Norfolk Partnership Laboratory
Part of the Norse Group

Prepared by:
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Site Investigation
Factual Report
Sheringham
Household Waste Recycling Centre
Holt Road, Sheringham
Norfolk
102894
June 2022

Client:
Community & Environmental Services
Norfolk County Council
County Hall
Martineau Lane
Norwich
NR1 2SG

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Rev	Date	Originator	Checker	Approver	Description
A	09/06/2022	J Robinson	M L Bumstead	I D Brown	

Appendices

ii) Distribution

Community and Environmental Services	1 copy
Norfolk Partnership Laboratory	1 copy

1.0 Executive Summary

<table>
<tr><td>Site Location</td><td colspan="3">• Land located north of the eastern end of the access road to Sheringham Household Waste Recycling Centre (HWRC) on the A148 Holt Road in Sheringham.
• National Grid Reference 616300,341025</td></tr>
<tr><td>Current Land Use</td><td colspan="3">• The site comprises arable land.</td></tr>
<tr><td>Historical Land Use</td><td colspan="3">• The site is shown as a field on the Tithe Map (1836-1850), as it is currently.</td></tr>
<tr><td>Proposed End Use</td><td colspan="3">• It is proposed to construct a new Household Waste Recycling Centre.</td></tr>
<tr><td rowspan="4">Anticipated Geology</td><td>Chrono-stratigraphic system</td><td>Litho-stratigaphic Unit</td><td>Thickness (m)</td></tr>
<tr><td>Pleistocene</td><td>Britons Lane Sand and Gravel</td><td>0-40m</td></tr>
<tr><td>Pleistocene</td><td>Bacton Green Till</td><td>10-15m</td></tr>
<tr><td>Pleistocene</td><td>Wroxham Crag Formation</td><td>20m</td></tr>
<tr><td>Geology Encountered</td><td colspan="3">• Topsoil – encountered in all Trial Pits and Borehole 09 to a maximum depth of 0.60m bgl, comprising brown, dark brown or dark greyish brown sandy, slightly gravelly Topsoil.
• Head – encountered in all TP03 to a maximum depth of 0.60m bgl, comprising of dark brown, slightly gravelly, sandy Silt.
• Brittons Lane Sand and Gravel - encountered in all Trial Pits and Borehole 09, comprising of brown, light brown, orangey brown, yellowish brown and orange gravelly, silty fine to coarse Sand, brown, orangey brown or light brown clayey sandy gravelly Silt and firm orangey brown sandy silty Clay. The maximum depth observed was 8.50m bgl in BH09
• Bacton Green Till - encountered Borehole 09, comprising of soft to firm and stiff light brown slightly sandy, slightly gravelly Clay. The maximum depth observed was 15.45m bgl.
• Crag No encountered during this investigation.</td></tr>
<tr><td>Groundwater</td><td colspan="3">Not encountered to 15.45 metres depth. Hydrogeological Map of East Anglia indicates that the water table is at approximately 45m AOD, therefore 44m BGL.</td></tr>
<tr><td>Contamination Issues</td><td colspan="3">None encountered</td></tr>
</table>

Table 1: **Executive Summary**

2.0 Introduction

2.1 Scope and objectives of report

The objective of this Factual Report is to provide geotechnical information for a proposed new residential development, in particular for drainage and pavement design.

The report undertakes an assessment of all geotechnical aspects of the scheme, including:

- The results of recent investigation.

This report is written to conform to the requirements of Eurocode 7: Geotechnical Design, Part 1: General Rules, BS EN 1997-1:2004.

Norfolk Partnership Laboratory provides a service within Norse Highways, a division of Norse Eastern Ltd.

The purpose of this investigation was to ascertain ground conditions so that options for the design of a drainage system can be considered and highways designed.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Although every effort has been made to give a true assessment of the condition of the site, it is possible that different ground conditions may exist in parts of the site that is neither recorded nor visible.

2.2 Description of project

The project is to construct a new household waste recycling centre to replace the existing one located just to the south west. The site is located 3.5 km to the south of Sheringham. The site is centred approximately on Ordnance Survey Grid Reference 616300 341025. The site location is shown on the plan in Appendix A.

2.2.1 Current Land Use

The land is currently agricultural and is in set aside.

2.2.2 Surrounding Land Use

The land is bounded to the north west by an arable field and agricultural storage area and to the south east by an arable field. South of the site is the service road leading to Sheringham Household Waste Recycling Centre, and beyond that the A148 with further arable fields on the other side. To the north, beyond the remainder of the arable field in which the site is situated, is a wooded area which forms part of the Hilltop Outdoor Centre.

2.2.3 Potential Sources of Contamination

The potential sources of contamination and background levels of any existing contamination were covered in previous reports by others, comments are made on any potential contamination encountered.

2.3 Geotechnical category of the project

The project is classed as Geotechnical Category 2 under Eurocode 7, which is defined as conventional types of structure and foundations, with no exceptional risk or difficult soil or loading conditions.

2.4 Other Relevant Information

2.4.1 Natural and manmade Cavities

This site is outside the area of known mining activity.

2.4.2 Landslides

Landslides do not pose a major risk at this site.

2.4.3 Erosion and Deposition

No erosion or deposition features were noted within the site.

2.4.4 Seismic

There are no known historical fault lines that affect the site.

3.0 Existing Information

3.1 Previous investigations.

There are no known previous investigations associated with this site.

3.2 Geology

According to British Geological Survey mapping, the geology of the region may be summarised as follows:

Chrono-stratigraphic system	Litho-stratigraphic Unit	Summary Description	Thickness (m)
Holocene	Head	**Head** comprises poorly sorted and poorly stratified deposits formed by the mass movement of superficial materials on sloping ground. The mass movement processes include hillwash and soil creep as well as solifluction, an important mode of sediment transport in periglacial conditions. Head occurs as a veneer up to a metre or so thick lining the floors and/or lower flanks of the tributary valleys of the district. Head ranges from yellow-brown to dark brown to grey-black and comprises mainly sand with varying proportions of clay, silt, gravel of pebble grade (mostly flint) and sporadic larger rock clasts.	Variable
Pleistocene	Britons Lane Sand and Gravel	**Briton's Lane Sand and Gravel** member consists mainly of planer cross bedding that comprises of gravels and cobbles, with lenses of sand. Lithologically the deposits have a high percentage of flint (78-85%). The parent rock of the Briton's Lane Sand and Gravel is the Briton's Lane Formation, which extends throughout most of north Norfolk. The underlying boundary is well defined with sands and gravels upon the erosional surface of the Sheringham Cliffs Formation.	0-40
Pleistocene	Bacton Green Till	The Bacton Green Till Member forms an extensive diamicton complex that consists of a stratified assemblage of stony diamicton with beds/laminae of sorted material including sand, silt and clay. It has been interpreted as being a subaqueous till deposited by melt-out and gravity flows (Lunkka, 1994; Lee et al., 2004). The calcium carbonate content of the matrix of the diamicton beds is typically within the region of 10-12% and is some 20% lower than tills from the underlying Lowestoft Formation.	10-15
Pleistocene	Wroxham Crag	The **Wroxham Crag** was formed when, after a long period of standing above sea level, the area was submerged by a marine transgression caused by movements of the sea floor during a period of coastal instability in the region. The deposits are a variable series of yellowish or reddish brown sands, laminated clays and pebbly gravels. In places they are highly fossiliferous, shell fragments being especially prolific.	5-60

Table 2: Geological succession of the area of the scheme (based on available literature)

Geology plan extracts from the BGS web site can be found in Appendix B.

3.3 Hydrology and Hydrogeology

According to the Regional Hydrogeology Map of Northern East Anglia, the Norwich Crag is the principle aquifer for the area. The estimated minimum hydrostatic level of the Crag water table in the vicinity of the site is 45 metres above Ordnance Survey Datum. Ground level in the area is around 89 metres above Ordnance Survey Datum. Groundwater is therefore approximately 44 metres below existing ground level.

4.0 Fieldwork

4.1 Description of Fieldwork

As part of the current phase of work, the following investigation took place on the 4 to 6 April 2022, with the Trial pits being excavated on 4 April and the Borehole starting on 5 April.

Eight Trial Pits were excavated to a maximum depth of 3.10 metres. These are referred to as TP01 to TP08.

One Borehole was excavated to a depth of 15.45 metres. This is referred to as BH09

The location of the Trial Pits and Borehole are shown on the location plan in Appendix C.

Within this investigation a number of small, bulk and disturbed samples were taken from the holes, in accordance with BS5930: 2015+A1:2020. The number and depths of these samples along with the details of thickness of strata encountered are set out in Appendices D and E of this report.

4.2 Ground Investigation Report

All data regarding the recent intrusive ground investigation is contained within this report. The Borehole log is located in Appendix D while Trial Pit logs are located in Appendix E of this report

4.3 Geophysical Surveys

No geophysical surveys were carried out as part of this investigation other than Ground Penetrating Radar (GPR) and Cable Avoidance Tool (CAT) scanning for the location of underground utilities

4.4 Pile Tests

No pile testing was undertaken as part of the investigation.

4.5 Other Field Work

No other fieldwork was undertaken.

4.6 Laboratory Investigation

4.6.1 Description of Geotechnical Tests

A laboratory testing schedule were drawn up to assist classification of the soils and to determine their physical and chemical properties. Norfolk Partnership Laboratory is a UKAS TESTING laboratory No. 0920.

The following tests were carried out in-house: -

a) The determination of Natural Moisture Content by oven drying (BS1377:1990:Part 2: Clause 3).
b) The determination of Liquid Limit using the four point cone penetrometer method (BS 1377: 1990: Part 2: Clause 4).
c) The determination of the Plastic Limit (BS1377: 1990: Part 2: Clause 5).
d) The determination of Plasticity Index (BS 1377: 1990: Part 2: Clause 5).
e) The determination of Particle Size Distribution by wet sieving (BS1377: 1990: Part 2: Clause 9.2).
f) The determination of the Moisture Content / Density Relationship (BS1377: Part 4: 1990: Clause 3).
g) The determination Moisture Condition Value (BS 1377: Part 4: Clause 5)

Copies of the geotechnical test results from the recent phase of investigation are contained within of Appendix F of this report.

4.6.2 Description of Geoenvironmental Tests

a) Suite ST: Determination of water soluble Ammonium, Chloride, Nitrate, Sulphate and Magnesium; acid soluble Sulphate and total Sulphur. (BRE Digest SD1).

b) Standard screening suite (Suite SB): Total Sulphate, Boron, Water Soluble, Arsenic, Cadmium, Chromium III, Chromium VI, Copper, Lead, Mercury, Nickel, Selenium, Zinc, Acid Soluble Sulphide, Phenols (Monohydric), Total Cyanide, Elemental Sulphur, pH Value, PAH Total, Speciated PAH , Soil Organic Matter (SOM)

c) Asbestos

d) Speciated TPH (UKCWG)

5.0 Investigation Results

5.1 Ground conditions

Within this and the following section of the report the geological materials encountered are discussed in turn, and their geotechnical material properties assessed. The ground conditions and material properties derived then form the basis of the geotechnical design criteria described in the Geotechnical Design Report.

5.1.1 Topsoil

Topsoil was found as a surface deposit in all excavations. It is generally described as (common variations in brackets):

(Dark, greyish) brown slightly gravelly sandy silty TOPSOIL.

The thickness found was between 0.00 and 0.60 metres in BH09. A mean thickness of 0.33 metres was found to be present in Trial Pits 01 to 08. This material appears visually to be suitable for reuse.

5.1.2 Head

Head deposits were positively identified in TP03, beneath the Topsoil. It is described as:

Dark brown, slightly gravelly, sandy SILT.

This horizon was encountered at a depth of 0.35 metres with the base at 0.60 metres, giving a revealed thickness of 0.25 metres.

5.1.3 Britons Lane Sand and Gravel

The Britons Lane Sand and Gravel was encountered in all Trial Pits and BH09. This horizon was encountered below the Topsoil in all excavations except TP03 where it is encountered below the Head. It is described variously as (common variations in brackets) -

(Light, orangey, yellowish) brown or (yellowish, reddish) orange (very) silty, (slightly) gravelly fine to coarse (medium) SAND. Gravel is fine to medium angular to sub rounded flint.

or

Firm orangey brown, sandy, silty CLAY, with large lenses of firm to stiff, light brown, gravelly, very clayey SILT. Gravel is sub-angular to sub -rounded, fine and medium chalk and flint.

Or
(Light) brown (slightly gravelly, clayey) very sandy SILT. Gravel is sub-angular to rounded fine to medium chalk and flint, (with lenses of yellowish brown, fine and medium SAND).

This horizon was encountered at depths of between 0.30 metres in TPs 04, 06, 07 and 08 to 0.60 metres in TP03 and BH09. The base of the horizon was not proven in any of the Trial Pits but was proven in BH09 at 8.50 metres. The maximum revealed thickness was 7.90 metres in BH09.

5.1.3 Bacton Green Till

The Bacton Green Till was only encountered BH09. This horizon was encountered below the Britons Lane Sand and Gravel. It is described as (common variations in brackets) -

Stiff (soft to firm) light brown, slightly sandy, slightly gravelly CLAY. Gravel is sub-angular to sub-rounded, fine to medium chalk and flint, with pockets of orange sand. Occasional chalk boulders were also encountered.

This horizon was encountered at depths of between 0.85 metres and 15.45 metres. The base of the horizon was not proven.

5.2 Engineering properties

5.2.1Topsoil

Topsoil should be removed from beneath all road and housing foundations. Subject to verification it could either be reused on site or disposed of off-site.

5.2.2 Head

No geotechnical laboratory testing was carried out on the Head as part of this investigation. Head should be removed from beneath all road and housing foundations.

5.2.3 Britons Lane Sand and Gravel

The Britons Lane Sand and Gravel was encountered in all Trial pits and Borehole 9

Four Atterberg Limit test was undertaken on a sample from the Britons Lane Sand and Gravel.

The results are tabulated below:

Location	Depth (m)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Modified PI (%)	Moisture Content (%)	BS Classification	NHBC Classification
TP02	2.7	45	16	29	27	7.8	CI	Medium
TP03	0.6	26	18	8	7	17	CL	Non Shrinkable
TP03	2.7	47	16	31	27	23	CI	Medium
TP04	0.7	26	14	11	11	14	CL	Low

Table 3: Summary of Atterburg Limits in Britons Lane Sand and Gravel.

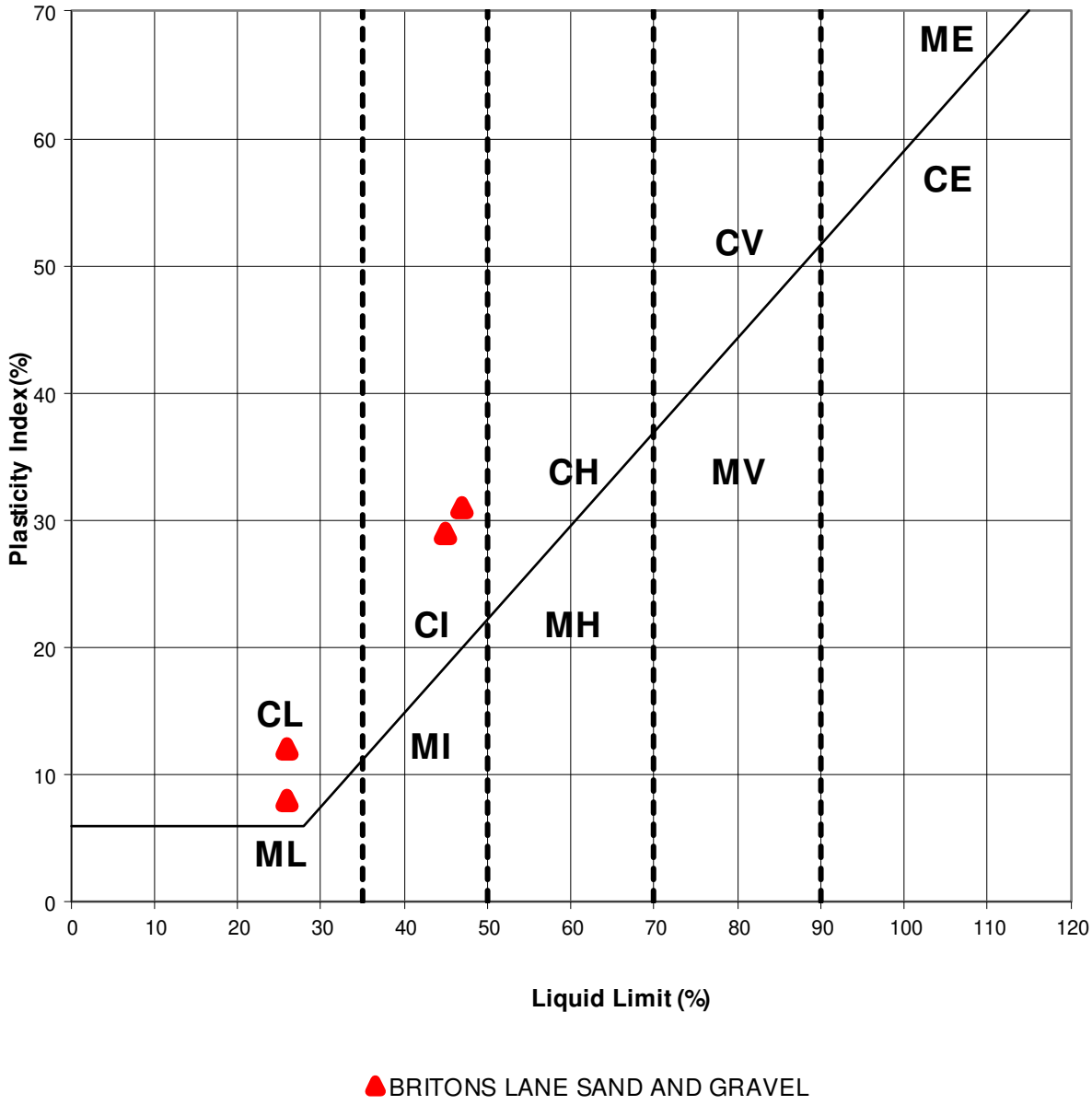

Figure 1: Atterberg Limits A line plot – Britons Lane Sand and Gravel

Twenty two Particle Size Distribution tests were carried out on the Briton's Lane Sand and Gravel and fall within the following grading envelope.

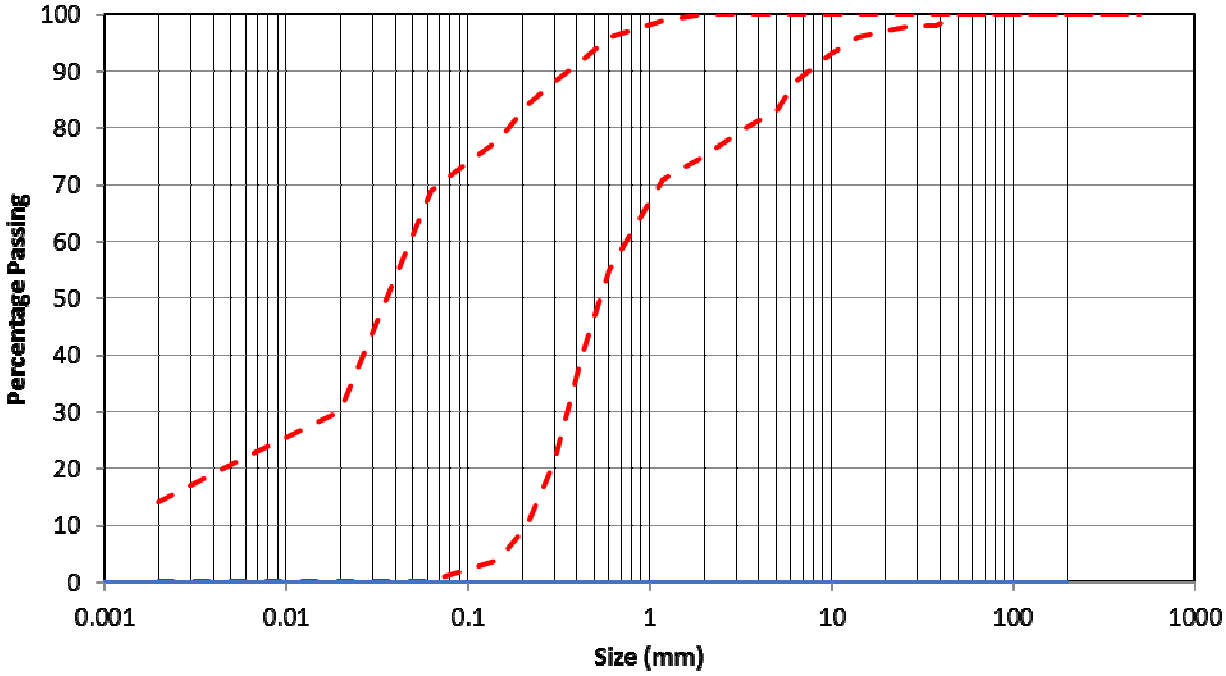

Figure 2: PSD envelope – Britons Lane Sand and Gravel.

Eight CBR tests were carried out in the Britons Lane Sand and Gravel as part of this investigation. Results are summarised below:

Location	Depth (m)	CBR (Top) (%)	CBR (Bottom) (%)	CBR (Design) (%)
TP01	0.70	14	16	15
TP02	0.70	18	22	21*
TP03	0.60	1.7	1.5	1.6
TP04	0.70	4.3	5.7	5.3*
TP05	0.70	10	15	14*
TP06	0.70	13	19	18*
TP07	0.60	13	16	15*
TP08	0.70	24	34	32*

*The design CBR calculation is outside the British Standard where top and bottom values are not within 10%.

Table 4: CBR summary – Britons Lane Sand and Gravel

The CBR values vary from 1.6% to 32%. It is recommended that a design CBR value of 5% is adopted for pavement design, this will however require further investigation of the area around TP03 to delineate both the vertical and horizontal extent of the soft spot. This should then be removed if present at formation and replaced with suitable material to achieve the design CBR value.

The samples were then tested at a series of moisture contents to establish the Dry Density/Moisture Content Relationship. The results are summarised below.

Location	Depth (m)	Max Dry Density (Mg/m^3)	Optimum Moisture Content (%)
TP01	1.80	1.72	16.6
TP02	0.70	1.89	12.9
TP03	0.60	1.87	10.0
TP04	0.70	2.01	10.5
TP05	1.70	1.83	15.8
TP06	0.70	1.73	6.7
TP07	1.70	1.66	7.4
TP08	1.70	1.73	8.0

Table 5: CBR summary – Britons Lane Sand and Gravel

5.2.3 Bacton Green Till

The Bacton Green Till was only encountered in Borehole 09.

No geotechnical laboratory testing was carried out on the Bacton Green Till as part of this investigation. Head should be removed from beneath all road and housing foundations.

5.3 Geoenvironmental testing

5.3.1 Geoenvironmental Soils testing

5.3.1 Samples tested

The schedule of geoenvironmental testing can be seen tabulated below.

Location	Depth (m)	Tests
1	0.1	Suite SB, Speciated TPH, Asbestos
1	0.7	Suite ST
2	0.1	Suite SB, Speciated TPH, Asbestos
2	1.4	Suite ST
3	0.1	Suite ST
3	0.6	Suite SB, Speciated TPH, Asbestos
4	0.1	Suite SB, Speciated TPH, Asbestos
4	0.7	Suite ST
5	0.1	Suite SB, Speciated TPH Asbestos
6	0.7	Suite SB, Speciated TPH, Asbestos
6	2.4	Suite ST
7	0.1	Suite SB, Speciated TPH, Asbestos
7	0.6	Suite ST
8	0.1	Suite SB, Speciated TPH, Asbestos
8	2.8	Suite ST
9	5.0 - 5.5	Suite ST

Table 6: Geoenvironmental soil test schedule summary

Suite SB = General contamination suite including testing for: Total Sulphate, Boron, Water Soluble, Arsenic, Cadmium, Chromium III, Chromium VI, Copper, Lead, Mercury, Nickel, Selenium, Zinc, Acid Soluble Sulphide, Phenols (Monohydric), Total Cyanide, Elemental Sulphur, pH Value, PAH Total, Speciated PAH , Soil Organic Matter (SOM).

Suite ST - Determination of water soluble Ammonium, Chloride, Nitrate, Sulphate and Magnesium; acid soluble Sulphate and total Sulphur. (BRE Digest SD1).

