

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

Enc.  
Site location plan  
Trialpit location plan  
Trialpit logs

Your Ref: FUL/2023/0005

Date: 12/05/2023

My Ref: 104242

Tel No.: 07789272067

Email: [REDACTED]

### **Sheringham HWRC Holt Road, Land Classification Report**

The objective of this letter is to determine the Agricultural Land Classification (MAFF October 1988) of the above site.

#### **Site Location**

The site is located on land north of the eastern end of the access road to Sheringham Household Waste Recycling Centre (HWRC) on the A148 Holt Road, Sheringham, Norfolk (OSGR 616280 / 341026). The site area is agricultural land.

#### **Proposed site use**

It is proposed to construct a new Household Waste Recycling Centre.

#### **Site description**

The site is approximately 0.4 hectares in area. The site is approximately 90.0m AOD and relatively flat with a slight slope from north west to south east. A soil bund is located along the south and western boundaries.



View looking west of the site



View looking east of the site

## Geology

The site is underlain by **the Britions Lane Sand and Gravel** which consists of horizontal, massive and low angle planar cross-bedded gravels and cobble gravels with thin seams of horizontal and rippled sand. The lithology has a distinctive high flint content (c.85-89%) of which the majority is of non-chatter marked variety (c.78-85%). The gravels also contain a wide range of far-travelled crystalline erratics including rocks of British and Scandinavian provenance.

The **Wroxham Crag Formation** comprises of a sheet of interbedded gravels, sands, silts and clays. The gravels are dominated by flint (up to c.80%) and by quartz and quartzite (up to c.60%), with far-travelled minor lithologies including Carboniferous chert, Rhaxella chert, Greensand chert, Spilsby Sandstone and felsic volcanic rocks from North Wales. The deposits are interpreted as estuarine and near-shore marine.

## Site Investigation

On 21<sup>st</sup> April 2023 Mr I Brown of Norfolk Partnership Laboratory attended site and excavated five machine dug trial pits across the site. Samples were taken from these trialpits for further analysis. The trialpits were carried out at locations that have not been stripped or reduced.

### ALS1

GL – 0.30m Brown sandy, silty TOPSOIL.

0.30m – 0.70m Light brown and orangey brown, gravelly, silty, fine to medium SAND. Gravel is up to cobble sized, sub-angular to rounded flint.



ALS1



**ALS2**

GL – 0.25m Brown silty TOPSOIL.

0.25m – 0.45m Orangey brown slightly gravelly, fine to medium SAND. Gravel is fine to coarse, sub-angular to sub-rounded flint.



ALS2

**ALS 3**

GL – 0.30m Dark brown silty TOPSOIL.

0.30m – 0.50m Brown slightly gravelly, fine to medium SAND. Gravel is fine to coarse, sub-angular to sub-rounded flint.



ALS3



**ALS4**

GL – 0.25m Brown silty TOPSOIL.

0.25m – 0.50m Orangey brown silty, slightly gravelly, fine to medium SAND. Gravel is fine to coarse flint.



ALS4

**ALS5**

GL – 0.30m Brown silty TOPSOIL.

0.30m – 0.40m Orangey brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to coarse, sub-angular to sub-rounded flint.



ALS5

No groundwater was encountered during this investigation.

Further detail can be seen on the trialpit logs enclosed.

### Soil limitation

The investigation has shown that positive Topsoil material was identified. The Agricultural Land Classification (ALC) states “the term 'topsoil' refers to true topsoil material which developed originally at the top of a soil profile and is characteristically darker in colour and has a higher organic matter content than subsoil material. The term 'top 25 cm' is used to refer to the uppermost 25 cm of the soil profile which defines, for ALC purposes, the depth zone within which the soil is most frequently cultivated.

It is generally assumed in the soil related assessments that natural topsoil is in situ. If the land has been disturbed and there is little or no topsoil, this may be an additional limitation which needs to be taken into account when grading the land.”

Below are listed the six classifications of agricultural land:

#### **Grade 1 – excellent quality agricultural land.**

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crop can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

#### **Grade 2 – very good quality agricultural land**

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

#### **Grade 3 - good to moderate quality agricultural land**

Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown, yields are generally lower or more variable than on land in Grades 1 and 2.

#### **Subgrade 3a - good quality agricultural land**

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

#### **Subgrade 3b - moderate quality agricultural land**

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

#### **Grade 4 - poor quality agricultural land**

Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

## Grade 5 - very poor quality agricultural land

Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

### Climatic Limitations

Climate has a major, and in places overriding, influence on land quality by affecting both the range of potential agricultural uses and the cost and level of production. Its most fundamental influence is on the potential for plant growth by determining the energy available for photosynthesis and water supply to plant roots.

