CUSTOMER / CLIENT

[redacted]

PROPERTY LOCATION

3 Somerset Terrace East Bolden NE36 0TE

Site Investigation Report

Version: 1
Date Created: 25 May 2023

Bradgate Surveying Limited
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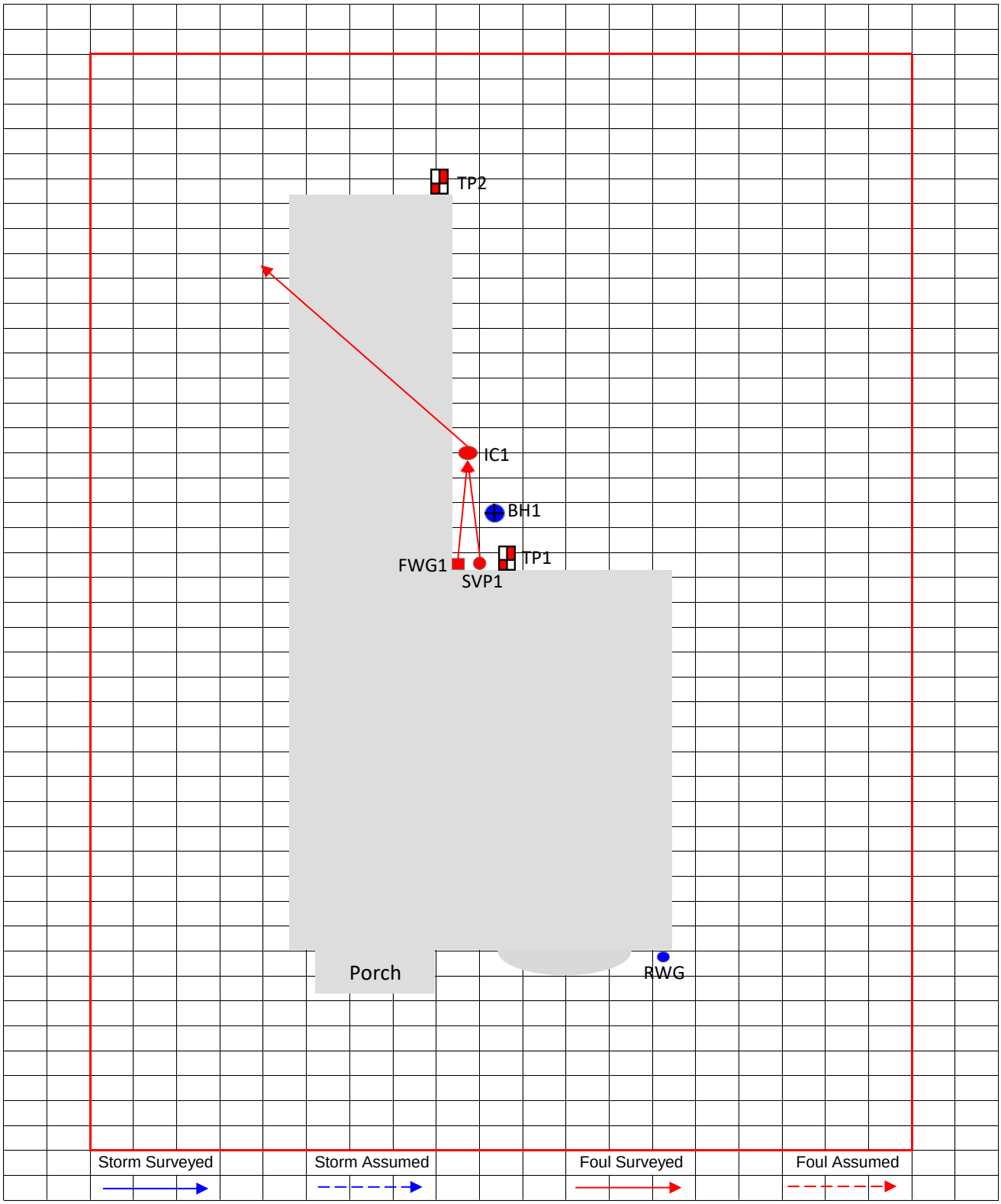
Site Investigation Report

Site Plan

Site Plan Not to Scale

This plan is diagrammatic only and has been prepared to illustrate the general position of the property and its relationship to nearby drains and trees etc. The boundaries are not accurate, and do not infer or confer any rights of ownership or right-of-way.