A total of eight samples were tested in accordance with BRE Special Digest 1 (SD1) (NPL Suite ST) and a further eight samples were tested as part of Suite SB to check for the presence of sulphates. Results are summarised below:

Determinant	No of tests	Min	Max	Characteristic value
pH	16	7.2	8.46	7.33
Ammonium (mg/l)	8	<1.0	1.27	1.26
Chloride (mg/l)	8	<7	<7	7
Nitrate (mg/l)	8	<0.4	13.3	7.4
Sulphate (Water sol) (mg/l)	16	<10	18	13
Sulphate (Acid sol) (%)	16	<0.02	0.03	0.03
Sulphur (%)	8	<0.01	0.02	0.02
Magnesium (mg/l)	8	<1	13	10.5

Table 7: BRE SD1 Result summary

Complete geoenvironmental test results are contained in Appendix G.

5.4 Infiltration Testing

Infiltration testing was carried out in two trial pits in accordance with BRE365. Three runs were carried out in all pits. Results are summarised below, full results can be found in Appendix H.

Location	Run 1 (m/sec)	Run 2 (m/sec)	Run 3 (m/sec)	Accepted result (m/sec)
TP07	8.0×10^{-5}	4.8×10^{-5}	4.2×10^{-5}	4.2×10^{-5}
TP08	6.5×10^{-5}	4.8×10^{-5}	3.5×10^{-5}	3.5×10^{-5}

Table 8: Trial Pit Infiltration test summary

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5.5 In Situ Tests

No in situ testing was carried out as part of this investigation.

5.6 Groundwater observations

No groundwater was encountered as part of this investigation.

5.7 Ground gas observations

No ground gas monitoring was carried out as part of this investigation.

Norfolk Partnership Laboratory

Site Investigation Section

This report was prepared under the direction of

Lead Engineer

Ian Brown

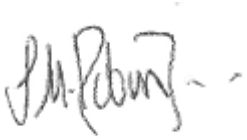
Report checked by

Geotechnical Services Manager

M L Bumstead
MSC BSc FGS

Author of report

Project Engineer



Jill Robinson

Date: 09/06/2022

Appendix A

Norfolk County Council

DRAWING TITLE

SHERINGHAM HWRC
GROUND INVESTIGATION
SITE LOCATION PLAN

Tom McCabe
Executive Director of
Community and Environmental Services
Norfolk County Council
County Hall
Martineau Lane
Norwich NR1 2SG

REV.	DESCRIPTION	DRAWN	CHECKED	DATE

	INIT.	DATE
SURVEYED BY	OS	2022
DESIGNED BY	JR	05/22
DRAWN BY	JR	05/22
CHECKED BY	MB	05/22

DRAWING No. 102894-1

PROJECT TITLE SHERINGHAM HWRC

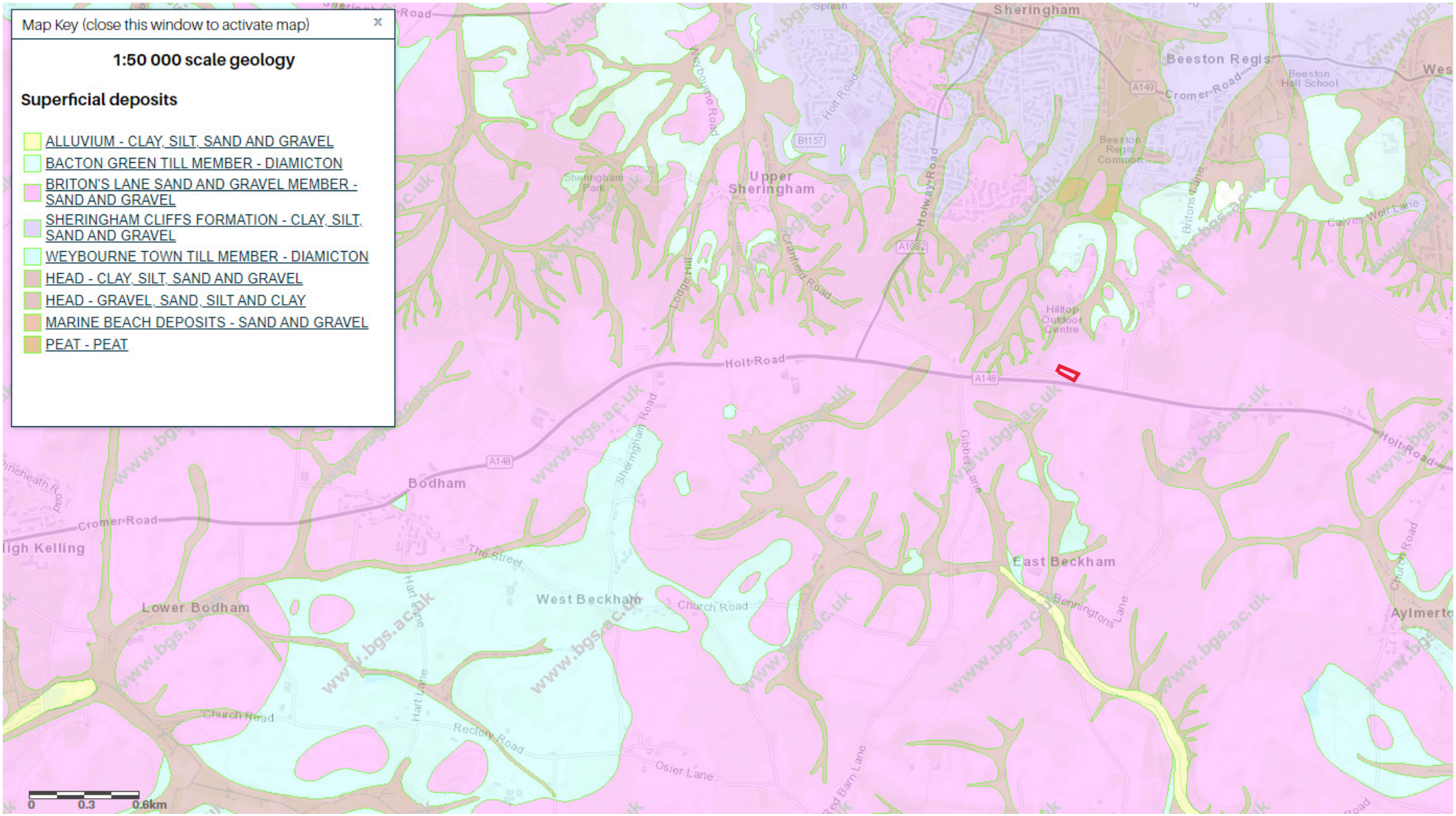
SCALE N.T.S @ A4

FILE No. 102894

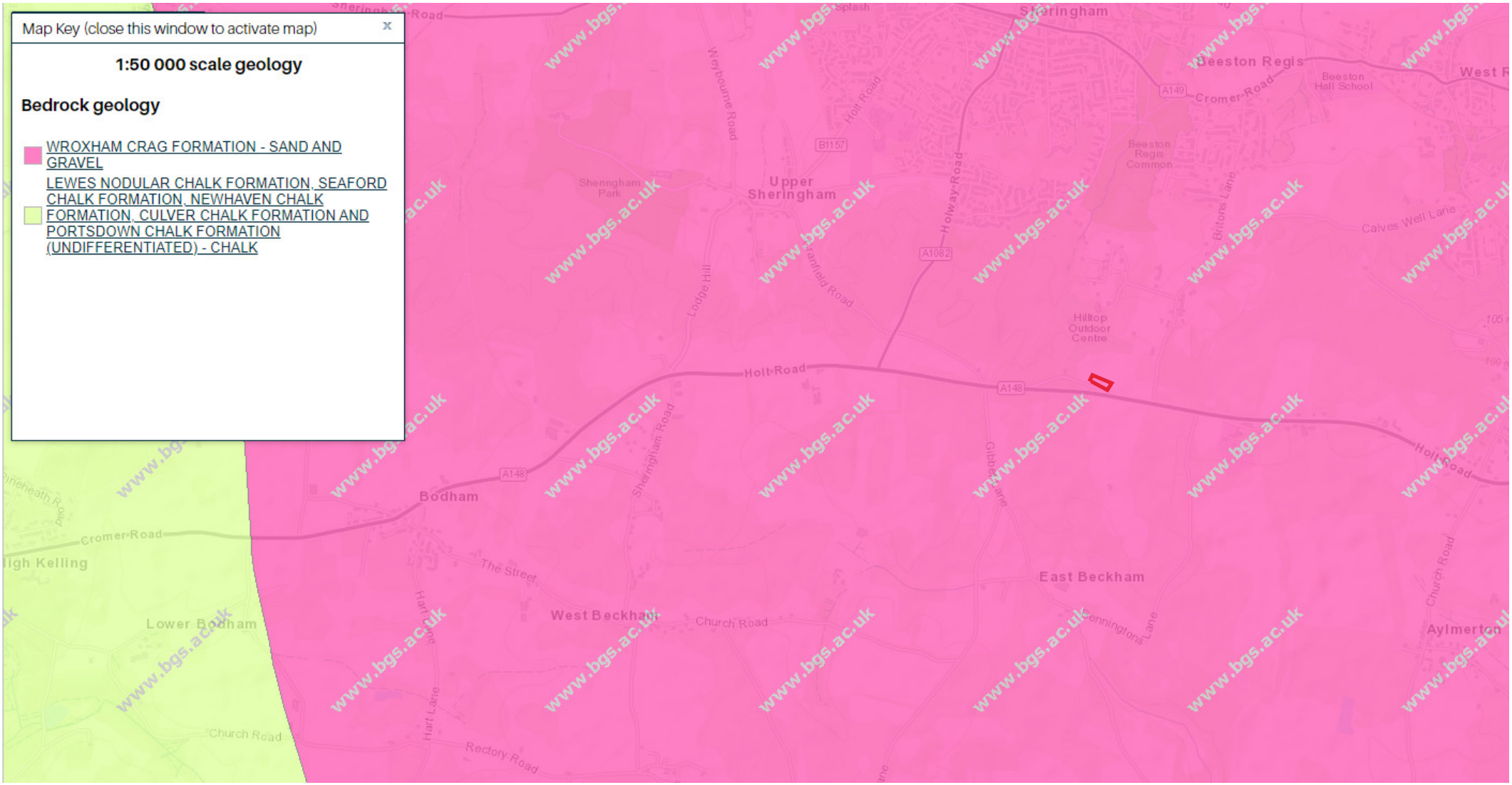
ORIGINAL SIZE: A4

IG 12/10/16

Appendix B

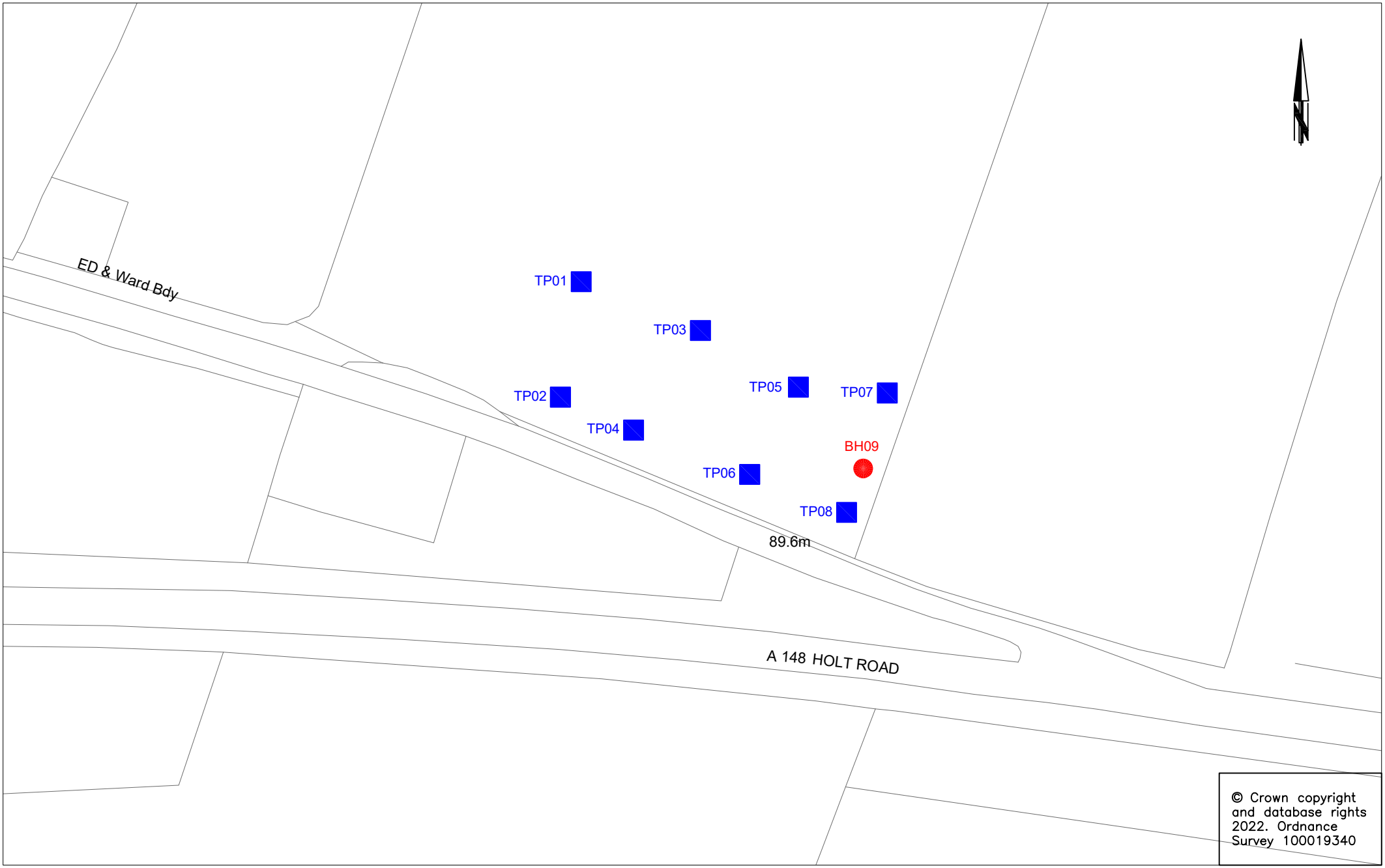


SUPERFICIAL GEOLOGY



BEDROCK GEOLOGY

Appendix C



Norfolk County Council

Tom McCabe
Executive Director of
Community and Environmental Services
Norfolk County Council
County Hall, Martineau Lane
Norwich NR1 2SG

DRAWING TITLE

SHERINGHAM HWRC
GROUND INVESTIGATION
TP AND BH LOCATION PLAN

REV.	DESCRIPTION	DRAWN BY	CHECKED	DATE

	INITIALS	DATE
SURVEYED BY	OS/BB	2022
DESIGNED BY	JR	05/22
DRAWN BY	JR	05/22
CHECKED BY	MB	05/22

DRAWING No. 102894-2

PROJECT TITLE: SHERINGHAM HWRC

SCALE: 1:1000 @ A4

FILE No. 102894

ORIGINAL SIZE: A4

IG 12/10/16

Appendix D

NORFOLK PARTNERSHIP LABORATORY

Borehole Log

Sheet 1 of 2

Scheme	Sheringham Recycling Centre	Job No.	102894	Borehole No.	09
Carried out for	Community & Environmental Services	Date Started	05/04/2022	Date Finished	06/04/2022
Remarks:	Dry	Type of Rig	CP	Logged by	Alan Glossop
		Depth (m)	15.45	Ground Level (m AOD)	88.92	Drawn by	CRV
		Co-ords	616323 - 341009	Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Firm brown, slightly gravelly, fine to coarse SAND with occasional roots. Gravel is angular to sub-angular, fine to coarse flint. TOPSOIL												
			Medium dense yellowish orange, medium SAND. BRITONS LANE SAND AND GRAVEL		0.60										
			With many large lenses of reddish brown SILT from 1.00-1.20m.			1.00		01							
								02	S 23						
						2.00		03							
								04	S 14						
			With some small to medium lenses of reddish brown SILT from 3.00-3.50m.			3.00		05							
								06	S 17						
			Medium dense yellowish orange, medium SAND. BRITONS LANE SAND AND GRAVEL		4.00	4.00		07							
			Becoming fine to coarse SAND from 4.00-4.50m.					08	S 21						
			Becoming fine and medium SAND from 5.00-5.50m.			5.00		09							
								10	S 20						
			Medium dense light brown, slightly gravelly, fine and medium SAND. Gravel is sub-angular to sub-rounded, fine to medium flint. BRITONS LANE SAND AND GRAVEL		5.50	6.00		11							
								12	S 19						
			Medium dense reddish orange fine to medium SAND with occasional clay pockets, becoming more red in colour with depth. BRITONS LANE SAND AND GRAVEL		7.00	7.00		13							
								14	S 24						
						8.00		15							
								16	S 9						
			Structureless CHALK composed of cream slightly gravelly slightly clayey SILT. Gravel is weak, medium density, white and fine to medium and angular to sub-angular. Low flint content (Grade Dm). BACTON GREEN TILL		8.50 8.70			17							
			Soft to firm light brown, slightly sandy, slightly gravelly CLAY. Gravel is sub-angular to sub-rounded, fine and medium chalk with numerous chalk gravel, and orange sand pockets. BACTON GREEN TILL			9.00		19 18	S 10						

NORFOLK PARTNERSHIP LABORATORY

Borehole Log

Sheet 2 of 2

Scheme	Sheringham Recycling Centre	Job No.	102894	Borehole No.	09
Carried out for	Community & Environmental Services	Date Started	05/04/2022	Date Finished	06/04/2022
Remarks:	Dry	Type of Rig	CP	Logged by	Alan Glossop
		Depth (m)	15.45	Ground Level (m AOD)	88.92	Drawn by	CRV
		Co-ords	616323 - 341009	Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Soft to firm light brown, slightly sandy, slightly gravelly CLAY. Gravel is sub-angular to sub-rounded, fine and medium chalk with numerous chalk gravel, and orange sand pockets. BACTON GREEN TILL					20							
								21							
			Stiff light brown, slightly sandy, slightly gravelly CLAY. Gravel is sub-angular to sub-rounded, fine to medium chalk and flint., with pockets of orange SAND. BACTON GREEN TILL		11.00	11.00		23	22	S 24					
						12.00		24							
								25							
								26							
						13.00		28	27	S 27					
						14.00		29							
								30							
								31							
						15.00		32		S 33					
					15.45										
						16.00									
						17.00									
						18.00									
						19.00									

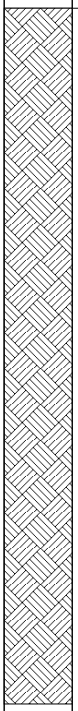
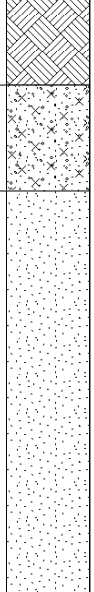
NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	01
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.60m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Abandoned due to collapse. Dry.	Depth (m)	2.30	Ground Level (m AOD)	89.95
		Co-ords	616266 - 341048	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Dark brown, slightly gravelly, sandy TOPSOIL. Gravel is angular to sub-angular, fine and medium flint. TOPSOIL												
			Brown, slightly gravelly, silty, fine and medium SAND. Gravel is angular to sub-rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		0.35										
			Orangey brown, fine and medium SAND. BRITONS LANE SAND AND GRAVEL		0.70			2							
			Becoming yellow from 1.80-2.30m.			1.00									
						2.00		3							
					2.30										
						3.00									
						4.00									


NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	02
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.80m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Dry and stable.	Depth (m)	3.00	Ground Level (m AOD)	89.90
		Co-ords	616262 - 341024	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Brown, slightly gravelly, sandy TOPSOIL. Gravel is angular to sub-angular, fine and medium flint. TOPSOIL												
			Yellowish brown, medium SAND. BRITONS LANE SAND AND GRAVEL		0.40			1							
						1.00		2							
			Yellowish brown gravelly, medium SAND. Gravel is sub-angular to rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		1.10			3							
			Firm orangey brown, sandy, silty CLAY, with large lenses of firm to stiff, light brown, gravelly, very clayey SILT. Gravel is sub-angular to sub -rounded, fine and medium chalk and flint. BRITONS LANE SAND AND GRAVEL		1.75	2.00									
			Firm to stiff light brown, slightly gravelly, clayey very sandy SILT. Gravel is sub-angular to rounded fine to medium chalk and flint, with lenses of yellowish brown, fine and medium SAND. BRITONS LANE SAND AND GRAVEL		2.50			4		8	45	16	29		
					3.00	3.00									
						4.00									

NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	03
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.70m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Dry and stable.	Depth (m)	3.00	Ground Level (m AOD)	89.53
		Co-ords	616290 - 341037	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Dark greyish brown, slightly gravelly, silty,. sandy TOPSOIL. Gravel is rounded to angular, fine to coarse flint. TOPSOIL					1							
			Dark brown, slightly gravelly, sandy SILT. Gravel is angular to sub-angular, fine to coarse flint. HEAD		0.35										
			Brown, very sandy SILT. BRITONS LANE SAND AND GRAVEL		0.60			2		17	26	18	8		
			Becoming slightly gravelly from 1.60-3.00m. Gravel is angular to sub-angular, fine and medium flint.			1.00									
			With large lenses of firm light brown, gravelly CLAY from 1.80-3.00. Gravel is sub-angular to sub-rounded, fine and medium chalk and flint.			2.00									
			Boulder of chalk in south end of pit at 2.30.												
								3		23	47	16	31		
					3.00	3.00									
						4.00									

NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	04
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.70m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Dry and stable.	Depth (m)	3.10	Ground Level (m AOD)	89.61
		Co-ords	616277 - 341017	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Brown, slightly gravelly, silty, sandy TOPSOIL. Gravel is sub-rounded to angular, fine and medium flint. TOPSOIL					1							
			Light brown, very sandy SILT. BRITONS LANE SAND AND GRAVEL		0.30										
								2		14	26	14	11		
			Light brown, slightly gravelly, very silty, fine to medium SAND. Gravel is sub-rounded to rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		1.00	1.00									
								3							
						2.00									
			Orangey brown, slightly gravelly, silty, fine and medium SAND. Gravel is sub-rounded to rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		2.60										
			Boulder of chalk, medium and coarse flint cobbles is north face of pit at 2.70m.					4							
						3.00									
					3.10										
						4.00									

NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	05
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.70m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Abandoned due to collapse. Dry.	Depth (m)	2.40	Ground Level (m AOD)	89.51
		Co-ords	616310 - 341026	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Dark brown, slightly gravelly, sandy TOPSOIL. Gravel is angular to sub-angular, fine to coarse flint. TOPSOIL												
			Orange, very gravelly, medium SAND. Gravel is angular to sub-rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		0.35			1							
								2							
						1.00									
			Yellowish brown slightly gravelly, fine to medium SAND. Gravel is angular to sub-rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		1.40										
								3							
						2.00									
								4							
					2.40										
						3.00									
						4.00									

NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	06		
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022		
Dimensions:	0.45m x 1.70m	Type of Rig	JCB 3CX			Logged by	MLB
Remarks:	Abandoned at 2.70m sue to collapse. Dry.	Depth (m)	2.70	Ground Level (m AOD)	89.48	Drawn by	CRV
		Co-ords	616300 - 341008			Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Brown, slightly gravelly, silty, sandy TOPSOIL. Gravel is angular to rounded, fine to coarse flint. TOPSOIL												
			Orange, very gravelly, fine to coarse SAND. Gravel is sub-angular to rounded, fine to coarse flint. BRITONS LANE SAND AND GRAVEL		0.30			1							
			Orange silty fine and medium SAND. BRITONS LANE SAND AND GRAVEL		0.45			2							
						1.00									
						2.00									
			Orange, slightly gravelly, medium SAND. Gravel is angular to rounded, fine and medium flint. BRITONS LANE SAND AND GRAVEL		2.20			3							
					2.70										
						3.00									
						4.00									

Appendix E

NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	07
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.70m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Dry, some minor instability.	Depth (m)	2.90	Ground Level (m AOD)	89.04
		Co-ords	616328 - 341024	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Brown, slightly gravelly, sandy TOPSOIL. Gravel is angular to sub-angular, fine and medium flint. TOPSOIL												
			Orange, fine and medium SAND. BRITONS LANE SAND AND GRAVEL		0.30			1							
			Becoming yellow from 1.40-2.90m.					2							
						1.00									
								3							
						2.00									
								4							
					2.90										
						3.00									
						4.00									

NORFOLK PARTNERSHIP LABORATORY

TRIAL PIT LOG

Sheet 1 of 1

Scheme	Sheringham Recycling Centre	Job No.	102894	Trial Pit No.	08
Carried out for	Community & Environmental Services	Date Started	08/04/2022	Date Finished	04/04/2022
Dimensions:	0.45m x 1.70m	Type of Rig	JCB 3CX	Logged by	MLB
Remarks:	Dry and stable.	Depth (m)	3.00	Ground Level (m AOD)	88.91
		Co-ords	616320 - 341000	Drawn by	CRV
				Checked by	MLB

Backfill	Water	Casing	Description	Legend	Depth (m)	Scale	Sample Type	Sample No.	Field Tests	Laboratory Tests MC%	LL	PL	MPI	Org.	CBR
			Brown, slightly gravelly, sandy TOPSOIL. Gravel is angular to sub-angular, fine to coarse flint. TOPSOIL												
			Orangey brown, fine and medium SAND. BRITONS LANE SAND AND GRAVEL		0.30			1							
			Becoming yellow from 1.30-3.00m.			1.00		2							
						2.00		3							
					3.00	3.00		4							
						4.00									

Appendix F

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Our Reference No.	NNPL2022040810
Our Project No	102894
Your Sample Ref	B4
Your Project or Order No.	708523
Date Report Issued	31 May 2022

Determination of Liquid Limit to BS1377-2:1990 Cl 4.3 Cone Penetrometer (Definitive Method) (Withdrawn) and Determination of Plasticity Index to BS1377-2:1990 Cl 5 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP02	**Depth**	2.7m
Date sampled	05 Apr 2022	**Date received**	05 Apr 2022
Sampled by	KN (NPL Staff)	**Date tested**	27 Apr 2022
Sample type	Bulk Disturbed	**Sample Mass (g)**	494

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil		
Description	Firm to stiff light brown, slightly gravelly, silty, very sandy CLAY. Gravel is sub-angular to rounded, fine and medium, flint and chalk.		
Supplier	Not applicable	**Source**	Ex site

	Test Specimen
Location	Not applicable
Orientation	Not applicable
	Preparation Details
Method of Division	Quartering
Preparation Method	Wet sieving
Retained 425µm (%)	7.4
Natural MC (%)	7.8
Drying Temp. (ºC)	105-110
Liquid Limit (%)	45
Plastic Limit (%)	16
Plasticity Index (%)	29
Modified PI *(%)	27
BS Soil Classification	**C I**

*BRE Digest 240:1993.
This calculation is outside the scope of UKAS accreditation.

