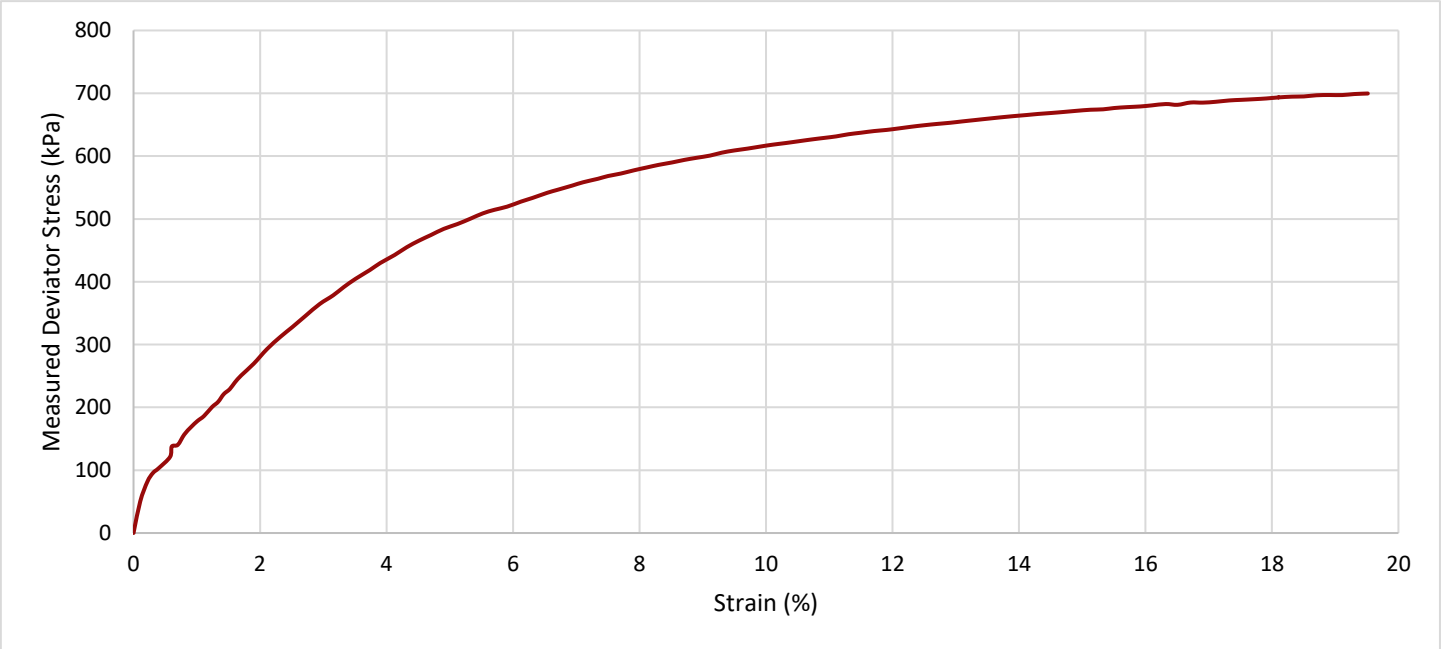
Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH02	19.50 - 19.95	UT	40	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 19.57	199.0	103.5	3569	17.7	2.13	1.81

TEST INFORMATION	Rate of Strain	1.0	% per Min	Rubber Membrane Thickness	0.6	mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	388	19.5	2.2	\	698	349		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
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Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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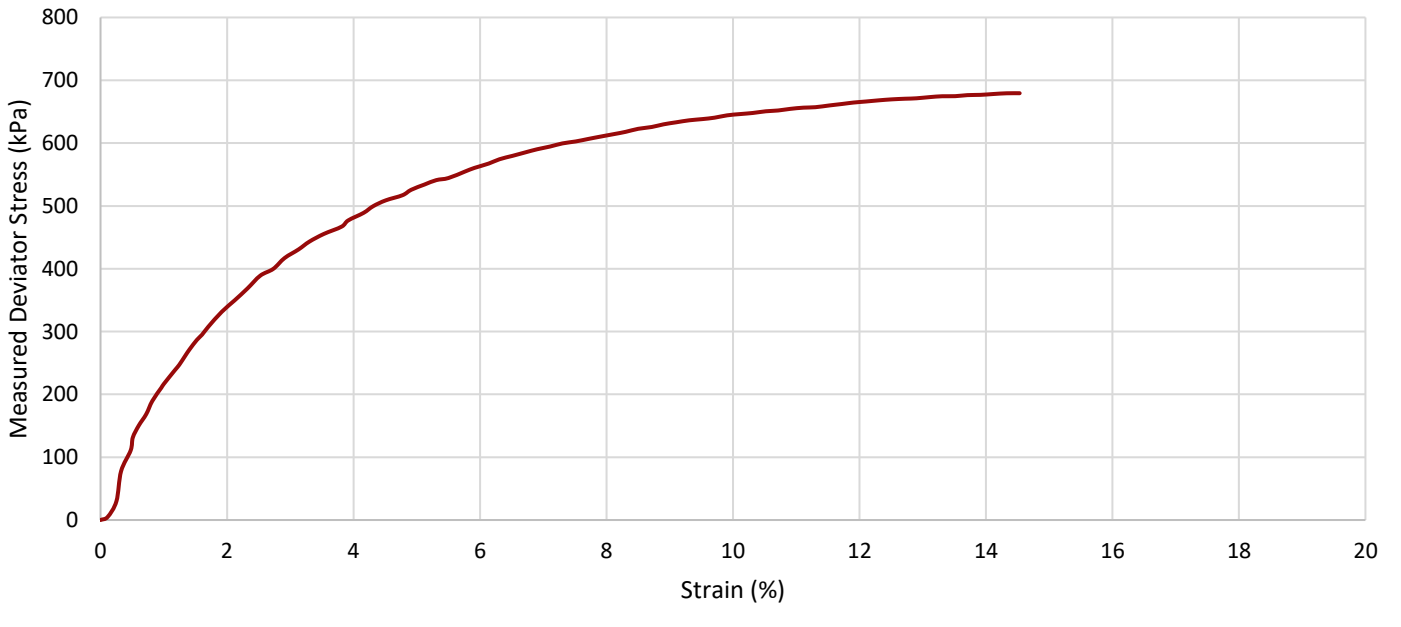
DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH04	7.50 - 7.95	UT	18	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 7.55	199.0	103.5	3626	16.2	2.16	1.86

TEST INFORMATION — Rate of Strain 1.0 % per Min — Rubber Membrane Thickness 0.6 mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	151	14.5	1.7	\	677	339		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

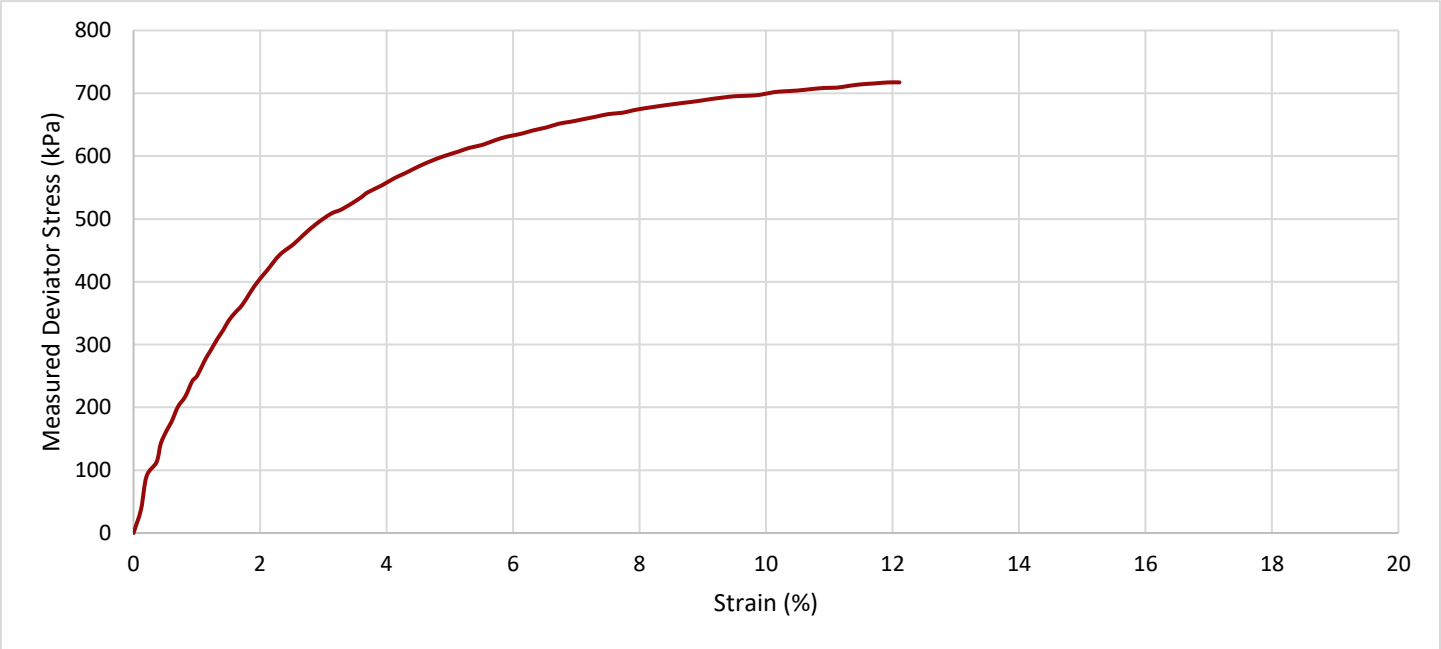
Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH04	16.50 - 16.95	UT	35	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 16.56	198.9	103.7	3624	17.8	2.16	1.83

TEST INFORMATION	Rate of Strain	1.0	% per Min	Rubber Membrane Thickness	0.6	mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	328	12.1	1.5	\	716	358		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

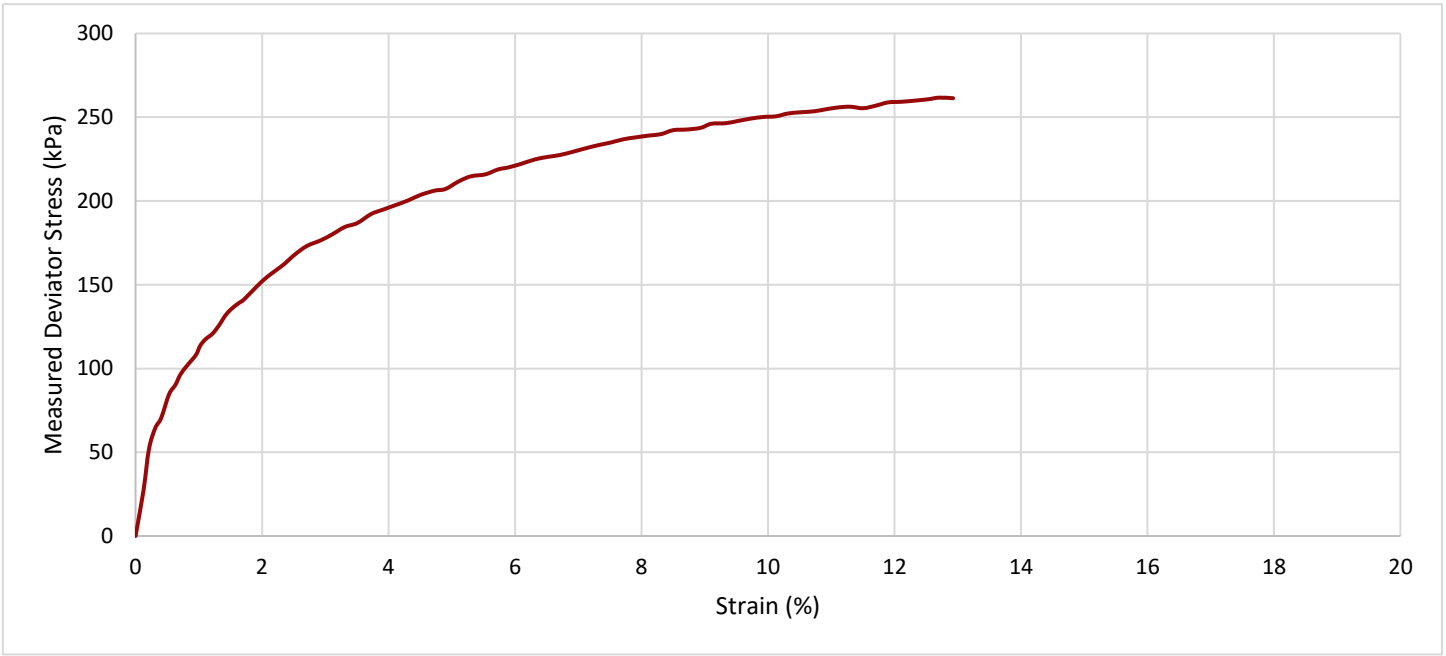
Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH05	3.00 - 3.45	UT	9	Stiff mottled grey and yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 3.05	198.9	103.0	3420	21.6	2.06	1.69