The main parameters used in assessment of the climatic limitations are average annual rainfall (AAR), as a measure of overall wetness; and accumulated temperature, as a measure of the relative warmth of locality. For the climatic assessment, accumulated temperature is calculated, using an established algorithm (Meteorological Office, 1969), for the period January to June (AT0); this being the growth period for most crops. The data used for ALC is taken from the following report:

- Climatological Data for Agricultural Land Classification, by the Met Office. January 1989.

Sample ref	AAR (mm)	AT0 (Day °C)	ALC Grade
ALS1	630	2451	1
ALS2	630	2451	1
ALS3	630	2451	1
ALS4	630	2451	1
ALS5	630	2451	1

Given the location of the site where the temperature is warmer and there is less rainfall than other parts England, the site can be given an ALC Grade of 1.

Looking at the 1:250 000 Series Agricultural Land Classification map, the site lies within an area of other land primarily in non-agricultural use.

### Gradient

Gradient has a significant effect on mechanised farm operations since most conventional agricultural machinery performs best on level ground. The site is relatively flat and awarded a Grade 1.

The micro-relief can severely limit the use of agricultural machinery and can affect the final ALC Grade. However, the site appeared to be of generally level and showed no complex changes of slope angle and direction over short distances, or the presence of boulders or rock outcrops. Therefore, micro-relief does not affect the above final ALC Grade.

## Flood Risk

The occurrence of flooding is strongly influenced by topography, but the extent, duration, frequency and timing can be difficult to establish precisely. The risk of flooding may be significant in affecting the choice of crops to be grown, because at certain times of the year it can have a detrimental effect on yield and may give rise to soil management problems. Information on flooding at a local scale is often fragmentary and the assessment may have to be based on local knowledge, together with any information or advice which can be obtained from Water Authorities. Most weight should be given to the predicted long-term risk, or the return periods used in the design of flood protection schemes, rather than to the average incidence of flooding in recent years, which may have been influenced by atypical climatic conditions.

The site is not located within a flood zone and there is only limited potential for groundwater flooding to occur.

The risk of surface water flooding is generally considered low due to the local geology of the area.

Therefore, based on the information above, the site can be given an ALC Grade of 1.

## Soil depth

Soil depth is an important factor in determining the available water capacity of a soil. Shallowness affects cropping in other ways, notably by influencing the range and type of cultivations which can be carried out, but also by restricting nutrient uptake and root growth. Therefore, it is necessary to specify minimum soil depth requirements for the grades and subgrades. The table below shows the ALC Grades for each field based on soil depth.

<b>Sample ref</b>	<b>Topsoil Depth (m)</b>	<b>ALC Grade</b>
ALS1	0.30	3a
ALS2	0.25	3b
ALS3	0.30	3a
ALS4	0.25	3b
ALS5	0.30	3a

### Stoniness

The amount of stones has an effect on cultivation, harvesting and crop growth and to cause a reduction in the available water capacity of a soil.

A high stone content can increase production costs by causing extra wear and tear to implements and tyres. Crop quality may also be reduced in stony soil.

The degree of limitation imposed by stones depends on their quantity, size, shape and hardness. The grade on stone content is based upon the percentage of stones that will not pass-through sieves with 2cm or 6cm square mesh and are expressed in terms of the percentage of total volume for the top 25cm of the soil.

A particle size distribution test was carried out on a sample of the surface 250mm from each of the trial pits. The results showed the following stoniness.

<b>Sample ref</b>	<b>% stones larger 2cm</b>	<b>% stones larger 6cm</b>	<b>Classification</b>
ALS1	53	8	5
ALS2	55	39	5
ALS3	35	0	3b
ALS4	30	0	3b
ALS5	42	0	4

Based upon the stone content within the top 25cm of topsoil, all of the samples contain over 15% of stones that are larger than a 2cm sieve therefore, the highest classification on the site is 3b. However, due to more stones being retained on a 2cm sieve for ALS1 and ALS2, ALS5 the following classifications have been given: 5, 5 and 4 respectively



## Soil wetness

A soil wetness limitation exists where the soil water regime adversely affects plant growth or imposes restriction on cultivations or grazing by livestock. Excessive soil wetness adversely affects seed germination and survival, partly by a reduction in soil temperature and partly because of anaerobism. It also inhibits the development of a good root system and can, in extreme cases, lead to plant death. Soil wetness also influences the sensitivity of the soil to structural damage and is therefore a major factor in determining the number of days when the soil is in a suitable condition for cultivation, trafficking by machinery or grazing by livestock.