Remarks NHBC Volume change potential classification is medium.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Test Code =604

UKAS TESTING 0920

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Our Reference No.	NNPL2022040812
Our Project No	102894
Your Sample Ref	B2
Your Project or Order No.	708523
Date Report Issued	31 May 2022

Determination of Liquid Limit to BS1377-2:1990 Cl 4.3 Cone Penetrometer (Definitive Method) (Withdrawn) and Determination of Plasticity Index to BS1377-2:1990 Cl 5 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP03	**Depth**	0.6m
Date sampled	05 Apr 2022	**Date received**	05 Apr 2022
Sampled by	KN (NPL Staff)	**Date tested**	27 Apr 2022
Sample type	Bulk Disturbed	**Sample Mass (g)**	496

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil
Description	Orangish brown, gravelly, sandy, CLAY. Gravel is angular to subrounded fine flint.

Supplier	Not applicable	**Source**	Ex site

	Test Specimen
Location	Not applicable
Orientation	Not applicable
	Preparation Details
Method of Division	Quartering
Preparation Method	Wet sieving
Retained 425µm (%)	10.0
Natural MC (%)	17
Drying Temp. (ºC)	105-110
Liquid Limit (%)	26
Plastic Limit (%)	18
Plasticity Index (%)	8
Modified PI *(%)	7
BS Soil Classification	**CL**

*BRE Digest 240:1993.
This calculation is outside the scope of UKAS accreditation.

Remarks NHBC Volume change potential classification is non-shrinkable

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Test Code =604

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Our Reference No.	NNPL2022040813
Our Project No	102894
Your Sample Ref	B3
Your Project or Order No.	708523
Date Report Issued	31 May 2022

Determination of Liquid Limit to BS1377-2:1990 Cl 4.3 Cone Penetrometer (Definitive Method) (Withdrawn) and Determination of Plasticity Index to BS1377-2:1990 Cl 5 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP03	**Depth**	2.7m
Date sampled	05 Apr 2022	**Date received**	05 Apr 2022
Sampled by	KN (NPL Staff)	**Date tested**	27 Apr 2022
Sample type	Bulk Disturbed	**Sample Mass (g)**	456

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil
Description	Dark reddish brown slightly gravelly slightly sandy silty CLAY. Gravel is angular to subrounded fine chalk and flint.
Supplier	Not applicable
Source	Ex site

Test Specimen

Location	Not applicable
Orientation	Not applicable

Preparation Details

Method of Division	Quartering
Preparation Method	Wet sieving
Retained 425µm (%)	11.6

Natural MC (%)	23	
Drying Temp. (ºC)	105-110	
Liquid Limit (%)	47	
Plastic Limit (%)	16	
Plasticity Index (%)	31	
Modified PI *(%)	27	*BRE Digest 240:1993. *This calculation is outside the scope of UKAS accreditation.*
BS Soil Classification	**C I**	

Remarks NHBC Volume change potential classification is medium.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Test Code =604

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Our Reference No.	NNPL2022040815
Our Project No	102894
Your Sample Ref	B2
Your Project or Order No.	708523
Date Report Issued	31 May 2022

Determination of Liquid Limit to BS1377-2:1990 Cl 4.3 Cone Penetrometer (Definitive Method) (Withdrawn) and Determination of Plasticity Index to BS1377-2:1990 Cl 5 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP04	**Depth**	0.7m
Date sampled	05 Apr 2022	**Date received**	05 Apr 2022
Sampled by	KN (NPL Staff)	**Date tested**	14 Apr 2022
Sample type	Bulk Disturbed	**Sample Mass (g)**	530

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil
Description	Light brown, slightly gravelly very sandy, silty CLAY. Gravel is angular to subrounded fine flint and quartz.

Supplier	Not applicable	**Source**	Ex site

	Test Specimen
Location	Not applicable
Orientation	Not applicable
	Preparation Details
Method of Division	Quartering
Preparation Method	Wet sieving
Retained 425µm (%)	5.6
Natural MC (%)	14
Drying Temp. (ºC)	105-110
Liquid Limit (%)	26
Plastic Limit (%)	14
Plasticity Index (%)	11
Modified PI *(%)	11
BS Soil Classification	**CL**

*BRE Digest 240:1993.
This calculation is outside the scope of UKAS accreditation.

Remarks NHBC Volume change potential classification is low.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Test Code =604

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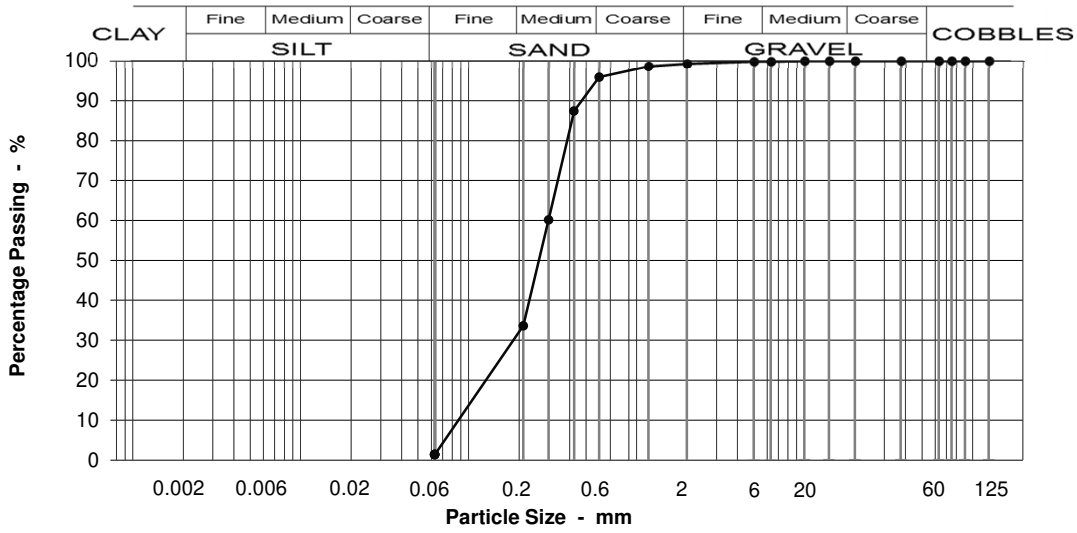
Our reference No. NNPL202204085-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 18/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP01 @ 0.7 - 0.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	100
6.3	100
5	100
2	99
1.18	99
0.600	96
0.425	87
0.300	60
0.212	34
0.063	1

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 3.4
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	0
Fine GRAVEL	1
Coarse SAND	3
Medium SAND	62
Fine SAND	32
Silt & Clay	1

Grading Analysis	
D100	6
D60	0.30
D10	0.10
Uniformity Coefficient[1]	3

Description
Orangey-brown, fine to medium SAND.

Test Code = 612

UKAS TESTING 0920

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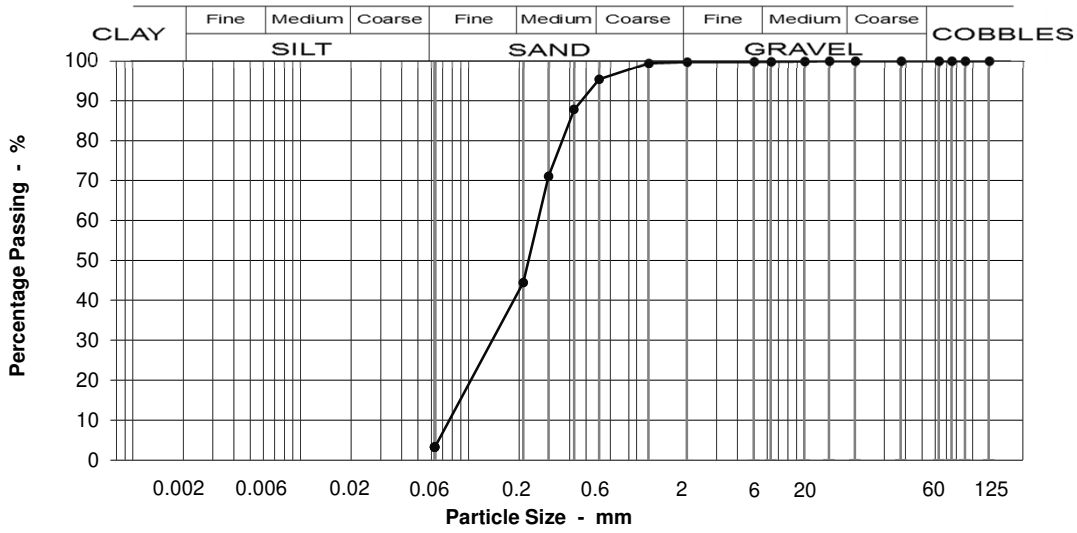
Our reference No. NNPL202204086-612
Our Project No. 102894
Your Sample Ref. 3
Your Order No. 708523
Date Tested 19/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP01 @ 1.8 - 2m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	100
6.3	100
5	100
2	100
1.18	99
0.600	95
0.425	88
0.300	71
0.212	44
0.063	3

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 5
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	0
Fine GRAVEL	0
Coarse SAND	4
Medium SAND	51
Fine SAND	41
Silt & Clay	3

Grading Analysis	
D100	10
D60	0.26
D10	0.09
Uniformity Coefficient[1]	3

Description
Orangey-brown, fine to medium SAND.

Test Code = 612

UKAS TESTING 0920

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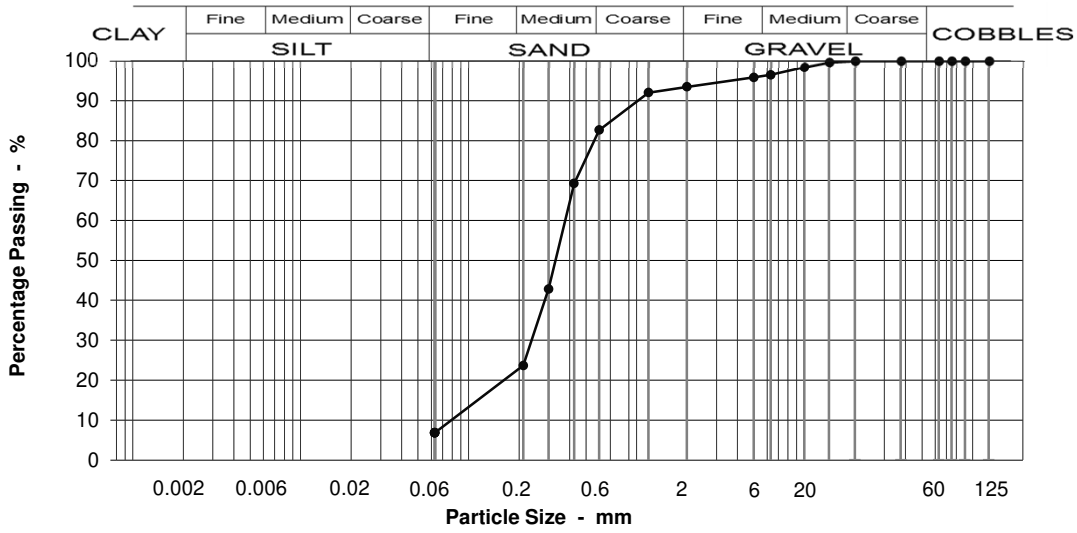
Our reference No. NNPL202204088-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 18/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP02 @ 0.7 - 0.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	98
6.3	96
5	96
2	93
1.18	92
0.600	83
0.425	69
0.300	43
0.212	24
0.063	7

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 4.2
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	4
Fine GRAVEL	3
Coarse SAND	11
Medium SAND	59
Fine SAND	17
Silt & Clay	7

Grading Analysis	
D100	14
D60	0.38
D10	0.09
Uniformity Coefficient[1]	4

Description
Yellowish brown, medium SAND.

Test Code = 612

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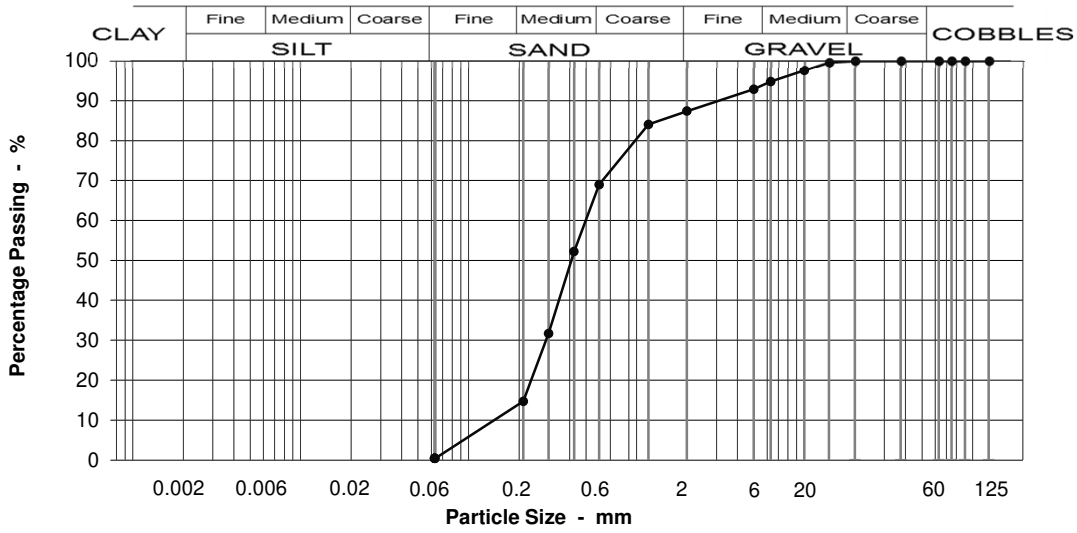
Our reference No. NNPL202204089-612
Our Project No. 102894
Your Sample Ref. 3
Your Order No. 708523
Date Tested 24/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP02 @ 1.4 - 1.7m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	98
6.3	95
5	93
2	87
1.18	84
0.600	69
0.425	52
0.300	32
0.212	15
0.063	0

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 4.1
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	5
Fine GRAVEL	7
Coarse SAND	18
Medium SAND	54
Fine SAND	14
Silt & Clay	0

Grading Analysis	
D100	14
D60	0.506
D10	0.163
Uniformity Coefficient[1]	3

Description
Yellowish brown, gravelly, medium SAND. Gravel is sub-angular to rounded, fine and medium flint.

Test Code = 612

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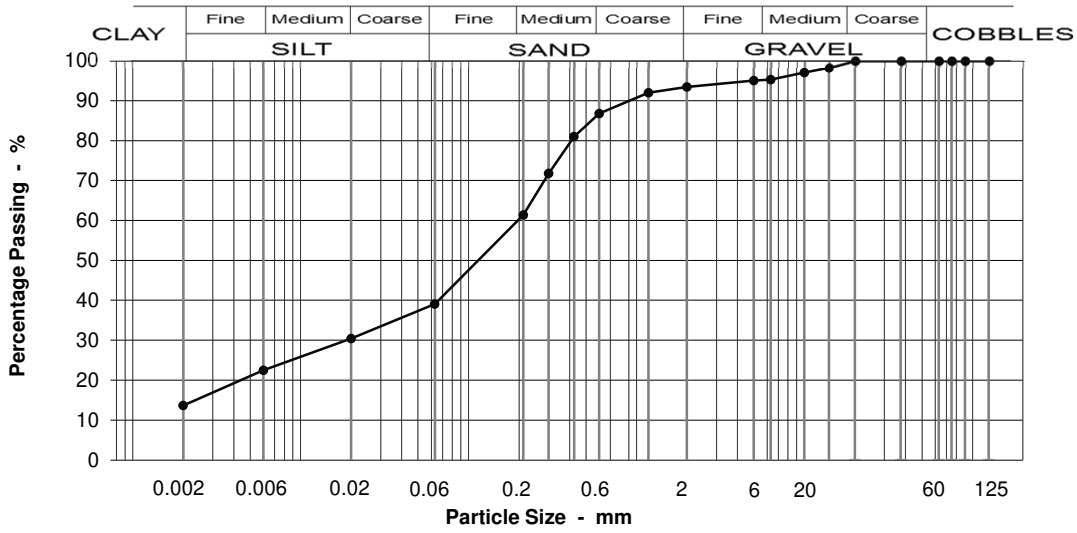
Our reference No. NNPL2022040810-612
Our Project No. 102894
Your Sample Ref. 4
Your Order No. 708523
Date Tested 26/04/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP02 @ 2.7 - 3m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	98
10	97
6.3	95
5	95
2	93
1.18	92
0.600	87
0.425	81
0.300	72
0.212	61
0.063	39
0.020	30
0.006	22
0.002	14

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B, 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 8.3
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	5
Fine GRAVEL	2
Coarse SAND	7
Medium SAND	25
Fine SAND	22
Silt & Clay	39

Grading Analysis	
D100	14
D60	0.203
D10	0.002
Uniformity Coefficient[!]	>10 *

Description
Firm to stiff light brown, slightly gravelly, silty, very sandy CLAY. Gravel is sub-angular to rounded, fine and medium, flint and chalk.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

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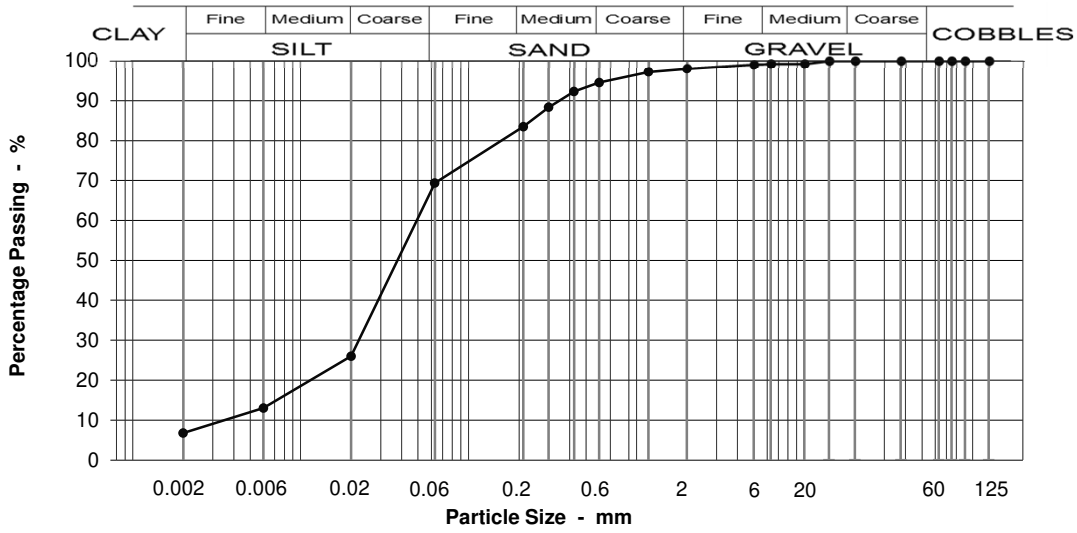
Our reference No. NNPL2022040812-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP03 @ 0.6 - 0.8m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	99
6.3	99
5	99
2	98
1.18	97
0.600	95
0.425	92
0.300	88
0.212	84
0.063	69
0.020	26
0.006	13
0.002	7

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B, 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 18
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	1
Fine GRAVEL	1
Coarse SAND	3
Medium SAND	11
Fine SAND	14
Silt & Clay	69

Grading Analysis	
D100	10
D60	0.054
D10	0.004
Uniformity Coefficient[!]	>10 *

Description
Orangish brown, gravelly, sandy, CLAY. Gravel is angular to subrounded fine flint.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

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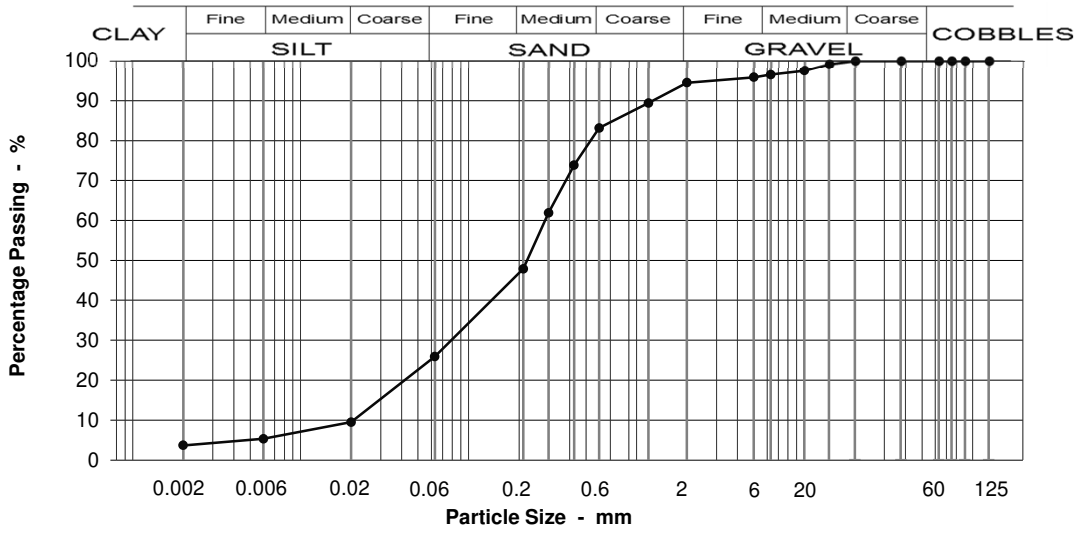
Our reference No. NNPL2022040813-612
Our Project No. 102894
Your Sample Ref. 3
Your Order No. 708523
Date Tested 27/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP03 @ 2.7 - 3m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	99
10	98
6.3	97
5	96
2	95
1.18	89
0.600	83
0.425	74
0.300	62
0.212	48
0.063	26
0.020	9
0.006	5
0.002	4

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B, 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 21
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	3
Fine GRAVEL	2
Coarse SAND	11
Medium SAND	35
Fine SAND	22
Silt & Clay	26

Grading Analysis	
D100	14
D60	0.288
D10	0.021
Uniformity Coefficient[!]	13 *

Description
Dark reddish brown slightly gravelly slightly sandy silty CLAY. Gravel is angular to subrounded fine chalk and flint.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

