jnpgroup
Consulting Engineers

Trial Pit Log

Trialpit No
SA02A
Sheet 1 of 1

Project Name:	Hook Norton Road, Sibford Ferris	Project No. C85855	Co-ords: - Level:	Date 12/07/2018
Location:	Sibford Ferris, Banbury	Dimensions (m): Depth 1.40	2 / 0.6	Scale 1:25
Client:	Land and Partners Ltd			Logged JP

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			Grass overlying light brown sandy TOPSOIL with fine rootlets. TOPSOIL
							Orangey brown silty fine SAND with rare silty pockets (<5cm) and rare subangular ironstone cobbles. Becoming very silty towards base. NORTHAMPTON SAND FORMATION
				1.40			End of pit at 1.40 m

Remarks: Pit dry.

Stability: Stable

AGS

jnpgroup
Consulting Engineers

Trial Pit Log

Trialpit No
SA03
Sheet 1 of 1

Project Name:	Hook Norton Road, Sibford Ferris	Project No. C85855	Co-ords: - Level:	Date 12/07/2018
Location:	Sibford Ferris, Banbury	Dimensions (m): Depth 1.30	2 / 0.6	Scale 1:25
Client:	Land and Partners Ltd			Logged JP

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			Grass overlying light brown sandy TOPSOIL with fine rootlets. TOPSOIL
							Orangey brown silty fine SAND with ocassional silt pockets (<5cm) and rare fine to medium subangular ironstone gravel. NORTHAMPTON SAND FORMATION
				1.10			Firm to stiff grey CLAY. WHITBY MUDSTONE FORMATION
				1.30			End of pit at 1.30 m

Remarks: Pit dry.

Stability: Stable

AGS

jnpgroup
Consulting Engineers

Trial Pit Log

Trialpit No
SA03A
Sheet 1 of 1

Project Name:	Hook Norton Road, Sibford Ferris	Project No. C85855	Co-ords: - Level:	Date 12/07/2018
Location:	Sibford Ferris, Banbury	Dimensions (m): Depth 1.10	2 / 0.6	Scale 1:25
Client:	Land and Partners Ltd			Logged JP

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			Grass overlying light brown sandy TOPSOIL. TOPSOIL
							Orangey brown silty fine SAND with ocassional silt pockets (<5cm) and rare fine to medium subangular ironstone gravel. Becoming slightly clayey towards base. NORTHAMPTON SAND FORMATION
				1.10			End of pit at 1.10 m

1 2 3 4 5

Remarks: Pit dry.

Stability: Stable

AGS

APPENDIX F: GEOTECHNICAL TEST RESULTS

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	JNP Midlands LLP	Client Reference:	C85855
Client Address:	No.1 Meadowhall, Riverside, Sheffield	Job Number:	20-29971
		Date Sampled:	08/09/2020
		Date Received:	10/09/2020
Contact:	Samuel Pyott	Date Tested:	23/09/2020
Site Address:	Hook Norton Road, Sibford Ferris	Sampled By:	Client- SP

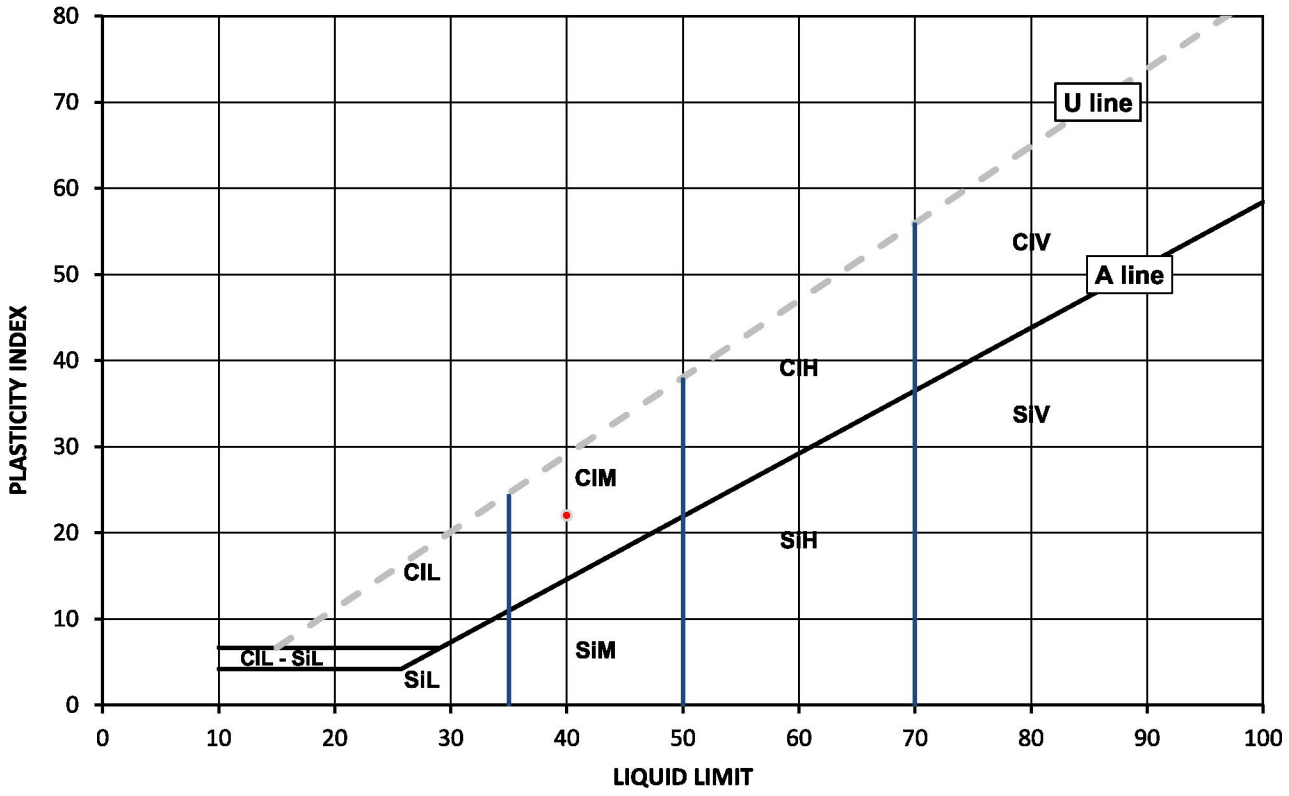
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	1619892	Depth Top [m]:	1.00
Hole No.:	TP03	Depth Base [m]:	Not Given
Sample Reference:	8	Sample Type:	D
Soil Description:	Orangish brown slighty gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
16	40	18	22	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 236.10

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	JNP Midlands LLP	Client Reference:	C85855
Client Address:	No.1 Meadowhall, Riverside, Sheffield	Job Number:	20-29971
		Date Sampled:	08/09/2020
		Date Received:	10/09/2020
Contact:	Samuel Pyott	Date Tested:	23/09/2020
Site Address:	Hook Norton Road, Sibford Ferris	Sampled By:	Client- SP

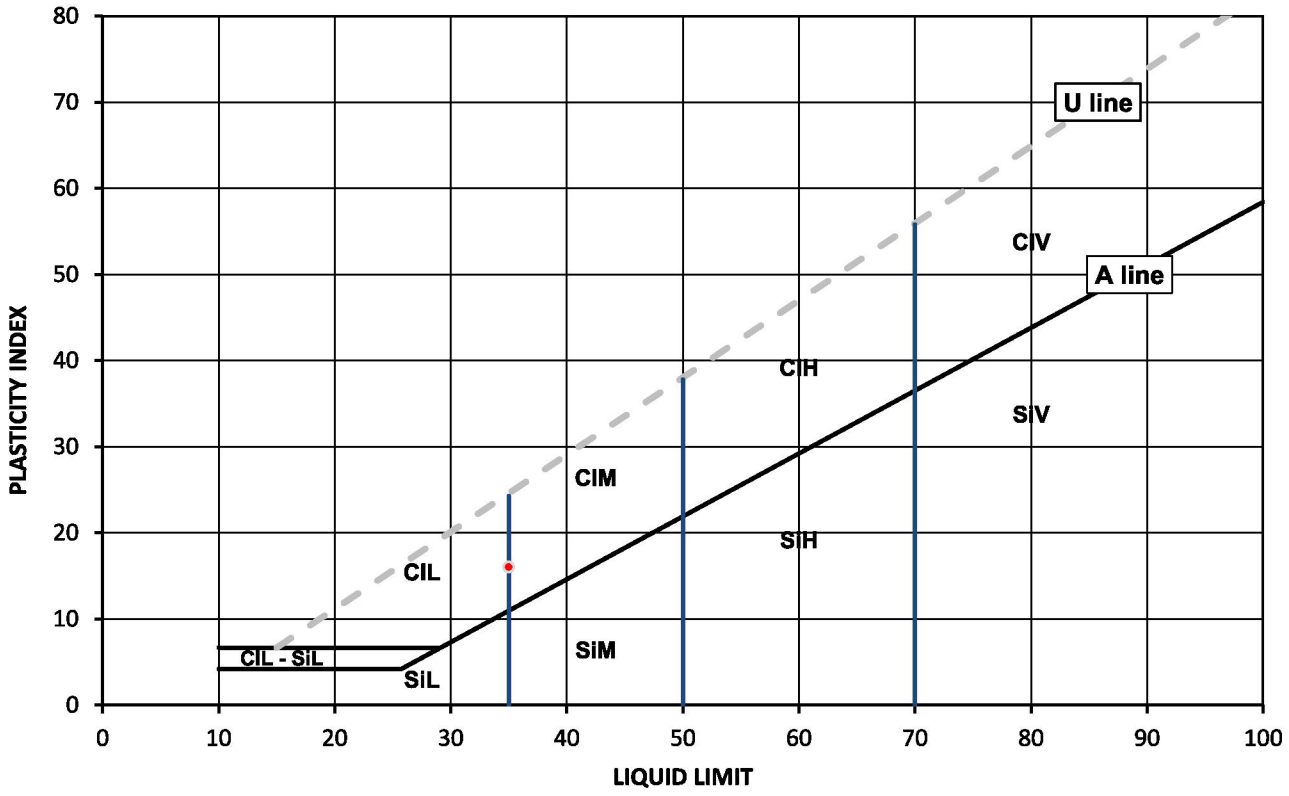
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	1619894	Depth Top [m]:	1.20
Hole No.:	TP06	Depth Base [m]:	Not Given
Sample Reference:	16	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
22	35	19	16	89



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 236.10

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	JNP Midlands LLP	Client Reference:	C85855
Client Address:	No.1 Meadowhall, Riverside, Sheffield	Job Number:	20-29971
		Date Sampled:	08/09/2020
		Date Received:	10/09/2020
Contact:	Samuel Pyott	Date Tested:	23/09/2020
Site Address:	Hook Norton Road, Sibford Ferris	Sampled By:	Client- SP

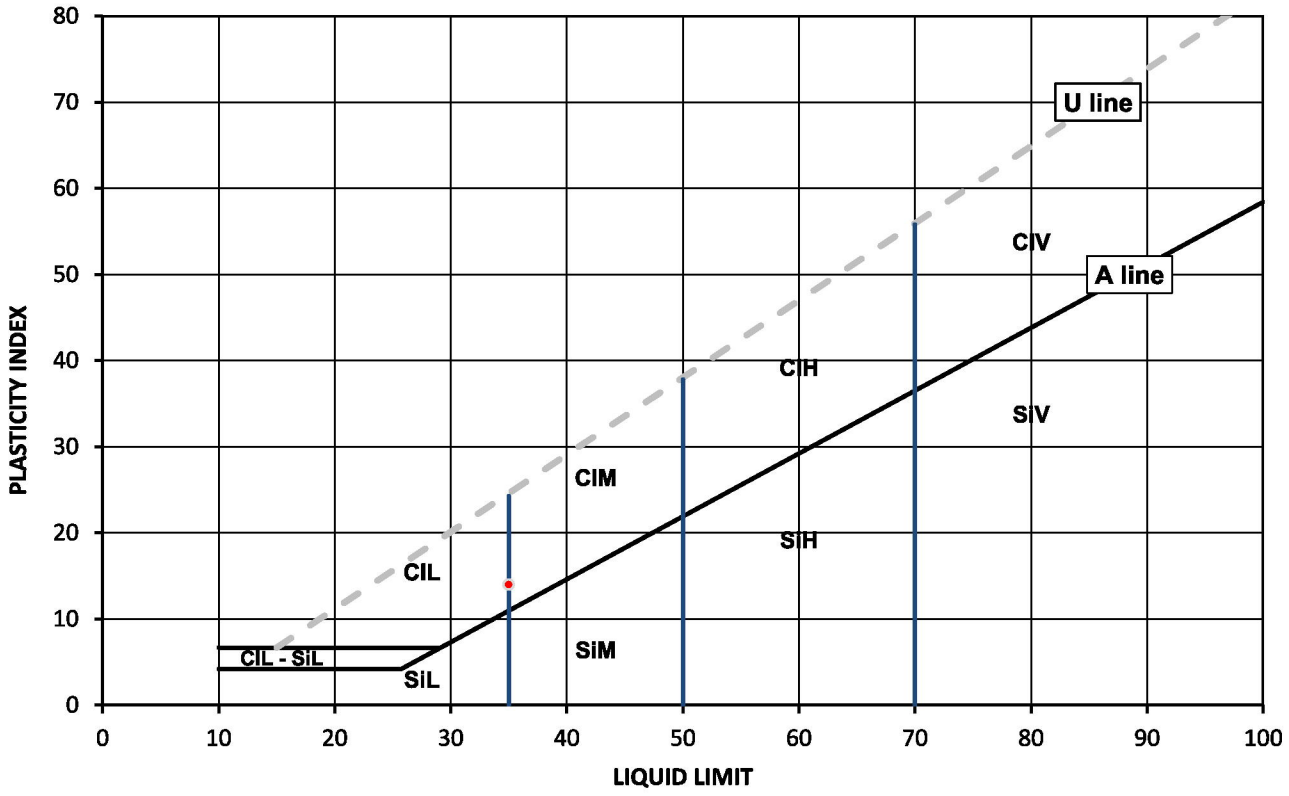
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	1619895	Depth Top [m]:	2.00
Hole No.:	TP07	Depth Base [m]:	Not Given
Sample Reference:	19	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	35	21	14	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 236.10