For ALC purposes, the soil wetness assessment takes account of:

- The climatic regime
- The soil water regime
- The texture of the top 25cm of soil

The influence of climate on soil wetness is assessed by reference to median field capacity days (FCD). FCD ranges are specified within which similar soils are expected to have similar degrees of wetness limitation.

Soil wetness regime is defined in terms of the average duration of waterlogging at specified depths in the soil profile. Soil texture classes are divided into four groups according to ease of cultivation and susceptibility to damage by grazing animals.

<b>Sample ref</b>	<b>Wetness Class</b>	<b>Texture of the top 25cm</b>	<b>Field Capacity Days</b>	<b>ALC Grade</b>
ALS1	II	LS	175-225	2
ALS2	II	LS	175-225	2
ALS3	II	LS	175-225	2
ALS4	II	LS	175-225	2
ALS5	II	LS	175-225	2

The assigned 'Soil Wetness Class' for each field has been based upon interpretation of the logged soils and Table 6 in the Agricultural Land Classification, 1988.

## Droughtiness

To achieve full yield potential, a crop requires an adequate supply of soil moisture throughout the growing season. Droughtiness is a significant limitation to crop growth in areas with relatively low rainfall or high evapotranspiration, or where the soil holds only small reserves of moisture available to plant roots.

Soil droughtiness requires the calculation of the 'crop-adjusted available water capacity' (AP) for both wheat and potatoes, as these crops are widely grown and, in terms of their susceptibility to drought are representative of a broad range of crops. AP is based upon the 'Total Available Water' and 'Easily Available Water' of the different topsoil and subsoil levels. The Moisture deficit (MD) is also needed, which is part of the 1989 Met Office data set. The AP and MD can be used to calculate the Moisture Balance (MB) which is used to define the ALC Grade.

Sample ref	Wheat			Potatoes			ALC Grade
	AP (mm)	MD (mm)	MB (mm)	AP (mm)	MD (mm)	MB (mm)	
ASL1	136.92	116.54	20.38	76.92	111.71	-34.79	3b
ASL2	89.55	116.54	-26.99	57.05	111.71	-54.66	3b
ALS3	105.06	116.54	-11.48	72.56	111.71	-39.15	3b
ALS4	102.75	116.54	-13.79	70.25	111.71	-41.46	3b
ALS5	99.78	116.54	-16.76	67.28	111.71	-44.43	3b

Consideration

After the consideration of the site investigation and in particular the stoniness testing the final Land Classification ranges from Grade 3b to Grade 5. It is therefore deemed that no further testing is required. The results are tabulated below

Sample Ref	ALC Grade According to:							Final ALC Grade
	Climate	Gradient	Flood Risk	Soil Depth	Stoniness	Soil Wetness	Soil Droughtiness	
1	1	1	1	3a	5	2	3b	5
2	1	1	1	3b	5	2	3b	5
3	1	1	1	3a	3b	2	3b	3b
4	1	1	1	3b	3b	2	3b	3b
5	1	1	1	3a	4	2	3b	4

Site Classification

It can be concluded that the site area can be classified in accordance with 1988 MAFF publication Agricultural Land Classification of England and Wales, as ranging from Grade 3b to Grade 5.

**Subgrade 3b - moderate quality agricultural land**

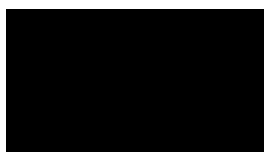
Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

**Grade 5 - very poor quality agricultural land**

Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

If Norfolk Partnership Laboratory can be of any further assistance with this or any other project, please do not hesitate to contact me.