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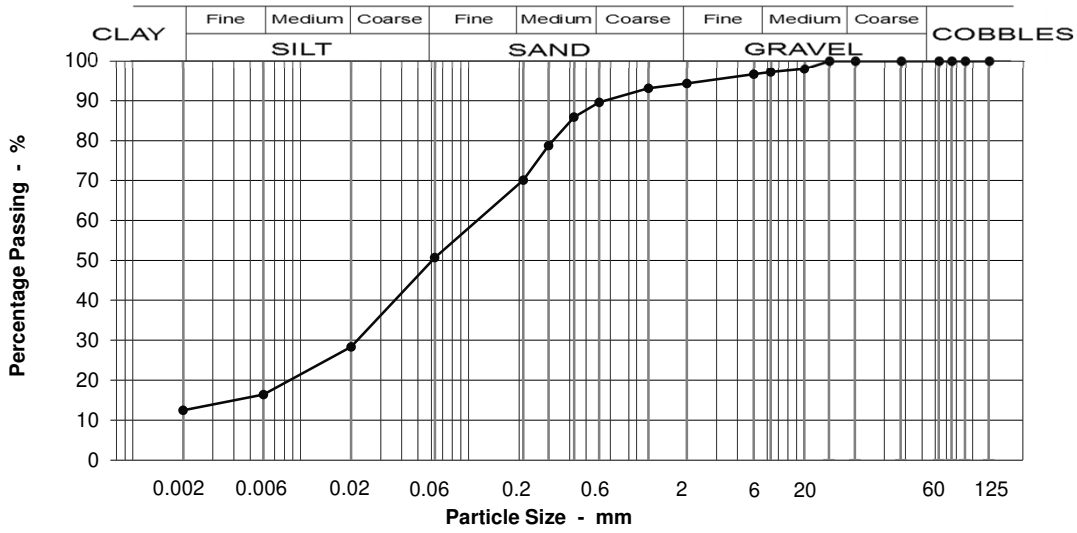
Our reference No. NNPL2022040815-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP04 @ 0.7 - 0.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	98
6.3	97
5	97
2	94
1.18	93
0.600	90
0.425	86
0.300	79
0.212	70
0.063	51
0.020	28
0.006	16
0.002	12

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B, 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 12
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	3
Fine GRAVEL	3
Coarse SAND	5
Medium SAND	19
Fine SAND	19
Silt & Clay	51

Grading Analysis	
D100	10
D60	0.134
D10	0.003
Uniformity Coefficient[!]	>10 *

Description
Light brown, slightly gravelly very sandy, silty CLAY. Gravel is angular to subrounded fine flint and quartz.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

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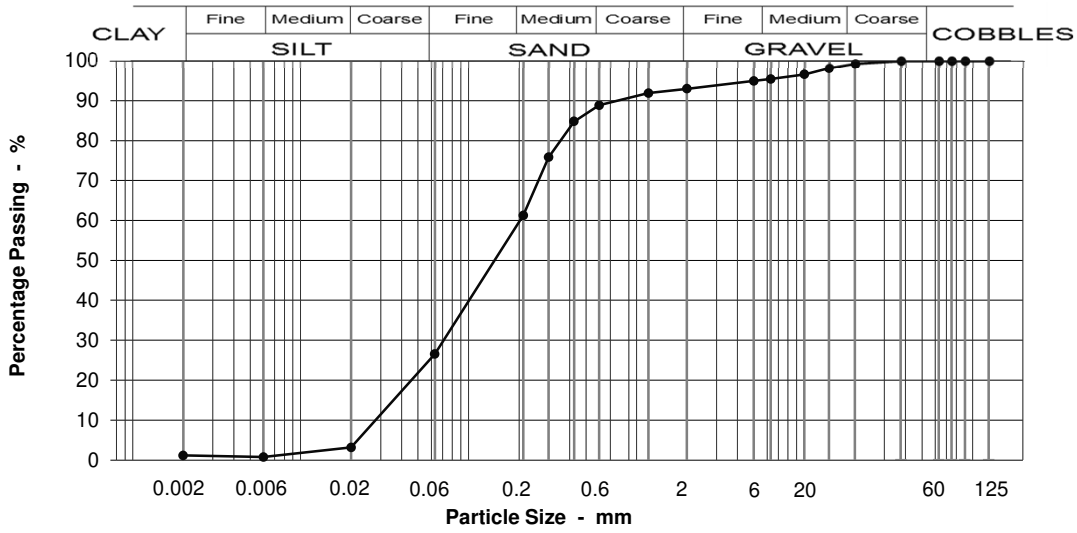
Our Project No. 102894
Your Sample Ref. 3
Your Order No. 708523
Date Tested 19/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP04 @ 1.7 - 1.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	99
14	98
10	97
6.3	95
5	95
2	93
1.18	92
0.600	89
0.425	85
0.300	76
0.212	61
0.063	27
0.020	3
0.006	1
0.002	1

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 10
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	1
Medium GRAVEL	4
Fine GRAVEL	2
Coarse SAND	4
Medium SAND	28
Fine SAND	35
Silt & Clay	27

Grading Analysis	
D100	20
D60	0.207
D10	0.033
Uniformity Coefficient[!]	6 *

Description
Light brown, gravelly, slightly silty, fine to medium SAND. Gravel is sub-rounded to rounded, fine and medium flint.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

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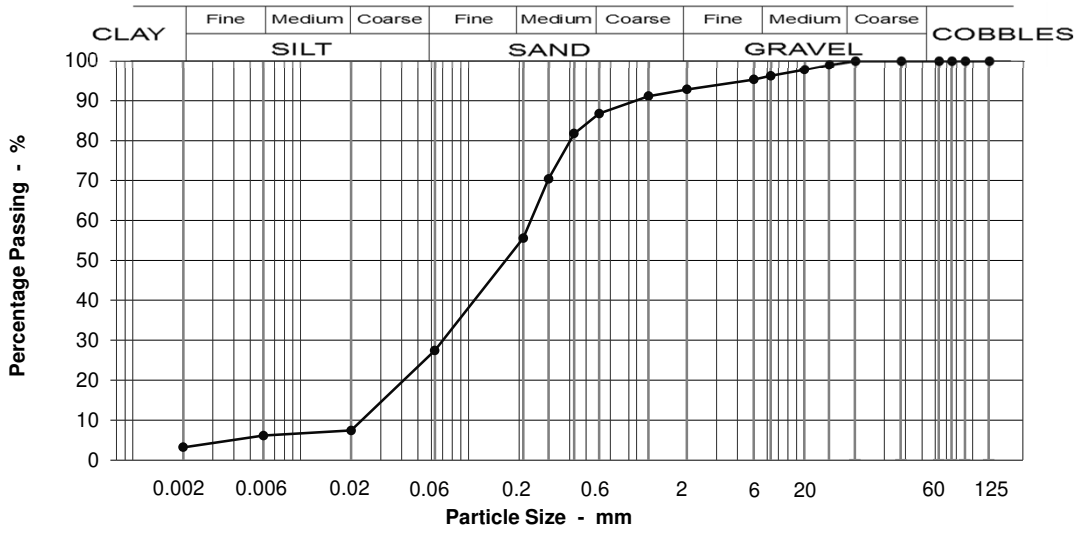
Our reference No. NNPL2022040817-612
Our Project No. 102894
Your Sample Ref. 4
Your Order No. 708523
Date Tested 14/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP04 @ 2.7 - 3m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	99
10	98
6.3	96
5	95
2	93
1.18	91
0.600	87
0.425	82
0.300	70
0.212	56
0.063	27
0.020	7
0.006	6
0.002	3

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B, 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 10
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	4
Fine GRAVEL	3
Coarse SAND	6
Medium SAND	31
Fine SAND	28
Silt & Clay	27

Grading Analysis	
D100	14
D60	0.238
D10	0.026
Uniformity Coefficient[!]	9 *

Description
Orangey brown, slightly gravelly, silty, fine and medium SAND. Gravel is sub-rounded to rounded, fine and medium flint.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

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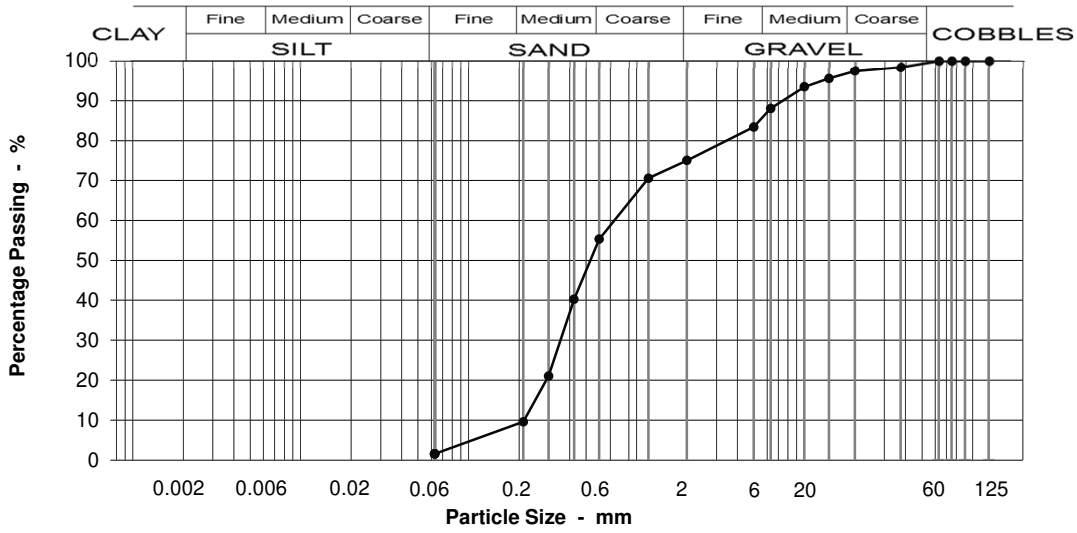
Our reference No. NNPL2022040819-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 18/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP05 @ 0.7 - 0.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	98
20	97
14	96
10	93
6.3	88
5	83
2	75
1.18	71
0.600	55
0.425	40
0.300	21
0.212	10
0.063	2

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 3.2
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	3
Medium GRAVEL	9
Fine GRAVEL	13
Coarse SAND	20
Medium SAND	46
Fine SAND	8
Silt & Clay	2

Grading Analysis	
D100	38
D60	0.778
D10	0.215
Uniformity Coefficient[1]	4

Description
Orange, very gravelly, medium SAND. Gravel is angular to sub-rounded, fine to medium flint.

Test Code = 612

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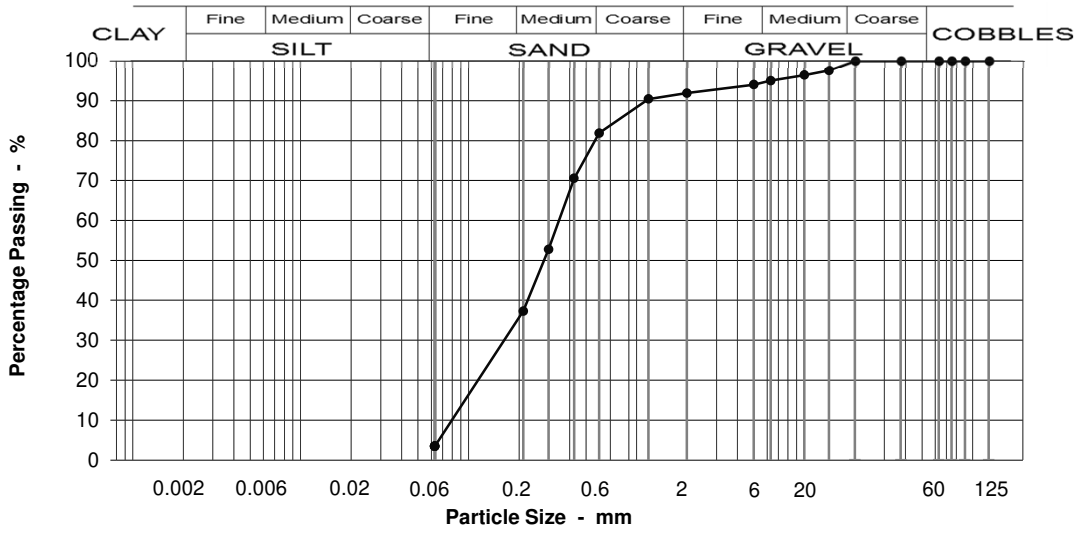
Our reference No. NNPL2022040821-612
Our Project No. 102894
Your Sample Ref. 4
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP05 @ 2.2 - 2.4m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	98
10	96
6.3	95
5	94
2	92
1.18	90
0.600	82
0.425	71
0.300	53
0.212	37
0.063	3

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 5.9
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	5
Fine GRAVEL	3
Coarse SAND	10
Medium SAND	45
Fine SAND	34
Silt & Clay	3

Grading Analysis	
D100	14
D60	0.35
D10	0.09
Uniformity Coefficient[1]	4

Description
Yellowish-brown, slightly gravelly, fine to medium SAND. Gravel is angular to sub-rounded, fine to medium flint.

Test Code = 612

UKAS TESTING 0920

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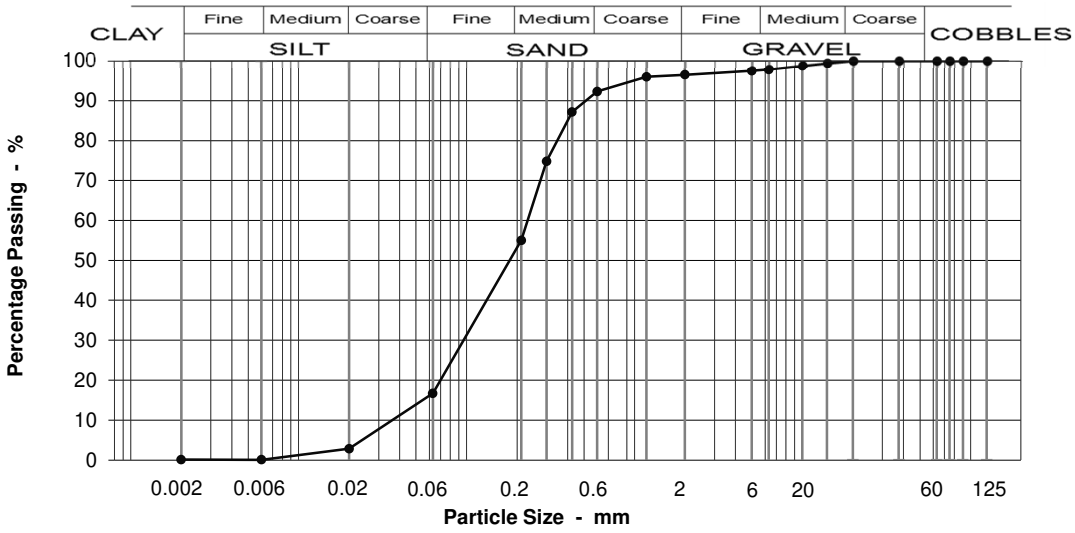
Our reference No. NNPL2022040823-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 18/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP06 @ 0.7 - 0.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	99
10	99
6.3	98
5	98
2	97
1.18	96
0.600	92
0.425	87
0.300	75
0.212	55
0.063	17
0.020	3
0.006	0
0.002	0

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 2A/2B.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 4.9
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	2
Fine GRAVEL	1
Coarse SAND	4
Medium SAND	37
Fine SAND	38
Silt & Clay	17

Grading Analysis	
D100	14
D60	0.234
D10	0.042
Uniformity Coefficient[!]	6 *

Description
Orange, silty fine to medium SAND.

* Uniformity coefficient extrapolated

! UC to Spec. For Highway Works, table 6/1 footnote 5

Test Code = 612

UKAS TESTING 0920

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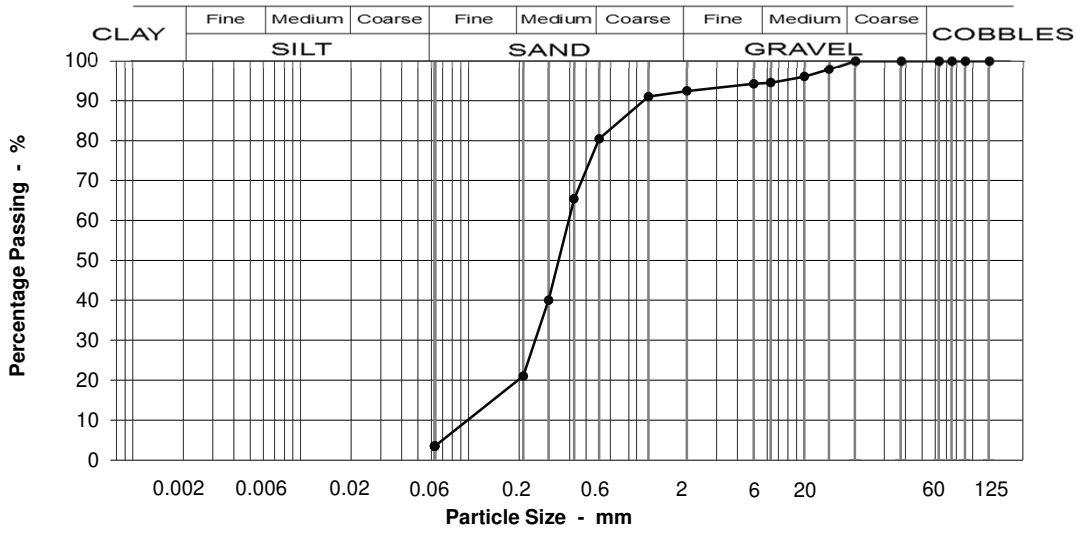
Our reference No. NNPL2022040824-612
Our Project No. 102894
Your Sample Ref. 3
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP06 @ 2.4 - 2.6m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	98
10	96
6.3	95
5	94
2	92
1.18	91
0.600	80
0.425	65
0.300	40
0.212	21
0.063	3

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 3.7
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	5
Fine GRAVEL	2
Coarse SAND	12
Medium SAND	59
Fine SAND	18
Silt & Clay	3

Grading Analysis	
D100	14
D60	0.40
D10	0.12
Uniformity Coefficient[1]	3

Description
Orange, slightly gravelly, medium SAND. Gravel is angular to rounded, fine to medium flint.

Test Code = 612

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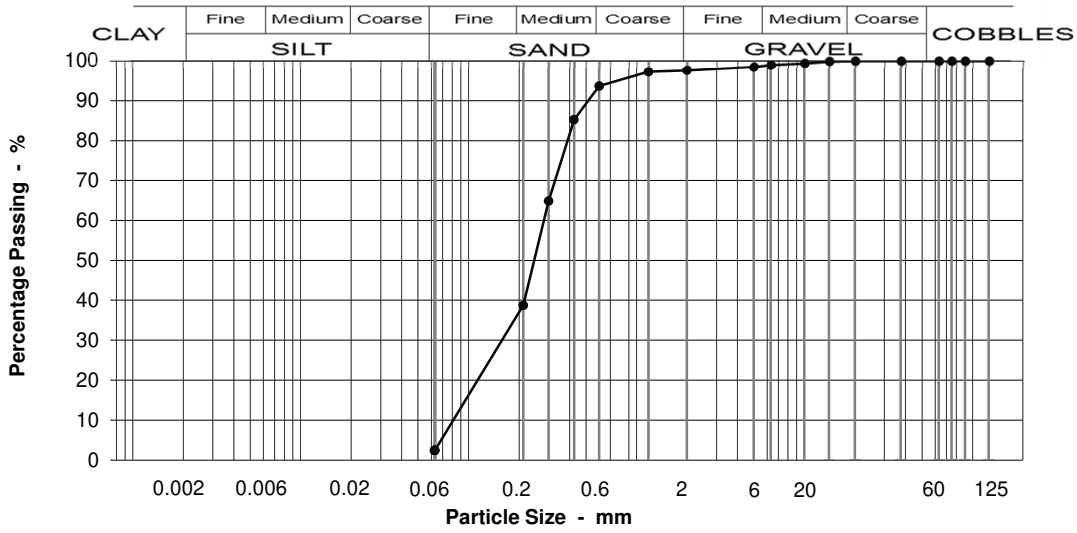
Our reference No. NNPL2022040826-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 18/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP07 @ 0.6 - 0.8m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	99
6.3	99
5	98
2	98
1.18	97
0.600	94
0.425	85
0.300	65
0.212	39
0.063	2

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 3.6
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	1
Fine GRAVEL	1
Coarse SAND	4
Medium SAND	55
Fine SAND	36
Silt & Clay	2

Grading Analysis	
D100	14
D60	0.28
D10	0.09
Uniformity Coefficient[1]	3

Description
Orange, fine to medium SAND.

Test Code = 612

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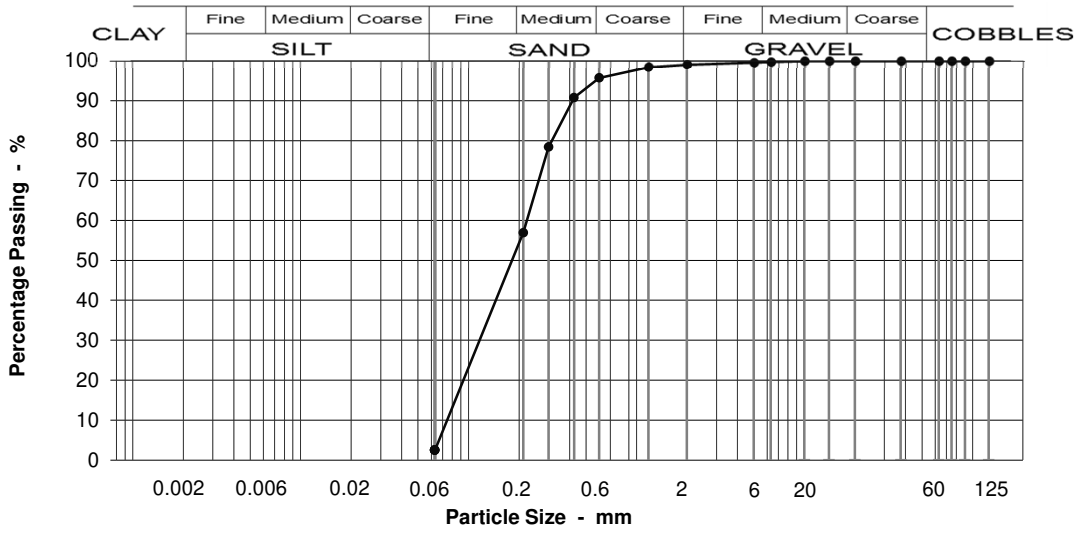
Our reference No. NNPL2022040828-612
Our Project No. 102894
Your Sample Ref. 4
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP07 @ 2.7 - 2.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	100
6.3	100
5	100
2	99
1.18	98
0.600	96
0.425	91
0.300	78
0.212	57
0.063	2

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 3.4
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	0
Fine GRAVEL	1
Coarse SAND	3
Medium SAND	39
Fine SAND	54
Silt & Clay	2

Grading Analysis	
D100	6
D60	0.22
D10	0.08
Uniformity Coefficient[1]	3

Description
Yellow, fine to medium SAND.

Test Code = 612

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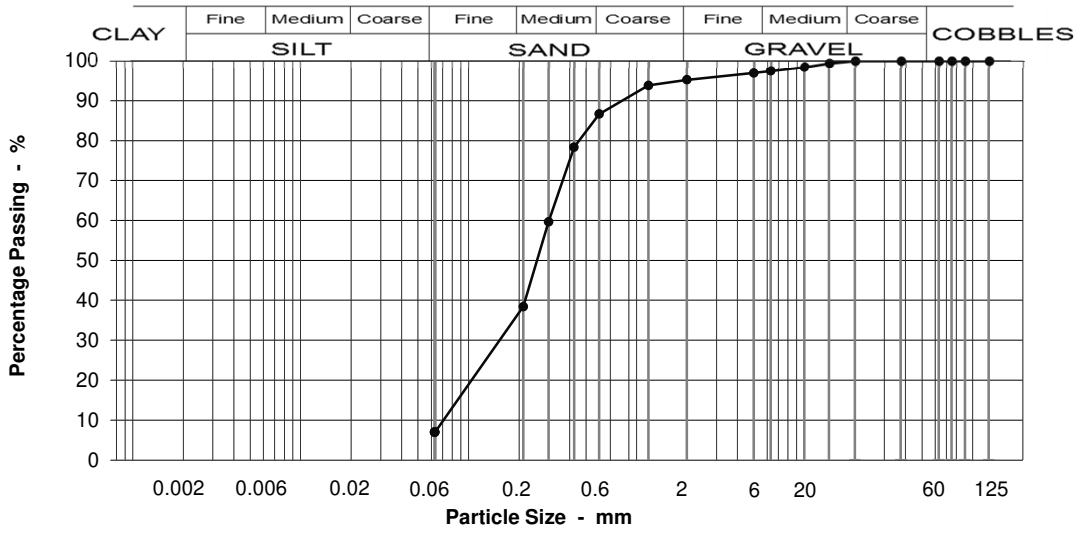
Our reference No. NNPL2022040830-612
Our Project No. 102894
Your Sample Ref. 2
Your Order No. 708523
Date Tested 18/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP08 @ 0.7 - 0.9m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	99
10	98
6.3	97
5	97
2	95
1.18	94
0.600	87
0.425	78
0.300	60
0.212	38
0.063	7

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 5.5
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	3
Fine GRAVEL	2
Coarse SAND	9
Medium SAND	48
Fine SAND	31
Silt & Clay	7

Grading Analysis	
D100	14
D60	0.30
D10	0.08
Uniformity Coefficient[1]	4

Description
Orangey-brown, fine to medium SAND.