« 3 Somerset Terrace East Bolden NE36 0TE »
20227843

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Site Investigation Report

Boring Log One

Client	B. Maule & Co.	**Ref**	20227843
Name	[redacted]		
Address	3 Somerset Terrace **City** East Bolden	**Postcode**	NE36 0TE

Logged By: RL	**Started:** 04/05/2023	**Location:** Middle of Rear Original House	BH at Junction of House & Extension Near SVP
Site Team: RL	**Completed:** 04/05/2023	**Bore Type** Hand Auger	**Total Depth of Boring:** 3000mm
Trial Pit: 1 **Borehole No:** 1	**Backfilled:** 04/05/2023	**Groundwater Depth:** None	**Roots:** Yes

Date

Depth (m)	Sample Type	Sample Number	Shear Vane Reading	Blow Counts (blows/75mm)	Graphic Log	
0.0						Brickwork down to 250mm
0.1						
0.2						
0.3						Concrete foundation 550mm thick
0.4						800mm underside of foundation
0.5						
0.6						
0.7						
0.8	D	1	120			Brown moist stiff clay to 800mm
0.9						
1.0						
1.1						
1.2						
1.3						
1.4						
1.5	D	2	140+			Brown stiff, firm clay to 1500mm
1.6						
1.7						
1.8						
1.9						
2.0	D	3	90		HL-1mm roots at 2000mm	Very light brown dry clay to 2000mm
2.1						
2.2						
2.3						
2.4						
2.5	D	4	84		1mm-4mm roots at 2500mm	Very light brown dry clay to 2500mm
2.6						
2.7						
2.8						
2.9						
3.0	D	5	91			Very light brown dry clay to 3000mm
3.1						Borehole closed at 3000mm - dry on completion
3.2						
3.3						
3.4						
3.5						
3.6						
3.7						
3.8						
3.9						
4.0						

Key:

D - Disturbed sample

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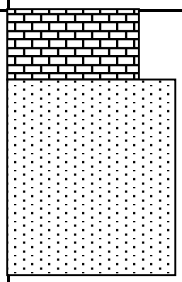
Site Investigation Report

Boring Log Two

Client	B. Maule & Co.	**Ref**	20227843
Name	[redacted]		
Address	3 Somerset Terrace **City** East Bolden	**Postcode**	NE36 0TE

Logged By: RL	Date	**Started:** 04/05/2023	**Location:** Rear Right Corner of Extension	
Site Team: RL		**Completed:** 04/05/2023	**Bore Type** Hand Auger	**Total Depth of Boring:** 3000mm
Trial Pit: 2 **Borehole No:**		**Backfilled:** 04/05/2023	**Groundwater Depth:** None	**Roots:** No

Depth (m)	Sample Type	Sample Number	Shear Vane Reading	Blow Counts (blows/75mm)	Graphic Log	Key: D - Disturbed sample
0.0						Brickwork down to 150mm, spread 200mm
0.1						
0.2						
0.3						Concrete foundation 650mm thick
0.4						
0.5						
0.6						
0.7						
0.8						800mm underside of foundation
0.9						
1.0						
1.1						
1.2						
1.3						
1.4						
1.5						
1.6						
1.7						
1.8						
1.9						
2.0						
2.1						
2.2						
2.3						
2.4						
2.5						
2.6						
2.7						
2.8						
2.9						
3.0						
3.1						
3.2						
3.3						
3.4						
3.5						
3.6						
3.7						
3.8						
3.9						
4.0						

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Site Investigation Report
CCTV

Bradgate Surveying Ltd

Drainage Survey

Completed By	RL	**Date**	04/05/2023
Address	3 Somerset Terrace East Bolden NE36 0TE		
Name	[redacted]	**Ref**	20227843

Run	1	**Direction**	DS	**Pipe Size**	100mm	**Material**	Plastic	**System**	Foul

From	IC1	**Depth(m)**	0.3	**To**	Under Exter	**Depth(m)**	

Metres	Faults/Defects	Remarks
0.00		Start of IC1
4.80		Entry into Main Run
5.90		Camera Submerged Fully
		End of Survey