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

Environmental Science

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	JNP Midlands LLP	Client Reference:	C85855
Client Address:	No.1 Meadowhall, Riverside, Sheffield	Job Number:	20-29971
		Date Sampled:	08/09/2020
		Date Received:	10/09/2020
Contact:	Samuel Pyott	Date Tested:	23/09/2020
Site Address:	Hook Norton Road, Sibford Ferris	Sampled By:	Client- SP

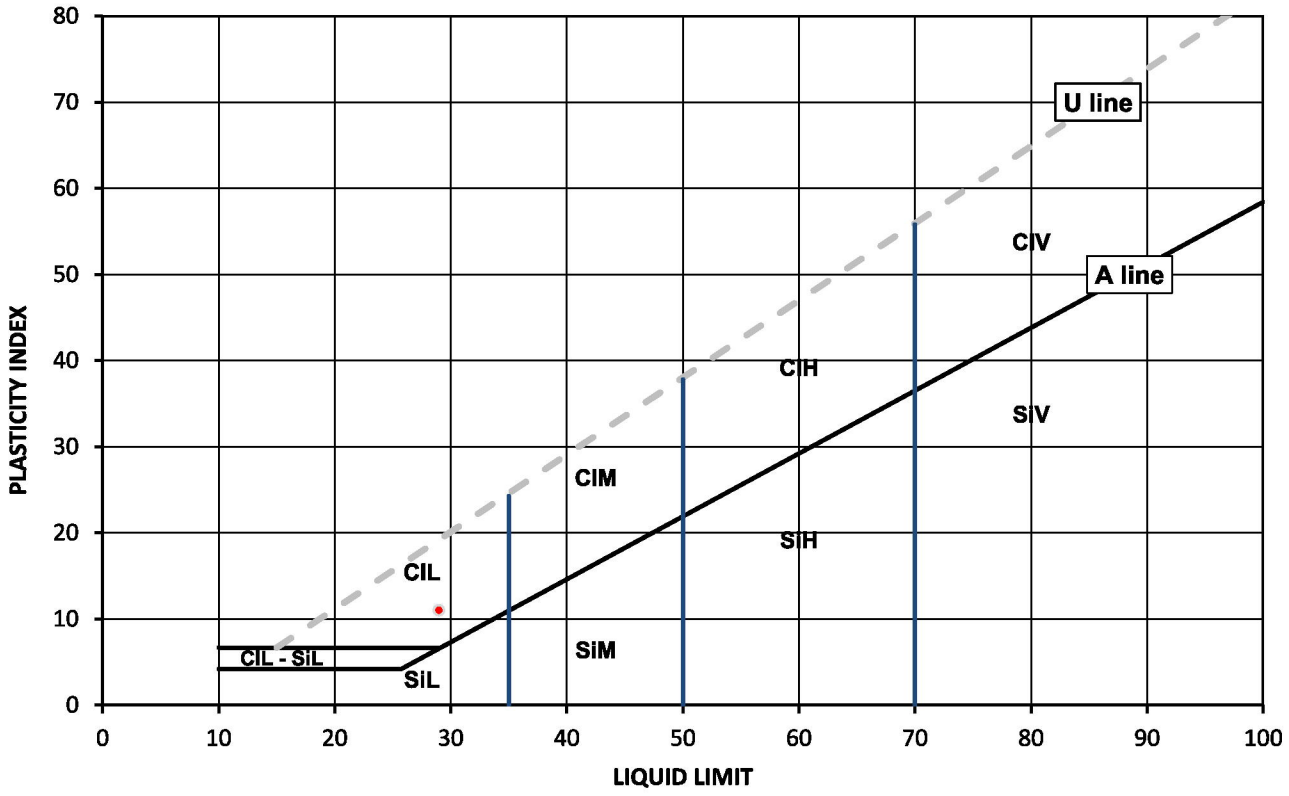
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	1619896	Depth Top [m]:	0.80
Hole No.:	TP08	Depth Base [m]:	Not Given
Sample Reference:	20	Sample Type:	D
Soil Description:	Dark brown slightly gravelly very sandy CLAY		

Sample Preparation: Tested after >425um removed by hand

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
16	29	18	11	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 236.10

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: JNP Midlands LLP

Client Address: No.1 Meadowhall, Riverside, Sheffield

Contact: Samuel Pyott

Site Address: Hook Norton Road, Sibford Ferris

Client Reference: C85855
Job Number: 20-29971
Date Sampled: 08/09/2020
Date Received: 10/09/2020
Date Tested: 23/09/2020
Sampled By: Client- SP

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [W]	Water Content [W]	Atterberg				Density			Total Porosity#		
		Reference	Depth Top	Depth Base	Type					% Passing 425um	WL	Wp	Ip	bulk	dry	PD			
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%		
1619892	TP03	8	1.00	Not Given	D	Orangish brown slighty gravelly sandy CLAY	Atterberg 4 Point	16		96	40	18	22						
1619894	TP06	16	1.20	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	22		89	35	19	16						
1619895	TP07	19	2.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	23		96	35	21	14						
1619896	TP08	20	0.80	Not Given	D	Dark brown slightly gravelly very sandy CLAY	Atterberg 4 Point	16		94	29	18	11						

Note: # Non accredited; NP - Non plastic

Comments:

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 238.12

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

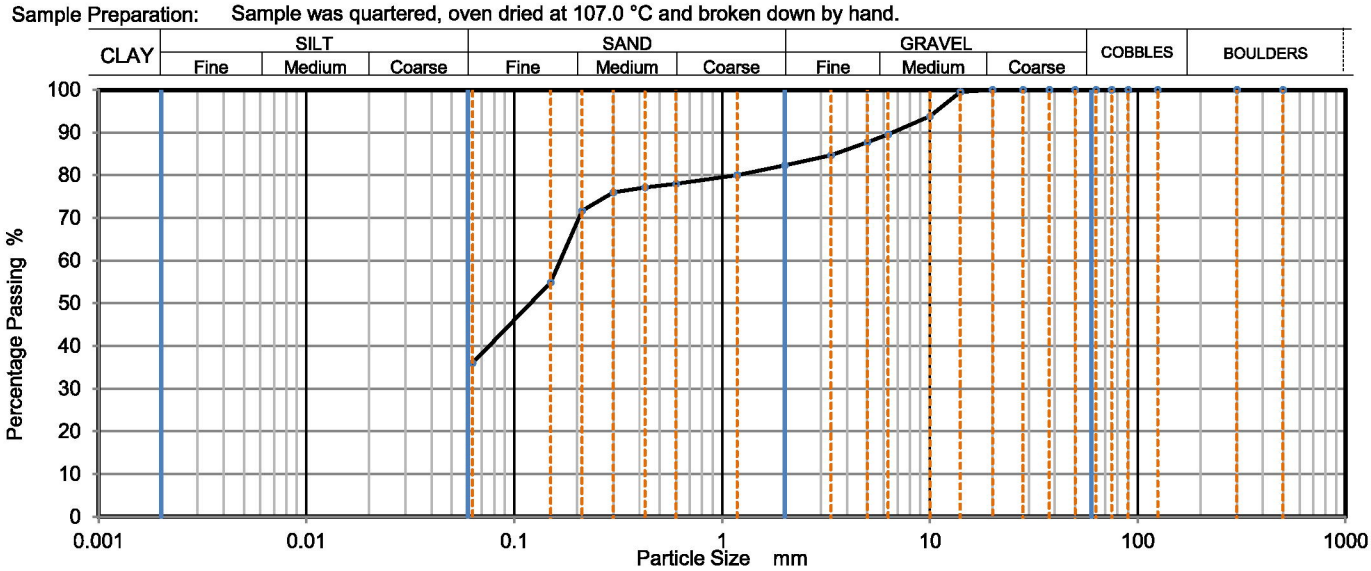
Environmental Science

Client:	JNP Midlands LLP	Client Reference:	C85855
Client Address:	No.1 Meadowhall, Riverside, Sheffield	Job Number:	20-29971
		Date Sampled:	08/09/2020
		Date Received:	10/09/2020
Contact:	Samuel Pyott	Date Tested:	23/09/2020
Site Address:	Hook Norton Road, Sibford Ferris	Sampled By:	Client- SP

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	1619891	Depth Top [m]:	0.80
Hole No.:	TP02	Depth Base [m]:	Not Given
Sample Reference:	5	Sample Type:	D
Sample Description:	Orangish brown gravelly very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 107.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	94		
6.3	90		
5	88		
3.35	85		
2	82		
1.18	80		
0.6	78		
0.425	77		
0.3	76		
0.212	72		
0.15	55		
0.063	36		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	17.70
Sand	46.20
Fines <0.063mm	36.20

Grading Analysis		
D100	mm	20
D60	mm	0.166
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 100.18

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

UKAS TESTING 4041

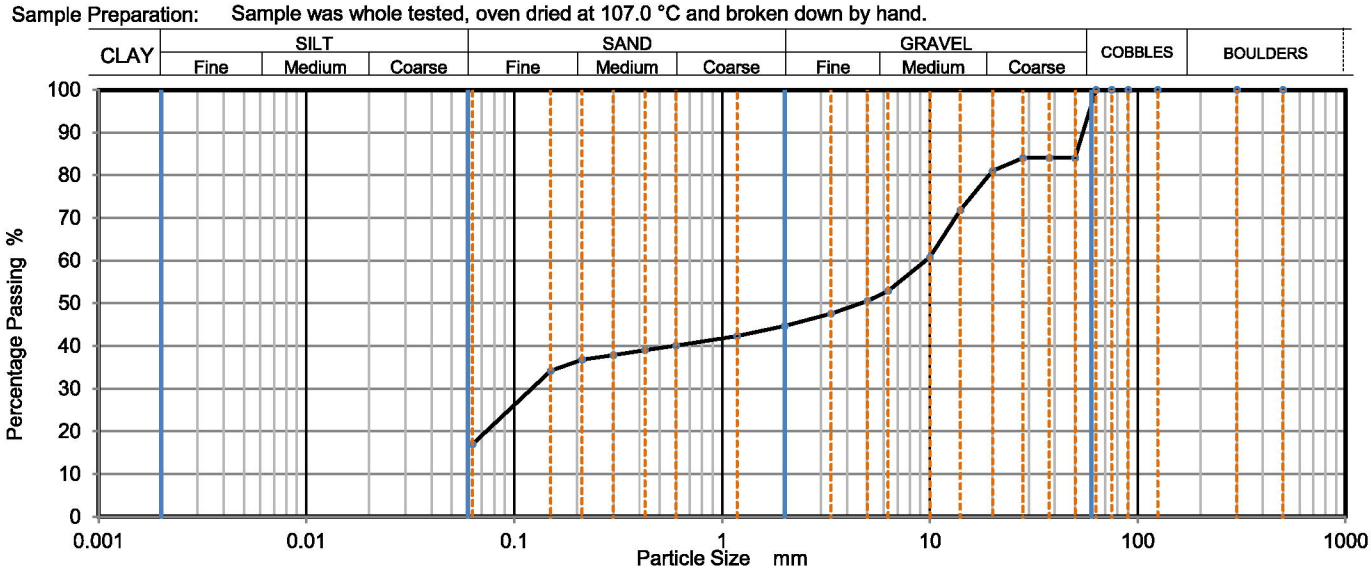
Environmental Science

Client:	JNP Midlands LLP	Client Reference:	C85855
Client Address:	No.1 Meadowhall, Riverside, Sheffield	Job Number:	20-29971
		Date Sampled:	08/09/2020
		Date Received:	10/09/2020
Contact:	Samuel Pyott	Date Tested:	23/09/2020
Site Address:	Hook Norton Road, Sibford Ferris	Sampled By:	Client- SP

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	1619893	Depth Top [m]:	1.00
Hole No.:	TP04	Depth Base [m]:	Not Given
Sample Reference:	11	Sample Type:	D
Sample Description:	Orangish brown clayey sandy GRAVEL		
Sample Preparation:	Sample was whole tested, oven dried at 107.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
125	100		
90	100		
75	100		
63	100		
50	84		
37.5	84		
28	84		
20	81		
14	72		
10	61		
6.3	53		
5	51		
3.35	48		
2	45		
1.18	42		
0.6	40		
0.425	39		
0.3	38		
0.212	37		
0.15	34		
0.063	18		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	55.30
Sand	27.00
Fines <0.063mm	17.80

Grading Analysis		
D100	mm	63
D60	mm	9.55
D30	mm	0.12
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Signed: [redacted]

Szczepan Bielatowicz
PL Deputy of Head of Geotechnical Section
for and on behalf of i2 Analytical Ltd

Date Reported: 29/09/2020

GF 100.18

Samuel Pyott
JNP Midlands LLP
No.1 Meadowhall
Riverside
Sheffield

e:

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 20-29973

Project / Site name:	Hook Norton, Sibford Ferris	**Samples received on:**	10/09/2020
Your job number:	C85855	**Samples instructed on/ Analysis started on:**	11/09/2020
Your order number:	G755	**Analysis completed by:**	25/09/2020
Report Issue Number:	1	**Report issued on:**	25/09/2020
Samples Analysed:	4 soil samples		

Signed: [redacted]
Zina Abdul Razzak
Senior Quality Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 20-29973
Project / Site name: Hook Norton, Sibford Ferris
Your Order No: G755

Lab Sample Number				1619913	1619914	1619915	1619916
Sample Reference				TP01	TP05	TP07	TP07
Sample Number				3	13	18	19
Depth (m)				0.60	1.10	0.80	2.00
Date Sampled				08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	21	11	15	20
Total mass of sample received	kg	0.001	NONE	1	1	1	0.5
General Inorganics							
pH - Automated	pH Units	N/A	MCERTS	8	8.3	8.1	7.9
Total Sulphate as SO4	%	0.005	MCERTS	0.023	0.04	0.02	0.02
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0091	0.012	0.0076	0.0088
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	11	< 0.5	6.5	4.6
Total Sulphur	%	0.005	MCERTS	0.012	0.025	0.014	0.012
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids							
Magnesium (water soluble)	mg/kg	5	NONE	5.4	7.1	5.5	7.1
Magnesium (leachate equivalent)	mg/l	2.5	NONE	2.7	3.5	2.8	3.6

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 20-29973
Project / Site name: Hook Norton, Sibford Ferris

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1619913	TP01	3	0.6	Brown loam and clay with gravel.
1619914	TP05	13	1.1	Brown loam and clay with gravel.
1619915	TP07	18	0.8	Brown loam and clay with gravel.
1619916	TP07	19	2	Brown loam and clay with gravel.