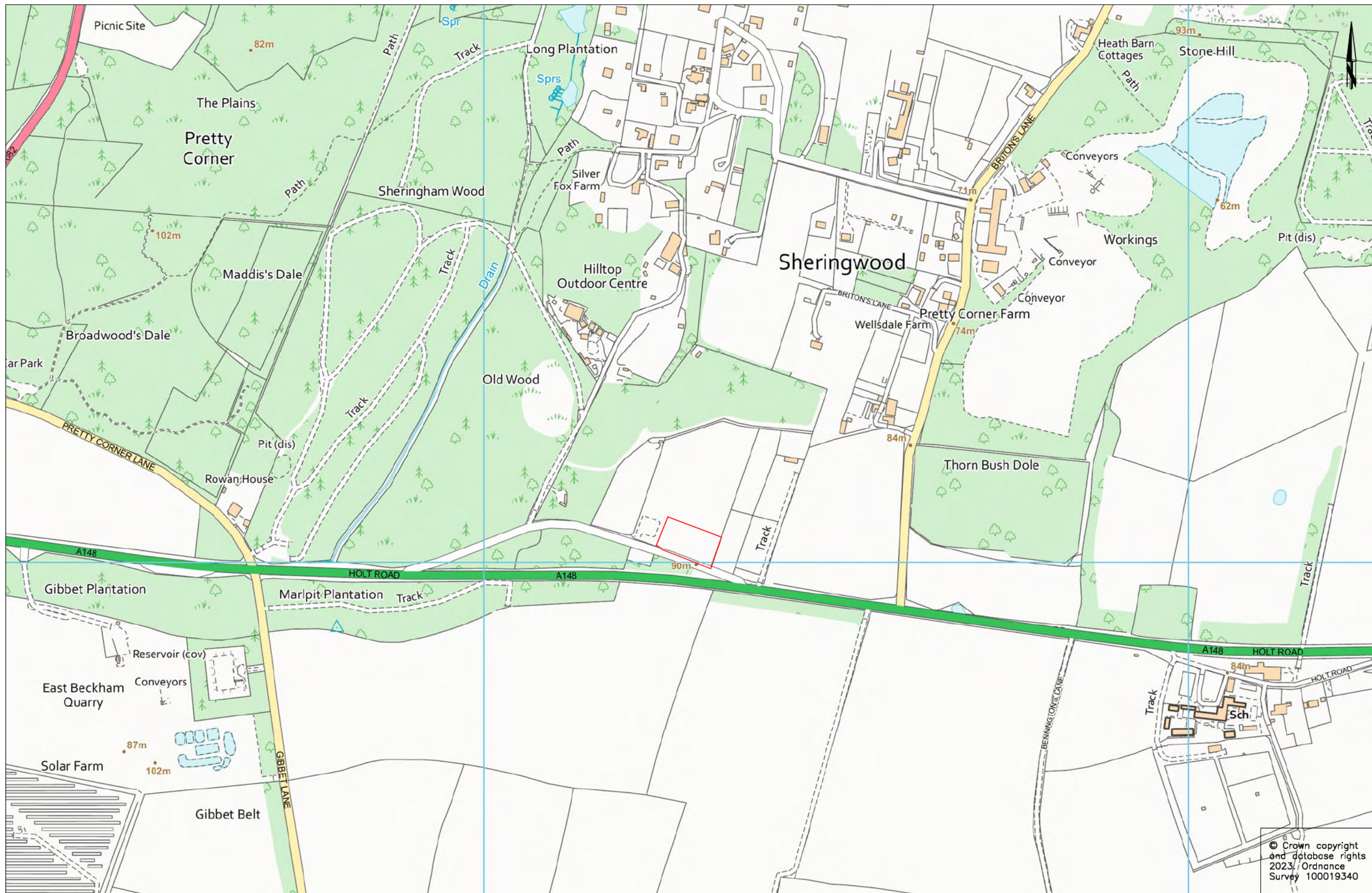
Yours sincerely



I Brown

Head of Laboratory Services





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

**DRAWING TITLE**  
 104242 Sheringwood HWRC Holt Road ALS  
 Site Investigation  
 Site Location Plan

REV.	DESCRIPTION	DRAWN BY	CHECKED	DATE

SURVEYED BY	INITIALS	DATE	DRAWING No.
OS	OS	04/23	104242-001
DESIGNED BY	JP	04/23	PROJECT TITLE
DRAWN BY	JP	04/23	Sheringwood HWRC Holt Road ALS
CHECKED BY	IDB	04/23	Site Investigation
SCALE			FILE No.
1: 5000 @A3			104242





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 Executive Director of  
 Community and Environmental Services  
 Norfolk County Council  
 County Hall, Martineau Lane  
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**DRAWING TITLE**  
 104242 Sheringham HWRC Holt Road ALS  
 Site Investigation  
 Trial Pit Location Plan

REV.	DESCRIPTION	DRAWN BY	CHECKED	DATE

SURVEYED BY	INITIALS	DATE	DRAWING No.
OS	OS	04/23	104242-002
DESIGNED BY	JP	04/23	PROJECT TITLE
DRAWN BY	JP	04/23	Sheringham HWRC Holt Road ALS
CHECKED BY	IDB	04/23	Site Investigation
SCALE			FILE No.
1: 1000 @A3			104242















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Norwich  
NR1 2SG

Our reference No. NNPL2023042615-611

Our Project No. 104242

Your Sample Ref. 2615

Your Order No.