TEST INFORMATION	Rate of Strain	2.0	% per Min	Rubber Membrane Thickness	0.6	mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	60	12.7	1.6	\	260	130		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

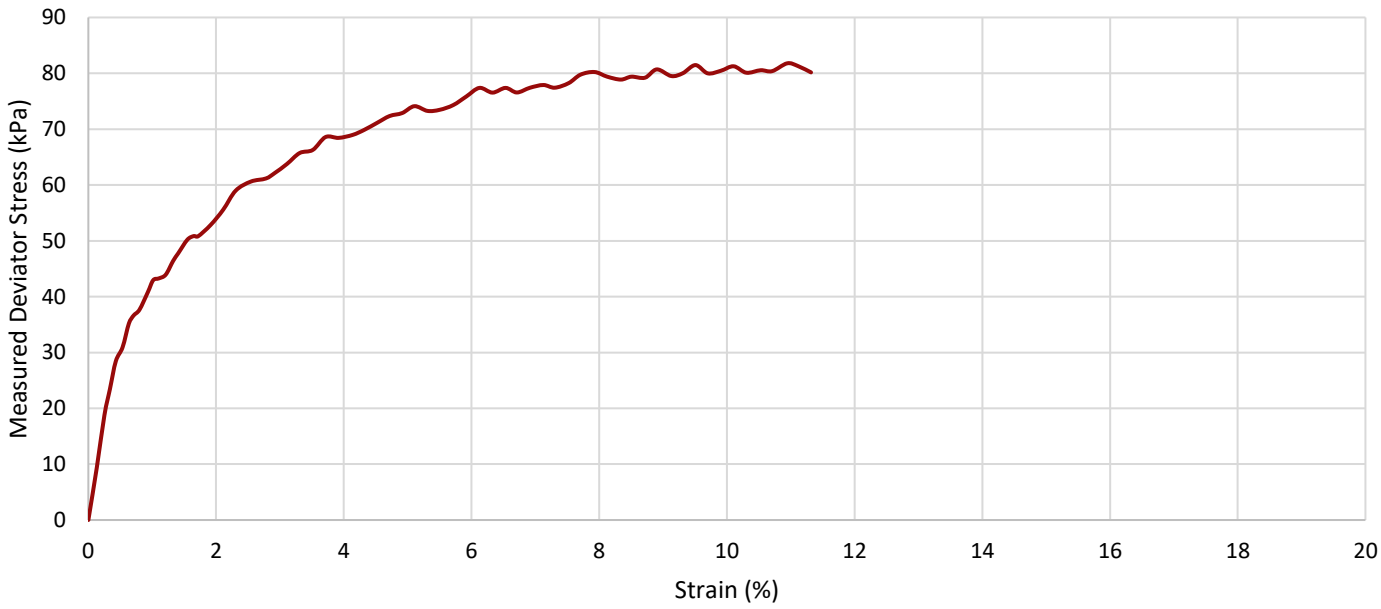
Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH06	2.00 - 2.45	UT	6	Firm yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 2.04	199.5	101.8	3228	27.5	1.99	1.56

TEST INFORMATION — Rate of Strain 2.0 % per Min — Rubber Membrane Thickness 0.6 mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	41	10.9	1.4	\	81	41		

Method of Preparation: BS 1377: Part 1: 1990

Method of Test: BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading

Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter

Comments: Tested in Vertical Condition

UKAS Calibration - loads from 0.2 to 10kN

Remarks to Include: Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

UKAS TESTING 0998

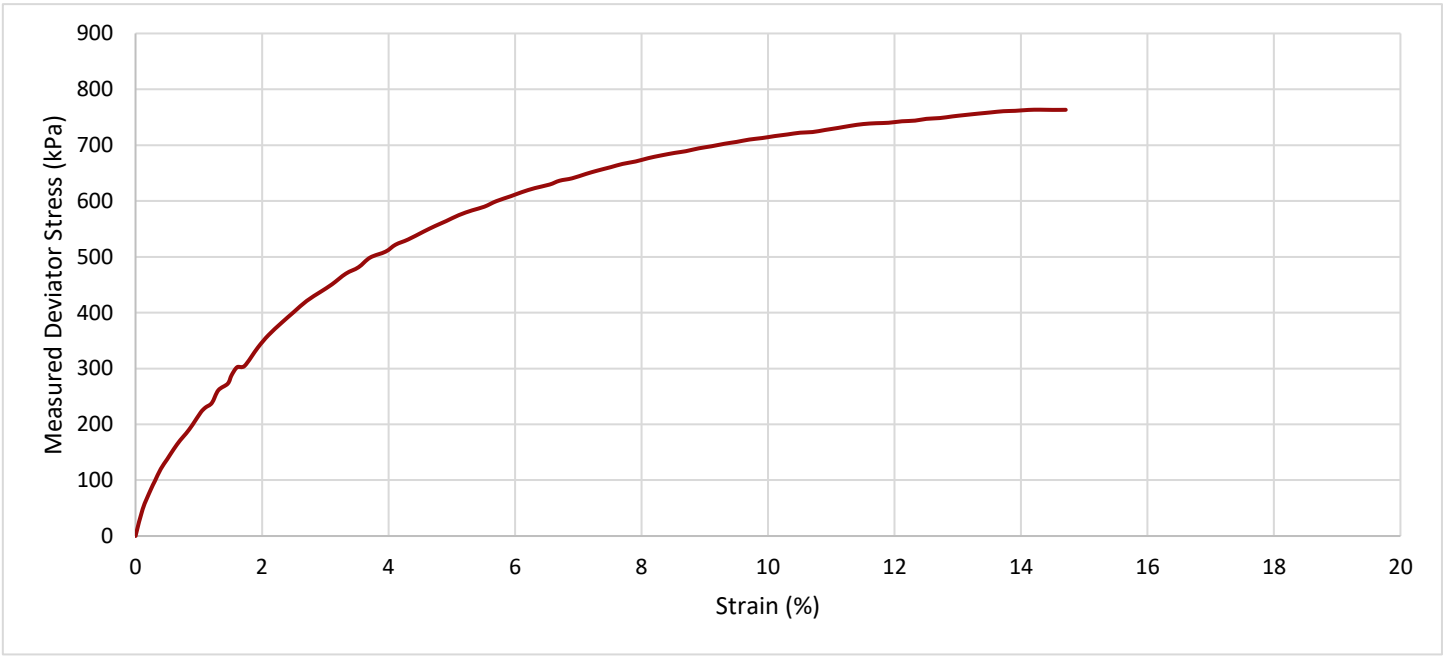
Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_1**

DETERMINATION OF UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole /Pit No.	Depth (m)	Type	Reference	Description	Remarks
BH06	16.50 - 16.95	UT	33	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	On splitting open triaxial specimen, gravel in excess of 20mm noted

Initial Specimen	Height (mm)	Diameter (mm)	Weight (g)	Water Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)
Depth of Top of Specimen (m) 16.54	199.0	103.6	3603	17.7	2.15	1.83

TEST INFORMATION	Rate of Strain	1.0	% per Min	Rubber Membrane Thickness	0.6	mm



Specimen at failure	Measured Cell Pressure, σ3 (kPa)	Strain at Failure (%)	Stress Corrections (kPa)		Corrected Max. Deviator Stress, (σ1-σ3)f (kPa)	Shear Stress Cu, ½(σ1-σ3)f (kPa)	Mohrs Circle Analysis	
			Rubber Membrane	Piston Friction			Cu (kPa)	PHI (degrees)
	331	14.3	1.7	\	761	381		

Method of Preparation:	BS 1377: Part 1: 1990
Method of Test:	BS 1377: Part 7: 1990: 8 Definitive Method, 1990: 9 Multi-stage loading
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Tested in Vertical Condition
	UKAS Calibration - loads from 0.2 to 10kN
Remarks to Include:	Sample disturbance, loss of moisture, variation form test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 11/04/2025

Contract:	**Great Wilsey Park, Haverhill**
Serial No:	**46975_1**

DETERMINATION OF THE SULPHATE CONTENT AND pH OF SOIL AND GROUNDWATER

Borehole / Pit No.	Depth (m)	Sample		Conc. of Soluble SO3		Calc'd Conc. Of SO4 (g/L)	pH Value	% Sample Passing 2mm Sieve	Description	Remarks
		Type	Ref.	Water Soluble 2:1 (g/L)	Ground Water (g/L)					
BH01	4.70	D	13	0.18		0.21	7.6	88	Soft dark grey slightly gravelly slightly sandy silty CLAY with white structureless chalk pockets. Gravel is fine and medium angular to subrounded chalk	
BH05	4.70	D	14	0.14		0.17	7.6	90	Stiff greyish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH05	13.95	D	30	0.25		0.30	7.5	92	Hard dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH06	5.70	D	15	0.37		0.44	7.4	98	Soft dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
BH06	15.00 - 15.45	SPT	31	0.32		0.39	7.5	97	Very stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

Method of Preparation:	BS1377: Part 1: 2016: 8.5, BS1377: Part 3: 1990: 5.3 Soil/Water Extract, 5.4 Groundwater
Method of Test:	BS1377: Part 3: 1990: 5.5
Type of Sample Key:	U= Undisturbed, B= Bulk, D= Disturbed, J= Jar, W= Water, SPT= Split Spoon Sample, C= Core Cutter
Comments:	**Test not UKAS accredited**
Remarks to Include:	Sample disturbance, loss of moisture, variation from test procedure, location, and origin of test specimen within original sample. Oven drying temperature if not 105-110C.

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

Client:

Geosphere Environmental Ltd

Head Office
Brightwell Barns
Ipswich Road
Brightwell
Suffolk
IP10 0BJ

Soil Property Testing Ltd

15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG

Tel: 01480 455579
Email: enquiries@soilpropertytesting.com
Website: www.soilpropertytesting.com

Samples Submitted By:

Geosphere Environmental Ltd

Samples Labelled:

Great Wilsey Park, Haverhill

Approved Signatories:

☑ **J.C. Garner B.Eng (Hons) FGS**
Technical Director & Quality Manager

☐ **W. Johnstone**
Materials Lab Manager

Date Received: 22/03/2025

Samples Tested Between: 22/03/2025 **and** 31/03/2025

Remarks:

For the attention of Jonathan Khan
Your Reference No: 9081,GI

Notes:

1. All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary.
2. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
3. Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation Schedule for this testing laboratory.
4. This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory.
5. The results within this report only relate to the items tested or sampled.