Run	2	**Direction**	US	**Pipe Size**	100mm	**Material**	Plastic	**System**	Foul

From	IC1	**Depth(m)**	0.3	**To**	SVP1	**Depth(m)**	GL

Metres	Faults/Defects	Remarks
0.00		Start of IC1
2.40		Rest Bend up - SVP1
		End of Survey

Run	3	**Direction**	US	**Pipe Size**	100mm	**Material**	Plastic	**System**	Storm

From	IC1	**Depth(m)**	0.3	**To**	RWG1	**Depth(m)**	GL

Metres	Faults/Defects	Remarks
0.00		Start if IC1
2.40		Rest bend down, trap, for RWG1
		End of Survey

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SITE INVESTIGATION
LABORATORY TEST REPORT

SI REPORT NUMBER: BRA045

CLIENT : Bradgate Surveying Ltd

SITE:
3 Somerset Terrace

DATE OF SITE VISIT:
04/05/2023

DATE RECEIVED BY LABORATORY:
22/05/2023

Compiled by : .....[redacted].....
D Wilkinson - Laboratory Coordinator

Approved by : .....[redacted].....
D Wilkinson - Laboratory Coordinator

DATE REPORTED: 15-Jun-2023

Laboratory Summary Results

Our Ref : BRA045

Location : 3 Somerset Terrace

Client: Bradgate Surveying Ltd

Address: Unit 4, Boundary Court, Willow Farm Business Park, Castle Donington, DE74 2NN

Date Sampled: 04/05/2023

Date Received : 22/05/2023

Date Tested : 31/05/2023

Date of Report : 15/06/2023

Sample Ref TP/BH No	Depth (m)	Type	Moisture Content (%) *[1]*	Soil Fraction > 0.425mm (%) *[2]*	Liquid Limit (%) *[3]*	Plastic Limit (%) *[4]*	Plasticity Index (%) *[5]*	Liquidity * Index *[5]*	Modified * Plasticity Index (%) [6]	Soil * Class *[7]*	Filter Paper Contact Time (d)	Soil Sample Suction (kPa) [8]	Oedometer Strain *[9]*	Estimated * Heave Potential (Dd) *(mm)[10]*	In situ * Shear Vane Strength (kPa) *[11]*	Organic * Content (%)*[12]*	pH Value *[13]*	Sulphate Content SO_3 (g/l) * *[14]*	Sulphate Content SO_4 (mg/l) *[15]*	* Class *[16]*
1	U/S 0.80	D	22	<5	58	23	35	-0.04	35	CH										
	1.5	D	17	<5	53	22	31	-0.16	31	CH										
	2.0	D	15	<5	31	20	11	-0.48	11	CL										
	2.5	D	16	<5	31	20	11	-0.35	11	CL										
	3.0	D	20	<5	31	23	8	-0.37	8	ML										

Test Methods / Notes

[1] BS 1377 : Part 2 : 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377 : Part 2 : 1990, Test No 4.4

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4

[6] BRE Digest 240 : 1993

[7] BS 5930 : 2018 : Figure 8 - Plasticity Chart for the classification of fines soils

[8] Building Research Establishment Information Paper 4/93

[9] In Accordance with BS 1377-5 : 1990 : Clause 3

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CTS using a Pilcon hand vane or Geonor vane (GV).

[12] BS 1377 : Part 3 : 2018 + A1 2021 Clause 4 - *Tested By CTS Leicester*

[13] BS 1377 : Part 3 : 2018 + A1 2021 Clause 12 - *Tested By CTS Leicester*

[14] Sulphate content as SO3 as required by BS 1377: Part 3: 1990 has been provided for information purposes - *Tested By CTS Leicester*

[15] BS 1377 : Part 3 : 2018 + A1 2021 Clause 7.6 - Tested By CTS Leicester

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005 Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4M or DS-5M class respectively unless water soluble magnesium testing is undertaken to prove otherwise.

PSD Chart - BS 1377: Part 2 : 1990, Test No 9.2

* These tests are not UKAS accredited

Full reports can be provided upon request.