Test Code = 612

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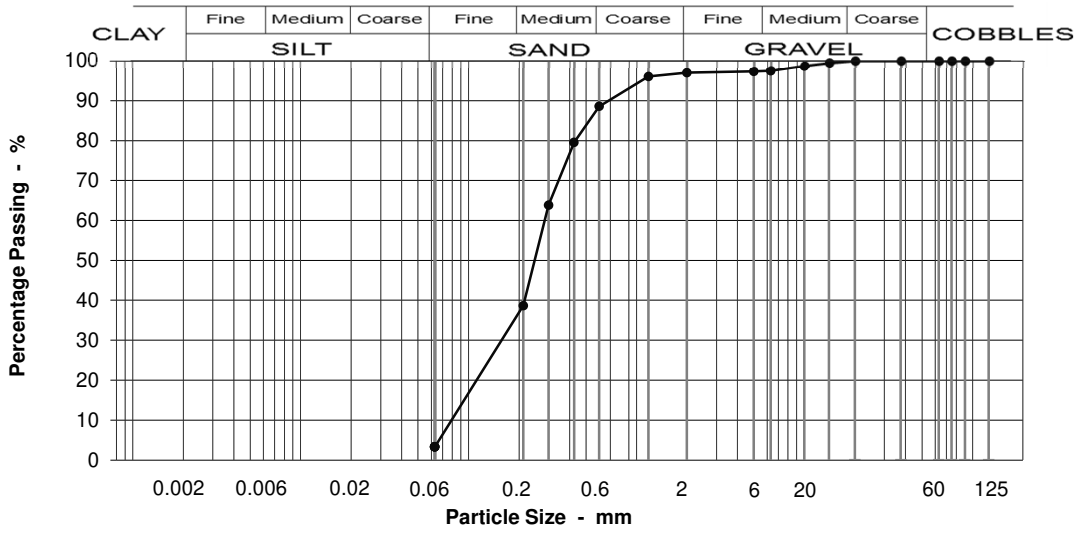
Our reference No. NNPL2022040832-612
Our Project No. 102894
Your Sample Ref. 4
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: TP08 @ 2.8 - 3m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	99
10	99
6.3	98
5	97
2	97
1.18	96
0.600	89
0.425	80
0.300	64
0.212	39
0.063	3

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 4.5
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	2
Fine GRAVEL	0
Coarse SAND	8
Medium SAND	50
Fine SAND	35
Silt & Clay	3

Grading Analysis	
D100	14
D60	0.29
D10	0.09
Uniformity Coefficient[1]	3

Description
Yellow, fine to medium SAND.

Test Code = 612

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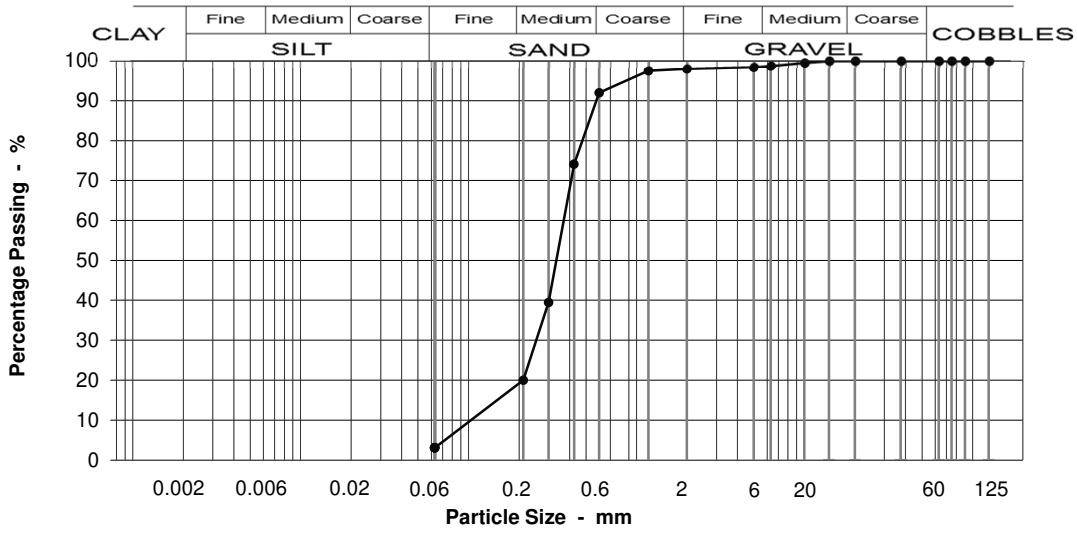
Our Project No. 102894
Your Sample Ref. 4
Your Order No. 708523
Date Tested 19/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: BH09 @ 2 - 2.5m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	100
6.3	99
5	98
2	98
1.18	98
0.600	92
0.425	74
0.300	39
0.212	20
0.063	3

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 1051
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	1
Fine GRAVEL	1
Coarse SAND	6
Medium SAND	72
Fine SAND	17
Silt & Clay	3

Grading Analysis	
D100	10
D60	0.37
D10	0.12
Uniformity Coefficient[1]	3

Description
Yellowish-orange, medium SAND.

S

Test Code = 612

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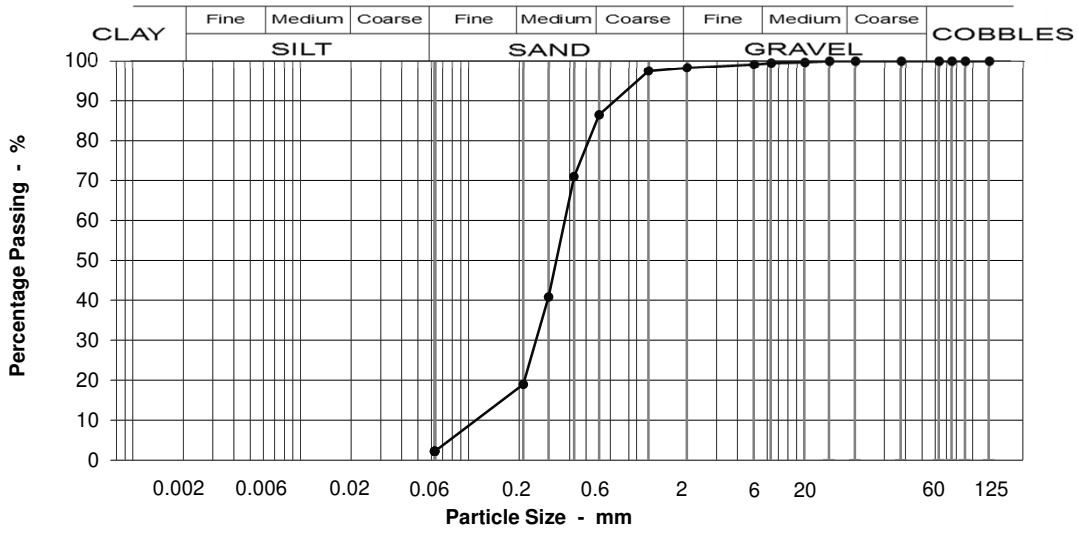
Our reference No. 0000-BH09-B8-612
Our Project No. 102894
Your Sample Ref. 8
Your Order No. 708523
Date Tested 09/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: BH09 @ 4 - 4.5m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	100
6.3	99
5	99
2	98
1.18	97
0.600	86
0.425	71
0.300	41
0.212	19
0.063	2

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 5.6
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	1
Fine GRAVEL	1
Coarse SAND	12
Medium SAND	68
Fine SAND	17
Silt & Clay	2

Grading Analysis	
D100	10
D60	0.38
D10	0.13
Uniformity Coefficient[1]	3

Description
Yellowish-orange, medium SAND.

S

Test Code = 612

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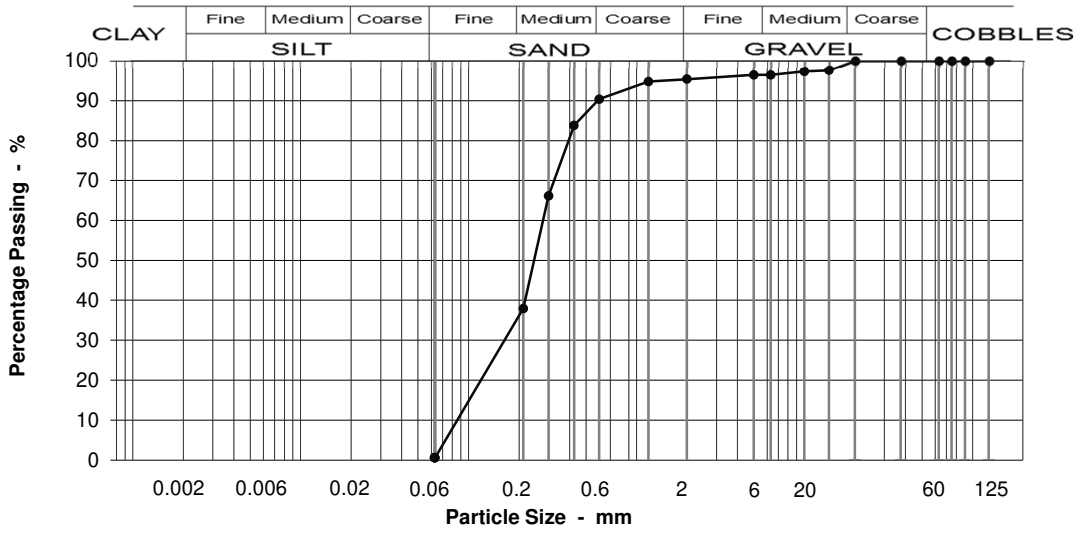
Our reference No. 0000-BH09-B12-612
Our Project No. 102894
Your Sample Ref. 12
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 09 Jun 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: BH09 @ 6 - 6.5m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	98
10	97
6.3	96
5	96
2	95
1.18	95
0.600	90
0.425	84
0.300	66
0.212	38
0.063	1

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 16
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	4
Fine GRAVEL	1
Coarse SAND	5
Medium SAND	52
Fine SAND	37
Silt & Clay	1

Grading Analysis	
D100	14
D60	0.281
D10	0.101
Uniformity Coefficient[1]	3

Description
Light brown, slightly gravelly, fine and medium SAND. Gravel is sub-angular to sub-rounded, fine and medium flint.

S

Test Code = 612

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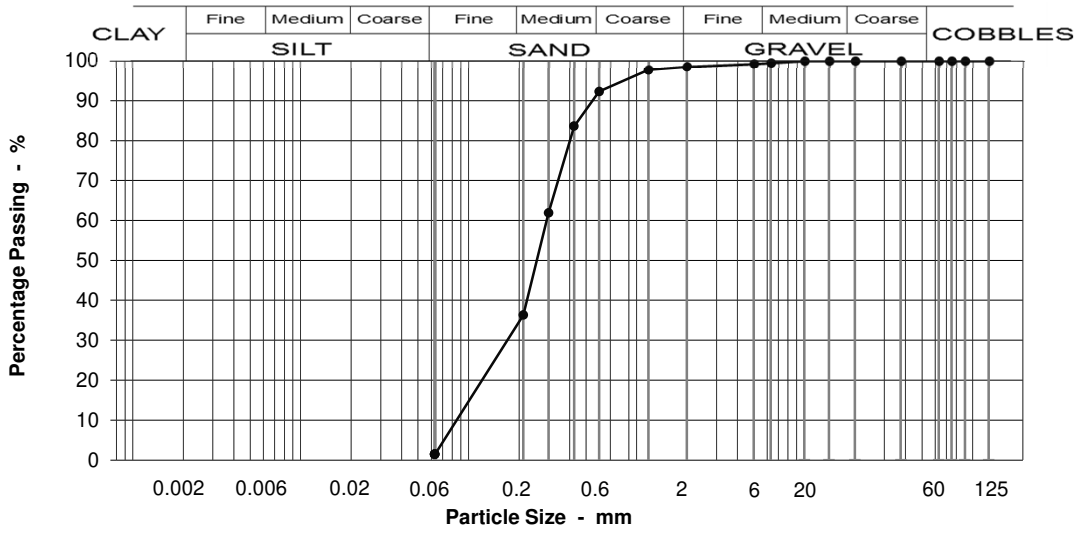
Our reference No. 0000-BH09-B16-612
Our Project No. 102894
Your Sample Ref. 16
Your Order No. 708523
Date Tested 03/05/2022
Date Report Issued 24 May 2022

Particle Size Distribution to BS 1377 : Part 2 :1990 Section 9 (Withdrawn)

Scheme: Sheringham HWRC
Location and orientation within sample not applicable

Location: BH09 @ 8 - 8.5m
Bulk disturbed sample



If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Sieving

Particle Size mm	% Passing
125	100
90	100
75	100
63	100
37.5	100
20	100
14	100
10	100
6.3	99
5	99
2	99
1.18	98
0.600	92
0.425	84
0.300	62
0.212	36
0.063	1

Specification for Highway Works Classification

Table 6/2

This material complies with the following material classes 1B, 6E/6R, 6M.

Please be aware that we only report compliance with specifications using 'simple acceptance' as a guide as the specifications for the material as well as the methodology for testing are well established and take into account uncertainty in their formulation.

Moisture content % 24
(BS1377-Part 2, 1990)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	0
Medium GRAVEL	1
Fine GRAVEL	1
Coarse SAND	6
Medium SAND	56
Fine SAND	35
Silt & Clay	1

Grading Analysis	
D100	6
D60	0.29
D10	0.10
Uniformity Coefficient[1]	3

Description
Red, fine to medium SAND.

S

Test Code = 612

UKAS TESTING 0920

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Our Project No	102894
Our Report and sample No	NNPL202204085-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	24 May 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP01 @ 0.7m Specimen: 1		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	17.545kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Orangey-brown, fine to medium SAND.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	0.0 **%**	**Retained 20mm**	0.0 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	1
Number of layers	3	**Bulk Density**	1.72 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.66 Mg/m³
Condition	Unsoaked	**Init. Moisture Content**	3.7 **%**

Test Results

	CBR Value	Surface Modulus $
	%	Mpa
Top	**14**	>85
Bottom	**16**	>85
Mean Value	**15**	>85

$ The calculation of Surface Modulus is not covered by UKAS accreditation

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**3.5**	**Moisture Cont. Bottom**	%	**3.3**

Remarks

Test Code =644

UKAS TESTING 0920

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Our Project No	102894
Our Report and sample No	NNPL202204088-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	13 May 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP02 @ 0.7m Specimen: 1		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	25.82kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Yellowish brown, medium SAND.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	0.0 **%**	**Retained 20mm**	0.0 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	1
Number of layers	3	**Bulk Density**	1.89 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.80 Mg/m³
Condition	Unsoaked	**Init. Moisture Content**	4.7 **%**

Test Results

	CBR Value	Surface Modulus $	
	%	Mpa	
Top	**18**	>85	$ The calculation of Surface Modulus is not covered by UKAS accreditation
Bottom	**22**	>85	

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**4.7**	**Moisture Cont. Bottom**	%	**4.7**

Remarks

Test Code =644

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Our Project No	102894
Our Report and sample No	NNPL2022040812-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	26 April 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP03 @ 0.6m Specimen: 2		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	20.01kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Orangish brown, gravelly, sandy, CLAY. Gravel is angular to subrounded fine flint.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	0.0 **%**	**Retained 20mm**	1.1 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	2
Number of layers	3	**Bulk Density**	2.15 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.82 Mg/m³
Condition	Soaked	**Init. Moisture Content**	18 **%**

Test Results

	CBR Value	Surface Modulus $
	%	Mpa
Top	**1.7**	<25
Bottom	**1.5**	<25
Mean Value	**1.6**	<25

$ The calculation of Surface Modulus is not covered by UKAS accreditation

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**18**	**Moisture Cont. Bottom**	%	**18**

Remarks

Test Code =644

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Our Project No	102894
Our Report and sample No	NNPL2022040815-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	17 May 2022
Date Tested	26 April 2022

Determination of the California Bearing Ratio to BS 1377 : PART 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP04 @ 0.7m Specimen: 2		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	22.86kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Light brown, sandy SILT.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	0.0 **%**	**Retained 20mm**	0.0 **%**
BS Method	3.4, 2.5kg Rammer	**Bulk Density**	2.19 Mg/m³
Number of layers	3	**Dry Density**	1.94 Mg/m³
Blows per layer	62 Blows	**Init. Moisture Content**	14 **%**
Condition	Soaked		

Test Results

	CBR Value	Surface Modulus $
	%	Mpa
Top	**4.3**	45
Bottom	**5.7**	54

$ The calculation of Surface Modulus is not covered by UKAS accreditation

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**13**	**Moisture Cont. Bottom**	%	**13**

Remarks

Test Code =644

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Our Project No	102894
Our Report and sample No	NNPL2022040819-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	24 May 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP05 @ 0.7m Specimen: 1		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	21.215kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Orange, very gravelly, medium SAND. Gravel is angular to sub-rounded, fine to medium flint.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	4.8 **%**	**Retained 20mm**	6.7 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	4
Number of layers	3	**Bulk Density**	1.83 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.78 Mg/m³
Condition	Unsoaked	**Init. Moisture Content**	3.0 **%**

Test Results

	CBR Value	Surface Modulus $
	%	Mpa
Top	**10.0**	77
Bottom	**15**	>85

$ The calculation of Surface Modulus is not covered by UKAS accreditation

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**2.9**	**Moisture Cont. Bottom**	%	**2.9**

Remarks

Test Code =644

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Our Project No	102894
Our Report and sample No	NNPL2022040823-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	24 May 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP06 @ 0.7m Specimen: 1		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	19.035kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Orange, silty fine to medium SAND.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	0.0 **%**	**Retained 20mm**	0.0 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	1
Number of layers	3	**Bulk Density**	1.73 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.65 Mg/m³
Condition	Unsoaked	**Init. Moisture Content**	5.5 **%**

Test Results

	CBR Value	Surface Modulus $	
	%	Mpa	
Top	**13**	>85	$ The calculation of Surface Modulus is not covered by UKAS accreditation
Bottom	**19**	>85	

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**4.9**	**Moisture Cont. Bottom**	%	**4.9**

Remarks

Test Code =644

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Our Project No	102894
Our Report and sample No	NNPL2022040826-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	13 May 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP07 @ 0.6m Specimen: 1		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	18.925kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Orange, fine to medium SAND.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	0.0 **%**	**Retained 20mm**	0.0 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	1
Number of layers	3	**Bulk Density**	1.79 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.71 Mg/m³
Condition	Unsoaked	**Init. Moisture Content**	4.5 **%**

Test Results

	CBR Value	Surface Modulus $	
	%	Mpa	
Top	**13**	>85	$ The calculation of Surface Modulus is not covered by UKAS accreditation
Bottom	**16**	>85	

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**4.5**	**Moisture Cont. Bottom**	%	**4.6**

Remarks

Test Code =644

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Our Project No	102894
Our Report and sample No	NNPL2022040830-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	01 June 2022
Date Tested	24 May 2022

Determination of the California Bearing Ratio to BS 1377 : Part 4 : 1990 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP08 @ 0.7m Specimen: 1		
Date sampled	05 April 2022	**Date received**	05 April 2022
Sampled by	KN (NPL Staff)	**Sample Mass**	21.535kg

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Material	Soil	**Sample type**	Bulk Disturbed
Description	Orangey-brown, fine to medium SAND.		
Supplier	Not applicable	**Source**	Ex site

Test Specimen Preparation details

Location	Not applicable	**Method of Division**	Quartering
Orientation	Not applicable	**Preparation Method**	Sieving, Natural Moisture Content
Retained 37.5mm	4.0 **%**	**Retained 20mm**	4.9 **%**
BS Method	3.4, 2.5kg Rammer	**Grading zone**	4
Number of layers	3	**Bulk Density**	1.89 Mg/m³
Blows per layer	62 Blows	**Dry Density**	1.79 Mg/m³
Condition	Unsoaked	**Init. Moisture Content**	6.0 **%**

Test Results

	CBR Value	Surface Modulus $	
	%	Mpa	
Top	**24**	>85	$ The calculation of Surface Modulus is not covered by UKAS accreditation
Bottom	**34**	>85	

Moisture Content Method		Oven dried @ 105-110°C			
Moisture Content Top	%	**5.5**	**Moisture Cont. Bottom**	%	**5.4**

Remarks

Test Code =644

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Our Project No	102894
Our Report No. No	04086-
Your Sample Ref	B3
Your Project or Order No	708523
Date Report Issued	09 Jun 2022

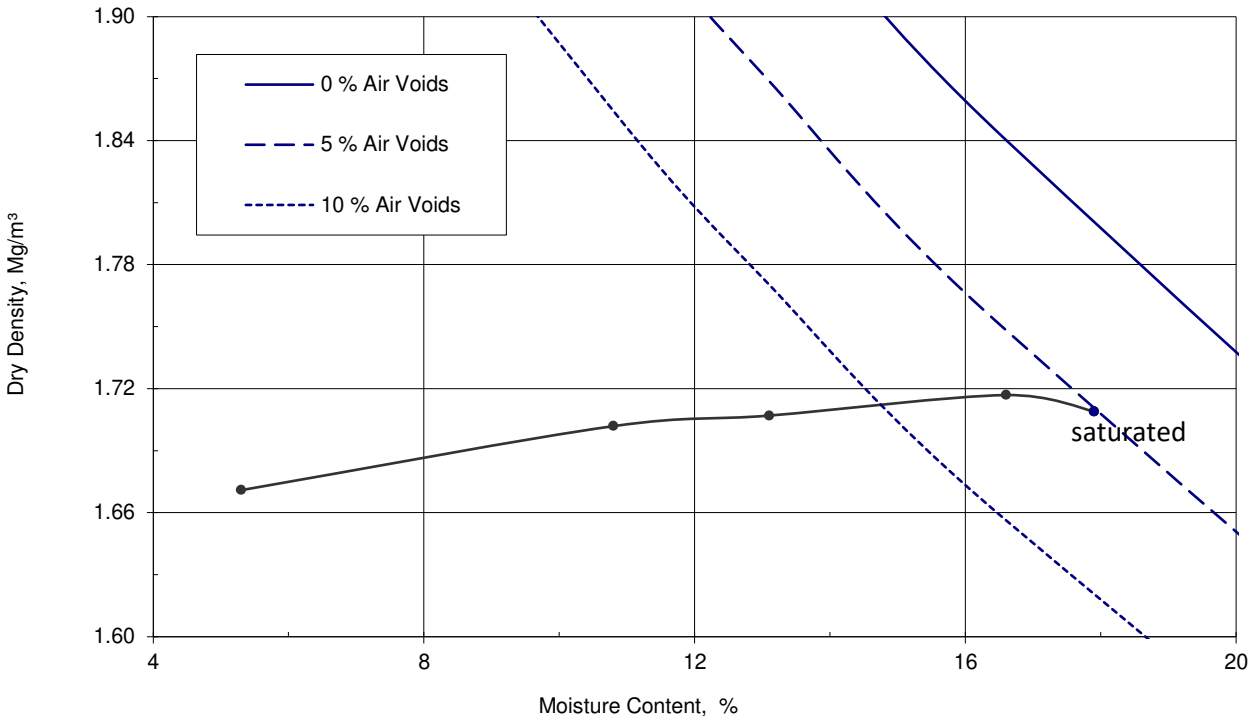
Determination of Dry Density/Moisture Content Relationship to BS 1377- 4 : 1990 : Section 3 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP01	**Depth**	1.8m
Date received	05 April 2022	**Date tested**	09 May 2022
Sample type	Bulk Disturbed	**Sample Mass**	12kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)
Grading zone	1		

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Orangey-brown, fine to medium SAND.