Analytical Report Number : 20-29973
Project / Site name: Hook Norton, Sibford Ferris

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX G: CHEMICAL TEST RESULTS

Samuel Pyott
JNP Midlands LLP
No.1 Meadowhall
Riverside
Sheffield

e:

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 20-30123

Project / Site name:	Hook Norton Road, Sibford Ferris	**Samples received on:**	14/09/2020
Your job number:	C85855	**Samples instructed on/ Analysis started on:**	14/09/2020
Your order number:	G754	**Analysis completed by:**	23/09/2020
Report Issue Number:	1	**Report issued on:**	23/09/2020
Samples Analysed:	6 soil samples		

Signed: [redacted]

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 20-30123
Project / Site name: Hook Norton Road, Sibford Ferris
Your Order No: G754

Lab Sample Number				1620601	1620602	1620603	1620604
Sample Reference				TP01 ES1	TP03 ES7	TP04 ES10	TP06 ES15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.30	0.60	0.30
Date Sampled				08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	16	13	16	13
Total mass of sample received	kg	0.001	NONE	0.4	0.5	0.4	0.5
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected
General Inorganics							
pH - Automated	pH Units	N/A	MCERTS	7	7.3	7.6	7.3
Organic Matter	%	0.1	MCERTS	2.9	-	-	1.5
Speciated PAHs							
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH							
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	40	42	87	35
Barium (aqua regia extractable)	mg/kg	1	MCERTS	49	46	79	51
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.5	3.3	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	0.9	0.5	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	53	48	150	49
Copper (aqua regia extractable)	mg/kg	1	MCERTS	10	12	7.5	8.4
Lead (aqua regia extractable)	mg/kg	1	MCERTS	25	23	24	19
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	18	29	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	110	110	330	110
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	67	69	79	67
Petroleum Hydrocarbons							
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1
TPH (C10 - C25)	mg/kg	10	MCERTS	40	-	< 10	< 10

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Lab Sample Number				1620601	1620602	1620603	1620604
Sample Reference				TP01 ES1	TP03 ES7	TP04 ES10	TP06 ES15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.30	0.60	0.30
Date Sampled				08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
TPH (C25 - C40)	mg/kg	10	MCERTS	< 10	-	< 10	< 10
SVOCs							
Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-

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Lab Sample Number				1620601	1620602	1620603	1620604
Sample Reference				TP01 ES1	TP03 ES7	TP04 ES10	TP06 ES15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.30	0.60	0.30
Date Sampled				08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	ND	-	ND	-
SVOC % Match	%	N/A	NONE	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 20-30123
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Lab Sample Number				1620605	1620606
Sample Reference				TP10 ES1	TP15 ES1
Sample Number				None Supplied	None Supplied
Depth (m)				0.20	0.60
Date Sampled				11/09/2020	11/09/2020
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	17	18
Total mass of sample received	kg	0.001	NONE	0.5	0.5
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected
General Inorganics					
pH - Automated	pH Units	N/A	MCERTS	-	7.4
Organic Matter	%	0.1	MCERTS	-	1.6
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	89
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	52
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	2.2
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	87
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	190
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	59
Petroleum Hydrocarbons					
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C10 - C25)	mg/kg	10	MCERTS	< 10	< 10

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Lab Sample Number				1620605	1620606
Sample Reference				TP10 ES1	TP15 ES1
Sample Number				None Supplied	None Supplied
Depth (m)				0.20	0.60
Date Sampled				11/09/2020	11/09/2020
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
TPH (C25 - C40)	mg/kg	10	MCERTS	< 10	< 10
SVOCs					
Aniline	mg/kg	0.1	NONE	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05

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Lab Sample Number				1620605	1620606
Sample Reference				TP10 ES1	TP15 ES1
Sample Number				None Supplied	None Supplied
Depth (m)				0.20	0.60
Date Sampled				11/09/2020	11/09/2020
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	ND
SVOC % Match	%	N/A	NONE	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 20-30123
Project / Site name: Hook Norton Road, Sibford Ferris

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1620601	TP01 ES1	None Supplied	0.1	Brown sandy clay with vegetation.
1620602	TP03 ES7	None Supplied	0.3	Brown sandy clay.
1620603	TP04 ES10	None Supplied	0.6	Brown sandy clay.
1620604	TP06 ES15	None Supplied	0.3	Brown sandy clay with vegetation.
1620605	TP10 ES1	None Supplied	0.2	Brown sandy clay with vegetation.
1620606	TP15 ES1	None Supplied	0.6	Brown clay.

Analytical Report Number : 20-30123
Project / Site name: Hook Norton Road, Sibford Ferris

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
TPH Oils (Soils)	Determination of extractable hydrocarbons in soil by GC-MS/FID.	In-house method with silica gel split/clean up.	L076-PL	D	MCERTS
DRO (Soil)	Determination of extractable hydrocarbons in soil by GC-MS/FID.	In-house method with silica gel split/clean up.	L076-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX H: SOAKAWAY CALCULATIONS

jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

john newton & partners
jnpgroup
Consulting Engineers

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: SA01 Test No: 1 Date: 12 Jul 2018

Water level during test

Time mins	Depth m bgl
0	1.700
1.5	1.850
2	2.100

Trial pit dimensions

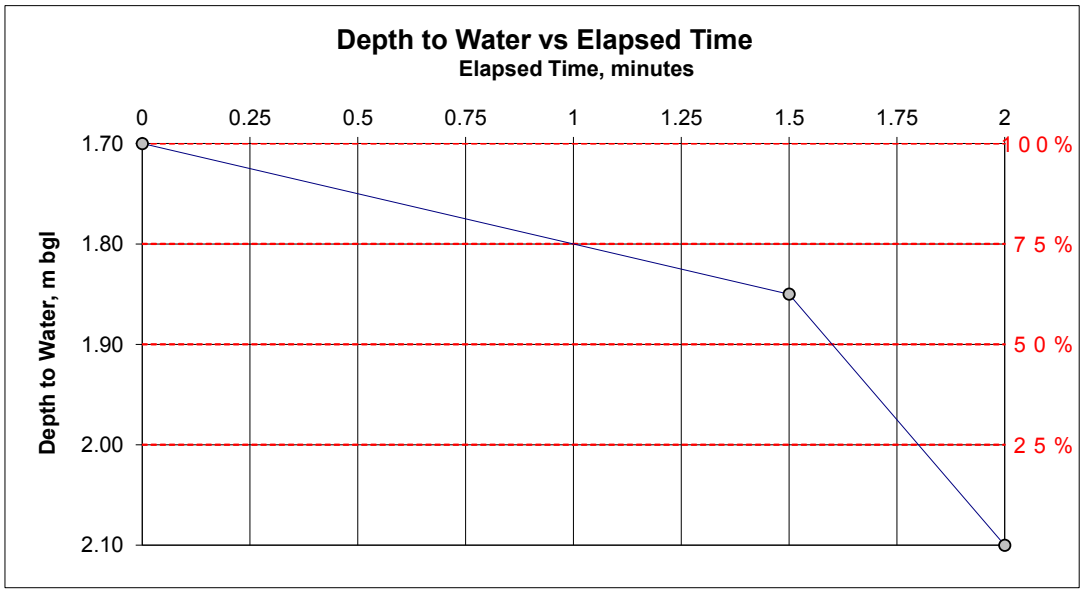
depth (m)	2.10
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 1
time at 25% effective depth (mins) 1.8
(from graph)

Calculated Soil Infiltration Rate = 2.2E-03 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

john newton & partners
jnpgroup
Consulting Engineers

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: SA01 Test No: 2 Date: 12 Jul 2018

Water level during test

Time mins	Depth m bgl
0	1.600
1.5	1.850
2	2.100

Trial pit dimensions

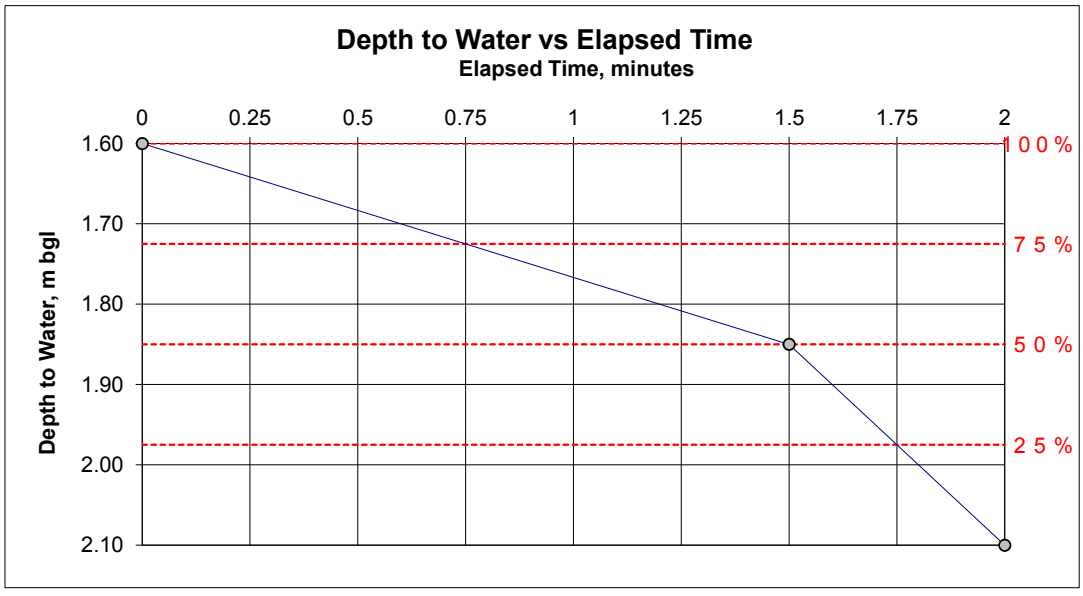
depth (m)	2.10
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	0.75
time at 25% effective depth (mins)	1.75
(from graph)	

Calculated Soil Infiltration Rate = 2.0E-03 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

john newton & partners
jnpgroup
Consulting Engineers

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: SA01 Test No: 3 Date: 12 Jul 2018

Water level during test

Time mins	Depth m bgl
0	1.600
1.5	1.850
3	2.100

Trial pit dimensions

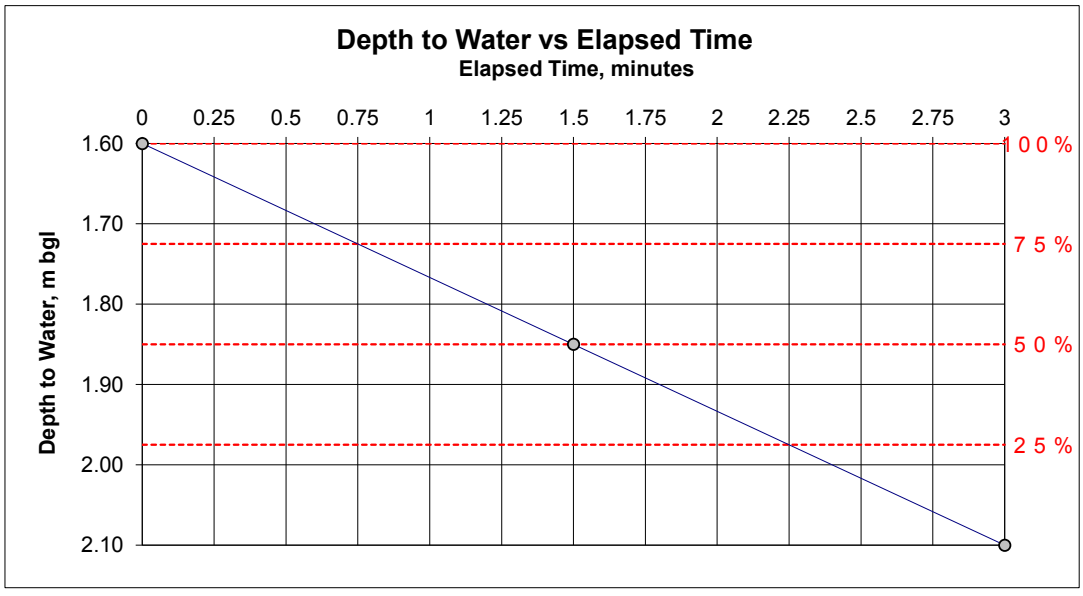
depth (m)	2.10
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 0.75
time at 25% effective depth (mins) 2.25
(from graph)

Calculated Soil Infiltration Rate = 1.3E-03 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

john newton & partners
jnpgroup
Consulting Engineers

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: SA02A Test No: 1 Date: 12 Jul 2018

Water level during test

Time mins	Depth m bgl
0	0.400
5	0.420
14	0.440
59	0.530
89	0.560
109	0.560
144	0.580
164	0.585