Key

D	Disturbed sample (small)
B	Disturbed sample (bulk)
U	Undisturbed sample
W	Groundwater sample
ENP	Essentially Non-Plastic by inspection
U/S	Underside of Foundation

UKAS TESTING

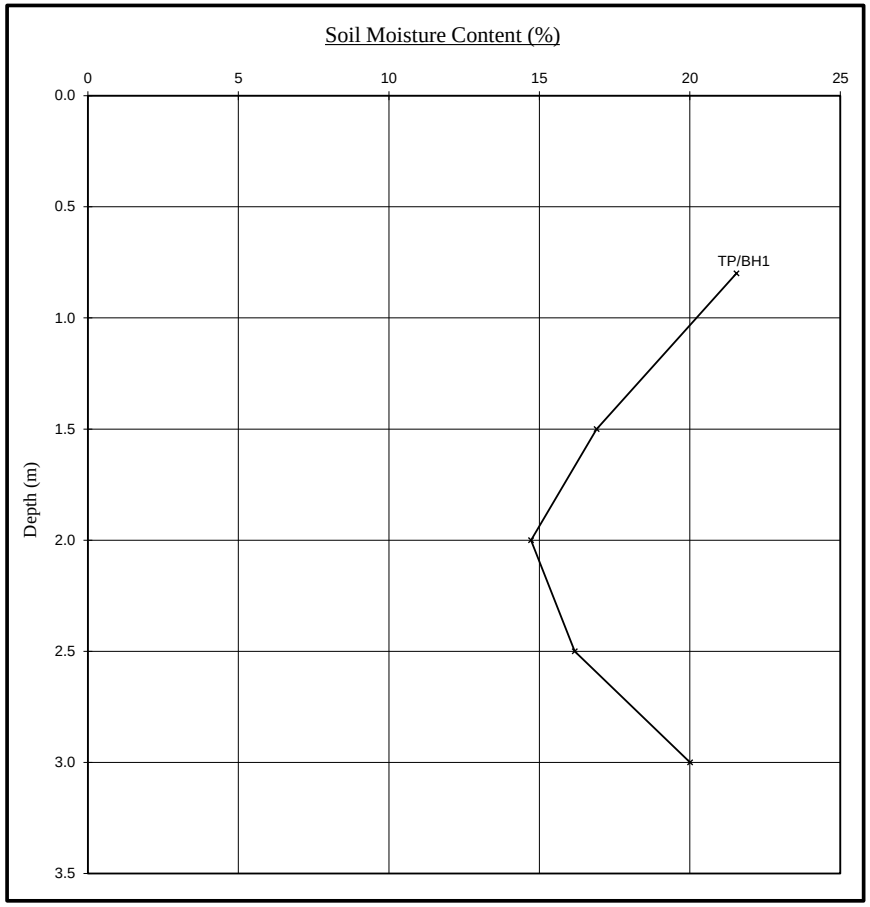
4161

Test results reported relate only to the items tested.
This report shall not be reproduced except in full without approval of the laboratory.
The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.
Opinions and interpretations expressed herein are outside of the scope of UKAS accreditation.

Construction Testing Solutions Ltd - Lawness Barns, Mountnessing Road, Billericay, Essex, CM12 0TS

Moisture Content Profiles

Our Ref : BRA045
Location : 3 Somerset Terrace
Work carried out for: Bradgate Surveying Ltd



Notes
1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

EPSL
Independent Scientific Analysis

European Plant Science Laboratory

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LE3 3AW

Intec
Parc Menai, Bangor,
Gwynedd, North Wales
LL57 4FG
Tel: 01248 672652
Fax: 01248 672601

ROOT IDENTIFICATION

3 Somerset Terrace,

Client Reference: BRA045
Report Date: 6 June 2023
Our Ref: R53170

Sub Sample	Species Identified		Root Diameter	Starch
BH1:				
2m	*Acer* spp.	1	2 mm	Low
2.5m	*Acer* spp.	2	3 mm	Moderate

Comments:

1 - Plus 1 other also identified as *Acer* spp.
2 - Plus 4 others also identified as *Acer* spp.

Acer spp. are maples, including sycamore, Norway maple, and Japanese maples.

Signed: M D Mitchell

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.