Supplier NCC **Source** Ex site



Method of division	**Quartering**	**Retained on 37.5 mm Sieve**	%	**0.0**
Preparation	**Natural**	**Retained on 20.0 mm Sieve**	%	**0.0**
Test Method	**3.3 2.5kg**	**Particle Density (Assumed)**	Mg/m³	**2.65**
Mould Type	**1 litre**	**Maximum Dry Density**	Mg/m³	**1.72**
Samples Used	**Separate**	**Optimum Moisture Content**	%	**16.6**

Remarks

Test Code = 640

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0920

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Our Project No	102894
Our Report No. No	04088-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	26 Apr 2022

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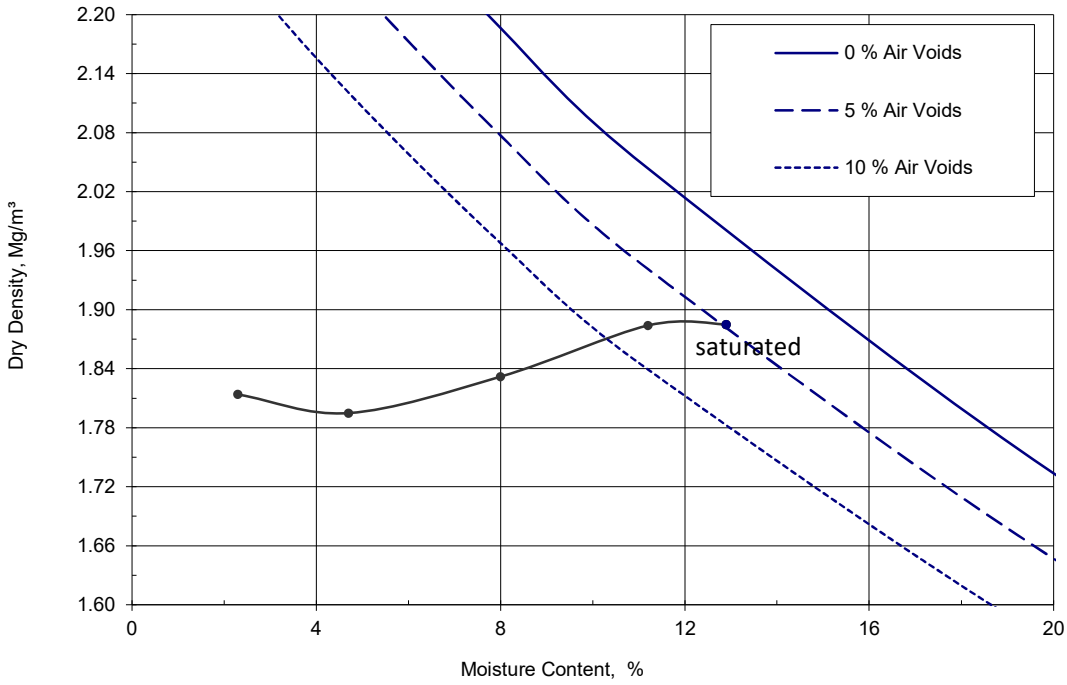
Determination of Dry Density/Moisture Content Relationship to BS 1377 : Part 4 : 1990 : Section 3

Scheme	Sheringham HWRC		
Location	TP02	**Depth**	0.7m
Date received	05 April 2022	**Date tested**	22 April 2022
Sample type	Bulk Disturbed	**Sample Mass**	15kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Yellowish brown fine and medium SAND

Supplier NCC **Source** Ex site



Method of division	**Quartering**	**Retained on 37.5 mm Sieve**	%	**0.0**
Preparation	**Natural**	**Retained on 20.0 mm Sieve**	%	**0.0**
Test Method	**3.3 2.5kg**	**Particle Density (Assumed)**	Mg/m³	**2.65**
Mould Type	**1 litre**	**Maximum Dry Density**	Mg/m³	**1.89**
Samples Used	**Separate**	**Optimum Moisture Content**	%	**12.9**

Remarks

Test Code = 640

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Our Project No	102894
Our Report No. No	40812-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	09 Jun 2022

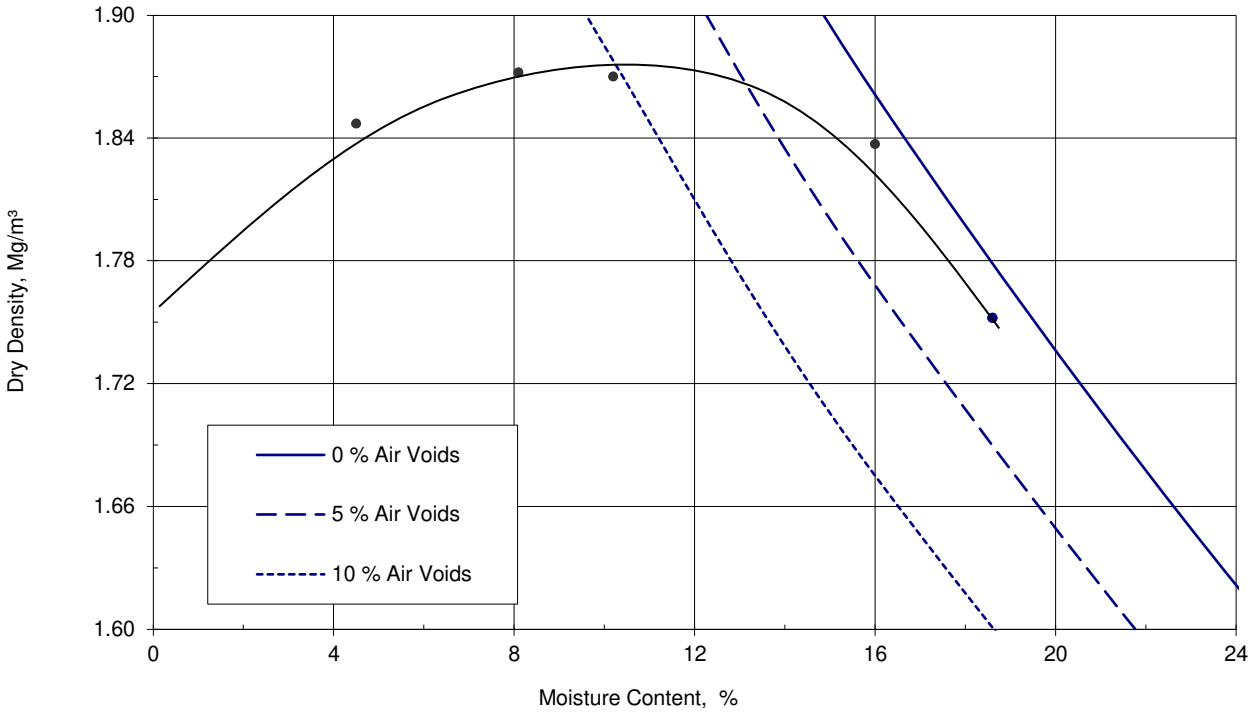
Determination of Dry Density/Moisture Content Relationship to BS 1377- 4 : 1990 : Section 3 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP03	**Depth**	0.6m
Date received	05 April 2022	**Date tested**	04 May 2022
Sample type	Bulk Disturbed	**Sample Mass**	0kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)
Grading zone	1		

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Orangish brown, gravelly, sandy, CLAY. Gravel is angular to sub-rounded fine flint.

Supplier NCC **Source** Ex site



Method of division	**Quartering**	**Retained on 37.5 mm Sieve**	%	**0.0**
Preparation	**Natural**	**Retained on 20.0 mm Sieve**	%	**0.0**
Test Method	**3.3 2.5kg**	**Particle Density (Assumed)**	Mg/m³	**2.65**
Mould Type	**1 litre**	**Maximum Dry Density**	Mg/m³	**1.87**
Samples Used	**Separate**	**Optimum Moisture Content**	%	**10.0**

Remarks

UKAS TESTING
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Test Code = 640

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Our Project No	102894
Our Report No. No	40815-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	09 Jun 2022

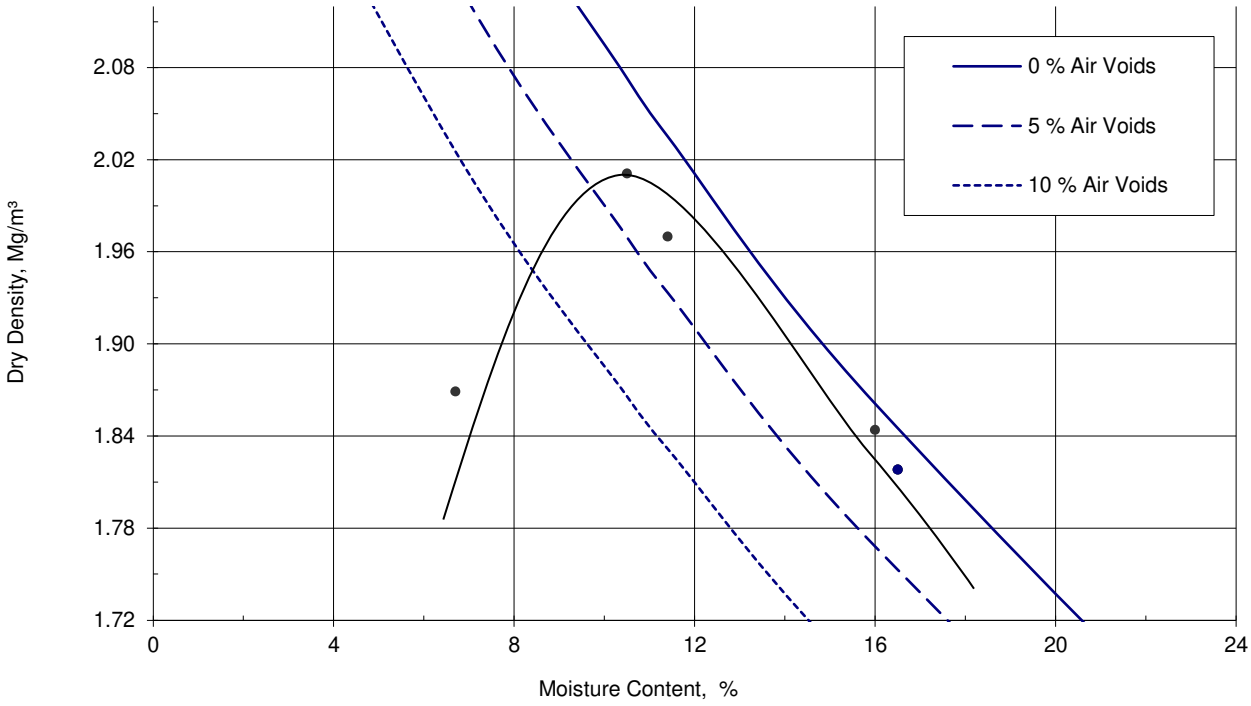
Determination of Dry Density/Moisture Content Relationship to BS 1377- 4 : 1990 : Section 3 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP04	**Depth**	0.7m
Date received	05 April 2022	**Date tested**	24 April 2022
Sample type	Bulk Disturbed	**Sample Mass**	15kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)
Grading zone	1		

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Light brown, slightly gravelly very sandy, silty CLAY. Gravel is angular to sub-rounded fine flint and quartz.

Supplier NCC **Source** Ex site



Method of division	Quartering	**Retained on 37.5 mm Sieve**	%	0.0
Preparation	Natural	**Retained on 20.0 mm Sieve**	%	0.0
Test Method	3.3 2.5kg	**Particle Density (Assumed)**	Mg/m³	2.65
Mould Type	1 litre	**Maximum Dry Density**	Mg/m³	2.01
Samples Used	Separate	**Optimum Moisture Content**	%	10.5

Remarks

Test Code = 640

UKAS TESTING
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Our Project No	102894
Our Report No. No	40820-
Your Sample Ref	B3
Your Project or Order No	708523
Date Report Issued	09 Jun 2022

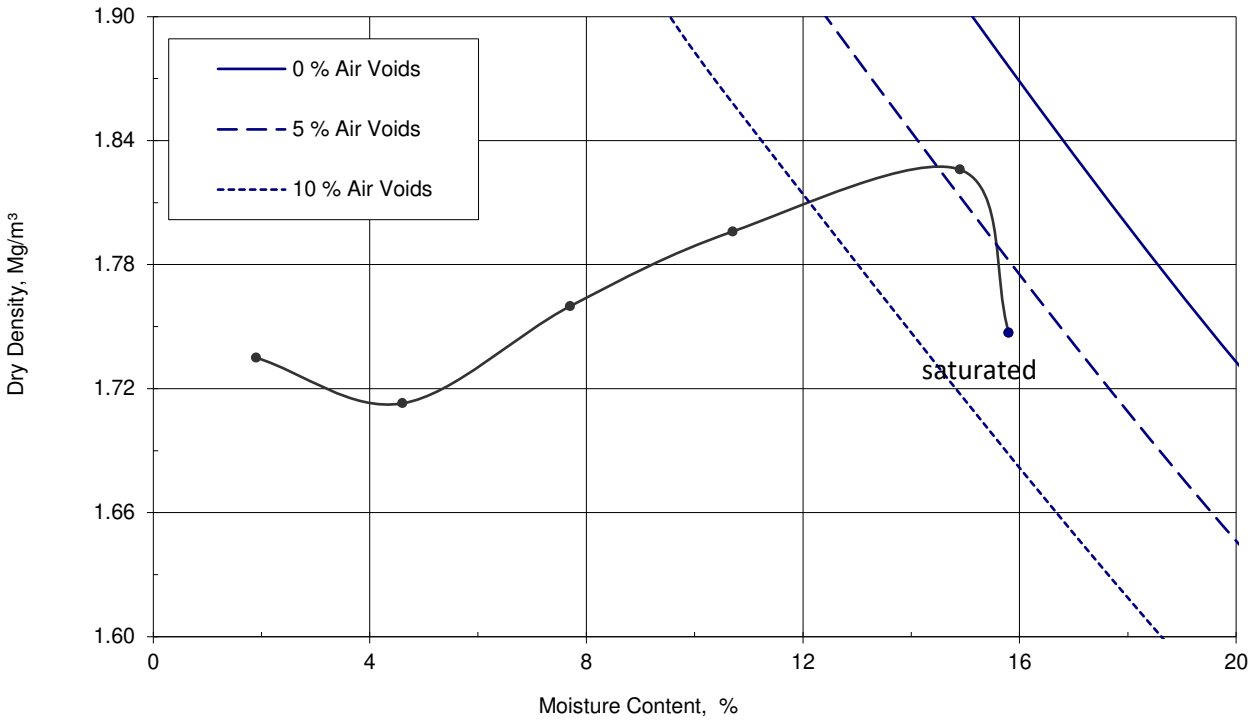
Determination of Dry Density/Moisture Content Relationship to BS 1377- 4 : 1990 : Section 3 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP05	**Depth**	1.7m
Date received	05 April 2022	**Date tested**	
Sample type	Bulk Disturbed	**Sample Mass**	0kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)
Grading zone	1		

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Yellowish-brown, slightly gravelly, fine to medium SAND. Gravel is angular to sub-rounded, fine to medium flint.

Supplier NCC **Source** Ex site



Method of division	**Quartering**	**Retained on 37.5 mm Sieve**	%	**0.0**
Preparation	**Natural**	**Retained on 20.0 mm Sieve**	%	**0.0**
Test Method	**3.3 2.5kg**	**Particle Density (Assumed)**	Mg/m³	**2.65**
Mould Type	**1 litre**	**Maximum Dry Density**	Mg/m³	**1.83**
Samples Used	**Separate**	**Optimum Moisture Content**	%	**15.8**

Remarks

Test Code = 640

UKAS TESTING
0920

Simon Holden (Operations Manager)

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Our Project No	102894
Our Report No. No	40823-
Your Sample Ref	B2
Your Project or Order No	708523
Date Report Issued	26 Apr 2022

nicola.young@norfolk.gov.uk

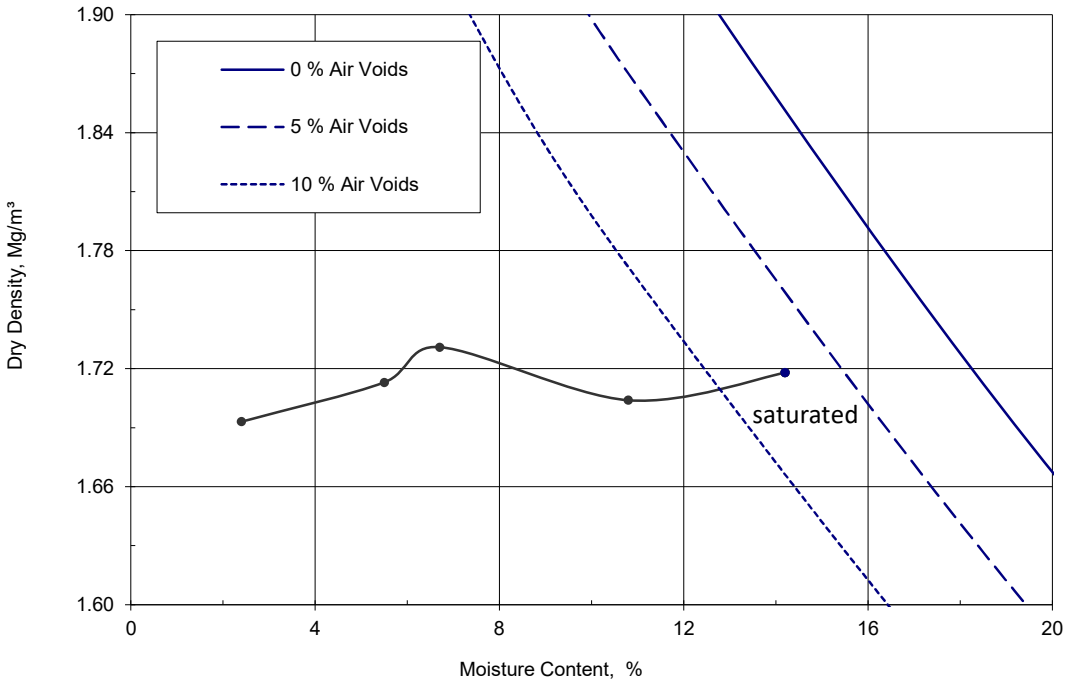
Determination of Dry Density/Moisture Content Relationship to BS 1377 : Part 4 : 1990 : Section 3

Scheme	Sheringham HWRC		
Location	TP06	**Depth**	0.7m
Date received	05 April 2022	**Date tested**	22 April 2022
Sample type	Bulk Disturbed	**Sample Mass**	15kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Orange slightly gravelly fine to coarse SAND. Gravel is angular to rounded fine to coarse flint.

Supplier NCC **Source** Ex site



Method of division	**Quartering**	**Retained on 37.5 mm Sieve**	%	**0.0**
Preparation	**Natural**	**Retained on 20.0 mm Sieve**	%	**0.5**
Test Method	**3.3 2.5kg**	**Particle Density (Assumed)**	Mg/m³	**2.60**
Mould Type	**1 litre**	**Maximum Dry Density**	Mg/m³	**1.73**
Samples Used	**Separate**	**Optimum Moisture Content**	%	**6.7**

Remarks

Test Code = 640

UKAS TESTING 0920

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Our Project No	102894
Our Report No. No	40827-
Your Sample Ref	B3
Your Project or Order No	708523
Date Report Issued	09 Jun 2022

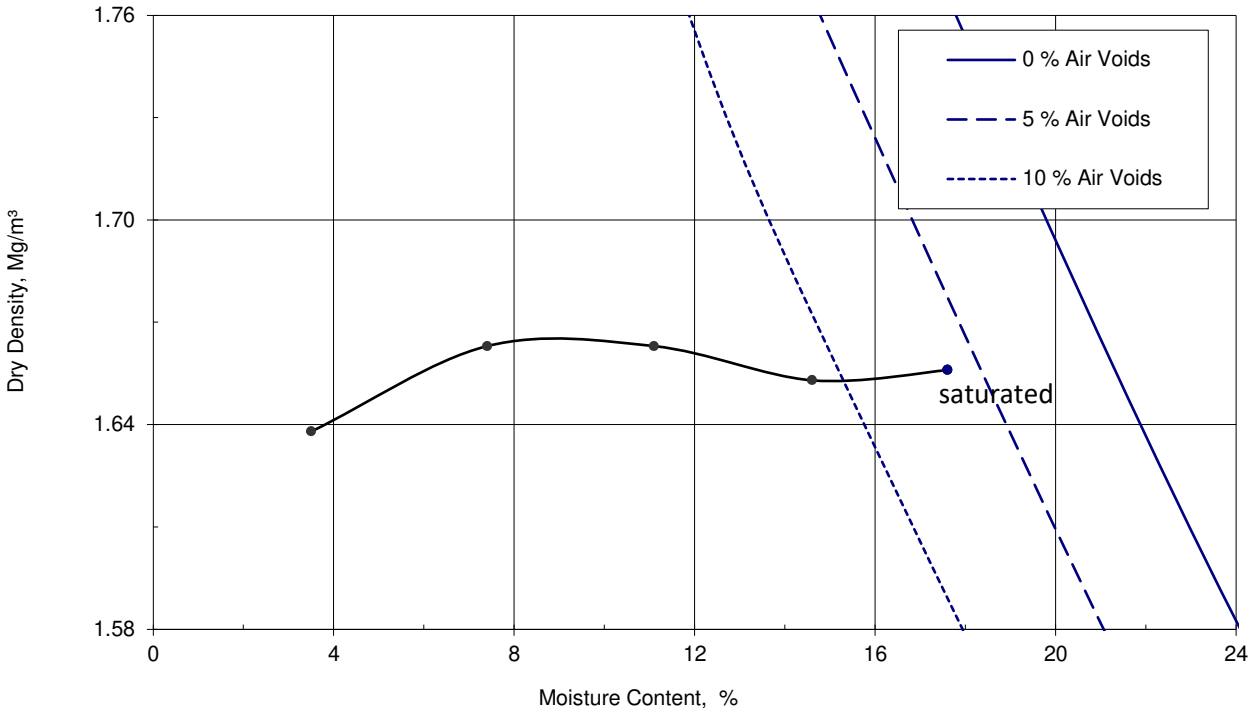
Determination of Dry Density/Moisture Content Relationship to BS 1377- 4 : 1990 : Section 3 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP07	**Depth**	1.7m
Date received	05 April 2022	**Date tested**	04 May 2022
Sample type	Bulk Disturbed	**Sample Mass**	13kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)
Grading zone	1		

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Yellowish-brown slightly gravelly fine to coarse SAND. Gravel is angular to sub-rounded fine and medium flint.

Supplier NCC **Source** Ex site



Method of division	**Quartering**	**Retained on 37.5 mm Sieve**	%	**0.0**
Preparation	**Natural**	**Retained on 20.0 mm Sieve**	%	**0.0**
Test Method	**3.3 2.5kg**	**Particle Density (Assumed)**	Mg/m³	**2.65**
Mould Type	**1 litre**	**Maximum Dry Density**	Mg/m³	**1.66**
Samples Used	**Separate**	**Optimum Moisture Content**	%	**7.4**

Remarks

UKAS TESTING
0920

Test Code = 640

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Our Project No	102894
Our Report No. No	40831-
Your Sample Ref	B3
Your Project or Order No	708523
Date Report Issued	09 Jun 2022

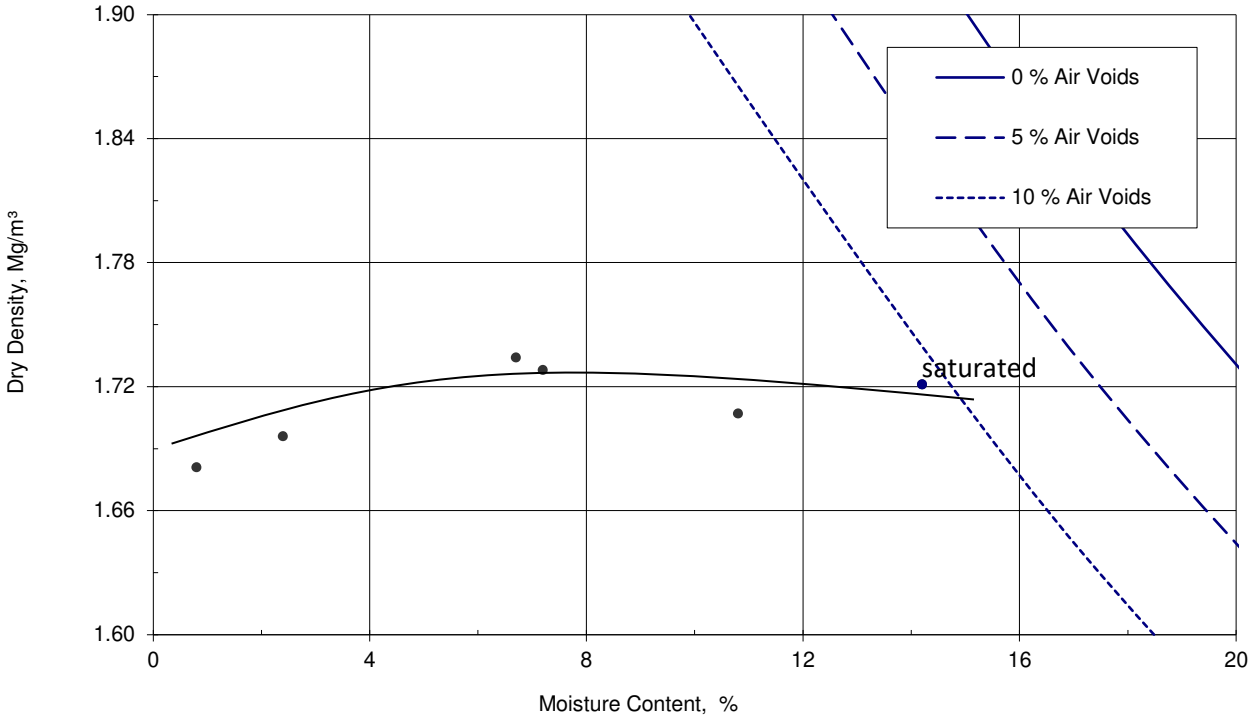
Determination of Dry Density/Moisture Content Relationship to BS 1377- 4 : 1990 : Section 3 (Withdrawn)

Scheme	Sheringham HWRC		
Location	TP08	**Depth**	1.7m
Date received	05 April 2022	**Date tested**	13 May 2022
Sample type	Bulk Disturbed	**Sample Mass**	11kg
Date Sampled	05 April 2022	**Sampled by**	KN (NPL Staff)
Grading zone	2		

If a sample certificate was provided, it is available for inspection. The accuracy of any information provided by third parties cannot be guaranteed. These results only relate to the sample tested.