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**		
Serial No.	**46975_2**	**Target Date**	02/04/2025
Scheduled By	Geosphere Environmental Ltd		

Schedule Remarks

Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BSEN)	Liquid/Plastic Limits	Wet Sieve Preparation	Particle Size Distribution (BS1377)															Sample Remarks
WS102	D	1	0.90	1	1	1																
WS102	D	2	1.90	1																		
WS102	D	3	2.90	1																		
WS102	D	4	3.90	1																		
WS105	D	1	0.90	1	1	1																
WS105	D	2	1.90	1																		
WS105	D	3	2.90	1																		
WS107	D	1	0.70	1	1	1																
WS107	D	2	1.60	1																		
WS108	D	1	0.90	1																		
WS108	D	2	1.00	1																		
WS109	D	1	0.90	1	1	1																
WS109	D	2	1.90	1	1	1																
WS109	D	3	2.90	1																		
WS110	D	1	0.90	1																		
WS110	D	2	1.90	1																		
WS110	D	3	2.90	1																		
WS110	D	4	3.90	1																		
WS112	D	1	0.90	1																		
WS112	D	2	1.90	1																		
WS112	D	3	2.90	1																		
WS113	D	1	0.90	1																		
WS113	D	2	1.90	1																		
WS113	D	5	4.90	1																		
WS115	D	1	0.90	1	1	1																
WS115	D	2	1.90	1	1	1																
WS115	D	3	2.90	1																		
WS115	D	4	3.90	1																		
WS118	D	1	0.90	1	1	1																
WS118	D	2	1.90	1																		
WS118	D	3	2.90	1																		
WS118	D	4	3.90	1																		
WS119	D	1	0.90	1	1	1																

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**		
Serial No.	**46975_2**	**Target Date**	02/04/2025
Scheduled By	Geosphere Environmental Ltd		

Schedule Remarks

Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BSEN)	Liquid/Plastic Limits	Wet Sieve Preparation	Particle Size Distribution (BS1377)															Sample Remarks
WS119	D	2	1.90	1																		
WS119	D	3	2.90	1																		
WS119	D	4	3.90	1																		
WS121	D	1	0.50	1																		
WS121	D	2	0.90	1																		
WS121	D	3	1.90	1																		
WS122	D	1	0.90	1	1	1																
WS122	D	2	1.90	1																		
WS122	D	3	2.90	1																		
WS124	D	1	1.00	1	1	1																
WS124	D	2	2.00	1																		
WS124	D	3	3.00	1																		
WS124	D	4	4.00	1																		
WS127	D	1	0.80	1	1	1																
WS127	D	2	1.50	1			1															
WS127	D	4	3.10	1																		
WS129	D	1	0.80	1	1	1																
WS129	D	2	1.90	1																		
WS129	D	3	2.90	1																		
WS129	D	4	3.90	1																		
WS129	D	5	4.50	1																		
Totals				**54**	**13**	**13**	**1**															**End of Schedule**

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
WS102	0.90	D	1	**18.6**	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS102	1.90	D	2	**19.7**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS102	2.90	D	3	**20.1**	Stiff mottled bluish grey and dark olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS102	3.90	D	4	**19.8**	Stiff mottled bluish grey and dark olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS105	0.90	D	1	**20.1**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS105	1.90	D	2	**19.3**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	
WS105	2.90	D	3	**19.7**	Stiff olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS107	0.70	D	1	**17.7**	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chert and quartzite	
WS107	1.60	D	2	**21.7**	Firm brownish yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS108	0.90	D	1	**19.9**	Soft yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS108	1.00 - 2.00	D	2	**17.2**	Soft yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS109	0.90	D	1	**16.0**	Soft olive yellow slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	
WS109	1.90	D	2	**19.5**	Very stiff olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS109	2.90	D	3	**21.0**	Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
WS110	0.90	D	1	**18.6**	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS110	1.90	D	2	**18.8**	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS110	2.90	D	3	**18.9**	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS110	3.90	D	4	**16.4**	Stiff dark grey slightly gravelly slightly sandy silty CLAY with occasional orange staining. Gravel is fine and medium angular to subrounded chalk and chert	
WS112	0.90	D	1	**20.2**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS112	1.90	D	2	**17.9**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare orange staining. Gravel is fine and medium angular to subrounded chalk and chert	
WS112	2.90	D	3	**18.4**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with frequent orange staining. Gravel is fine and medium angular to subrounded chalk and chert	
WS113	0.90	D	1	**28.5**	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS113	1.90	D	2	**18.8**	Stiff olive yellow slightly gravelly slightly sandy silty CLAY with occasional orange staining. Gravel is fine and medium angular to subrounded chalk and chert	
WS113	4.90	D	5	**14.9**	Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
WS115	0.90	D	1	**19.4**	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chert and quartzite	
WS115	1.90	D	2	**19.3**	Stiff mottled bluish grey and light olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	
WS115	2.90	D	3	**16.0**	Firm mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS115	3.90	D	4	**23.0**	Firm dark grey slightly gravelly slightly sandy silty CLAY with rare orange staining. Gravel is fine and medium angular to subrounded chalk and chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
WS118	0.90	D	1	**18.4**	Firm mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chalk and chert	
WS118	1.90	D	2	**16.5**	Stiff mottled bluish grey and yellowish brown slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS118	2.90	D	3	**16.7**	Stiff dark brownish grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS118	3.90	D	4	**15.7**	Stiff dark brownish grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS119	0.90	D	1	**16.6**	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	
WS119	1.90	D	2	**28.2**	Very soft olive yellow slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	1316.4g submitted - insufficient material to be representative for test.*
WS119	2.90	D	3	**21.6**	Stiff dark olive grey slightly gravelly slightly sandy silty CLAY with rare orange staining. Gravel is fine and medium angular to subrounded chalk and chert	
WS119	3.90	D	4	**19.0**	Stiff dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS121	0.50	D	1	**23.4**	Stiff olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS121	0.90	D	2	**16.9**	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS121	1.90	D	3	**16.2**	Stiff mottled bluish grey and yellowish brown slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS122	0.90	D	1	**20.6**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS122	1.90	D	2	**19.9**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare orange staining and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS122	2.90	D	3	**18.8**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare orange staining and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments: *Mass required for max grain size of: 0.063mm = 30g, 2.0mm = 100g, 10.0mm = 500g, 31.5mm = 3000g, 63.0mm = 21000g

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

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UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
WS124	1.00	D	1	**20.0**	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS124	2.00	D	2	**20.3**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS124	3.00	D	3	**20.2**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS124	4.00	D	4	**18.3**	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS127	0.80	D	1	**13.1**	Brown, black and white fine to coarse angular to rounded chalk and chert GRAVEL in a soft olive yellow sandy silty clay matrix	
WS127	1.50	D	2	**16.1**	Olive brown slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS127	3.10	D	4	**17.7**	Brown, black and white fine to coarse angular to subrounded slightly clayey silty very sandy chert GRAVEL. Sand is brownish yellow	1784.9g submitted - insufficient material to be representative for test.*
WS129	0.80	D	1	**16.9**	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	
WS129	1.90	D	2	**17.3**	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS129	2.90	D	3	**19.2**	Stiff mottled bluish grey and yellowish brown slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	
WS129	3.90	D	4	**16.1**	Stiff mottled dark grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	
WS129	4.50	D	5	**19.4**	Very stiff dark olive grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments: *Mass required for max grain size of: 0.063mm = 30g, 2.0mm = 100g, 10.0mm = 500g, 31.5mm = 3000g, 63.0mm = 21000g

Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C

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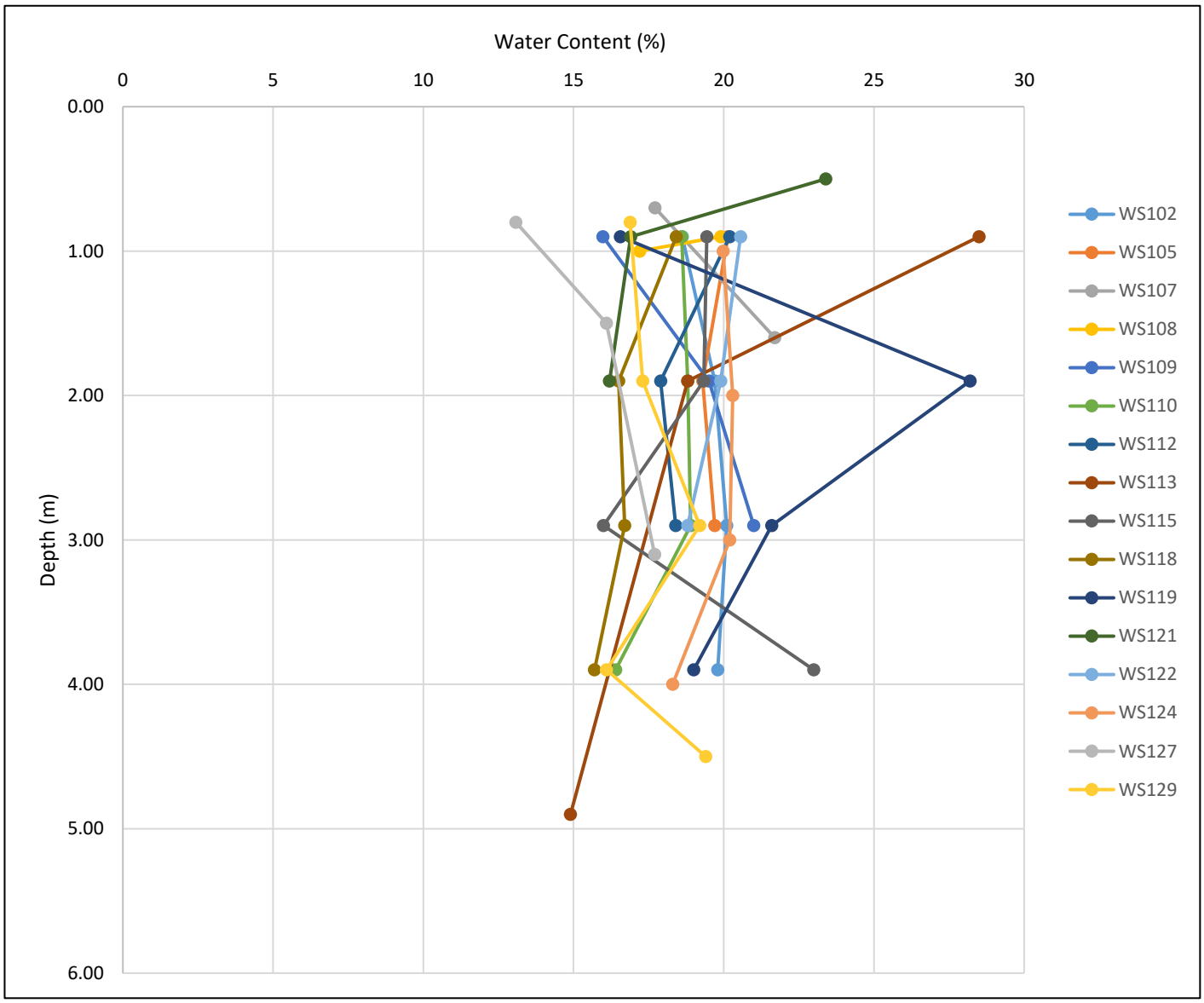
WATER CONTENT VS DEPTH BELOW GROUND LEVEL



Method of Preparation:	BSEN ISO 17892-1: 2014+A1:2022
Method of Test:	BSEN ISO 17892-1: 2014+A1:2022
Type of Sample Key:	U - Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	
Remarks to Include:	Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C

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Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti-city Index (%)	Liquid-ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
WS102	0.90	D	1	**18.6**	47	18	29	0.02	Wet Sieved	7 (M)	20.0*	24	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	CI
WS105	0.90	D	1	**20.1**	49	18	31	0.07	Wet Sieved	6 (M)	21.4*	49	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	CI
WS107	0.70	D	1	**17.7**	30	14	16	0.23	Wet Sieved	17 (M)	21.3*	24	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chert and quartzite	CL
WS109	0.90	D	1	**16.0**	36	16	20	0.00	Wet Sieved	40 (M)	26.6*	24	Soft olive yellow slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	CI
WS109	1.90	D	2	**19.5**	56	19	37	0.01	Wet Sieved	6 (M)	20.8*	24	Very stiff olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	CH
WS115	0.90	D	1	**19.4**	28	14	14	0.39	Wet Sieved	4 (M)	20.3*	52	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chert and quartzite	CL
WS115	1.90	D	2	**19.3**	41	17	24	0.10	Wet Sieved	13 (M)	22.2*	25	Stiff mottled bluish grey and light olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	CI
WS118	0.90	D	1	**18.4**	37	16	21	0.12	Wet Sieved	11 (M)	20.7*	49	Firm mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chalk and chert	CI

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments: *Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.

Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured

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SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti-city Index (%)	Liquid-ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
WS119	0.90	D	1	**16.6**	34	15	19	0.08	Wet Sieved	22 (M)	21.2*	27	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	CL
WS122	0.90	D	1	**20.6**	49	19	30	0.05	Wet Sieved	7 (M)	22.1*	25	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	CI
WS124	1.00	D	1	**20.0**	47	18	29	0.07	Wet Sieved	8 (M)	21.7*	24	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	CI
WS127	0.80	D	1	**13.1**	22	14	8	-0.12	Wet Sieved	59 (M)	31.9*	27	Brown, black and white fine to coarse angular to rounded chalk and chert GRAVEL in a soft olive yellow sandy silty clay matrix	CL
WS129	0.80	D	1	**16.9**	39	16	23	0.04	Wet Sieved	11 (M)	19.0*	51	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	CI

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2

Method of Test: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4

Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter

Comments: *Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.

Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured

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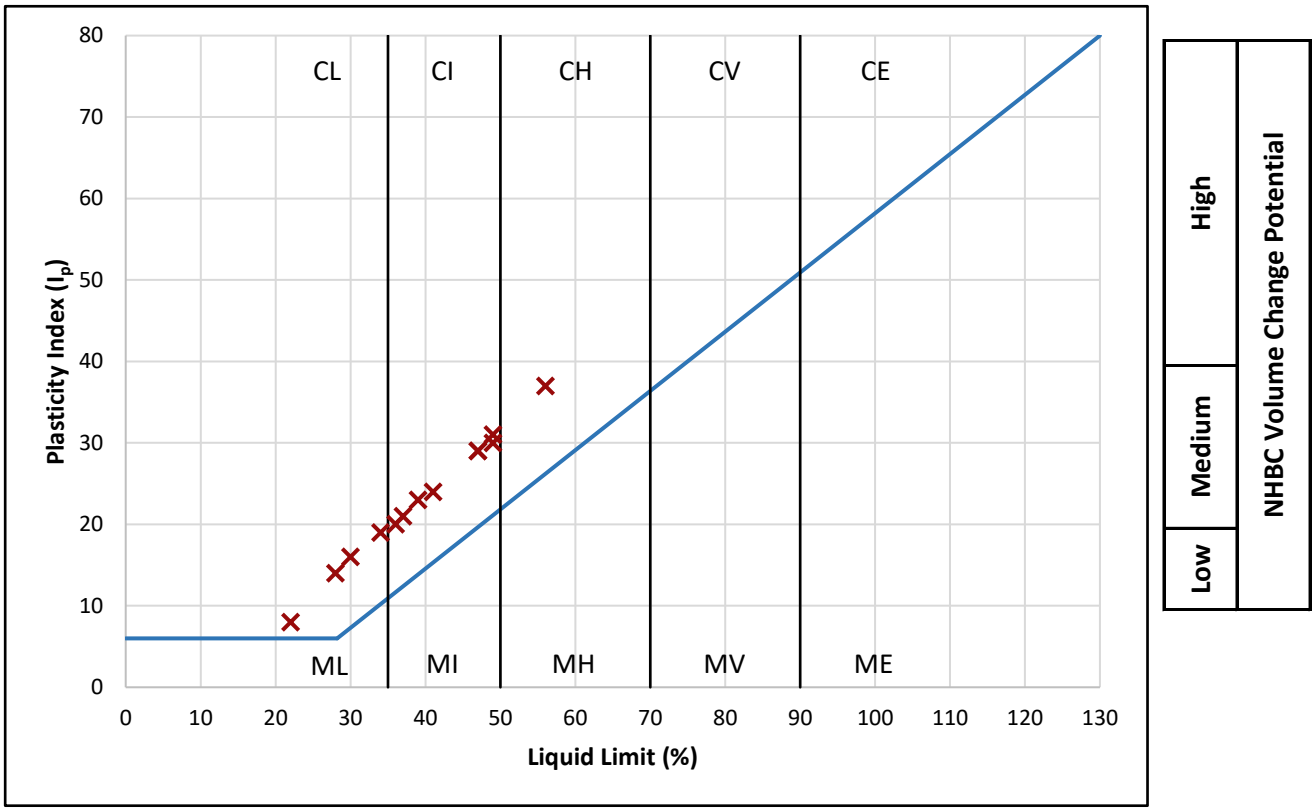
PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

Plasticity				
Low	Medium	High	Very High	Extremely High



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS 1377: Part 2: 1990: 4.2
Method of Test:	BS1377: Part 2: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index

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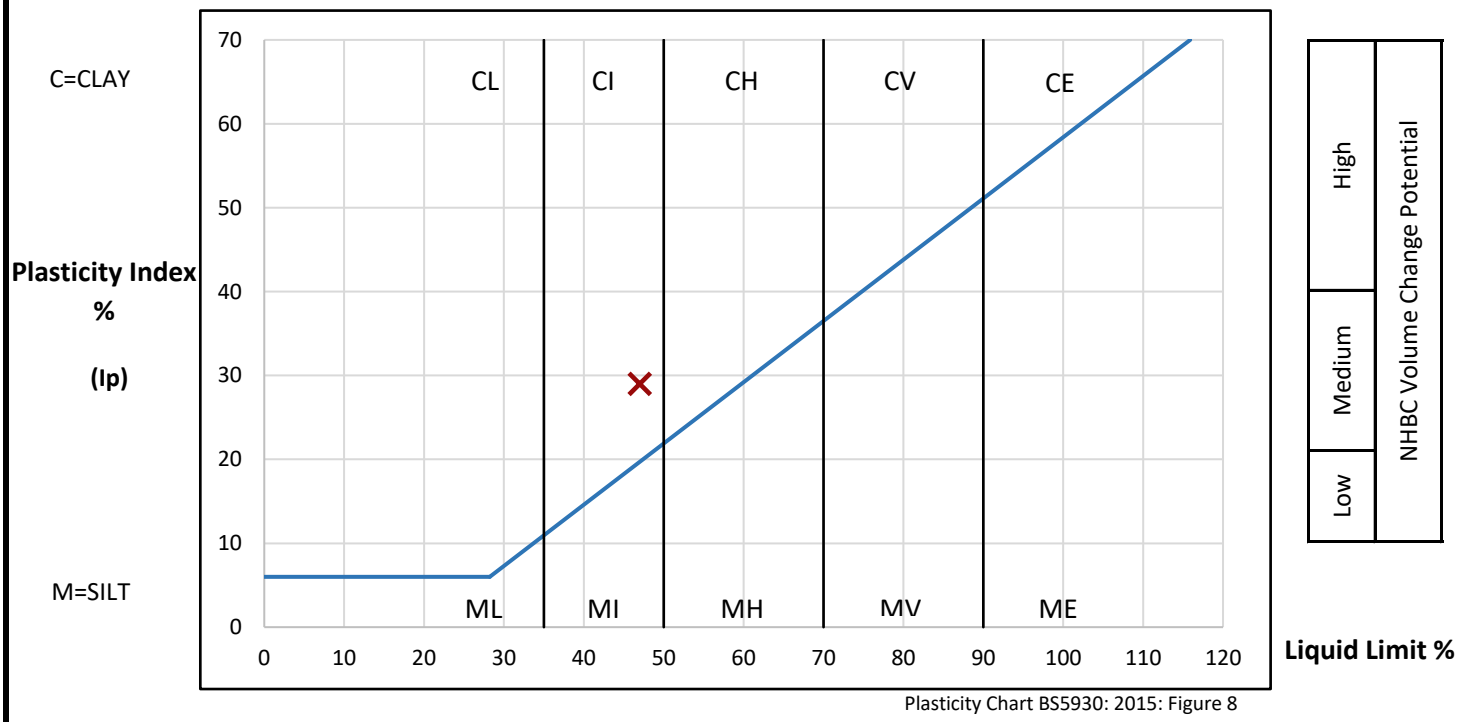
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS102	0.90	D	1	18.6	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	47 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	18 %
Sample retained 0.425mm sieve	(Measured)	7 %		Plasticity Index	29 %
Corrected water content for material passing 0.425mm		20.0 %		Liquidity Index	0.02
Sample retained 2mm sieve	(Measured)	5 %		NHBC Modified (I'p)	27 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

TEST REPORT

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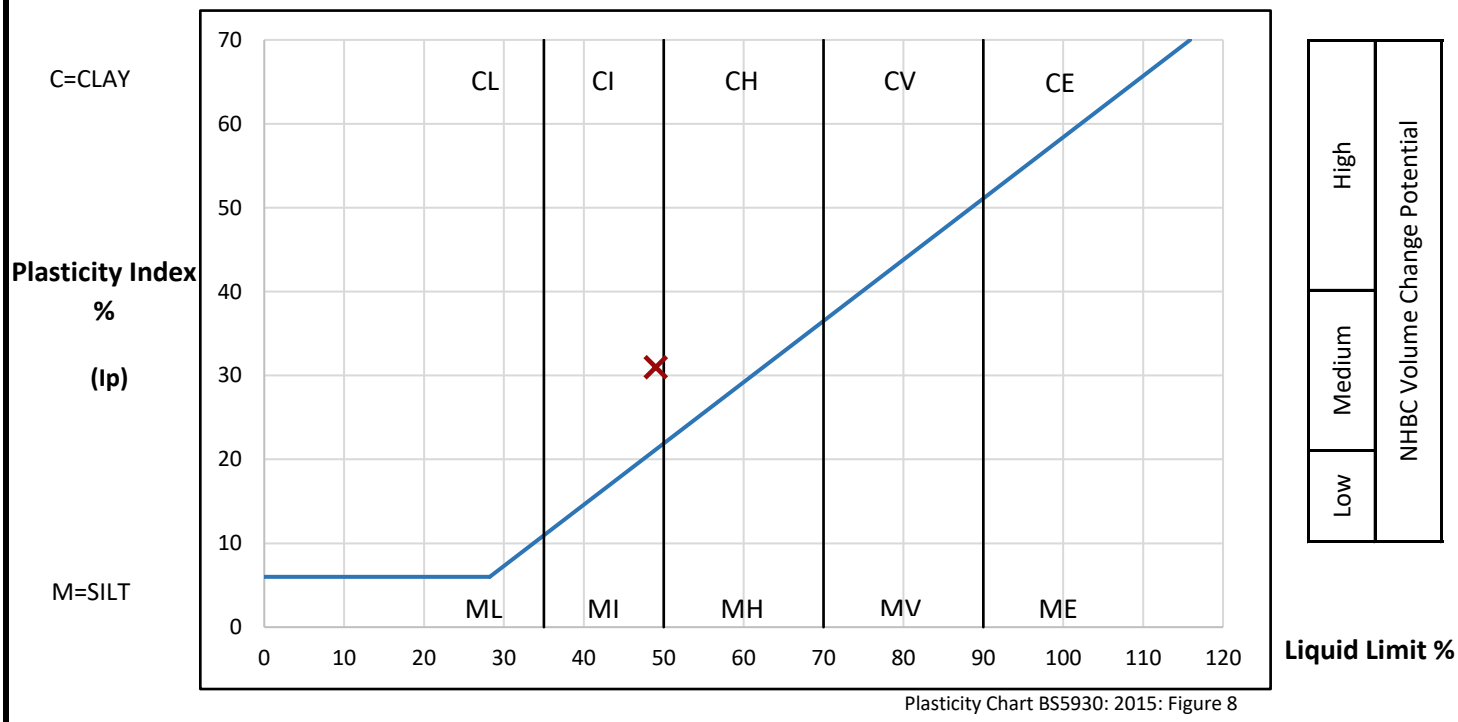
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS105	0.90	D	1	20.1	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	49 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	18 %
Sample retained 0.425mm sieve	(Measured)	6 %		Plasticity Index	31 %
Corrected water content for material passing 0.425mm		21.4 %		Liquidity Index	0.07
Sample retained 2mm sieve	(Measured)	5 %		NHBC Modified (I'p)	29 %
Curing time	49 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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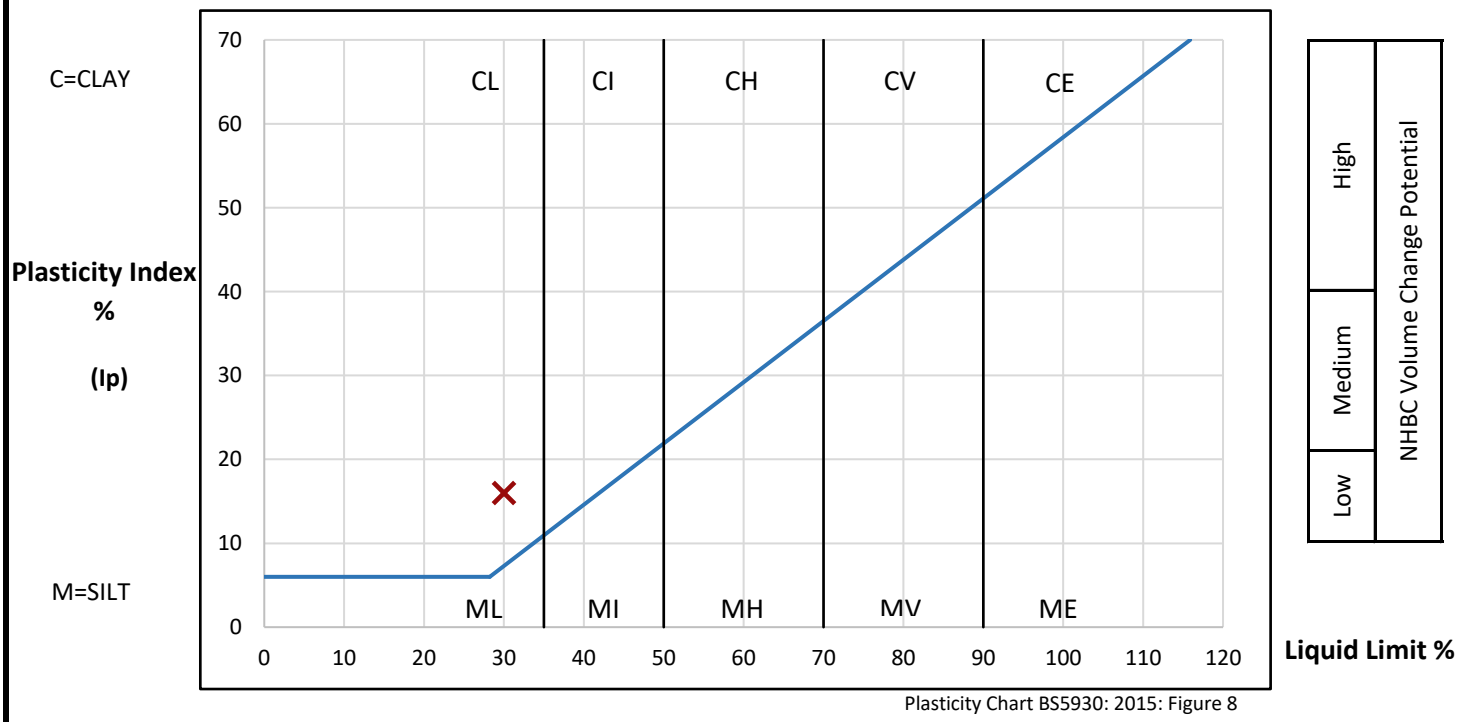
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS107	0.70	D	1	17.7	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chert and quartzite	

