



Geotechnical Survey Report

FSI Ref: 25455
Issue Date: November 2022

Risk Address: 11 Ferndale
Southampton
Hampshire
SO30 0PP

Engineer: Phillip Doodson

Company: Crawford
Claim Ref: SU2203818

Managing Director:
Finance Director:

Martin Rush MSc FGS
Louise Banks BSc (Hons)

Geotechnical Compliance &
Logistics Supervisor:

Perry Martin MCIHT

Laboratory Manager:

Jade McLellan

Senior Geologist:
Assistant Geologist:
Geotechnical Assistant:

Scott Parker BSc (Hons) FGS
Sarah Brand
Bradley Webb



Tyndales Farm, Southend Road, Woodham Mortimer,
Maldon, Essex, CM9 6TQ

Telephone: 0844 3358908
Fax: 0844 3358907
Email: enquiries@fastrackgroup.co.uk
Web: www.fastrackgroup.co.uk

Appendix No: 1
FSI Ref: 25455

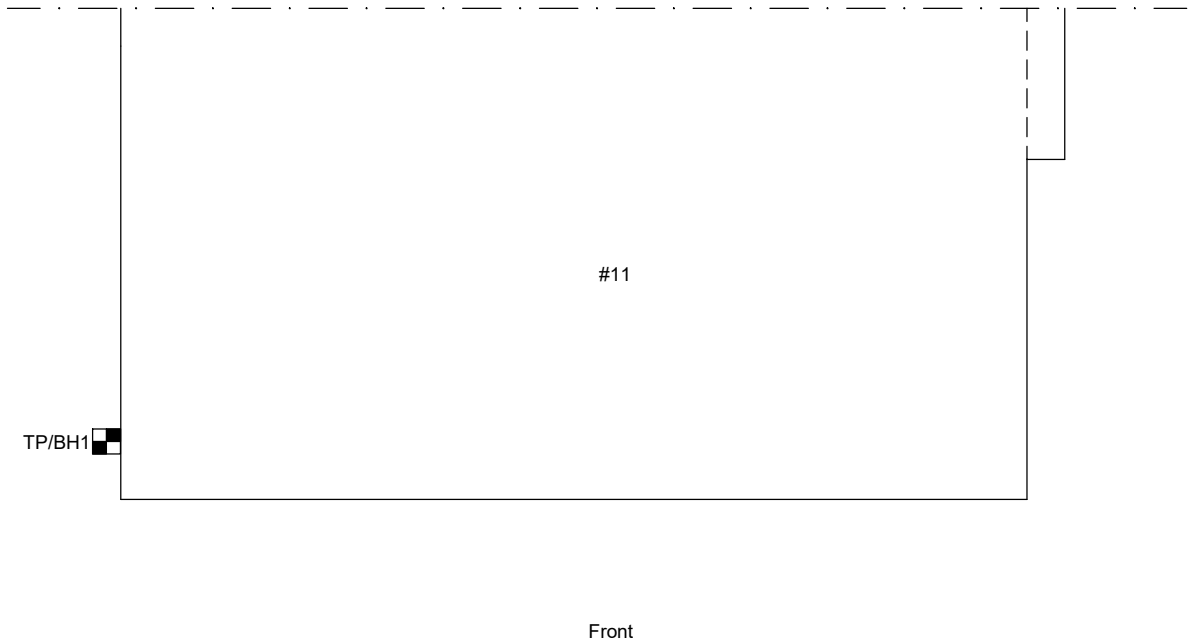
SITE PLAN

Property Address: 11 Ferndale, Southampton, Hampshire, SO30 0PP

Client Claim Ref: SU2203818

Survey date: 16/11/2022

Operative: SW1



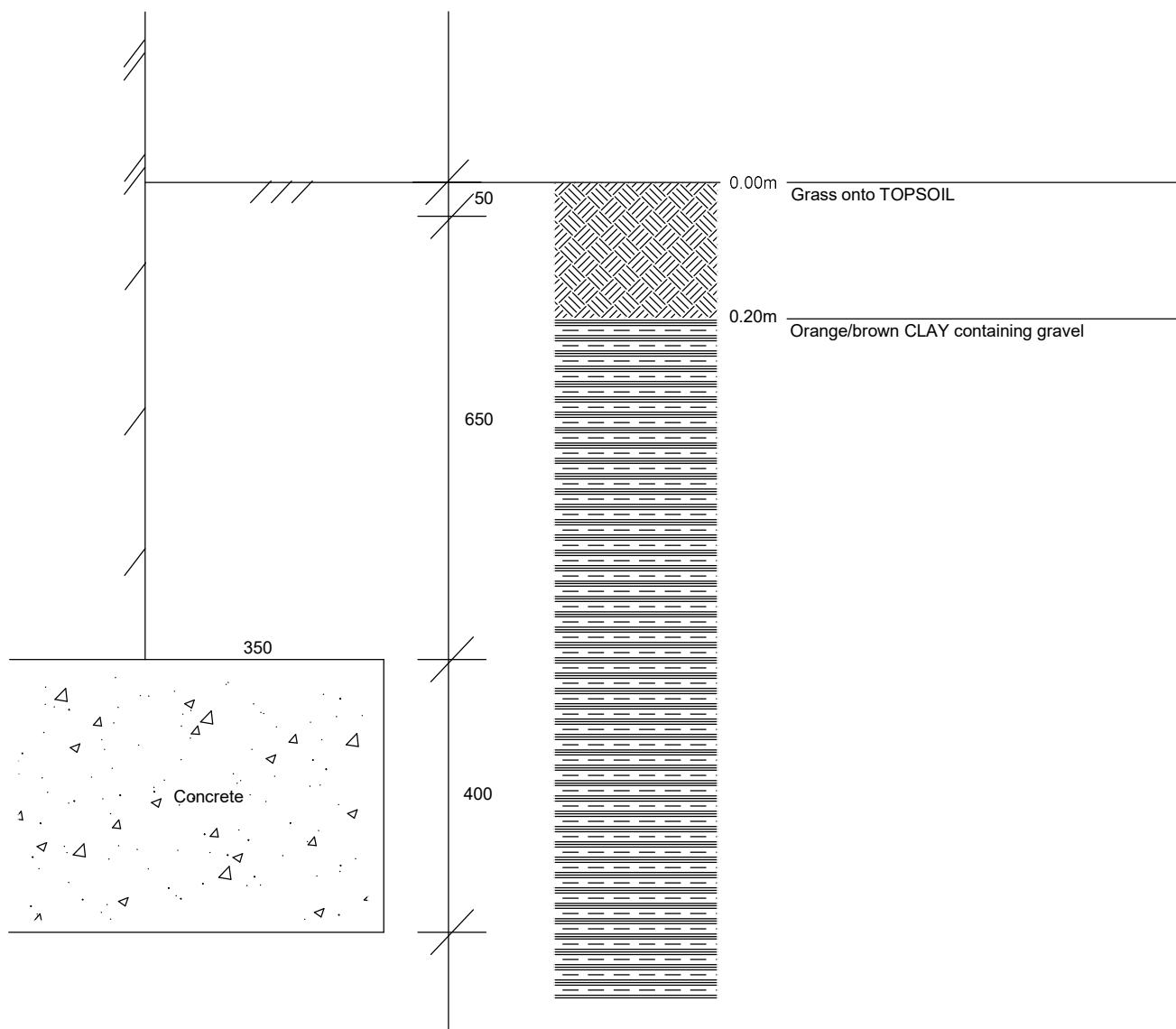
Scale: NTS	Drawn by: SB	Key:  Trial Pit  Borehole  Manholes  Rain Water Pipe  Soil & Vent Pipe  Surface Water Gully  Foul Water Gully  Shrub  Tree (Conifer)  Tree (Deciduous)
----------------------	------------------------	--

TRIAL PIT 1

Property Address: 11 Ferndale, Southampton, Hampshire, SO30 0PP

Client Claim Ref: SU2203818

Survey date: 16/11/2022

Operative: SW1


D1 @ F.L. (1.10m)

V = 46-56kPa

Founding strata: Orange/brown CLAY containing gravel

Trial Pit Location:

Drawn by:

SB

Scale:

1:10

D= small disturbed sample, B= large bulk sample, U= undisturbed sample,
MP= mackintosh probe blow counts, V= shear vane reading (kPa)



Fastrack Site Investigations Ltd
Unit 9, Tyndales Farm
Southend Road
Maldon CM9 6TQ

Borehole Log

Borehole No.

BH1

Sheet 1 of 1

Project Name: SU2203818

Project No.
25455

Site Date: 16/11/2022

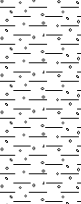
Hole Type
BH

Location: 11 Ferndale, Southampton, Hampshire, SO30 0PP

Scale
1:17

Client: Crawford

Logged By
SW1

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