Description Orangey-brown slightly gravelly fine and medium SAND. Gravel is angular to sub-angular fine and medium flint.

Supplier NCC **Source** Ex site



Method of division	Quartering	**Retained on 37.5 mm Sieve**	%	0.0
Preparation	Natural	**Retained on 20.0 mm Sieve**	%	1.3
Test Method	3.3 2.5kg	**Particle Density (Assumed)**	Mg/m³	2.65
Mould Type	1 litre	**Maximum Dry Density**	Mg/m³	1.73
Samples Used	Separate	**Optimum Moisture Content**	%	6.7

Remarks

Test Code = 640

UKAS TESTING
0920

Simon Holden (Operations Manager)

Appendix G

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

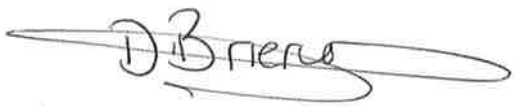
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 22/03570
Issue Number: 1 **Date:** 25 April, 2022

Client: Norse Eastern Ltd t/a Norse Highways
280 Fifers Lane
Norwich
Norfolk
NR6 6EQ

Project Manager: Josh Thompson/Sharon Woods; Simon Holden
Project Name: Sheringham HWRC
Project Ref: 102894
Order No: PN05037679
Date Samples Received: 12/04/22
Date Instructions Received: 12/04/22
Date Analysis Completed: 25/04/22

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/1	22/03570/2	22/03570/3	22/03570/4	22/03570/5	22/03570/6	22/03570/7	Units	Limit of Detection	Method ref
Client Sample No	1	2	1	3	1	2	1			
Client Sample ID	TP01	TP01	TP02	TP02	TP03	TP03	TP04			
Depth to Top	0.10	0.70	0.10	1.40	0.10	0.60	0.10			
Depth To Bottom										
Date Sampled	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22			
Sample Type	Soil - ES	Soil - B	Soil - ES	Soil - B	Soil - ES	Soil - B	Soil - ES			
Sample Matrix Code	6AE	1	6A	1A	6A	6	6AE			
% Stones >10mm$_A$	<0.1	<0.1	10.7	<0.1	3.8	<0.1	<0.1	% w/w	0.1	A-T-044
Asbestos in soil$_D$$^{\#}$	NAD	-	NAD	-	-	NAD	NAD			A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	-	N/A	-	-	N/A	N/A			A-T-045
pH$_D$$^{M\#}$	7.65	-	7.69	-	-	8.11	7.37	pH	0.01	A-T-031s
pH BRE$_D$$^{M\#}$	-	8.18	-	8.14	7.74	-	-	pH	0.01	A-T-031s
Ammonium NH4 BRE (water sol 2:1)$_D$	-	<1.00	-	<1.00	1.25	-	-	mg/l	1	A-T-033s
Chloride BRE, SO4 equiv. (water sol 2:1)$_D$$^{M\#}$	-	<7	-	<7	<7	-	-	mg/l	7	A-T-026s
Nitrate BRE, SO4 equiv. (water sol 2:1)$_D$	-	<0.4	-	0.8	13.3	-	-	mg/l	0.4	A-T-026s
Sulphate (water sol 2:1)$_D$$^{M\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	g/l	0.01	A-T-026s
Sulphate BRE (water sol 2:1)$_D$$^{M\#}$	-	<10	-	<10	<10	-	-	mg/l	10	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	230	-	<200	-	-	<200	280	mg/kg	200	A-T-028s
Sulphate BRE (acid sol)$_D$$^{M\#}$	-	<0.02	-	<0.02	0.03	-	-	% w/w	0.02	A-T-028s
Sulphur BRE (total)$_D$	-	<0.01	-	<0.01	0.02	-	-	% w/w	0.01	A-T-024s
Magnesium BRE (water sol 2:1)$_D$	-	2	-	2	13	-	-	mg/l	1	A-T-SOLMETS
Cyanide (total)$_A$$^{M\#}$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	-	<0.2	-	-	<0.2	<0.2	mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	-	<5	-	-	<5	<5	mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	-	<5	-	-	<5	<5	mg/kg	5	A-T-029s
Organic matter Default$_D$$^{M\#}$	1.3	-	1.0	-	-	0.5	1.8	% w/w	0.1	A-T-032 OM
Arsenic$_D$$^{M\#}$	3	-	3	-	-	3	4	mg/kg	1	A-T-024s
Boron (water soluble)$_D$	<1.0	-	<1.0	-	-	<1.0	<1.0	mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	<0.5	-	<0.5	-	-	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	9	-	5	-	-	5	12	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	9	-	7	-	-	13	9	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-040s
Lead$_D$$^{M\#}$	14	-	11	-	-	9	19	mg/kg	1	A-T-024s
Mercury$_D$	<0.17	-	<0.17	-	-	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	5	-	4	-	-	8	6	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	35	-	23	-	-	32	42	mg/kg	5	A-T-024s

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/1	22/03570/2	22/03570/3	22/03570/4	22/03570/5	22/03570/6	22/03570/7	Units	Limit of Detection	Method ref
Client Sample No	1	2	1	3	1	2	1			
Client Sample ID	TP01	TP01	TP02	TP02	TP03	TP03	TP04			
Depth to Top	0.10	0.70	0.10	1.40	0.10	0.60	0.10			
Depth To Bottom										
Date Sampled	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22			
Sample Type	Soil - ES	Soil - B	Soil - ES	Soil - B	Soil - ES	Soil - B	Soil - ES			
Sample Matrix Code	6AE	1	6A	1A	6A	6	6AE			
PAH-16MS										
Acenaphthene$_A^{M\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	-	<0.01	-	-	<0.01	0.02	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	-	<0.02	-	-	<0.02	0.04	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	-	0.12	-	-	<0.04	0.19	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	-	0.14	-	-	<0.04	0.25	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	-	0.17	-	-	<0.05	0.32	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	-	0.08	-	-	<0.05	0.14	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	-	<0.07	-	-	<0.07	0.13	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	-	0.15	-	-	<0.06	0.25	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	-	<0.04	-	-	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	-	0.27	-	-	<0.08	0.42	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	-	0.09	-	-	<0.03	0.15	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	-	<0.03	-	-	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	-	0.09	-	-	<0.03	0.14	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	-	0.23	-	-	<0.07	0.35	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A^{M\#}$	<0.08	-	1.34	-	-	<0.08	2.40	mg/kg	0.01	A-T-019s

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/1	22/03570/2	22/03570/3	22/03570/4	22/03570/5	22/03570/6	22/03570/7	Units	Limit of Detection	Method ref
Client Sample No	1	2	1	3	1	2	1			
Client Sample ID	TP01	TP01	TP02	TP02	TP03	TP03	TP04			
Depth to Top	0.10	0.70	0.10	1.40	0.10	0.60	0.10			
Depth To Bottom										
Date Sampled	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22			
Sample Type	Soil - ES	Soil - B	Soil - ES	Soil - B	Soil - ES	Soil - B	Soil - ES			
Sample Matrix Code	6AE	1	6A	1A	6A	6	6AE			
TPH UKCWG with Clean Up *C1										
Ali >C5-C6$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	6	-	2	-	-	<1	7	mg/kg	1	A-T-055s
Ali >C35-C44$_A$	<1	-	<1	-	-	<1	1	mg/kg	1	A-T-055s
Total Aliphatics$_A$	6	-	2	-	-	<1	8	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	-	<1	-	-	<1	7	mg/kg	1	A-T-055s
Aro >C21-C35$_A$	<1	-	4	-	-	<1	27	mg/kg	1	A-T-055s
Aro >C35-C44$_A$	<1	-	<1	-	-	<1	<1	mg/kg	1	A-T-055s
Total Aromatics$_A$	<1	-	4	-	-	<1	34	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C44)$_A$	6	-	6	-	-	<1	42	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/8	22/03570/9	22/03570/10	22/03570/11	22/03570/12	22/03570/13	22/03570/14	Units	Limit of Detection	Method ref
Client Sample No	2	1	2	3	1	2	1			
Client Sample ID	TP04	TP05	TP06	TP06	TP07	TP07	TP08			
Depth to Top	0.70	0.10	0.70	2.40	0.10	0.60	0.10			
Depth To Bottom										
Date Sampled	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22			
Sample Type	Soil - B	Soil - ES	Soil - B	Soil - B	Soil - ES	Soil - B	Soil - ES			
Sample Matrix Code	6A	6AE	1	1A	6AE	1	6AE			
% Stones >10mm$_A$	<0.1	7.6	<0.1	<0.1	9.2	<0.1	8.9	% w/w	0.1	A-T-044
Asbestos in soil$_D^{\#}$	-	NAD	NAD	-	NAD	-	NAD			A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	-	N/A	N/A	-	N/A	-	N/A			A-T-045
pH$_D^{M\#}$	-	7.20	8.08	-	7.41	-	7.73	pH	0.01	A-T-031s
pH BRE$_D^{M\#}$	8.11	-	-	8.21	-	7.96	-	pH	0.01	A-T-031s
Ammonium NH4 BRE (water sol 2:1)$_D$	<1.00	-	-	1.27	-	1.17	-	mg/l	1	A-T-033s
Chloride BRE, SO4 equiv. (water sol 2:1)$_D^{M\#}$	<7	-	-	<7	-	<7	-	mg/l	7	A-T-026s
Nitrate BRE, SO4 equiv. (water sol 2:1)$_D$	1.5	-	-	0.4	-	<0.4	-	mg/l	0.4	A-T-026s
Sulphate (water sol 2:1)$_D^{M\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	g/l	0.01	A-T-026s
Sulphate BRE (water sol 2:1)$_D^{M\#}$	<10	-	-	<10	-	<10	-	mg/l	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	<200	<200	-	<200	-	200	mg/kg	200	A-T-028s
Sulphate BRE (acid sol)$_D^{M\#}$	<0.02	-	-	<0.02	-	<0.02	-	% w/w	0.02	A-T-028s
Sulphur BRE (total)$_D$	<0.01	-	-	<0.01	-	<0.01	-	% w/w	0.01	A-T-024s
Magnesium BRE (water sol 2:1)$_D$	8	-	-	2	-	6	-	mg/l	1	A-T-SOLMETS
Cyanide (total)$_A^{M\#}$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	0.2	A-T-050s
Sulphide$_A$	-	<5	<5	-	10	-	95	mg/kg	5	A-T-043-s
Sulphur (elemental)$_D^{M\#}$	-	<5	<5	-	<5	-	<5	mg/kg	5	A-T-029s
Organic matter Default$_D^{M\#}$	-	1.0	<0.1	-	1.2	-	0.9	% w/w	0.1	A-T-032 OM
Arsenic$_D^{M\#}$	-	4	5	-	4	-	4	mg/kg	1	A-T-024s
Boron (water soluble)$_D$	-	<1.0	<1.0	-	<1.0	-	<1.0	mg/kg	1	A-T-027s
Cadmium$_D^{M\#}$	-	<0.5	<0.5	-	<0.5	-	<0.5	mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	-	10	2	-	9	-	8	mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	-	6	4	-	7	-	6	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-040s
Lead$_D^{M\#}$	-	12	2	-	12	-	13	mg/kg	1	A-T-024s
Mercury$_D$	-	<0.17	<0.17	-	<0.17	-	<0.17	mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	-	4	4	-	5	-	5	mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	-	31	9	-	31	-	26	mg/kg	5	A-T-024s

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/8	22/03570/9	22/03570/10	22/03570/11	22/03570/12	22/03570/13	22/03570/14	Units	Limit of Detection	Method ref
Client Sample No	2	1	2	3	1	2	1			
Client Sample ID	TP04	TP05	TP06	TP06	TP07	TP07	TP08			
Depth to Top	0.70	0.10	0.70	2.40	0.10	0.60	0.10			
Depth To Bottom										
Date Sampled	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22			
Sample Type	Soil - B	Soil - ES	Soil - B	Soil - B	Soil - ES	Soil - B	Soil - ES			
Sample Matrix Code	6A	6AE	1	1A	6AE	1	6AE			
PAH-16MS										
Acenaphthene$_A^{M\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	-	<0.02	<0.02	-	<0.02	-	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	-	<0.04	<0.04	-	<0.04	-	0.05	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	-	<0.04	<0.04	-	<0.04	-	0.06	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	-	<0.05	<0.05	-	<0.05	-	0.09	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	-	<0.05	<0.05	-	<0.05	-	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	-	<0.07	<0.07	-	<0.07	-	<0.07	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	-	<0.06	<0.06	-	<0.06	-	0.07	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	-	<0.04	<0.04	-	<0.04	-	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	-	<0.08	<0.08	-	<0.08	-	0.12	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	-	<0.03	<0.03	-	<0.03	-	0.04	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	-	<0.03	<0.03	-	<0.03	-	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	-	<0.03	<0.03	-	<0.03	-	0.05	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	-	<0.07	<0.07	-	<0.07	-	0.10	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A^{M\#}$	-	<0.08	<0.08	-	<0.08	-	0.58	mg/kg	0.01	A-T-019s

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/8	22/03570/9	22/03570/10	22/03570/11	22/03570/12	22/03570/13	22/03570/14	Units	Limit of Detection	Method ref
Client Sample No	2	1	2	3	1	2	1			
Client Sample ID	TP04	TP05	TP06	TP06	TP07	TP07	TP08			
Depth to Top	0.70	0.10	0.70	2.40	0.10	0.60	0.10			
Depth To Bottom										
Date Sampled	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22			
Sample Type	Soil - B	Soil - ES	Soil - B	Soil - B	Soil - ES	Soil - B	Soil - ES			
Sample Matrix Code	6A	6AE	1	1A	6AE	1	6AE			
TPH UKCWG with Clean Up *C1										
Ali >C5-C6$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	-	3	3	-	3	-	2	mg/kg	1	A-T-055s
Ali >C35-C44$_A$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Total Aliphatics$_A$	-	3	3	-	3	-	2	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	-	<1	<1	-	<1	-	2	mg/kg	1	A-T-055s
Aro >C21-C35$_A$	-	<1	<1	-	<1	-	2	mg/kg	1	A-T-055s
Aro >C35-C44$_A$	-	<1	<1	-	<1	-	<1	mg/kg	1	A-T-055s
Total Aromatics$_A$	-	<1	<1	-	<1	-	4	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C44)$_A$	-	3	3	-	4	-	6	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	-	<0.01	<0.01	-	<0.01	-	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 22/03570

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03570/15							Units	Limit of Detection	Method ref
Client Sample No	4									
Client Sample ID	TP08									
Depth to Top	2.80									
Depth To Bottom										
Date Sampled	05-Apr-22									
Sample Type	Soil - B									
Sample Matrix Code	1A									
% Stones >10mm$_A$	<0.1							% w/w	0.1	A-T-044
pH BRE$_D$$^{M\#}$	8.13							pH	0.01	A-T-031s
Ammonium NH4 BRE (water sol 2:1)$_D$	<1.00							mg/l	1	A-T-033s
Chloride BRE, SO4 equiv. (water sol 2:1)$_D$$^{M\#}$	<7							mg/l	7	A-T-026s
Nitrate BRE, SO4 equiv. (water sol 2:1)$_D$	0.5							mg/l	0.4	A-T-026s
Sulphate BRE (water sol 2:1)$_D$$^{M\#}$	<10							mg/l	10	A-T-026s
Sulphate BRE (acid sol)$_D$$^{M\#}$	<0.02							% w/w	0.02	A-T-028s
Sulphur BRE (total)$_D$	<0.01							% w/w	0.01	A-T-024s
Magnesium BRE (water sol 2:1)$_D$	2							mg/l	1	A-T-SOLMETS

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve
EPH CWG results have humics mathematically subtracted through instrument calculation
TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

v2

Envirolab Analysis Dates

Lab Sample ID	22/03570/1	22/03570/2	22/03570/3	22/03570/4	22/03570/5	22/03570/6	22/03570/7	22/03570/8	22/03570/9	22/03570/10	22/03570/11	22/03570/12
Client Sample No	1	2	1	3	1	2	1	2	1	2	3	1
Client Sample ID/Depth	TP01 0.10m	TP01 0.70m	TP02 0.10m	TP02 1.40m	TP03 0.10m	TP03 0.60m	TP04 0.10m	TP04 0.70m	TP05 0.10m	TP06 0.70m	TP06 2.40m	TP07 0.10m
Date Sampled	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22	05/04/22
A-T-019s	20/04/2022		20/04/2022			20/04/2022	20/04/2022		20/04/2022	20/04/2022		20/04/2022
A-T-022s	21/04/2022		21/04/2022			21/04/2022	21/04/2022		21/04/2022	21/04/2022		21/04/2022
A-T-024s	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022
A-T-026s	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-027s	22/04/2022		22/04/2022			22/04/2022	22/04/2022		22/04/2022	22/04/2022		22/04/2022
A-T-028s	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022	22/04/2022
A-T-029s	21/04/2022		21/04/2022			20/04/2022	20/04/2022		21/04/2022	21/04/2022		21/04/2022
A-T-031s	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022	21/04/2022
A-T-032 OM	22/04/2022		22/04/2022			22/04/2022	22/04/2022		22/04/2022	22/04/2022		22/04/2022
A-T-033s		25/04/2022		25/04/2022	25/04/2022			25/04/2022			25/04/2022	
A-T-040s	22/04/2022		22/04/2022			22/04/2022	22/04/2022		22/04/2022	22/04/2022		22/04/2022
A-T-042sTCN	21/04/2022		21/04/2022			21/04/2022	21/04/2022		21/04/2022	21/04/2022		21/04/2022
A-T-043-s	22/04/2022		22/04/2022			22/04/2022	22/04/2022		22/04/2022	22/04/2022		22/04/2022
A-T-044	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022
A-T-045	14/04/2022		14/04/2022			14/04/2022	14/04/2022		14/04/2022	14/04/2022		14/04/2022
A-T-050s	20/04/2022		20/04/2022			20/04/2022	20/04/2022		20/04/2022	20/04/2022		20/04/2022
A-T-055s	21/04/2022		21/04/2022			21/04/2022	21/04/2022		21/04/2022	21/04/2022		21/04/2022
A-T-SOLMETS		21/04/2022		21/04/2022	21/04/2022			21/04/2022			21/04/2022	

Lab Sample ID	22/03570/13	22/03570/14	22/03570/15
Client Sample No	2	1	4
Client Sample ID/Depth	TP07 0.60m	TP08 0.10m	TP08 2.80m
Date Sampled	05/04/22	05/04/22	05/04/22
A-T-019s		20/04/2022	
A-T-022s		21/04/2022	
A-T-024s	21/04/2022	21/04/2022	21/04/2022
A-T-026s	22/04/2022	22/04/2022	25/04/2022
A-T-027s		22/04/2022	
A-T-028s	22/04/2022	22/04/2022	22/04/2022
A-T-029s		21/04/2022	
A-T-031s	21/04/2022	21/04/2022	21/04/2022
A-T-032 OM		22/04/2022	
A-T-033s	25/04/2022		25/04/2022
A-T-040s		22/04/2022	
A-T-042sTCN		21/04/2022	
A-T-043-s		22/04/2022	
A-T-044	14/04/2022	14/04/2022	14/04/2022
A-T-045		14/04/2022	
A-T-050s		20/04/2022	
A-T-055s		21/04/2022	
A-T-SOLMETS	21/04/2022		21/04/2022

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

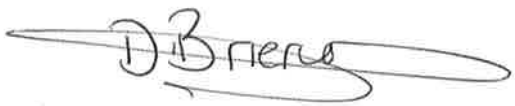
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 22/03873
Issue Number: 1 **Date:** 04 May, 2022

Client: Norse Eastern Ltd t/a Norse Highways
280 Fifers Lane
Norwich
Norfolk
NR6 6EQ

Project Manager: Civil Lab/Josh Thompson/Sharon Woods; Simon Holden
Project Name: Sheringham HWRC
Project Ref: 102894
Order No: PN05037954
Date Samples Received: 22/04/22
Date Instructions Received: 22/04/22
Date Analysis Completed: 04/05/22

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Envirolab Job Number: 22/03873

Client Project Name: Sheringham HWRC

Client Project Ref: 102894

Lab Sample ID	22/03873/1							Units	Limit of Detection	Method ref
Client Sample No	10									
Client Sample ID	09									
Depth to Top	5									
Depth To Bottom	5.5									
Date Sampled	05-Apr-22									
Sample Type	Soil - B									
Sample Matrix Code	1A									
% Stones >10mm$_A$	<0.1							% w/w	0.1	A-T-044
pH BRE$_D$$^{M\#}$	8.46							pH	0.01	A-T-031s
Ammonium NH4 BRE (water sol 2:1)$_D$	<1.00							mg/l	1	A-T-033s
Chloride BRE, SO4 equiv. (water sol 2:1)$_D$$^{M\#}$	<7							mg/l	7	A-T-026s
Nitrate BRE, SO4 equiv. (water sol 2:1)$_D$	<0.4							mg/l	0.4	A-T-026s
Sulphate BRE (water sol 2:1)$_D$$^{M\#}$	18							mg/l	10	A-T-026s
Sulphate BRE (acid sol)$_D$$^{M\#}$	<0.02							% w/w	0.02	A-T-028s
Sulphur BRE (total)$_D$	<0.01							% w/w	0.01	A-T-024s
Magnesium BRE (water sol 2:1)$_D$	<1							mg/l	1	A-T-SOLMETS

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All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.
Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve
EPH CWG results have humics mathematically subtracted through instrument calculation
TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

v2

Envirolab Analysis Dates

Lab Sample ID	22/03873/1
Client Sample No	10
Client Sample ID/Depth	09 5-5.5m
Date Sampled	05/04/22
A-T-024s	28/04/2022
A-T-026s	04/05/2022
A-T-028s	03/05/2022
A-T-031s	27/04/2022
A-T-033s	29/04/2022
A-T-044	28/04/2022
A-T-SOLMETS	03/05/2022

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Appendix H

Run 1

Results from Site Observation

Scheme:	**Sheringham**
Project No	**102894**
Trial Pit No.	7
Depth of Trial Pit (m)=	3.00
Length of Trial Pit (m)=	1.30
Breadth of Trial Pit (m)=	0.45
No of runs	3
Pipe upstand (m)	0.000