PREPARATION				Liquid Limit	30 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	14 %
Sample retained 0.425mm sieve	(Measured)	17 %		Plasticity Index	16 %
Corrected water content for material passing 0.425mm		21.3 %		Liquidity Index	0.23
Sample retained 2mm sieve	(Measured)	13 %		NHBC Modified (I'p)	13 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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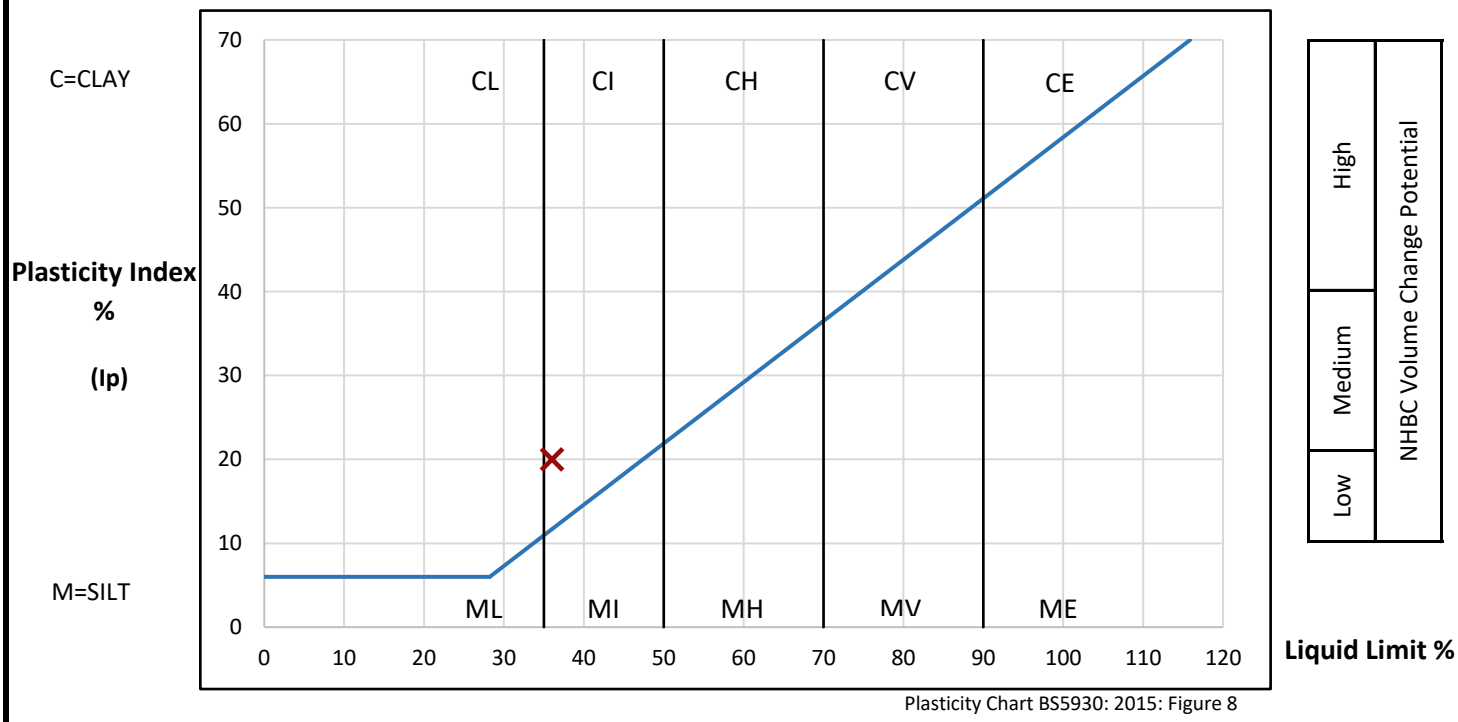
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS109	0.90	D	1	16.0	Soft olive yellow slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to rounded chalk and chert	

PREPARATION			Liquid Limit	36 %
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	16 %
Sample retained 0.425mm sieve	(Measured)	40 %	Plasticity Index	20 %
Corrected water content for material passing 0.425mm		26.6 %	Liquidity Index	0.00
Sample retained 2mm sieve	(Measured)	32 %	NHBC Modified (I'p)	12 %
Curing time	24 hrs	Clay Content: Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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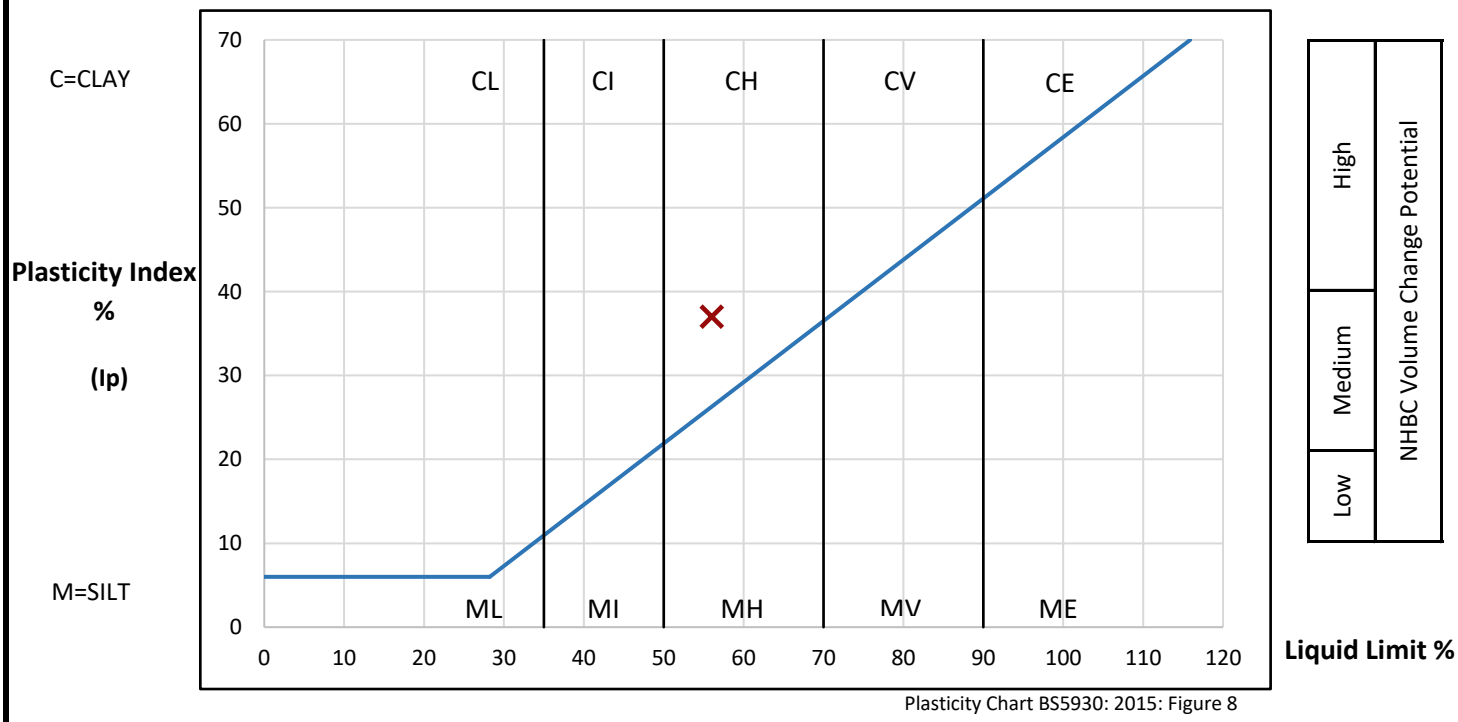
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS109	1.90	D	2	19.5	Very stiff olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	56 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	19 %
Sample retained 0.425mm sieve	(Measured)	6 %		Plasticity Index	37 %
Corrected water content for material passing 0.425mm		20.8 %		Liquidity Index	0.01
Sample retained 2mm sieve	(Measured)	4 %		NHBC Modified (I'p)	35 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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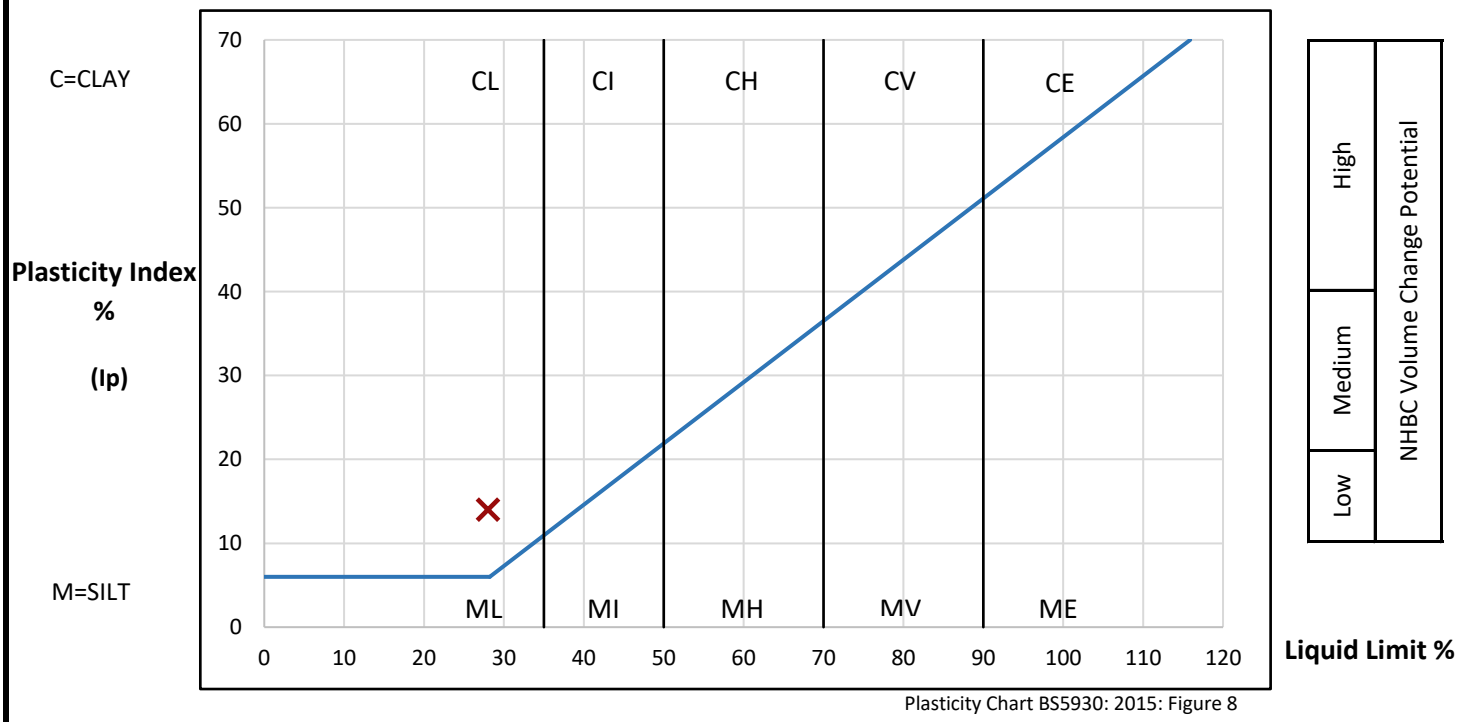
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS115	0.90	D	1	19.4	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chert and quartzite	