Trial pit dimensions

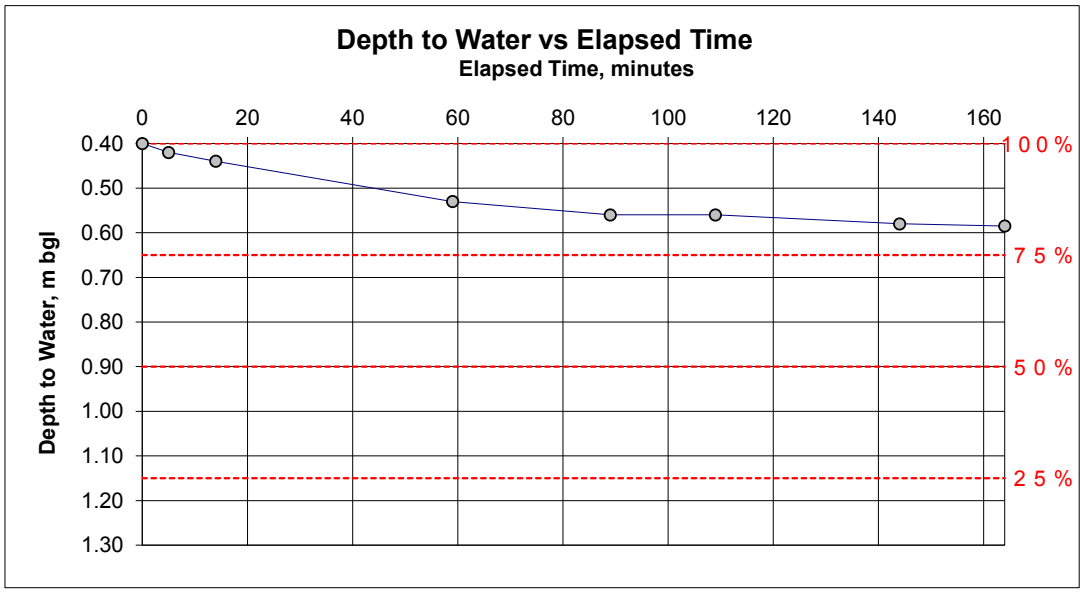
depth (m)	1.40
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) N/A
time at 25% effective depth (mins) N/A

Test incomplete - Infiltration rate could not be determined
Calculated Soil Infiltration Rate = N/A



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

john newton & partners
jnpgroup
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SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: SA03A Test No: 1 Date: 12 Jul 2018

Water level during test

Time mins	Depth m bgl
0	0.100
5	0.120
27	0.270
57	0.350
87	0.430
142	0.480
162	0.490
192	0.520

Trial pit dimensions

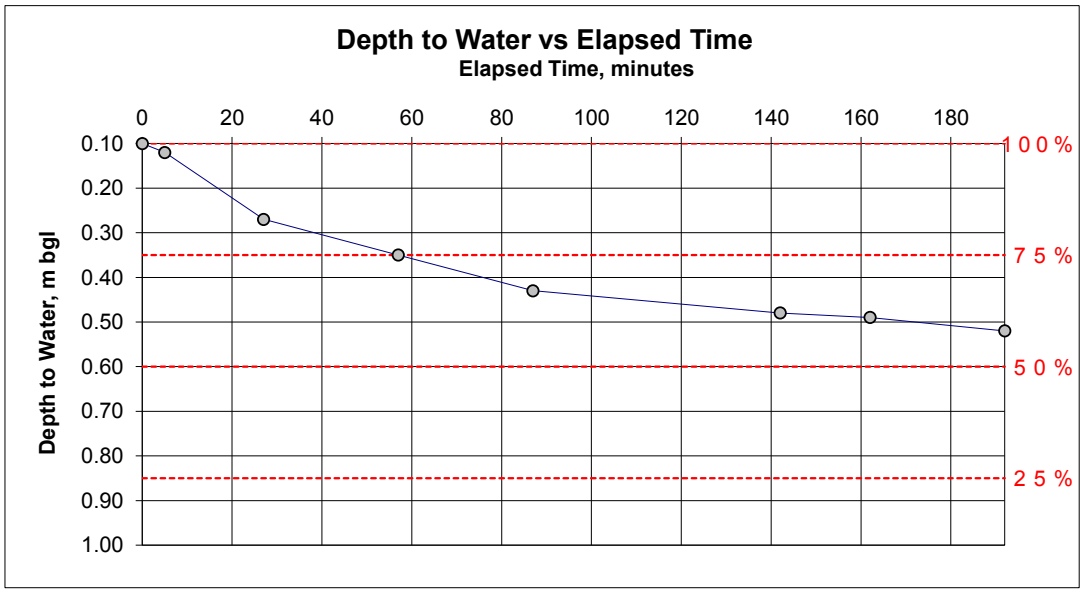
depth (m)	1.10
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) N/A
time at 25% effective depth (mins) N/A

Test incomplete - Infiltration rate could not be determined
Calculated Soil Infiltration Rate = N/A



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

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SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP03 Test No: 1 Date: 08 Sep 2020

Water level during test

Time mins	Depth m bgl
0	0.400
1	0.500
2	0.900
3	1.080
4	1.400

Trial pit dimensions

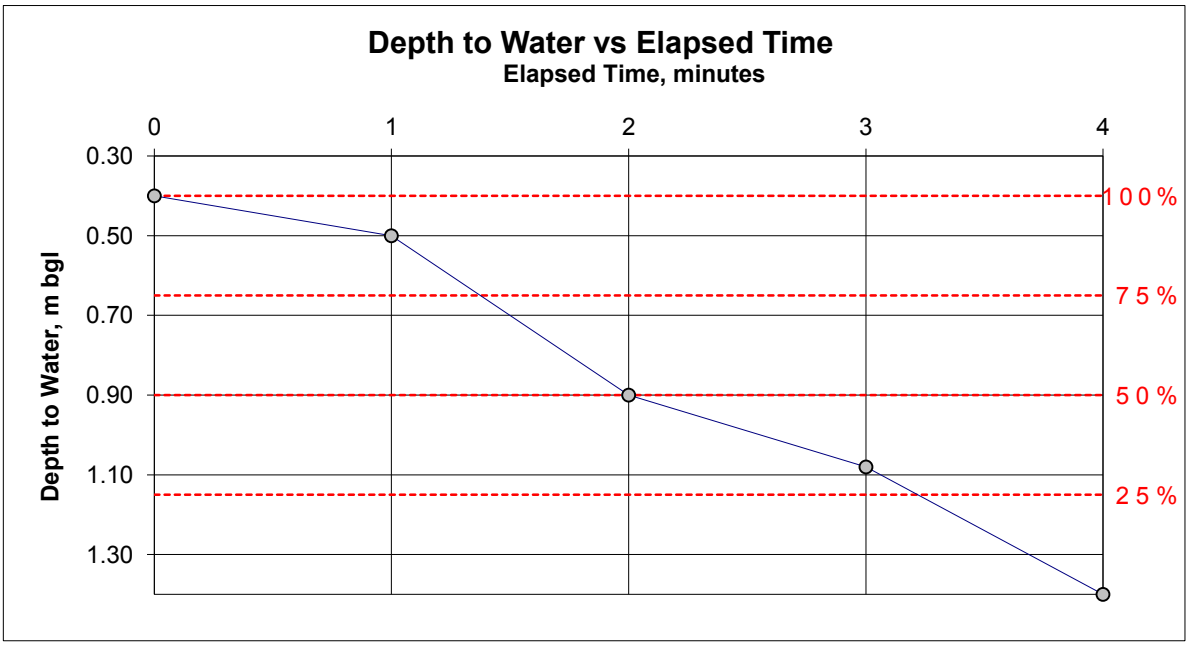
depth (m)	1.40
length (m)	1.80
width (m)	0.70

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	1.4
time at 25% effective depth (mins)	3.2
(from graph)	

Calculated Soil Infiltration Rate = 1.6E-03 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

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Project:
Hook Norton Road, Sibford Ferris

Project No: **C85855**

Test Location: TP03 Test No: 2 Date: 08 Sep 2020

Water level during test

Time mins	Depth m bgl
0	0.400
1	0.600
2	0.800
3	1.100
4	1.300
5	1.400

Trial pit dimensions

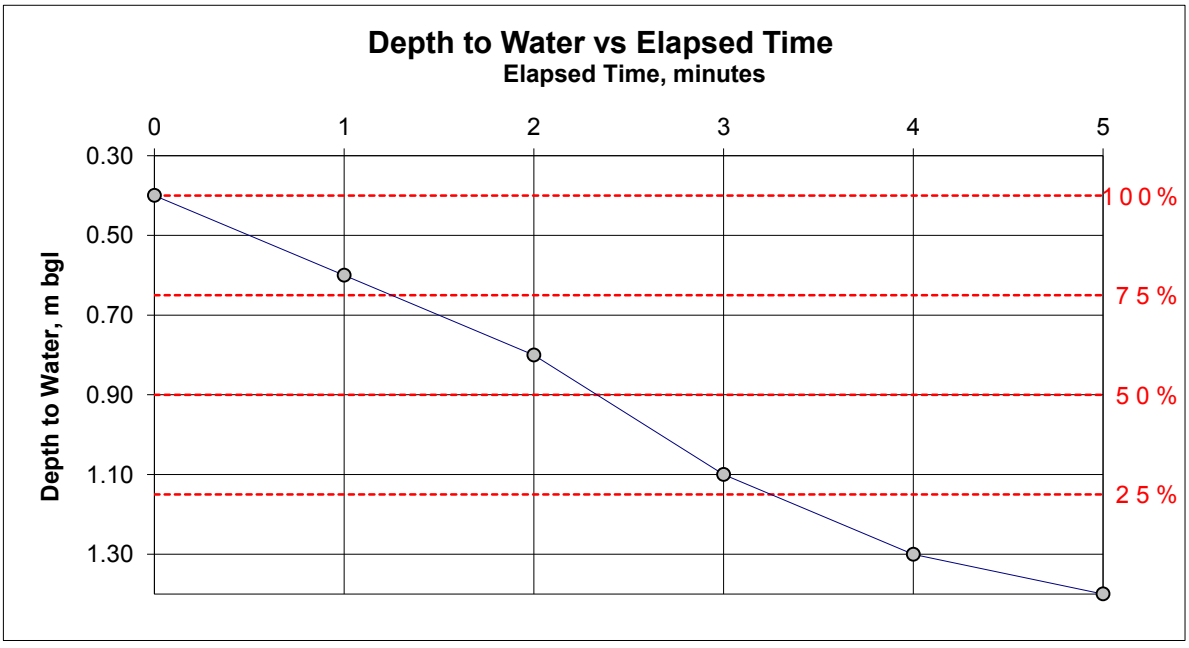
depth (m)	1.40
length (m)	1.80
width (m)	0.70

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	1.3
time at 25% effective depth (mins)	3.3
(from graph)	

Calculated Soil Infiltration Rate = **1.4E-03 m/sec**



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: **C85855**

Test Location: TP03 Test No: 3 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	0.400
1	0.600
2	0.800
3	0.900
4	1.300
5	1.400

Trial pit dimensions

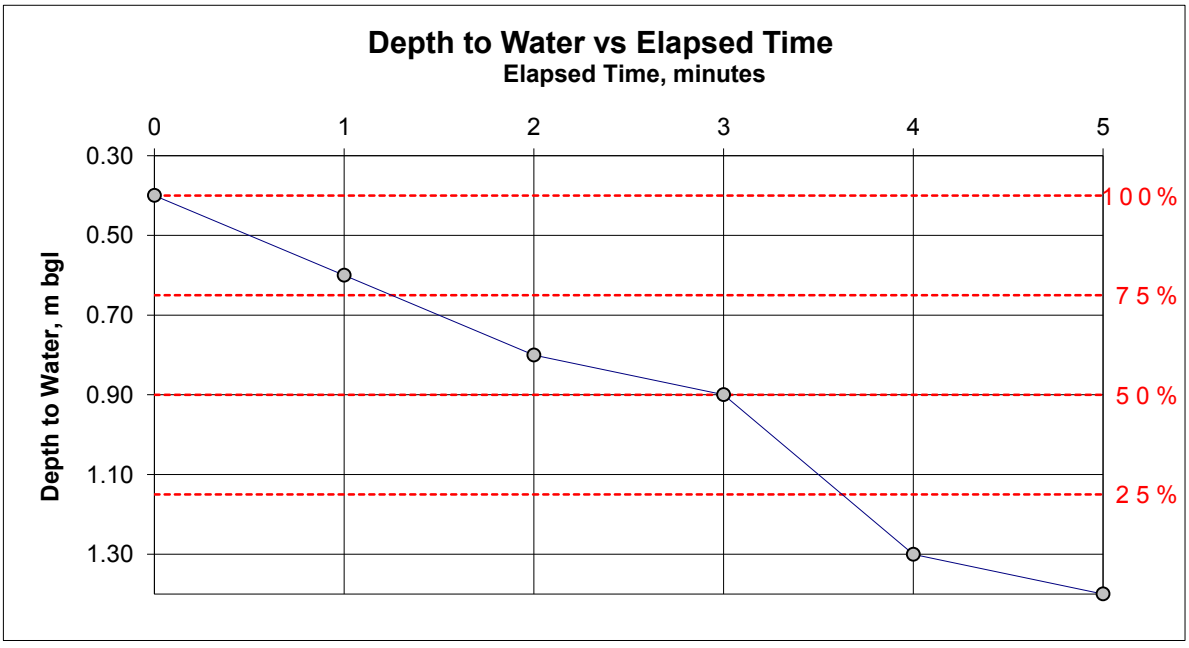
depth (m)	1.40
length (m)	1.80
width (m)	0.70

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	1.2
time at 25% effective depth (mins)	3.6
(from graph)	

Calculated Soil Infiltration Rate = **1.2E-03 m/sec**



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP06 Test No: 1 Date: 08 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.400
2	2.240
4	2.300