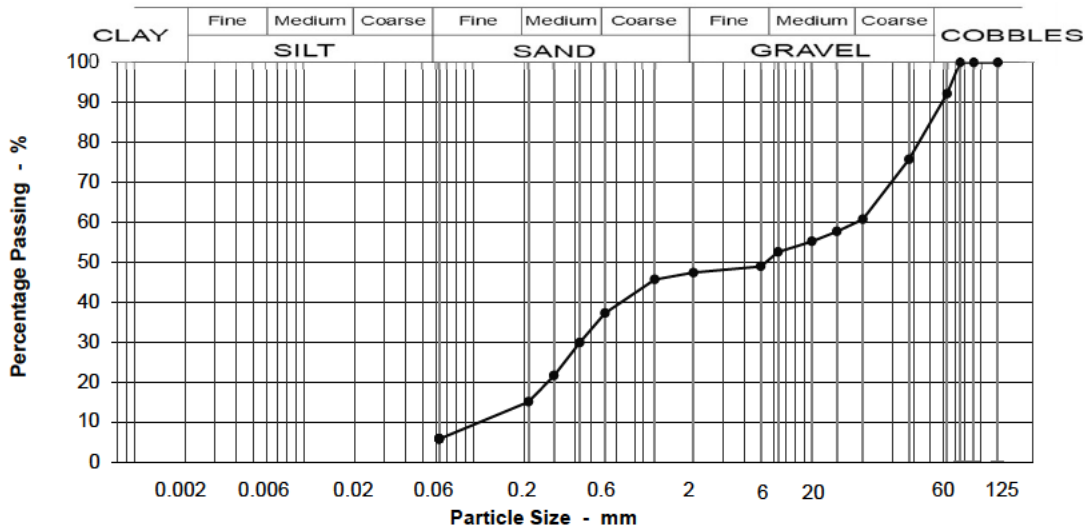
Date Tested 28 Apr 2023

Date Report Issued 04 May 2023

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

Scheme: Proposed Sheringham HWRC Holt Road ALS Report  
Location and orientation within sample not applicable

Location: ALS1  
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		Specification for Highway Works Classification Table 6/2
Particle Size mm	% Passing	
125	100	<b>This material complies with the following material classes 1A, 6E/6R, 6F1, 6I, 6M, 6N.</b>
90	100	
75	100	
63	92	
37.5	76	
20	61	
14	58	
10	55	
6.3	52	
5	49	
2	47	
1.18	46	
0.600	37	
0.425	30	
0.300	22	
0.212	15	
0.063	6	

Moisture content % 9.1  
(BS1377-Part 2, 1990-Withdrawn)

Sample Proportions	
BOULDERS	0
COBBLES	8
Coarse GRAVEL	31
Medium GRAVEL	8
Fine GRAVEL	5
Coarse SAND	10
Medium SAND	22
Fine SAND	9
Silt & Clay	6

Grading Analysis	
D100	63
D60	18.657
D10	0.132
Uniformity Coefficient	141

Description	
Dark brown, silty fine to coarse SAND and GRAVEL with rootlets.(Topsoil). Gravel is angular to subrounded fine to coarse with rare cobble size flint.	

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*Jim Elliott*

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Our reference No. NNPL2023042614-611

Our Project No. 104242

Your Sample Ref. 2614

Your Order No.

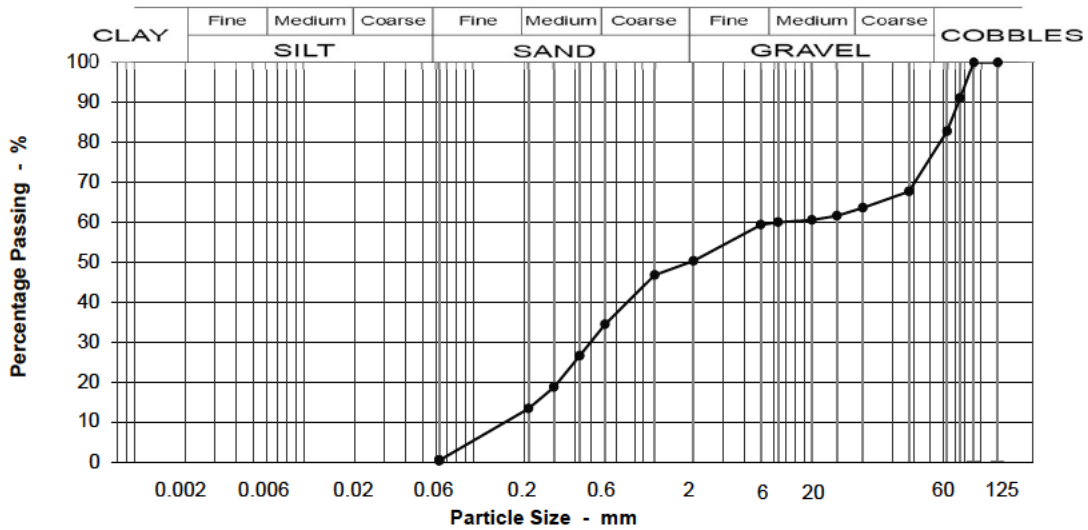
Date Tested 27 Apr 2023

Date Report Issued 04 May 2023

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

Scheme: Proposed Sheringham HWRC Holt Road ALS Report  
Location and orientation within sample not applicable