PREPARATION			Liquid Limit	28 %
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	14 %
Sample retained 0.425mm sieve	(Measured)	4 %	Plasticity Index	14 %
Corrected water content for material passing 0.425mm		20.3 %	Liquidity Index	0.39
Sample retained 2mm sieve	(Measured)	2 %	NHBC Modified (I'p)	13 %
Curing time	52 hrs	Clay Content Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD

DATE ISSUED: 31/03/2025

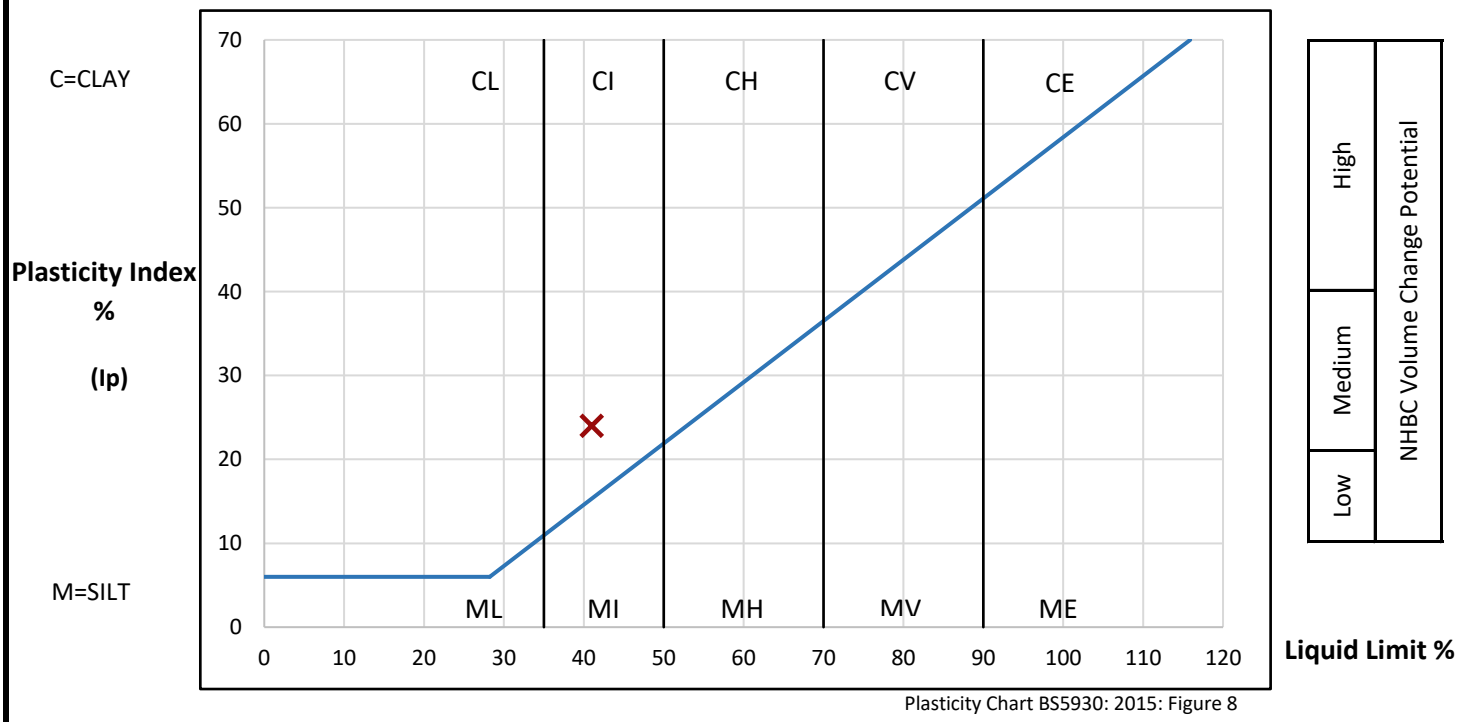
UKAS TESTING 0998

Contract	**Great Wilsey Park, Haverhill**
Serial No.	**46975_2**

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS115	1.90	D	2	19.3	Stiff mottled bluish grey and light olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	41 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	17 %
Sample retained 0.425mm sieve	(Measured)	13 %		Plasticity Index	24 %
Corrected water content for material passing 0.425mm		22.2 %		Liquidity Index	0.10
Sample retained 2mm sieve	(Measured)	11 %		NHBC Modified (I'p)	21 %
Curing time	25 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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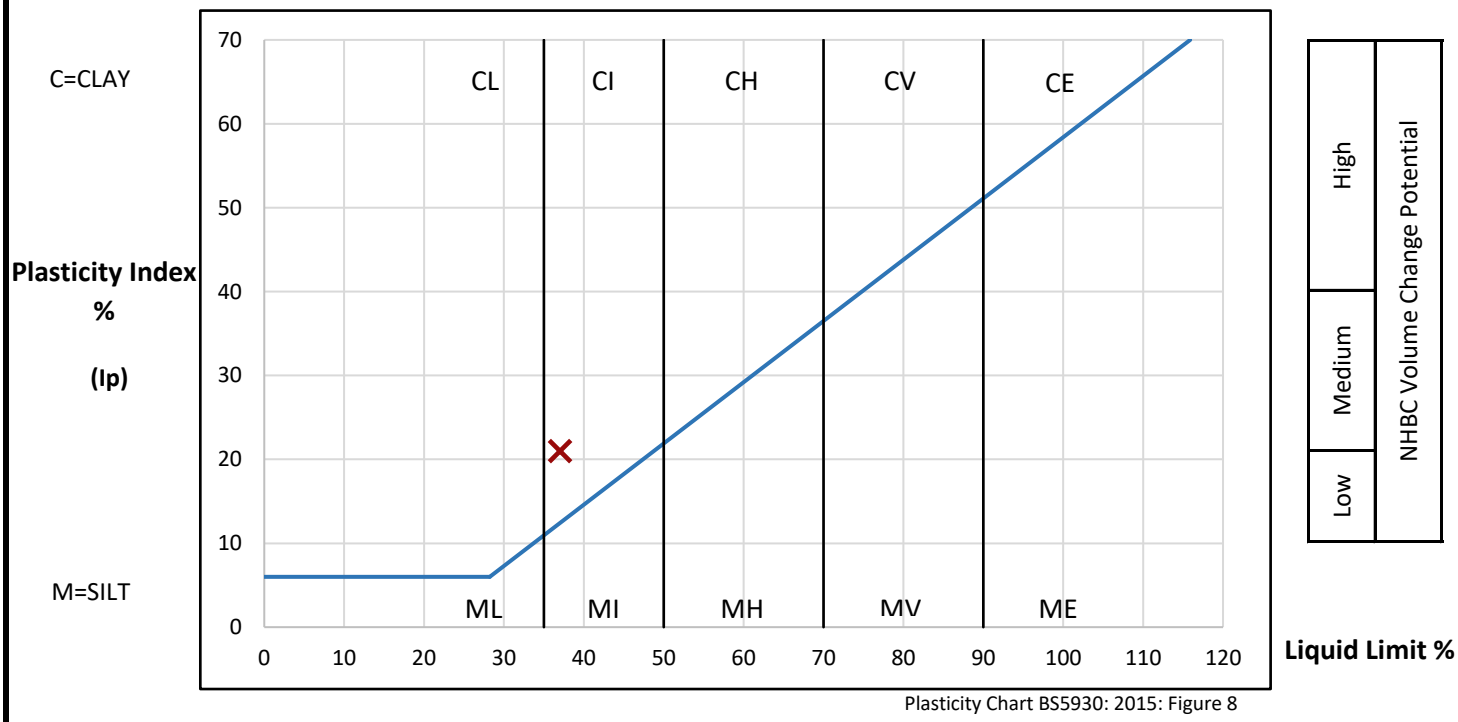
Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS118	0.90	D	1	18.4	Firm mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION			Liquid Limit	37 %
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	16 %
Sample retained 0.425mm sieve	(Measured)	11 %	Plasticity Index	21 %
Corrected water content for material passing 0.425mm		20.7 %	Liquidity Index	0.12
Sample retained 2mm sieve	(Measured)	9 %	NHBC Modified (I'p)	19 %
Curing time	49 hrs	Clay Content Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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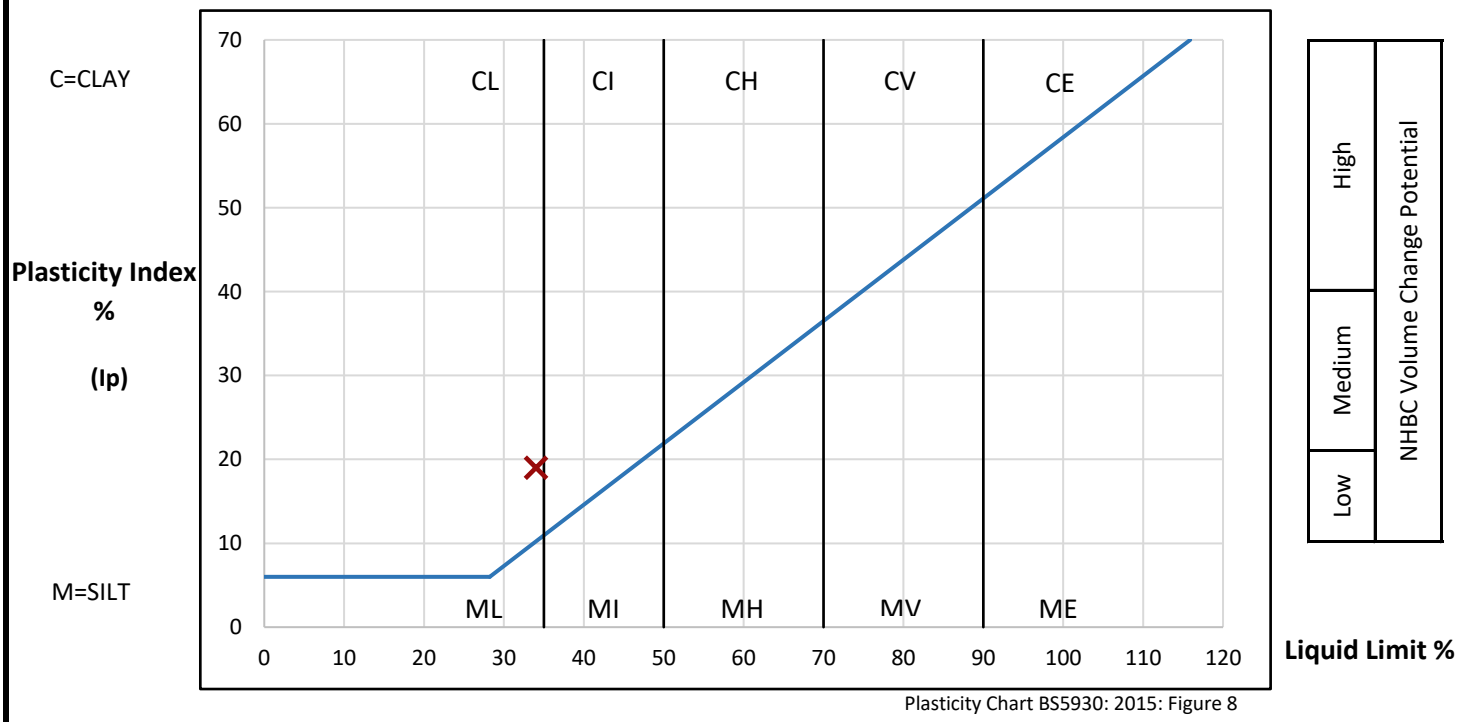
Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS119	0.90	D	1	16.6	Soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION			Liquid Limit	34 %
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	15 %