Trial pit dimensions

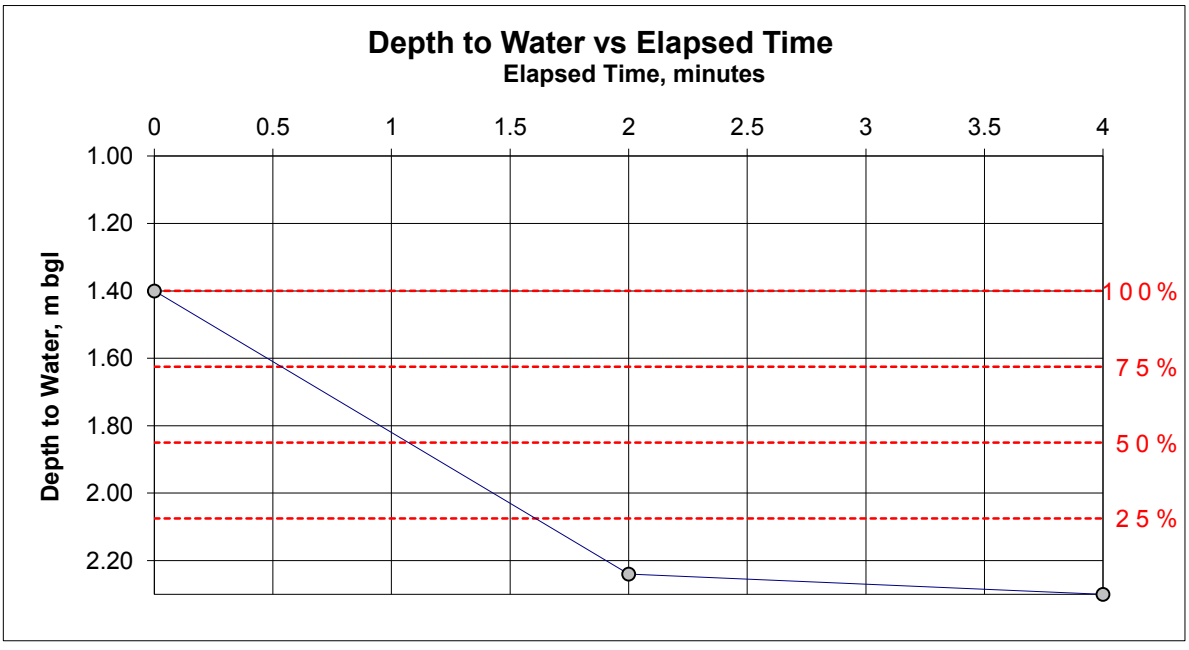
depth (m)	2.30
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 0.5
time at 25% effective depth (mins) 1.6
(from graph)

Calculated Soil Infiltration Rate = 2.3E-03 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: **C85855**

Test Location: TP06 Test No: 2 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.400
1	2.250
2	2.300

Trial pit dimensions

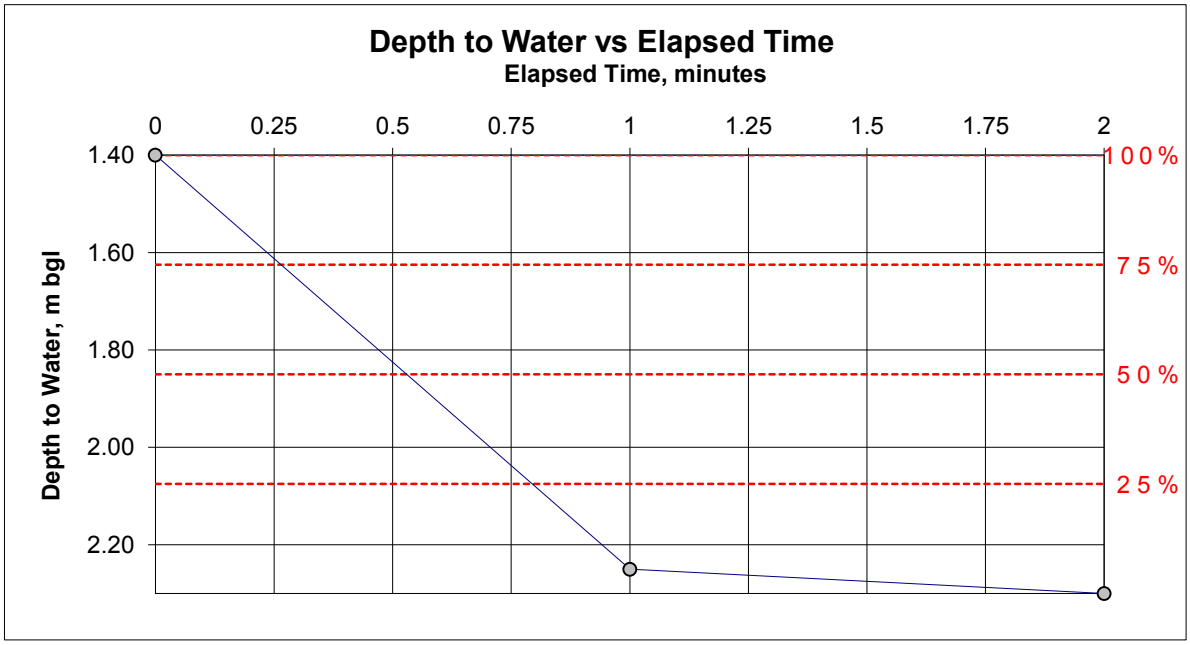
depth (m)	2.30
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	0.2
time at 25% effective depth (mins)	0.5
(from graph)	

Calculated Soil Infiltration Rate = **8.5E-03 m/sec**



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
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SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP06 Test No: 3 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.400
1	2.200
2	2.300

Trial pit dimensions

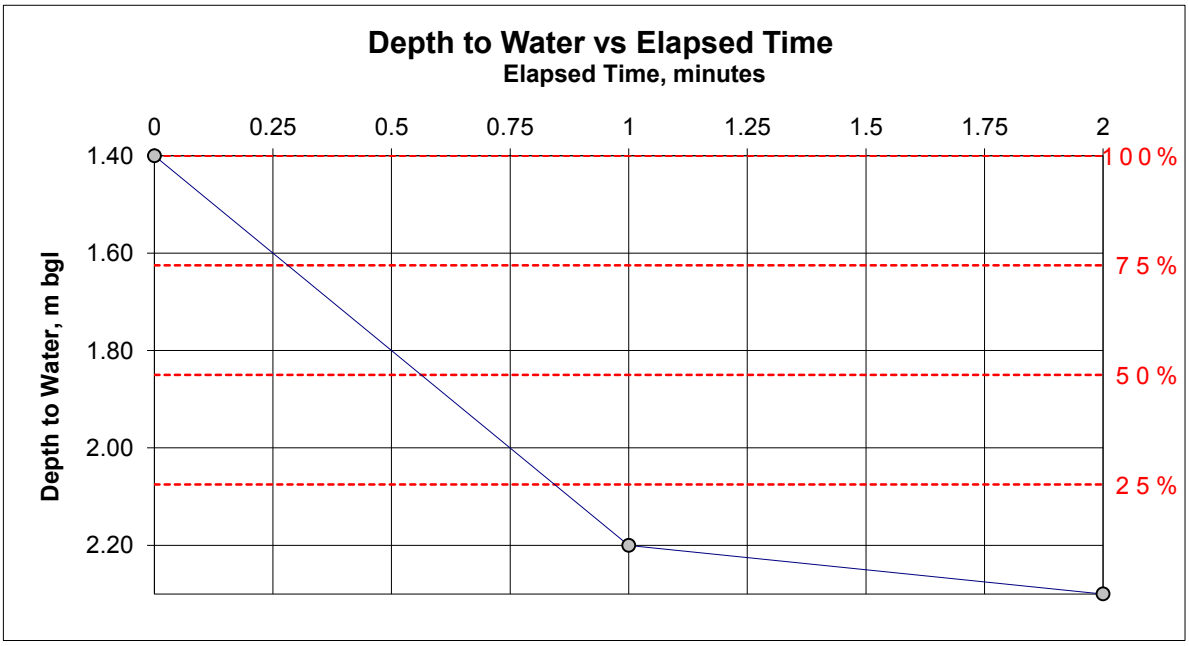
depth (m)	2.30
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 0.3
time at 25% effective depth (mins) 0.85
(from graph)

Calculated Soil Infiltration Rate = 4.6E-03 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP07 Test No: 1 Date: 08 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.600
1	1.630
2	1.660
3	1.730
4	1.780
5	1.840
6	1.870
7	1.970
12	2.100
17	2.150
22	2.230
32	2.330
42	2.420
52	2.510

Trial pit dimensions

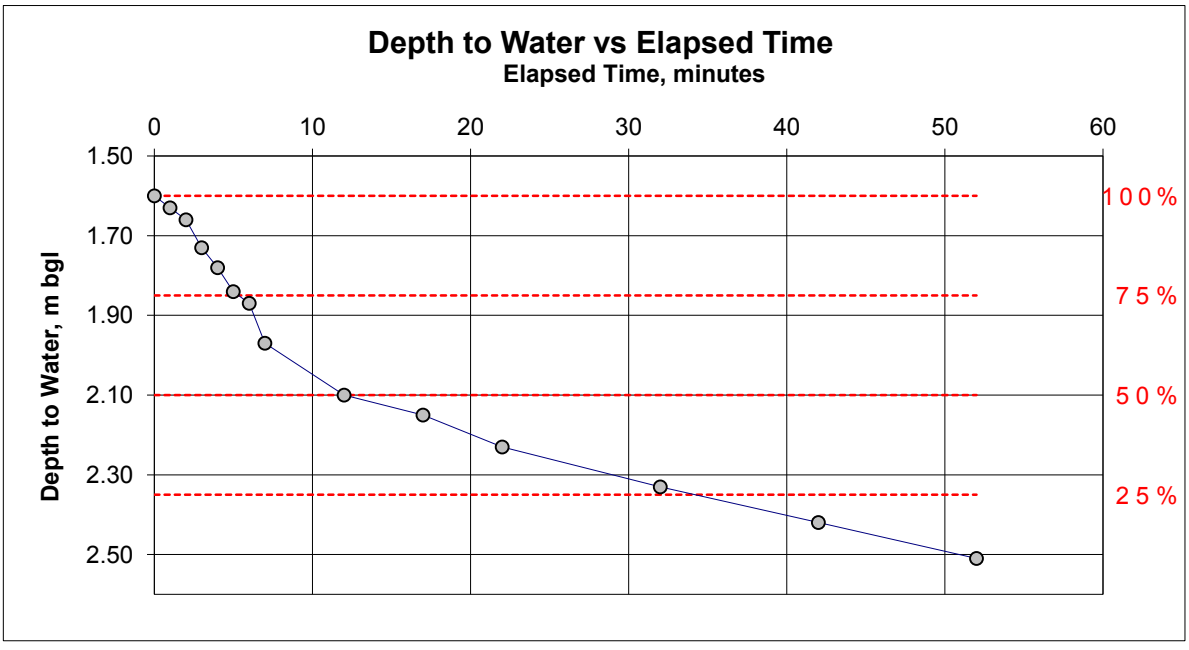
depth (m)	2.60
length (m)	1.90
width (m)	0.70

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 5
time at 25% effective depth (mins) 35
(from graph)

Calculated Soil Infiltration Rate = 9.4E-05 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

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SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP07 Test No: 2 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.600
1	1.650
2	1.740
3	1.800
4	1.820
5	1.860
6	1.900
7	1.930
8	1.950
9	1.980
10	1.990
11	2.000
19	2.110
39	2.270
44	2.300
53	2.420

Trial pit dimensions

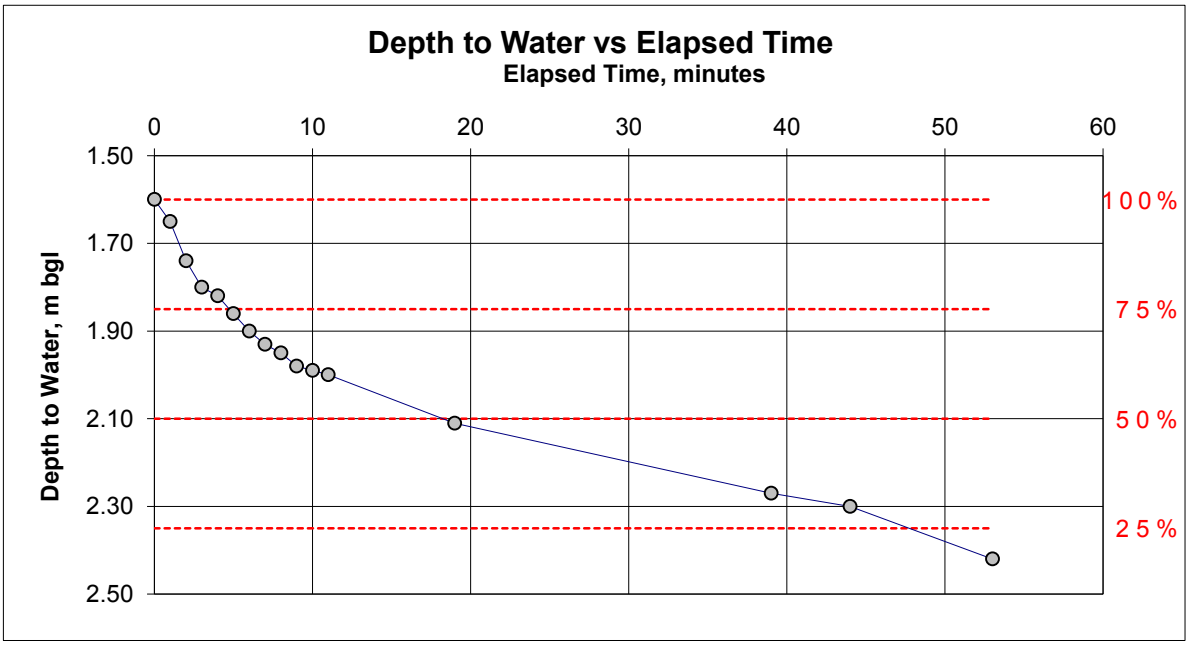
depth (m)	2.60
length (m)	1.90
width (m)	0.70

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 5
time at 25% effective depth (mins) 47
(from graph)

Calculated Soil Infiltration Rate = 6.7E-05 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

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SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: **C85855**

Test Location: TP07 Test No: 3 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.620
1	1.670
11	1.840
16	2.000
21	2.050
26	2.100
31	2.150
36	2.200
41	2.250
46	2.290
56	2.400