Location: ALS1 @ 0.3m  
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		Specification for Highway Works Classification Table 6/2
Particle Size mm	% Passing	
125	100	<b>This material complies with the following material classes 1A, 6A, 6E/6R, 6I.</b>
90	100	
75	91	
63	83	
37.5	68	
20	64	
14	62	
10	60	
6.3	60	
5	59	
2	50	
1.18	47	
0.600	34	
0.425	27	
0.300	19	
0.212	13	
0.063	0	

Moisture content % 9.8  
(BS1377-Part 2, 1990-Withdrawn)

Sample Proportions	
BOULDERS	0
COBBLES	17
Coarse GRAVEL	19
Medium GRAVEL	4
Fine GRAVEL	10
Coarse SAND	16
Medium SAND	21
Fine SAND	13
Silt & Clay	0

Grading Analysis	
D100	75
D60	6.860
D10	0.174
Uniformity Coefficient	39

Description	
Orangey brown silty sandy clay flint gravel up to cobble size.	

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Our reference No. NNPL2023042610-611

Our Project No. 104242

Your Sample Ref. 2610

Your Order No.

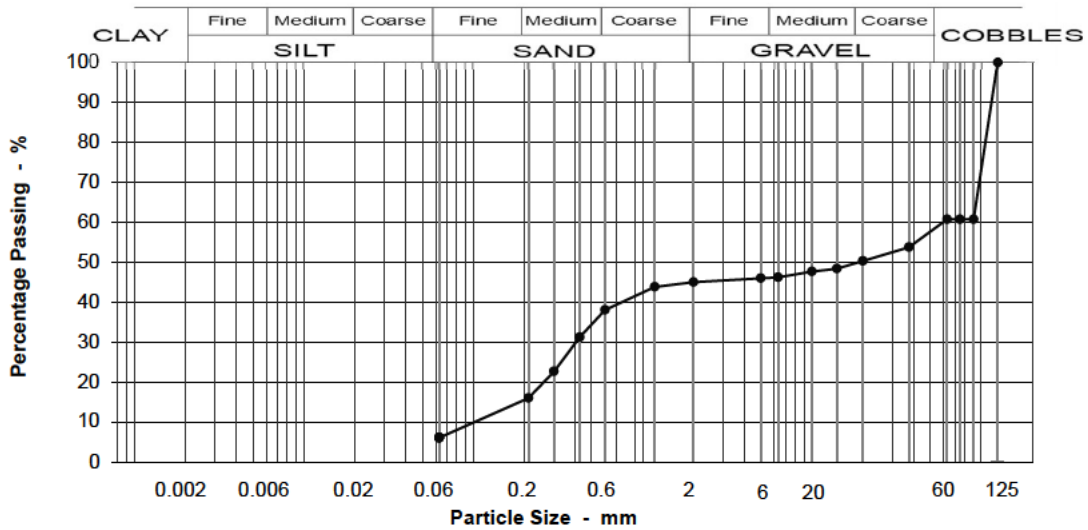
Date Tested 26 Apr 2023

Date Report Issued 04 May 2023

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

Scheme: Proposed Sheringham HWRC Holt Road ALS Report  
Location and orientation within sample not applicable

Location: ALS2  
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	Specification for Highway Works Classification
Particle Size mm	% Passing
125	100
90	61
75	61
63	61
37.5	54
20	50
14	48
10	48
6.3	46
5	46
2	45
1.18	44
0.600	38
0.425	31
0.300	23
0.212	16
0.063	6

Table 6/2  
**This material complies with the following material classes 1A.**

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 % 17  
(BS1377-Part 2, 1990-Withdrawn)

Sample Proportions	
BOULDERS	0
COBBLES	39
Coarse GRAVEL	10
Medium GRAVEL	4
Fine GRAVEL	1
Coarse SAND	7
Medium SAND	22
Fine SAND	10
Silt & Clay	6

Grading Analysis	
D100	90
D60	60.656
D10	0.124
Uniformity Coefficient	490

**Description**  
Dark brown, silty, gravelly fine to coarse SAND with occasional flint cobbles. Gravel is angular to subrounded fine to coarse flint.

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Our reference No. NNPL2023042612-611

Our Project No. 104242

Your Sample Ref. 2612

Your Order No.