Sample retained 0.425mm sieve	(Measured)	22 %	Plasticity Index	19 %
Corrected water content for material passing 0.425mm		21.2 %	Liquidity Index	0.08
Sample retained 2mm sieve	(Measured)	16 %	NHBC Modified (I'p)	15 %
Curing time	27 hrs	Clay Content Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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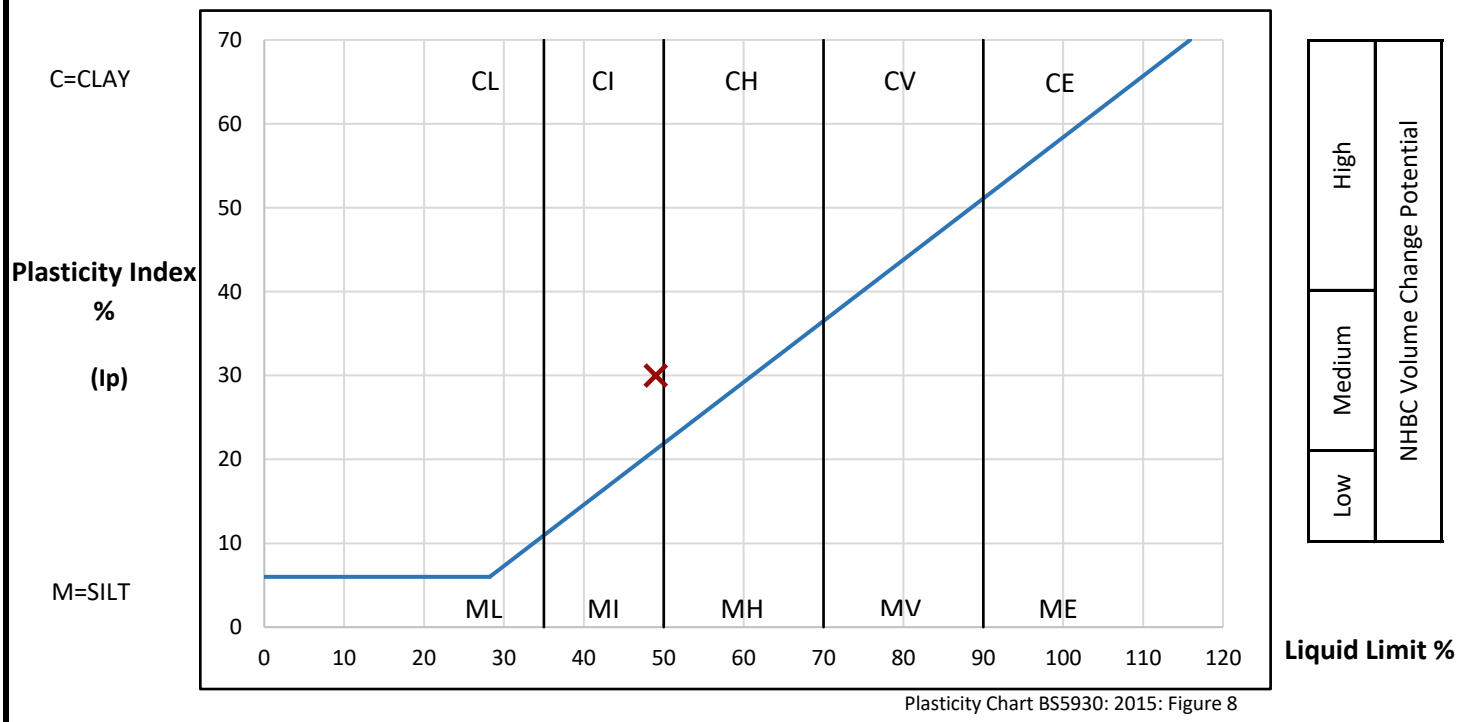
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS122	0.90	D	1	20.6	Stiff mottled bluish grey and olive slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	49 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	19 %
Sample retained 0.425mm sieve	(Measured)	7 %		Plasticity Index	30 %
Corrected water content for material passing 0.425mm		22.1 %		Liquidity Index	0.05
Sample retained 2mm sieve	(Measured)	6 %		NHBC Modified (I'p)	28 %
Curing time	25 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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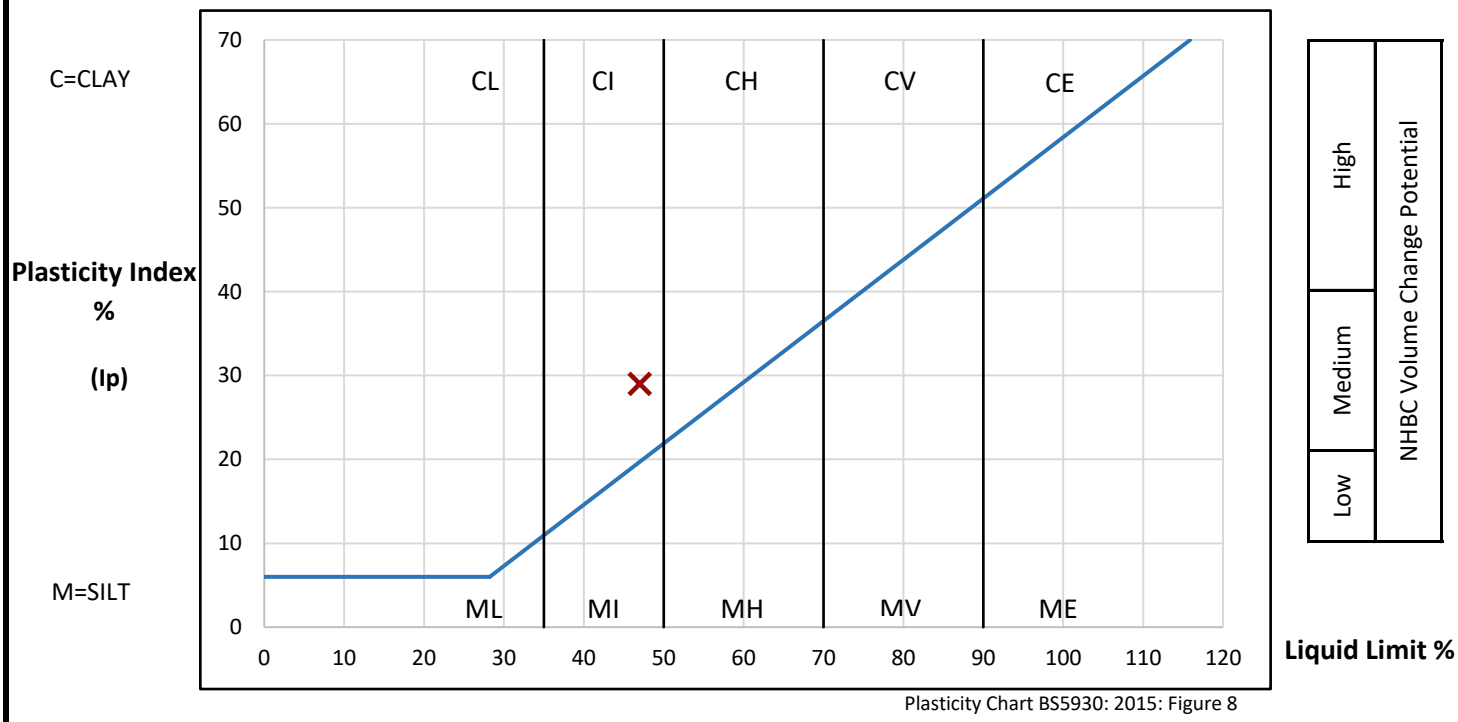
Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS124	1.00	D	1	20.0	Stiff mottled bluish grey and light olive brown slightly gravelly slightly sandy silty CLAY with rare recently active and decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	

PREPARATION				Liquid Limit	47 %
Method of preparation		Wet sieved over 0.425mm sieve		Plastic Limit	18 %
Sample retained 0.425mm sieve	(Measured)	8 %		Plasticity Index	29 %
Corrected water content for material passing 0.425mm		21.7 %		Liquidity Index	0.07
Sample retained 2mm sieve	(Measured)	6 %		NHBC Modified (I'p)	27 %
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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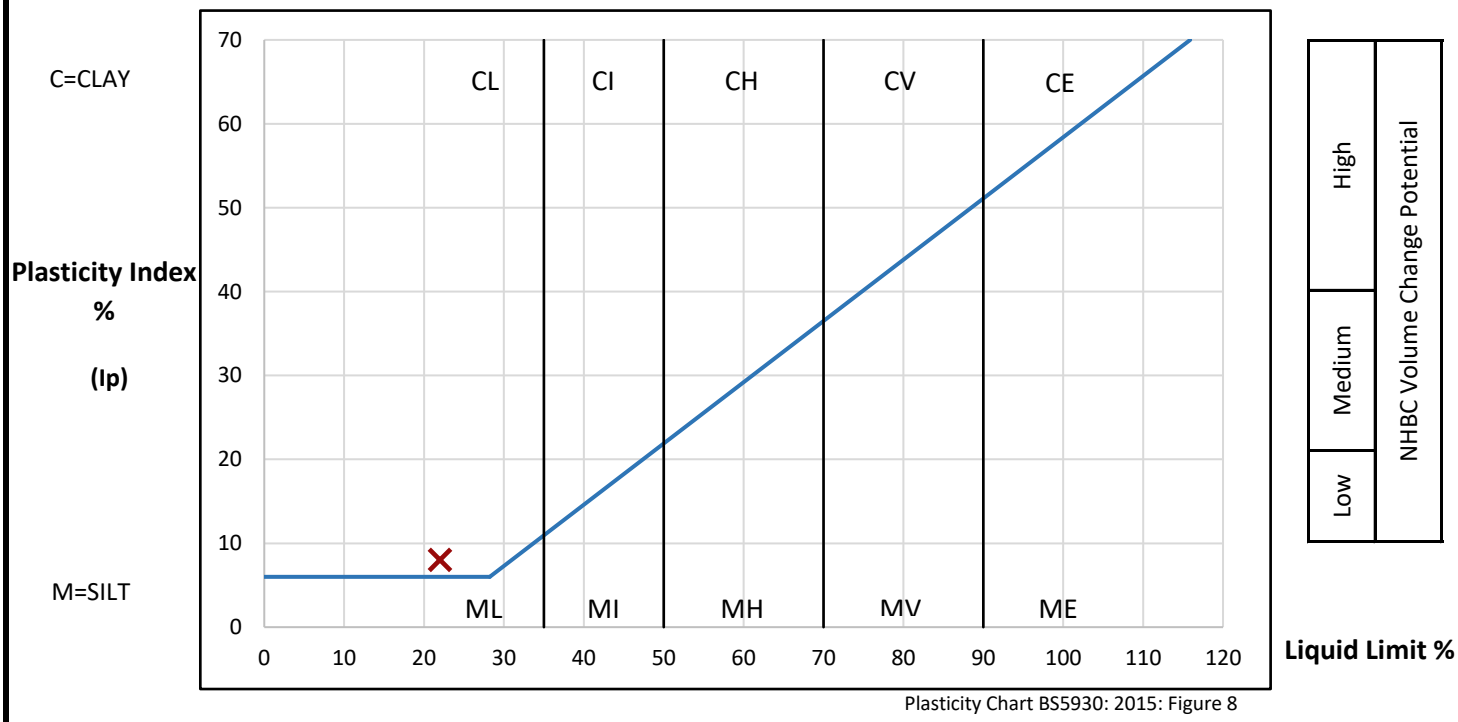
Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS127	0.80	D	1	13.1	Brown, black and white fine to coarse angular to rounded chalk and chert GRAVEL in a soft olive yellow sandy silty clay matrix	