Trial pit dimensions

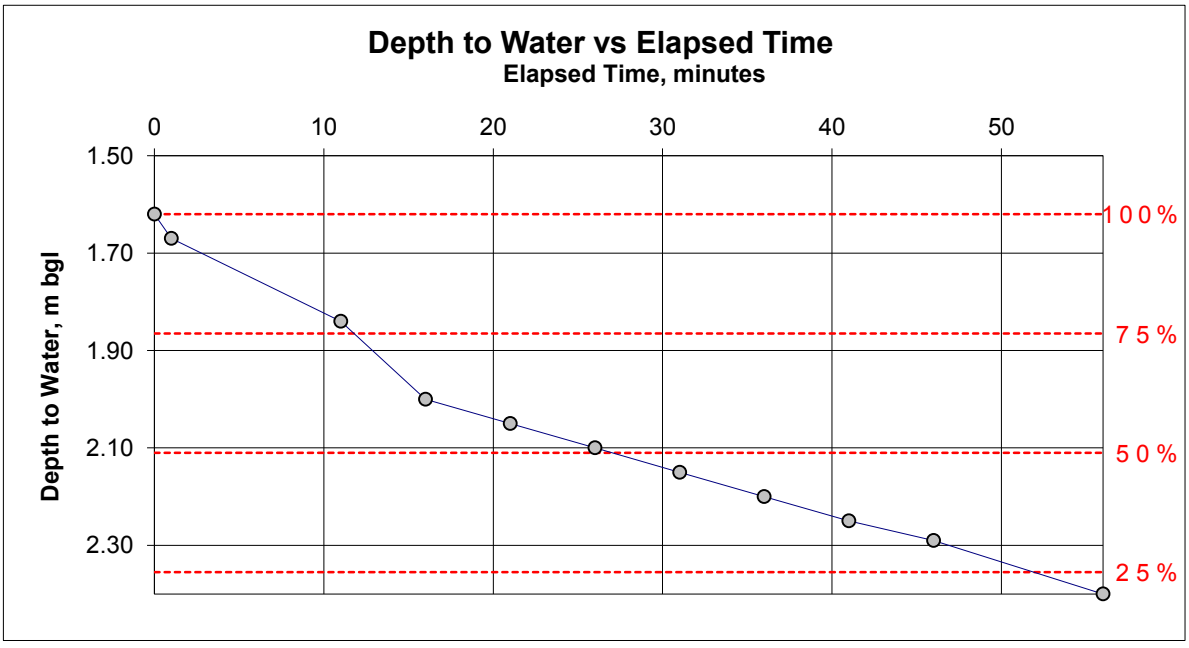
depth (m)	2.60
length (m)	1.90
width (m)	0.70

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	11
time at 25% effective depth (mins)	52
(from graph)	

Calculated Soil Infiltration Rate = **6.8E-05 m/sec**



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

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SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP08 Test No: 1 Date: 08 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.000
1	1.050
2	1.100
3	1.200
4	1.240
5	1.290
6	1.300
16	1.370
21	1.490
26	1.570
31	1.650
36	1.790
41	1.830

Trial pit dimensions

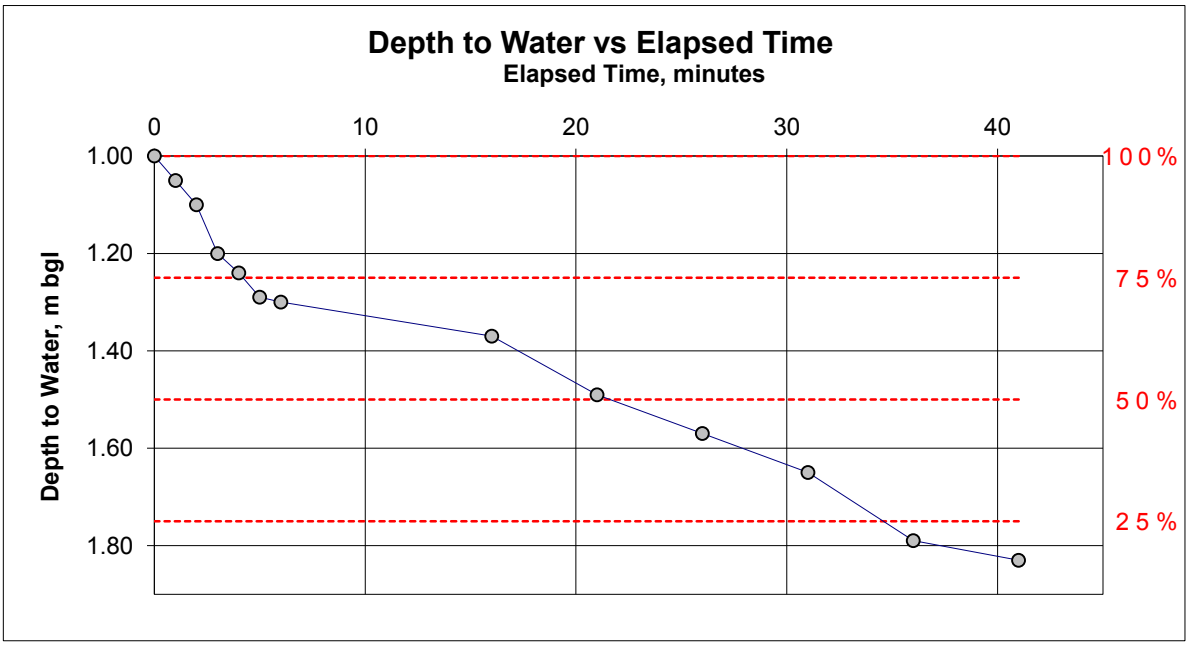
depth (m)	2.00
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 4.3
time at 25% effective depth (mins) 35
(from graph)

Calculated Soil Infiltration Rate = 8.6E-05 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: C85855

Test Location: TP08 Test No: 2 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	0.900
1	0.970
2	1.000
3	1.020
4	1.050
5	1.090
6	1.100
7	1.140
8	1.150
9	1.170
14	1.220
19	1.340
24	1.400
29	1.500
34	1.550
44	1.660
54	1.870

Trial pit dimensions

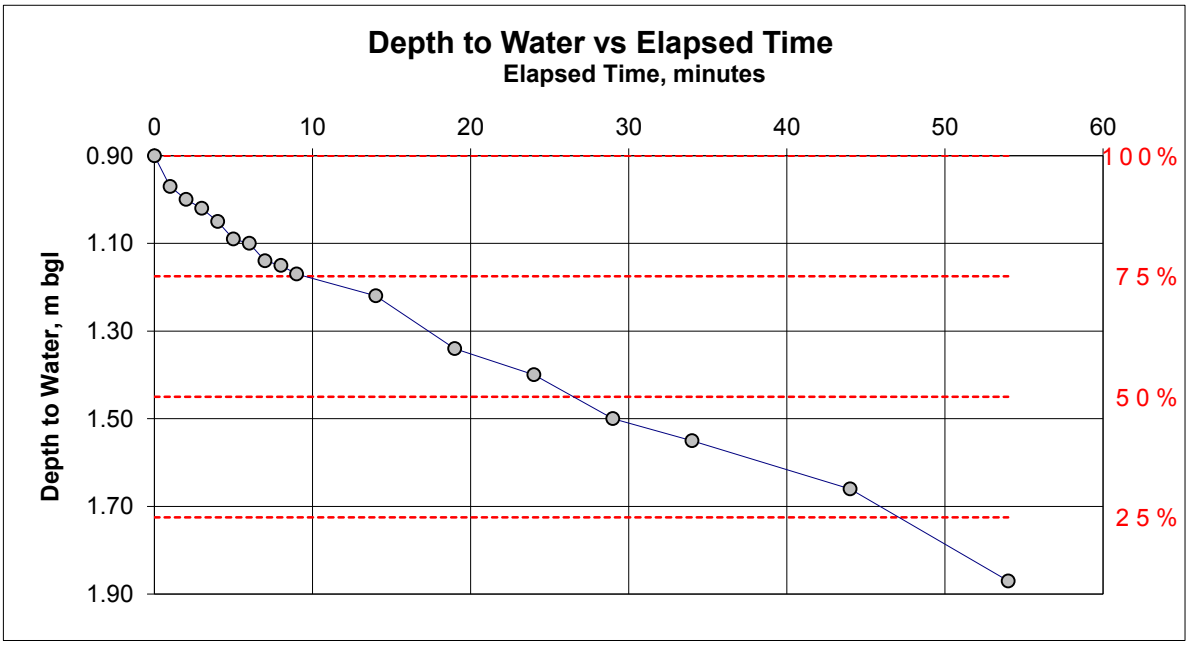
depth (m)	2.00
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 9.3
time at 25% effective depth (mins) 47
(from graph)

Calculated Soil Infiltration Rate = 7.2E-05 m/sec



jnpgroup
Marlborough House
Leamington Spa
Warwickshire
CV32 4XP
Tel 01926 889955
Fax 01926 451745
geoenvironmental@jnpgroup.co.uk

JNP GROUP
CONSULTING ENGINEERS

SOIL INFILTRATION TEST

Project:
Hook Norton Road, Sibford Ferris

Project No: **C85855**

Test Location: TP08 Test No: 3 Date: 09 Sep 2020

Water level during test

Time mins	Depth m bgl
0	1.100
10	1.300
20	1.400
30	1.470
40	1.580
56	1.700
66	1.880
78	2.000

Trial pit dimensions

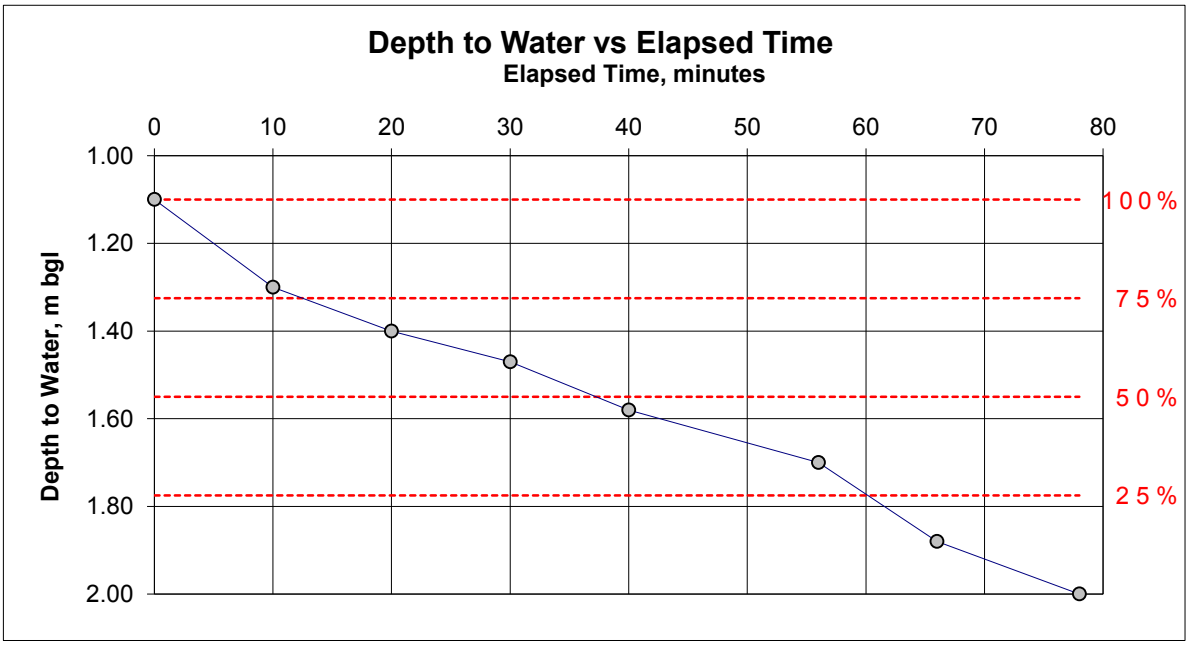
depth (m)	2.00
length (m)	2.00
width (m)	0.60

$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

f = soil infiltration rate
V_{p75-25} = volume of water from 75% to 25% effective depth
a_{s50} = internal surface area at 50% effective depth
t_{p75-25} = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)	12
time at 25% effective depth (mins) (from graph)	60

Calculated Soil Infiltration Rate = **5.3E-05 m/sec**



APPENDIX I: DCP CALCULATIONS

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP01
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no 1
Initial Depth 0 m