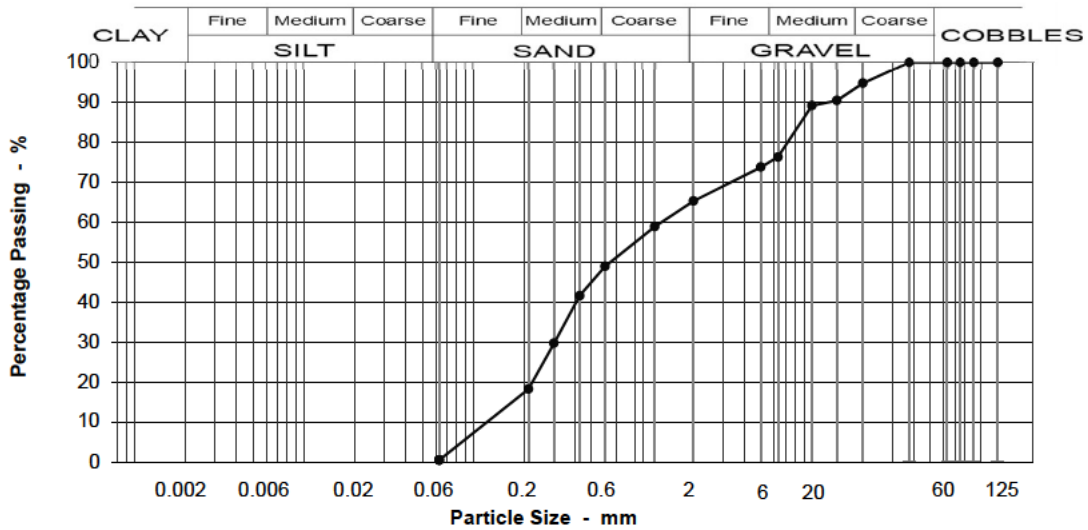
Date Tested 27 Apr 2023

Date Report Issued 04 May 2023

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

Scheme: Proposed Sheringham HWRC Holt Road ALS Report  
Location and orientation within sample not applicable

Location: ALS3  
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		Specification for Highway Works Classification Table 6/2
Particle Size mm	% Passing	
125	100	<b>This material complies with the following material classes 1B, 6E/6R, 6F1, 6J, 6M.</b>
90	100	
75	100	
63	100	
37.5	100	
20	95	
14	90	
10	89	
6.3	76	
5	74	
2	65	
1.18	59	
0.600	49	
0.425	42	
0.300	30	
0.212	18	
0.063	0	

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

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	5
Medium GRAVEL	18
Fine GRAVEL	11
Coarse SAND	16
Medium SAND	31
Fine SAND	18
Silt & Clay	0

Grading Analysis	
D100	20
D60	1.334
D10	0.144
Uniformity Coefficient	9

Description	
Dark brown very silty sand, flint gravel topsoil.	

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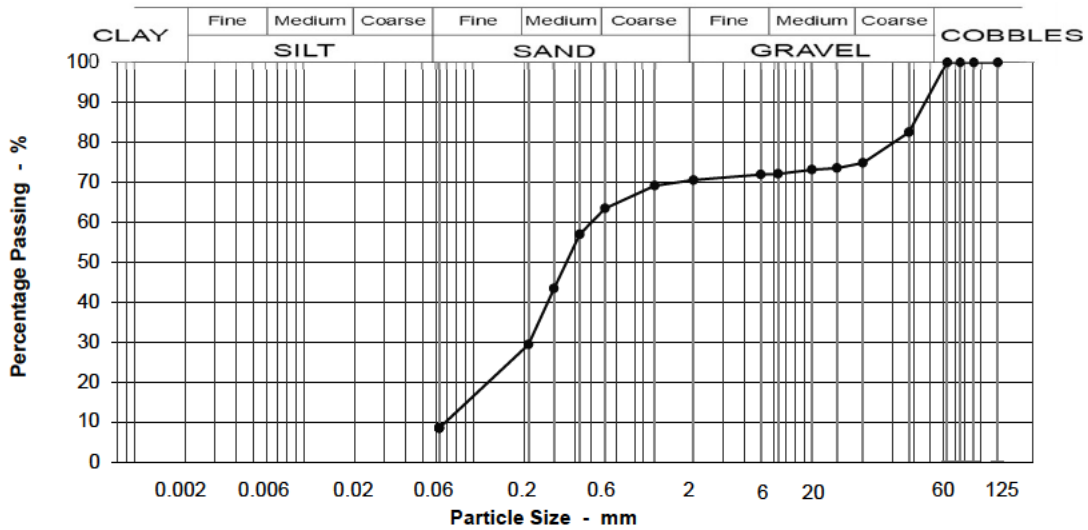
Our reference No. NNPL2023042611-611