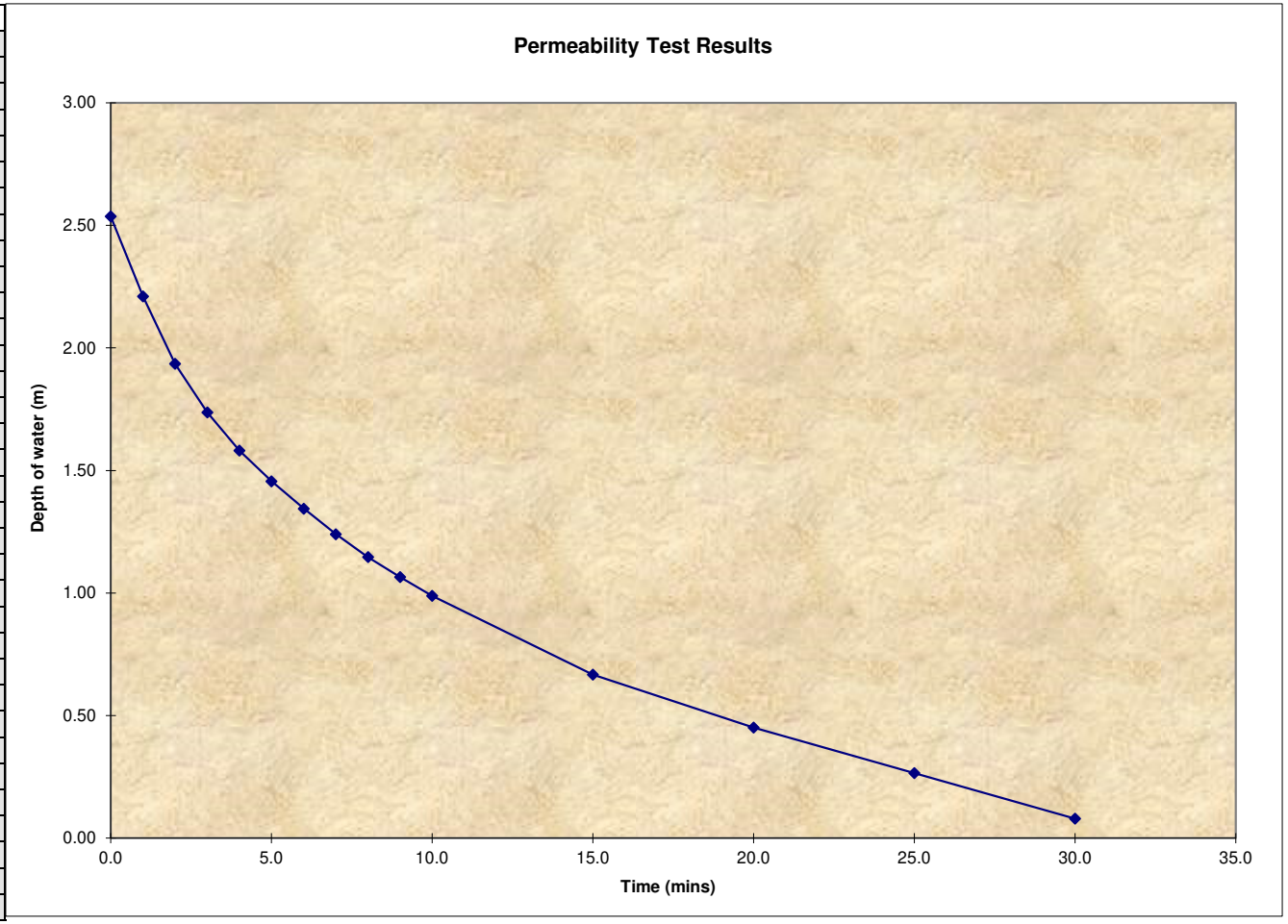
Time of Emptying of Soakaway
(Values to be checked on chart)

% Full	25% Empty	50% Empty	75% Empty
Depth of Water (m)	1.9030	1.2687	0.6343
Time (mins)	2	7	16

Gravel fill	Yes
Voids %	44.2

Infiltration Rate
8.0E-05 m/sec

Minutes	Depth of Water (m)	Depth Below E.G.L.(m)	Depth to water (m)
0.0	2.54	0.46	0.463
1.0	2.21	0.79	0.789
2.0	1.94	1.06	1.064
3.0	1.74	1.26	1.263
4.0	1.58	1.42	1.419
5.0	1.46	1.54	1.544
6.0	1.34	1.66	1.655
7.0	1.24	1.76	1.760
8.0	1.15	1.85	1.854
9.0	1.07	1.93	1.935
10.0	0.99	2.01	2.012
15.0	0.67	2.33	2.333
20.0	0.45	2.55	2.549
25.0	0.26	2.74	2.735
30.0	0.08	2.92	2.921



Run 2

Results from Site Observation

Scheme:	**Sheringham**
Project	**102894**
Trial Pit No.	7
Depth of Trial Pit (m)=	3.00
Length of Trial Pit (m)=	1.30
Breadth of Trial Pit (m)=	0.45
No of runs	3
Pipe upstand (m)	0.000

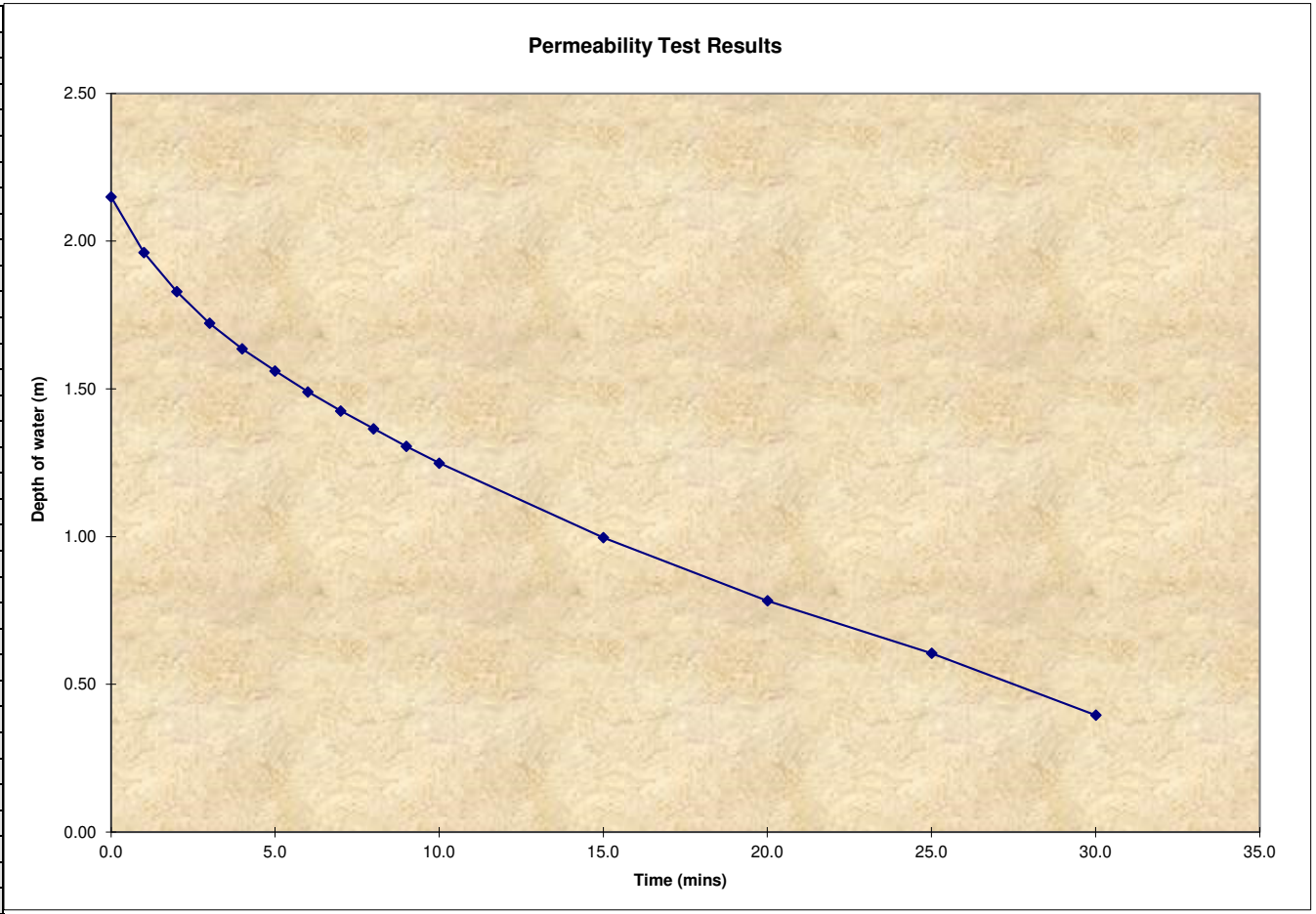
Time of Emptying of Soakaway
(Values to be checked on chart)

% Full	25% Empty	50% Empty	75% Empty
Depth of Water (m)	1.6129	1.0753	0.5376
Time (mins)	4	13	27

Gravel fill	Yes
Voids %	44.2

Infiltration Rate
4.8E-05 m/sec

Minutes	Depth of Water (m)	Depth Below E.G.L.(m)	Depth to water (m)
0.0	2.15	0.85	0.850
1.0	1.96	1.04	1.038
2.0	1.83	1.17	1.170
3.0	1.72	1.28	1.277
4.0	1.64	1.36	1.365
5.0	1.56	1.44	1.439
6.0	1.49	1.51	1.510
7.0	1.43	1.57	1.574
8.0	1.37	1.63	1.635
9.0	1.31	1.69	1.694
10.0	1.25	1.75	1.751
15.0	1.00	2.00	2.003
20.0	0.78	2.22	2.217
25.0	0.61	2.39	2.394
30.0	0.40	2.60	2.604



Run 3

Results from Site Observation

Scheme:	**Sheringham**
Project	**102894**
Trial Pit No.	7
Depth of Trial Pit (m)=	3.00
Length of Trial Pit (m)=	1.30
Breadth of Trial Pit (m)=	0.45
No of runs	3
Pipe upstand (m)	0.000

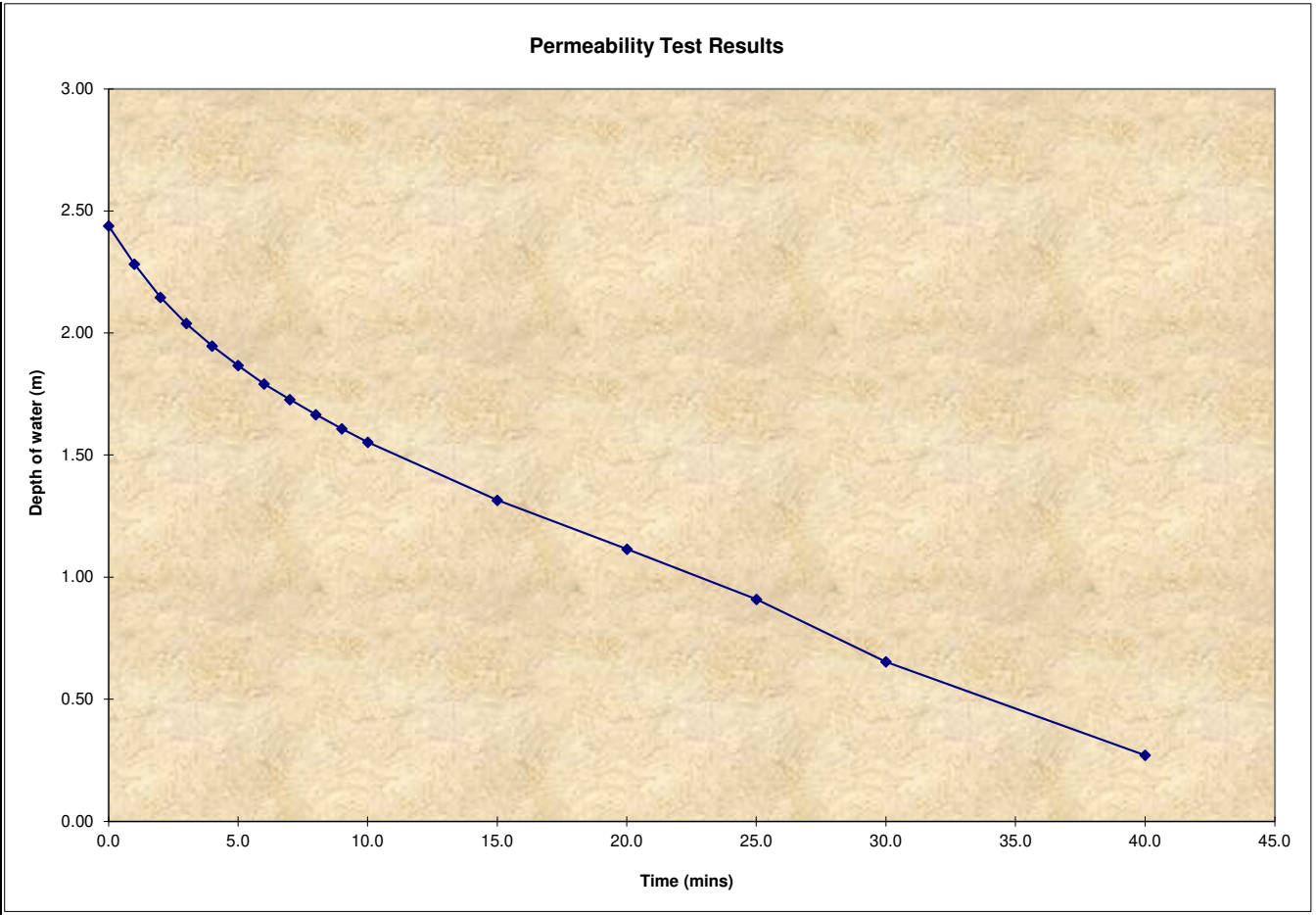
Time of Emptying of Soakaway
(Values to be checked on chart)

% Full	25% Empty	50% Empty	75% Empty
Depth of Water (m)	1.8292	1.2195	0.6097
Time (mins)	5	17	31

Gravel fill	Yes
Voids %	44.2

Infiltration Rate	Mean
4.2E-05	5.3E-05 m/sec

Minutes	Depth of Water (m)	Depth Below E.G.L.(m)	Depth to water (m)
0.0	2.44	0.56	0.561
1.0	2.28	0.72	0.718
2.0	2.15	0.85	0.854
3.0	2.04	0.96	0.961
4.0	1.95	1.05	1.053
5.0	1.87	1.13	1.134
6.0	1.79	1.21	1.208
7.0	1.73	1.27	1.273
8.0	1.67	1.33	1.335
9.0	1.61	1.39	1.392
10.0	1.55	1.45	1.447
15.0	1.32	1.68	1.685
20.0	1.11	1.89	1.885
25.0	0.91	2.09	2.091
30.0	0.65	2.35	2.347
40.0	0.27	2.73	2.730



Run 1

Results from Site Observation

Scheme:	**Sheringham**
Project No	**102894**
Trial Pit No.	8
Depth of Trial Pit (m)=	3.00
Length of Trial Pit (m)=	1.50
Breadth of Trial Pit (m)=	0.45
No of runs	3
Pipe upstand (m)	0.000

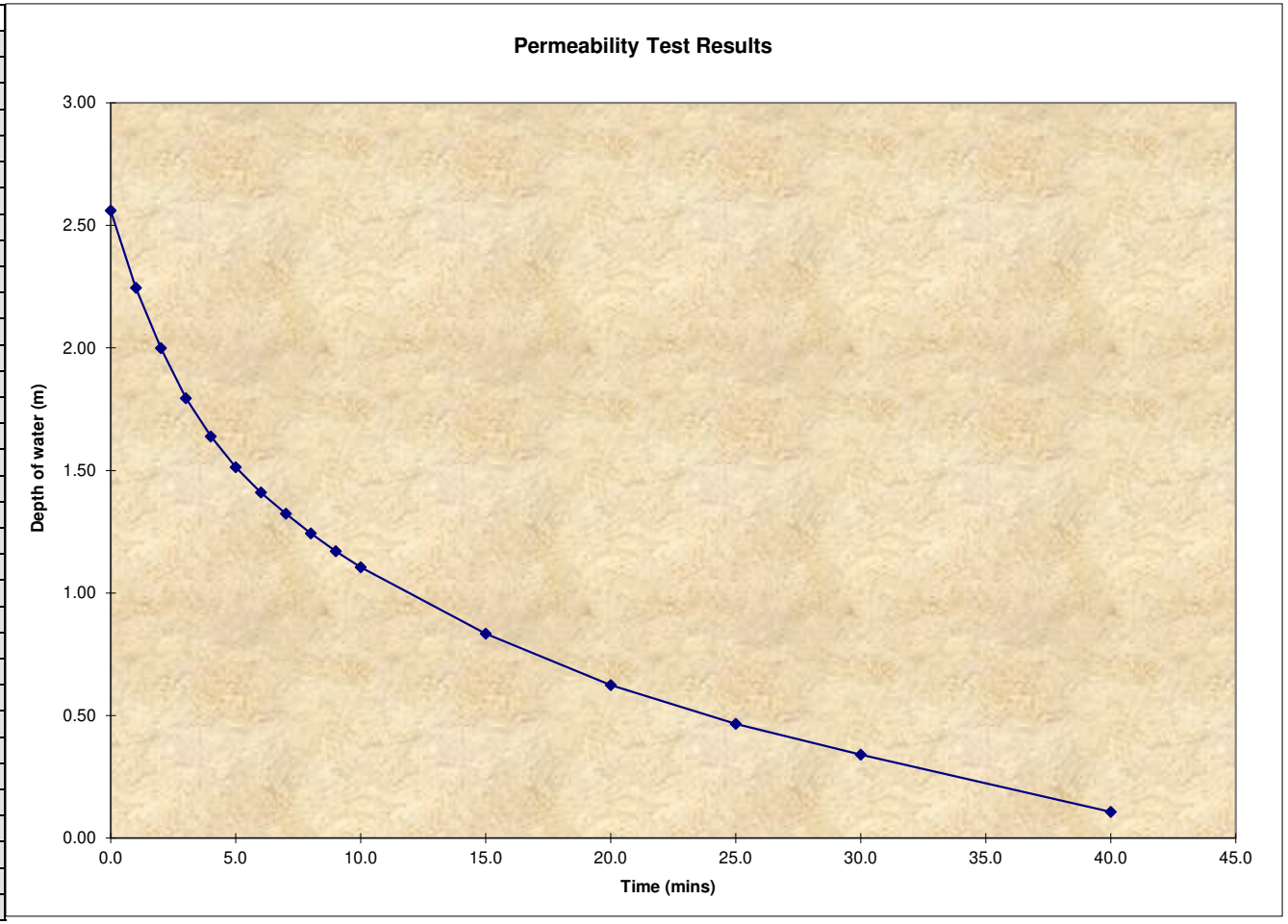
Time of Emptying of Soakaway
(Values to be checked on chart)

% Full	25% Empty	50% Empty	75% Empty
Depth of Water (m)	1.9208	1.2805	0.6403
Time (mins)	2	8	20

Gravel fill	Yes
Voids %	44.2

Infiltration Rate
6.5E-05 m/sec

Minutes	Depth of Water (m)	Depth Below E.G.L.(m)	Depth to water (m)
0.0	2.56	0.44	0.439
1.0	2.25	0.75	0.754
2.0	2.00	1.00	1.000
3.0	1.80	1.20	1.205
4.0	1.64	1.36	1.360
5.0	1.51	1.49	1.486
6.0	1.41	1.59	1.589
7.0	1.32	1.68	1.676
8.0	1.24	1.76	1.756
9.0	1.17	1.83	1.830
10.0	1.11	1.89	1.895
15.0	0.83	2.17	2.166
20.0	0.62	2.38	2.375
25.0	0.47	2.53	2.534
30.0	0.34	2.66	2.659
40.0	0.11	2.89	2.893



Run 2

Results from Site Observation

Scheme:	**Sheringham**
Project	**102894**
Trial Pit No.	8
Depth of Trial Pit (m)=	3.00
Length of Trial Pit (m)=	1.50
Breadth of Trial Pit (m)=	0.45
No of runs	3
Pipe upstand (m)	0.000

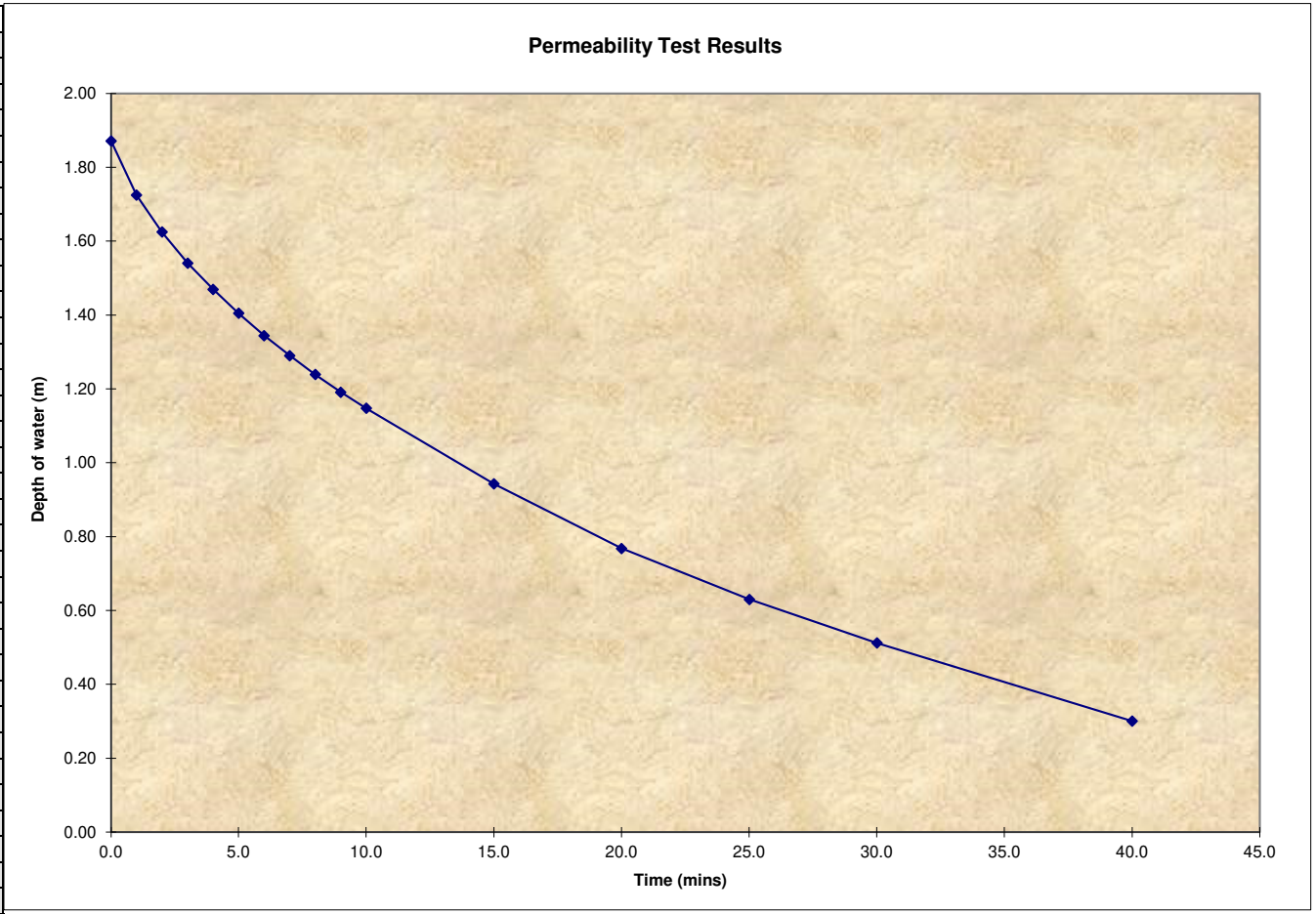
Time of Emptying of Soakaway
(Values to be checked on chart)

% Full	25% Empty	50% Empty	75% Empty
Depth of Water (m)	1.4036	0.9358	0.4679
Time (mins)	5	15	32

Gravel fill	Yes
Voids %	44.2

Infiltration Rate
4.0E-05 m/sec

Minutes	Depth of Water (m)	Depth Below E.G.L.(m)	Depth to water (m)
0.0	1.87	1.13	1.129
1.0	1.72	1.28	1.275
2.0	1.63	1.37	1.375
3.0	1.54	1.46	1.459
4.0	1.47	1.53	1.530
5.0	1.41	1.60	1.595
6.0	1.34	1.66	1.656
7.0	1.29	1.71	1.710
8.0	1.24	1.76	1.761
9.0	1.19	1.81	1.809
10.0	1.15	1.85	1.852
15.0	0.94	2.06	2.057
20.0	0.77	2.23	2.232
25.0	0.63	2.37	2.370
30.0	0.51	2.49	2.488
40.0	0.30	2.70	2.699



Run 3

Results from Site Observation

Scheme:	**Sheringham**
Project	**102894**
Trial Pit No.	8
Depth of Trial Pit (m)=	3.00
Length of Trial Pit (m)=	1.50
Breadth of Trial Pit (m)=	0.45
No of runs	3
Pipe upstand (m)	0.000

Time of Emptying of Soakaway
(Values to be checked on chart)

% Full	25% Empty	50% Empty	75% Empty
Depth of Water (m)	1.5264	1.0176	0.5088
Time (mins)	6	19	38

Gravel fill	Yes
Voids %	44.2

Infiltration Rate	Mean
3.5E-05	4.3E-05 m/sec

Minutes	Depth of Water (m)	Depth Below E.G.L.(m)	Depth to water (m)
0.0	2.04	0.96	0.965
1.0	1.91	1.09	1.093
2.0	1.81	1.19	1.188
3.0	1.73	1.27	1.267
4.0	1.66	1.34	1.338
5.0	1.60	1.40	1.401
6.0	1.54	1.46	1.455
7.0	1.49	1.51	1.508
8.0	1.44	1.56	1.560
9.0	1.39	1.61	1.607
10.0	1.35	1.65	1.653
15.0	1.15	1.85	1.847
20.0	0.99	2.01	2.012
25.0	0.84	2.16	2.160
30.0	0.70	2.30	2.302
40.0	0.45	2.55	2.553