Chainage
Weather Dry

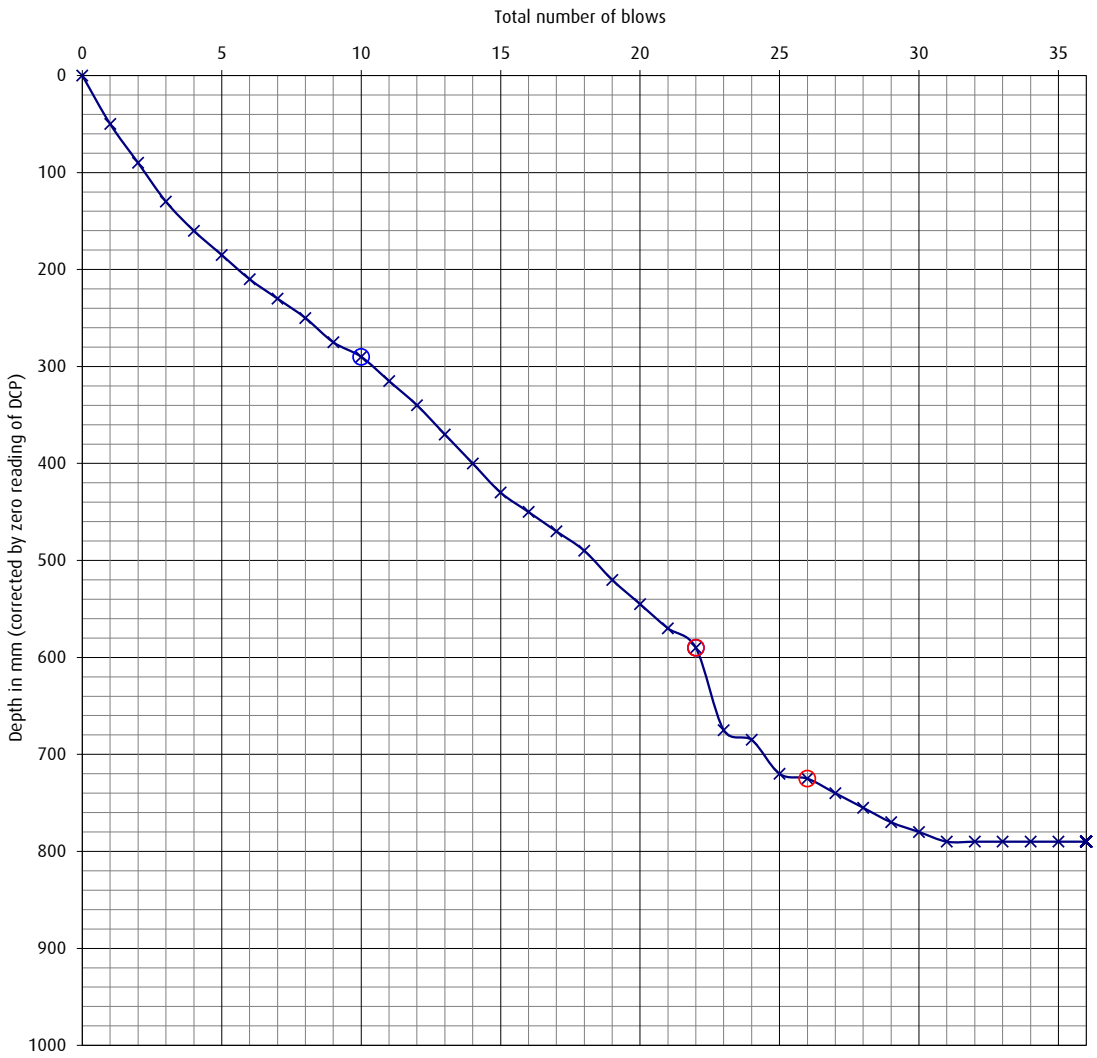
Number of blows	Total blows	Reading mm	Difference mm	Number of blows	Total blows	Reading mm	Difference mm
0	0	40	0				
1	1	90	50				
1	2	130	40				
1	3	170	40				
1	4	200	30				
1	5	225	25				
1	6	250	25				
1	7	270	20				
1	8	290	20				
1	9	315	25				
1	10	330	15				
1	11	355	25				
1	12	380	25				
1	13	410	30				
1	14	440	30				
1	15	470	30				
1	16	490	20				
1	17	510	20				
1	18	530	20				
1	19	560	30				
1	20	585	25				
1	21	610	25				
1	22	630	20				
1	23	715	85				
1	24	725	10				
1	25	760	35				
1	26	765	5				
1	27	780	15				
1	28	795	15				
1	29	810	15				
1	30	820	10				
1	31	830	10				
1	32	830	0				
1	33	830	0				
1	34	830	0				
1	35	830	0				
1	36	830	0				

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID DCP01
Project No.	C85855		
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0 m	Weather	Dry



Layer 1 CBR value 10, Layer 2 CBR value 7.3

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP02
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no 1
Initial Depth 0.07 m

Chainage
Weather Dry

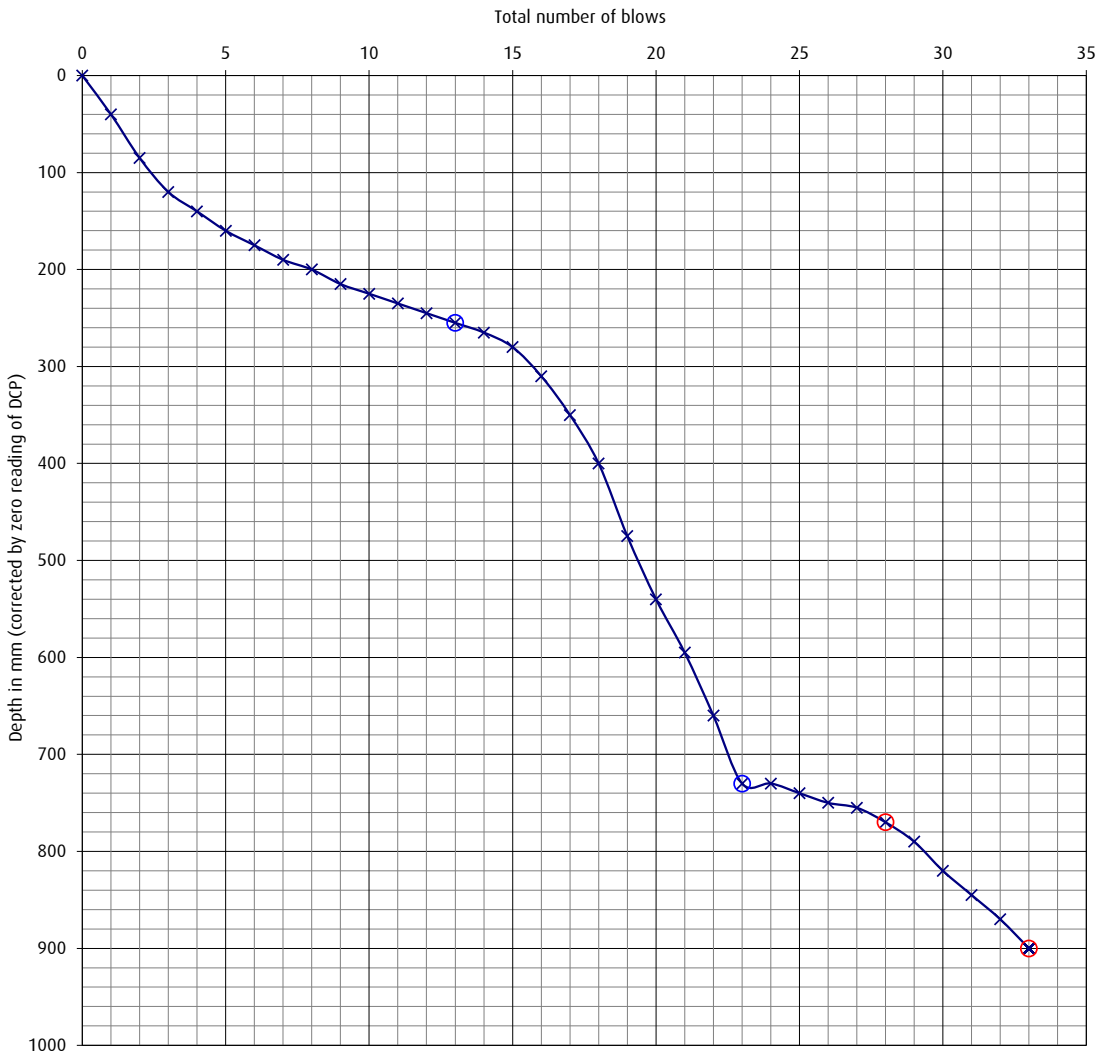
Number of blows	Total blows	Reading mm	Difference mm		Number of blows	Total blows	Reading mm	Difference mm
0	0	80	0					
1	1	120	40					
1	2	165	45					
1	3	200	35					
1	4	220	20					
1	5	240	20					
1	6	255	15					
1	7	270	15					
1	8	280	10					
1	9	295	15					
1	10	305	10					
1	11	315	10					
1	12	325	10					
1	13	335	10					
1	14	345	10					
1	15	360	15					
1	16	390	30					
1	17	430	40					
1	18	480	50					
1	19	555	75					
1	20	620	65					
1	21	675	55					
1	22	740	65					
1	23	810	70					
1	24	810	0					
1	25	820	10					
1	26	830	10					
1	27	835	5					
1	28	850	15					
1	29	870	20					
1	30	900	30					
1	31	925	25					
1	32	950	25					
1	33	980	30					

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP02
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.07 m	Weather	Dry



Layer 1 CBR value 5.1, Layer 2 CBR value 9.6

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP03
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.06 m	Weather	Dry

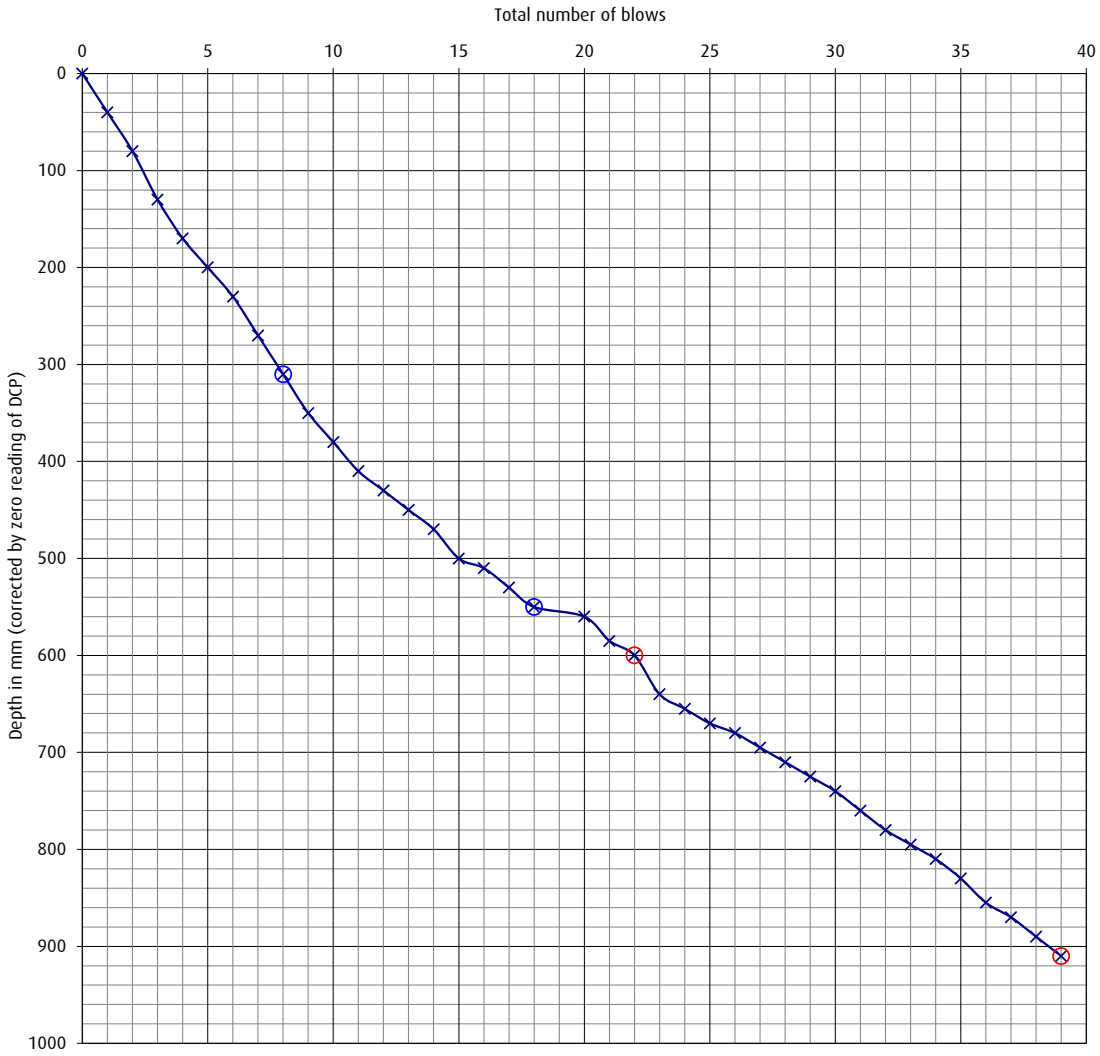
Number of blows	Total blows	Reading mm	Difference mm	Number of blows	Total blows	Reading mm	Difference mm
0	0	60	0				
1	1	100	40				
1	2	140	40				
1	3	190	50				
1	4	230	40				
1	5	260	30				
1	6	290	30				
1	7	330	40				
1	8	370	40				
1	9	410	40				
1	10	440	30				
1	11	470	30				
1	12	490	20				
1	13	510	20				
1	14	530	20				
1	15	560	30				
1	16	570	10				
1	17	590	20				
1	18	610	20				
2	20	620	10				
1	21	645	25				
1	22	660	15				
1	23	700	40				
1	24	715	15				
1	25	730	15				
1	26	740	10				
1	27	755	15				
1	28	770	15				
1	29	785	15				
1	30	800	15				
1	31	820	20				
1	32	840	20				
1	33	855	15				
1	34	870	15				
1	35	890	20				
1	36	915	25				
1	37	930	15				
1	38	950	20				
1	39	970	20				
1	40	990	20				
1	41	1000	10				

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP03
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.06 m	Weather	Dry



Layer 1 CBR value 10, Layer 2 CBR value 14

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP04
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.05 m	Weather	Dry