Our Project No. 104242  
Your Sample Ref. 2611  
Your Order No.  
Date Tested 26 Apr 2023  
Date Report Issued 04 May 2023

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

Scheme: Proposed Sheringham HWRC Holt Road ALS Report  
Location and orientation within sample not applicable

Location: ALS4  
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		Specification for Highway Works Classification Table 6/2
Particle Size mm	% Passing	
125	100	This material complies with the following material classes 1B, 6E/6R, 6J, 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.
90	100	
75	100	
63	100	
37.5	82	
20	75	
14	74	
10	73	
6.3	72	
5	72	
2	70	
1.18	69	
0.600	63	
0.425	57	
0.300	43	
0.212	29	
0.063	8	

Moisture content % 8.9  
(BS1377-Part 2, 1990-Withdrawn)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	25
Medium GRAVEL	3
Fine GRAVEL	2
Coarse SAND	7
Medium SAND	34
Fine SAND	21
Silt & Clay	8

Grading Analysis	
D100	38
D60	0.509
D10	0.075
Uniformity Coefficient	7

Description	
Dark brown, silty, very gravelly fine to coarse SAND with occasional rootlets (TOPSOIL). Gravel is angular to subrounded fine to coarse flint.	

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Your Sample Ref. 2613

Your Order No.

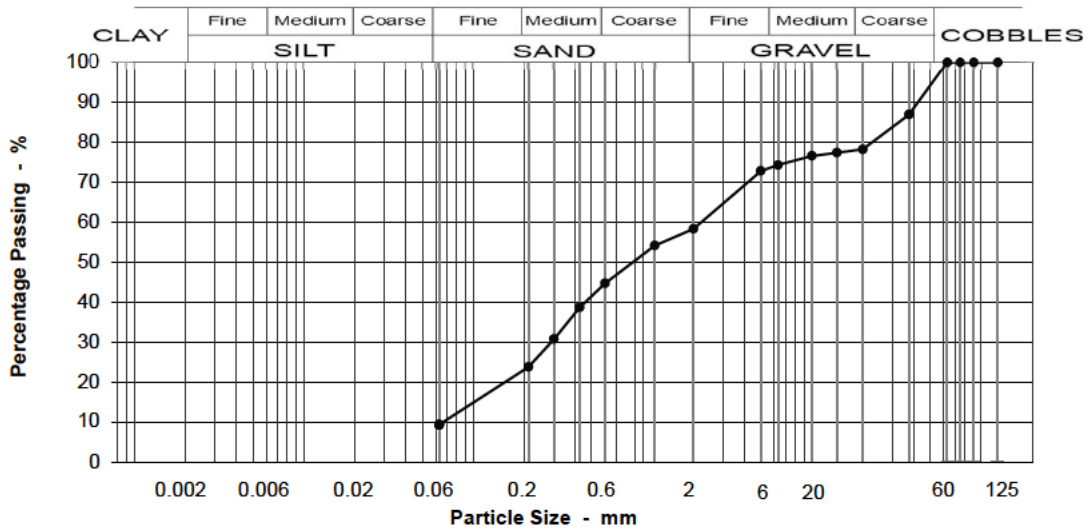
Date Tested 26 Apr 2023

Date Report Issued 04 May 2023

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

Scheme: Proposed Sheringham HWRC Holt Road ALS Report  
Location and orientation within sample not applicable

Location: ALS5  
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		Specification for Highway Works Classification Table 6/2
Particle Size mm	% Passing	
125	100	<b>This material complies with the following material classes 1A, 6E/6R, 6F1, 6I, 6M, 6N.</b>
90	100	
75	100	
63	100	
37.5	87	
20	78	
14	77	
10	77	
6.3	74	
5	73	
2	58	
1.18	54	
0.600	45	
0.425	39	
0.300	31	
0.212	24	
0.063	9	

Moisture content % 13  
(BS1377-Part 2, 1990-Withdrawn)

Sample Proportions	
BOULDERS	0
COBBLES	0
Coarse GRAVEL	22
Medium GRAVEL	4
Fine GRAVEL	16
Coarse SAND	14
Medium SAND	21
Fine SAND	14
Silt & Clay	9

Grading Analysis	
D100	38
D60	2.361
D10	0.071
Uniformity Coefficient	33

Description	
Dark brown, silty, fine to coarse SAND and GRAVEL with rare rootlets (TOPSOIL). Gravel is angular to subrounded fine to coarse flint.	

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*Jim Elliott*