PREPARATION				Liquid Limit	22 %
Method of preparation	Wet sieved over 0.425mm sieve			Plastic Limit	14 %
Sample retained 0.425mm sieve	(Measured)	59 %		Plasticity Index	8 %
Corrected water content for material passing 0.425mm		31.9 %		Liquidity Index	-0.12
Sample retained 2mm sieve	(Measured)	47 %		NHBC Modified (I'p)	3 %
Curing time	27 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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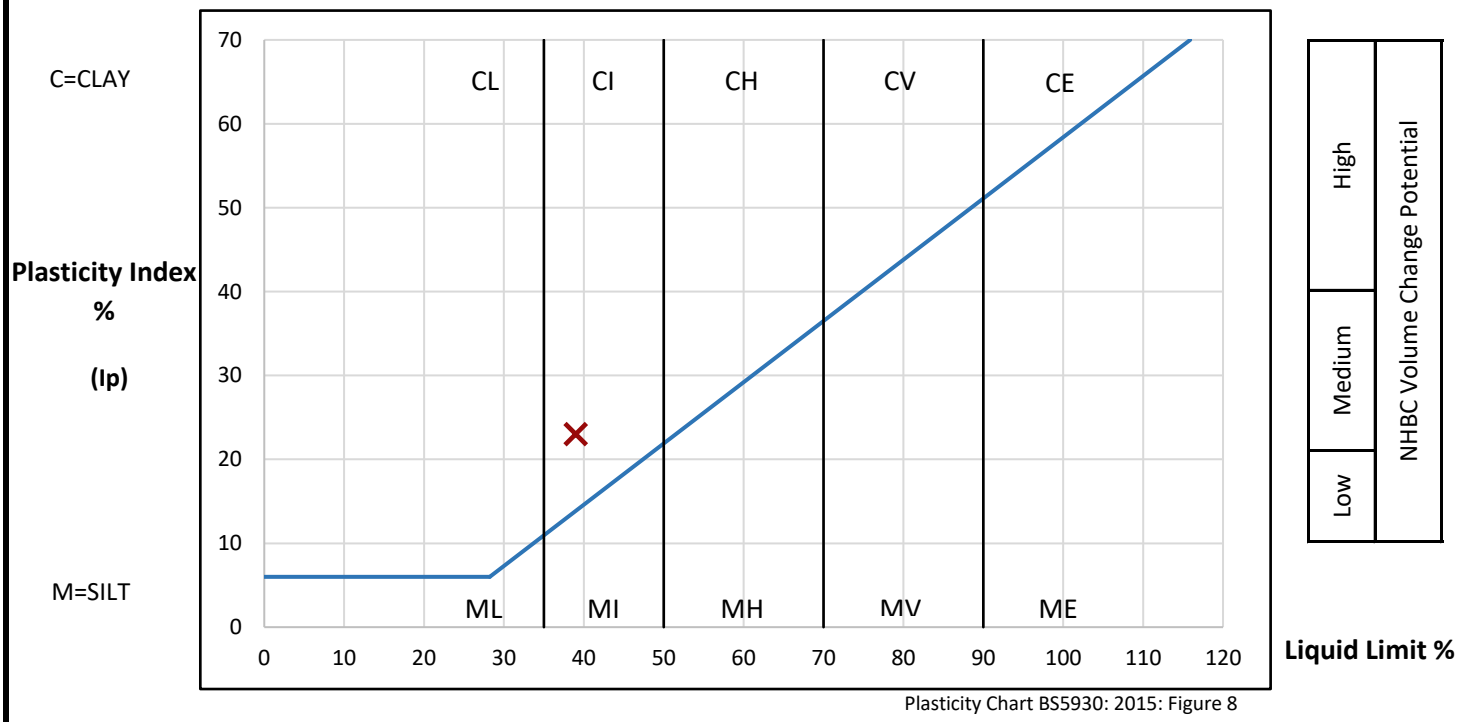
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS129	0.80	D	1	16.9	Stiff mottled bluish grey and olive yellow slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine to coarse angular to subrounded chalk and chert	

PREPARATION					
Method of preparation	Wet sieved over 0.425mm sieve			Liquid Limit	39 %
Sample retained 0.425mm sieve	(Measured)	11 %		Plastic Limit	16 %
Corrected water content for material passing 0.425mm		19.0 %		Plasticity Index	23 %
Sample retained 2mm sieve	(Measured)	9 %		Liquidity Index	0.04
Curing time	51 hrs	Clay Content	Not analysed	NHBC Modified (I'p)	20 %
				Derived Activity	Not analysed



Plasticity Chart BS5930: 2015: Figure 8

Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)

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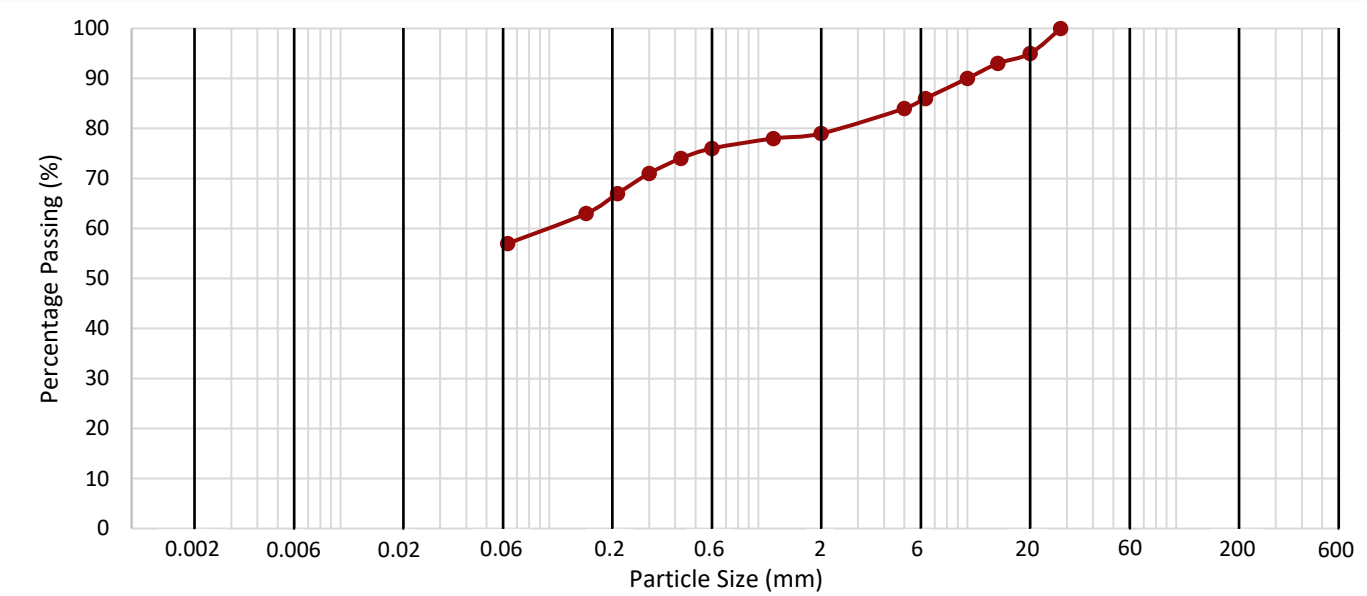
DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample Type	Sample Reference	Description	Remarks
WS127	1.50	D	2	Olive brown slightly gravelly slightly sandy silty CLAY with rare decayed roots. Gravel is fine and medium angular to subrounded chalk and chert	

Method of Test:	Wet Sieve	Method of Pretreatment:	Not required



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

Hydrometer	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)	Clay by Dry Mass (%)

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	79	22
1.18	78	
0.600	76	
0.425	74	
0.300	71	
0.212	67	
0.150	63	
0.063	57	

Fines By Dry Mass (%)	
<0.063mm	57

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		21
125		
90		
63		
50		
37.5		
28	100	
20	95	
14	93	
10	90	
6.3	86	
5	84	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
Method of test: BS1377: Part 2: 1990: 9.2
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:

Appendix 12 – Photographs

Photograph 1

Photograph 2

Photograph 3

Photograph 4

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 1

View of site from western site boundary facing east.

Photograph 2

View of site from eastern site boundary facing west.

Photograph 3

Stream running down northern site boundary.

Photograph 4

View from centre of northern site boundary facing west.

PROJECT

Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER

9081,GI

TITLE

Selected Photographs Relating To Site Investigation

DATE

30/05/2025

Photograph 5

Photograph 6

Photograph 7

Photograph 8

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 5
View of site from southern site boundary facing north.

Photograph 6
View of eastern site boundary facing north.

Photograph 7
View from northern site boundary facing south.

Photograph 8
View of western site boundary facing west.

PROJECT
Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
9081,GI

TITLE
Selected Photographs Relating To Site Investigation

DATE
30/05/2025

Photograph 9

Photograph 10

Photograph 11

Photograph 12

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 9
WS101.

Photograph 10
WS102.

Photograph 11
WS103

Photograph 12
WS104.

PROJECT
Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
9081,GI

TITLE
Selected Photographs Relating To Site Investigation

DATE
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Photograph 13

Photograph 14

Photograph 15

Photograph 16

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 13
WS105.

Photograph 14
WS106.

Photograph 15
WS107.

Photograph 16
WS108.

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PROJECT NUMBER
9081,GI

TITLE
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Photograph 17

Photograph 18

Photograph 19

Photograph 20

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 17
WS109.

Photograph 18
WS110.

Photograph 19
WS111.

Photograph 20
WS112.

PROJECT
Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
9081,GI

TITLE
Selected Photographs Relating To Site Investigation

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30/05/2025

Photograph 21

Photograph 22

Photograph 23

Photograph 24

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 21
WS113.

Photograph 22
WS114.

Photograph 23
WS115.

Photograph 24
WS116.

PROJECT
Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
9081,GI

TITLE
Selected Photographs Relating To Site Investigation

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Photograph 25

Photograph 26

Photograph 27

Photograph 28

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 25
WS117.

Photograph 26
WS118.

Photograph 27
WS119.

Photograph 28
WS120.

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Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
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TITLE
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Photograph 29

Photograph 30

Photograph 31

Photograph 32

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 29
WS121.

Photograph 30
WS122.

Photograph 31
WS123.

Photograph 32
WS124.

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9081,GI

TITLE
Selected Photographs Relating To Site Investigation

DATE
30/05/2025

Photograph 33

Photograph 34

Photograph 35

Photograph 36

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 33
WS125.

Photograph 34
WS126.

Photograph 35
WS127.

Photograph 36
WS128.

PROJECT
Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
9081,GI

TITLE
Selected Photographs Relating To Site Investigation

DATE
30/05/2025

Photograph 37

Photograph 38

Photograph 39

Photograph 40

GEOSPHERE ENVIRONMENTAL

DESCRIPTION

Photograph 37
WS129.

Photograph 38
WS130.

Photograph 39 & 40
Gas and groundwater monitoring wells.

PROJECT
Great Wilsey Park, Haverhill, Suffolk

PROJECT NUMBER
9081,GI

TITLE
Selected Photographs Relating To Site Investigation

DATE
30/05/2025

Appendix 13 – Discovery Strategy

There is the possibility that sources of contamination may be present on the site which were not identified during this investigation. Should contamination be identified or suspected during any phase of the development (most likely groundworks) this should be assessed accordingly by implementing the following:

Immediate action

- All works in the vicinity of the suspected contaminated material to cease.
- Attendance by a suitably experienced Environmental Engineer to assess the suspected contaminated material and if necessary, sample for characterisation.

Likely steps (to be confirmed following initial assessment)

- If it is not feasible to keep the suspected material in situ, then these should be removed and temporarily stored in a fenced area, whilst characterisation is undertaken. The storage area should be secured and contained to ensure that potential contamination does not get moved and affect other areas of the site. Depending upon the amounts of material under consideration, this could be either a skip or a lined area.
- If the suspected contaminated material is dry or is suspected to contain asbestos, the material should be covered to prevent airborne contamination in the form of dust or fibres.
- Upon characterisation of the suspected contamination, if assessed to be impacted, the material may be either treated or removed from site following suitable waste management licensing or obtaining appropriate consents or agreements with relevant Regulatory Authorities.
- All contaminated material to be removed from site, should be disposed of at a suitably licensed facility / removed by a suitably licensed waste handler.
- Following excavation and removal, any open excavations or service trenches should be backfilled with soil that is suitable and certified as 'clean', (this may be either site-won or imported).
- Validation of backfilling and remedial works will likely be required.

The Discovery Strategy is applicable during all phases of the development.

GEOSPHERE ENVIRONMENTAL

Ec Ecology.

Fr Flood Risk.

Ge Geotechnical.

En Environmental.

Kw Knotweed.

GEOSPHERE ENVIRONMENTAL LTD

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