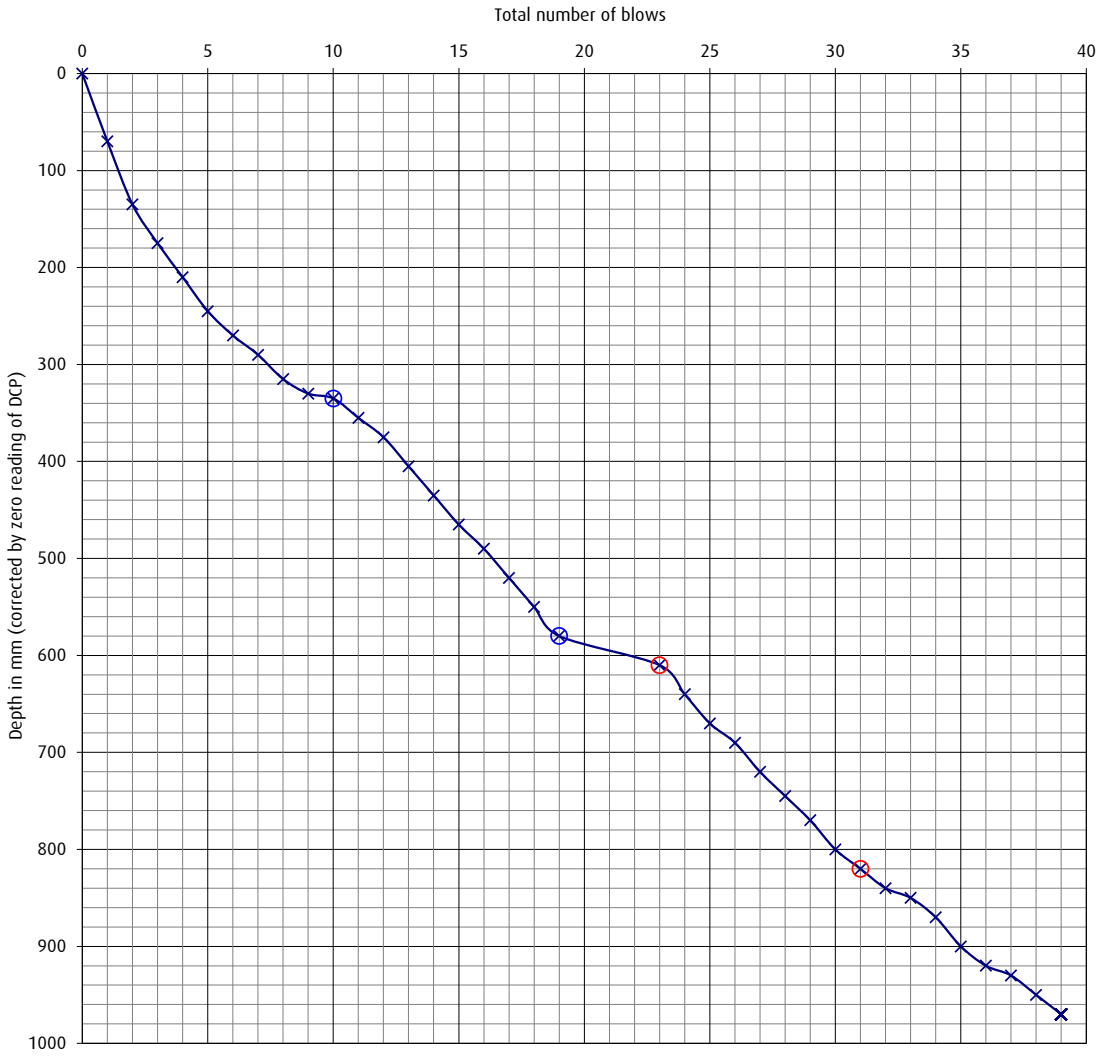
Number of blows	Total blows	Reading mm	Difference mm	Number of blows	Total blows	Reading mm	Difference mm
0	0	30	0				
1	1	100	70				
1	2	165	65				
1	3	205	40				
1	4	240	35				
1	5	275	35				
1	6	300	25				
1	7	320	20				
1	8	345	25				
1	9	360	15				
1	10	365	5				
1	11	385	20				
1	12	405	20				
1	13	435	30				
1	14	465	30				
1	15	495	30				
1	16	520	25				
1	17	550	30				
1	18	580	30				
1	19	610	30				
4	23	640	30				
1	24	670	30				
1	25	700	30				
1	26	720	20				
1	27	750	30				
1	28	775	25				
1	29	800	25				
1	30	830	30				
1	31	850	20				
1	32	870	20				
1	33	880	10				
1	34	900	20				
1	35	930	30				
1	36	950	20				
1	37	960	10				
1	38	980	20				
1	39	1000	20				

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP04
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.05 m	Weather	Dry



Layer 1 CBR value 9.2, Layer 2 CBR value 9.5

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP05
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.06 m	Weather	Dry

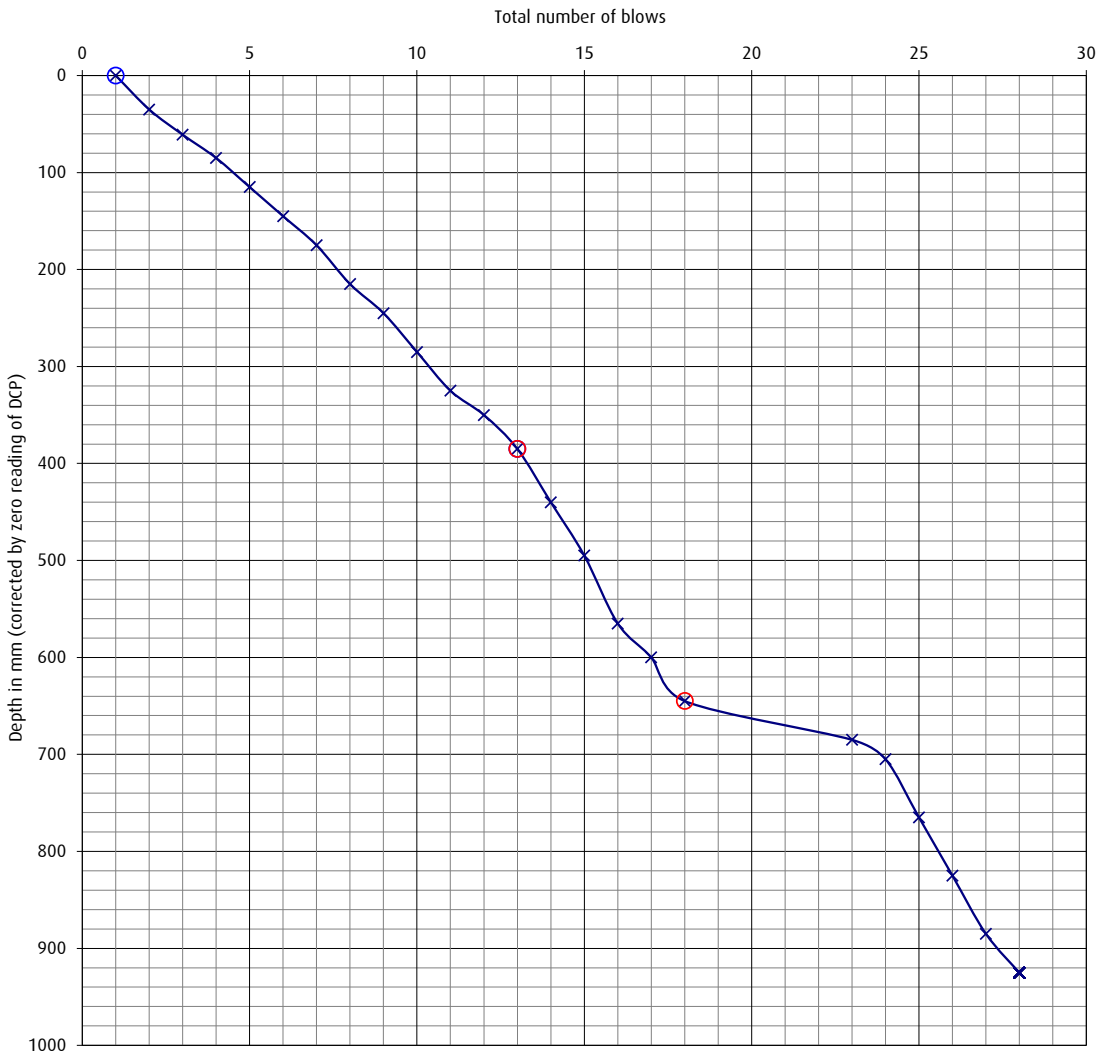
Number of blows	Total blows	Reading mm	Difference mm	Number of blows	Total blows	Reading mm	Difference mm
1	1	75	0				
1	2	110	35				
1	3	136	26				
1	4	160	24				
1	5	190	30				
1	6	220	30				
1	7	250	30				
1	8	290	40				
1	9	320	30				
1	10	360	40				
1	11	400	40				
1	12	425	25				
1	13	460	35				
1	14	515	55				
1	15	570	55				
1	16	640	70				
1	17	675	35				
1	18	720	45				
5	23	760	40				
1	24	780	20				
1	25	840	60				
1	26	900	60				
1	27	960	60				
1	28	1000	40				

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP05
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.06 m	Weather	Dry



Layer 1 CBR value 7.7, Layer 2 CBR value 4.6

Remarks

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID
Project No.	C85855		DCP06
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no 1
Initial Depth 0.05 m

Chainage
Weather Dry

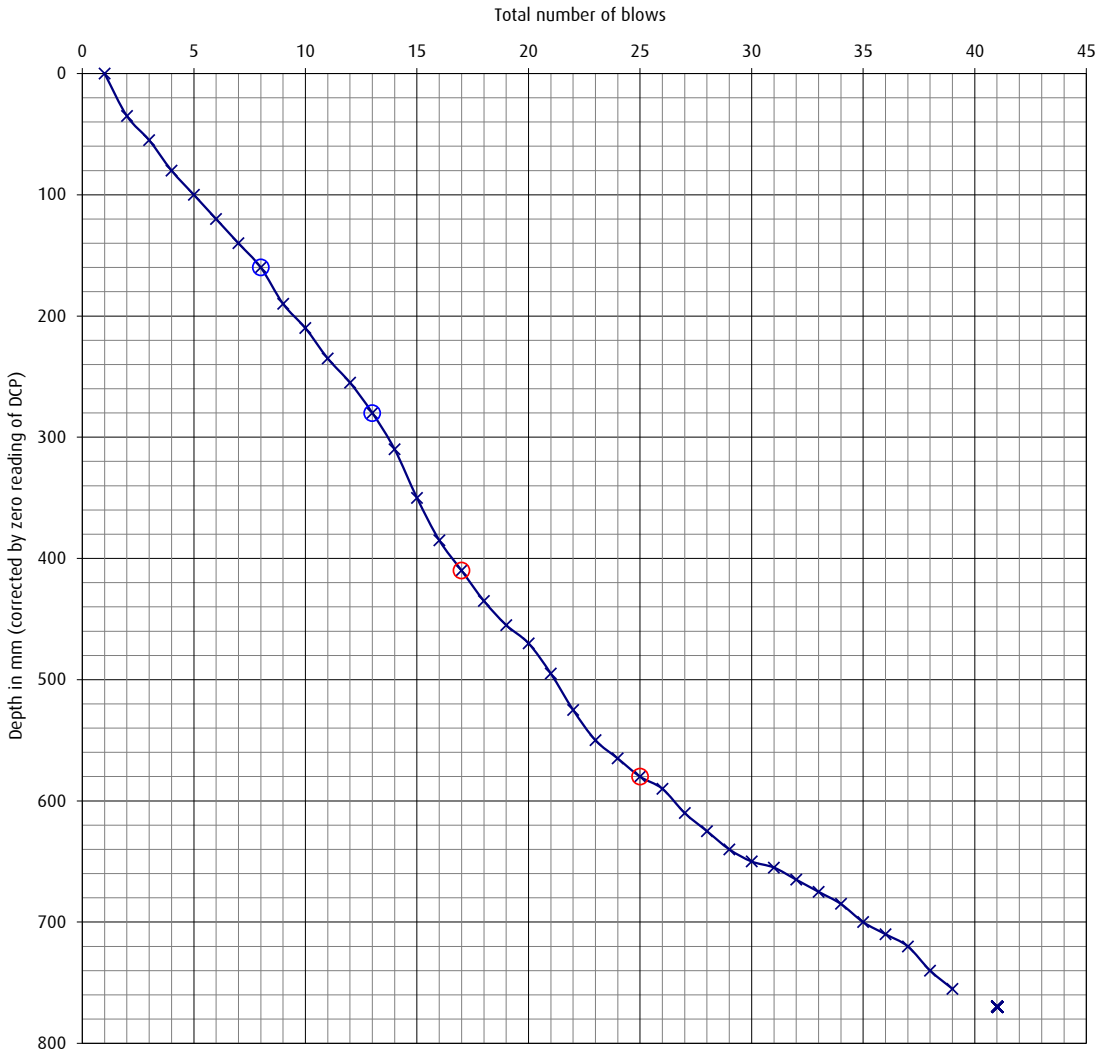
Number of blows	Total blows	Reading mm	Difference mm	Number of blows	Total blows	Reading mm	Difference mm
1	1	50	0				
1	2	85	35				
1	3	105	20				
1	4	130	25				
1	5	150	20				
1	6	170	20				
1	7	190	20				
1	8	210	20				
1	9	240	30				
1	10	260	20				
1	11	285	25				
1	12	305	20				
1	13	330	25				
1	14	360	30				
1	15	400	40				
1	16	435	35				
1	17	460	25				
1	18	485	25				
1	19	505	20				
1	20	520	15				
1	21	545	25				
1	22	575	30				
1	23	600	25				
1	24	615	15				
1	25	630	15				
1	26	640	10				
1	27	660	20				
1	28	675	15				
1	29	690	15				
1	30	700	10				
1	31	705	5				
1	32	715	10				
1	33	725	10				
1	34	735	10				
1	35	750	15				
1	36	760	10				
1	37	770	10				
1	38	790	20				
1	39	805	15				
1	40	820	15				
1	41	835	15				

Remarks Obstruction encountered - relocated to DCP7A

Recorded by:	SP
Date:	09.09.2020

Project Name	Hook Norton Road Sibford Ferris	**Record of Results for TRL DCP (Dynamic Cone Penetrometer)**	Hole ID DCP06
Project No.	C85855		
Engineer	SP		Table No.
Client	Land and Partners Ltd		

Test no	1	Chainage	
Initial Depth	0.05 m	Weather	Dry



Layer 1 CBR value 10, Layer 2 CBR value 12

Remarks Obstruction encountered - relocated to DCP7A

Recorded by:	SP
Date:	09.09.2020

Brighouse
Woodvale House
Woodvale Road
Brighouse
West Yorkshire
HD6 4AB

telephone
01484 400691

email
brighouse@jnpgroup.co.uk

Chesham (HQ)
Link House
St Mary's Way
Chesham
Buckinghamshire
HP5 1HR

telephone
01494 771221

email
chesham@jnpgroup.co.uk

Glasgow
Oxford House
71 Oxford Street
Glasgow
G59 EP

telephone
0141 378 0808

email
glasgow@jnpgroup.co.uk

Hartlepool
The Innovation Centre
Venture Court
Queens Meadow Business Park
Hartlepool
TS25 5TG

telephone
01429 239539

email
hartlepool@jnpgroup.co.uk

Leamington Spa
Marlborough House
48 Holly Walk
Leamington Spa
Warwickshire
CV32 4XP

telephone
01926 889955

email
leamingtonspa@jnpgroup.co.uk

Sheffield
MBP2 Meadowhall Business Park
Carbrook Hall Road
Sheffield
South Yorkshire
S9 2EQ

telephone
0114 244 3500

email
sheffield@jnpgroup.co.uk