				0.20		Grass onto TOPSOIL <i>Foundation top-0.05m (Stone construct has a thickness of 650mm. One concrete step out projects 350mm with a thickness of 400mm respectively)</i>	
						Orange/brown CLAY containing gravel	
						<i>Water strike noted at 0.70m</i>	
	1.10	D	V (kPa) = 46 V (kPa) = 56	1.10		Grey silty CLAY containing gravel <i>Foundation level-1.10m</i>	1
	1.50	D	V (kPa) = 58 V (kPa) = 66				
	2.00	D	V (kPa) = 132 V (kPa) = 146				2
	2.50	D	V (kPa) = 140				
	3.00	D	V (kPa) = 140	3.00		End of Borehole at 3.000m	3

Key: D - Disturbed Sample V - Insitu Vane Test MP - Mackintosh Probe Test

Remarks: Borehole closed at 3.00m.
Standing water noted at base of borehole on completion.
No roots found.





Tyndales Farm, Southend Road, Woodham Mortimer,
Maldon, Essex, CM9 6TQ

Tel: 01245 223033
Fax: 0844 3358907
Email: enquiries@fastrackgroup.co.uk
Web: www.fastracksiteinvestigations.co.uk

Appendix No: 3
FSI Ref: 25455

LABORATORY RESULTS

Property Address: 11 Ferndale, Hedge End, Southampton, Hampshire, SO30 0PP

Client Claim Ref: SU2203818

Client: Crawford & Company

SAMPLE DETAILS		ANALYSIS REQUESTED	
Investigation date:	16/11/2022	Moisture Content	☒ PSD ☐
Sample details:	Bags as received	Liquid Limit	☒ Soil Suction ☐
Samples received:	18/11/2022	Plastic Limit	☒ Shear Strength ☐
Schedule recieved:	18/11/2022	Plasticity Index	☒ Contamination ☐
Samples tested:	22/11/2022-25/11/2022	Root ID	☒ Root/Tree DNA ☐
Results reported:	25/11/2022	Other (please state)	☐

TEST DETAILS

General

Sample descriptions were written in accordance with BS 5930:1999.

Samples were prepared in accordance with BS 1377: Part 1: 1990, section 7

Samples from this contract will be retained for 1 calendar month following the issue of this report unless otherwise notified

Written approval is required from Fastrack Site Investigations Limited to reproduce report in full. The results shown within this report only relate to the samples tested

Moisture Content

Samples were tested in accordance with BS 1377: Part 2: 1990, section 3.2 (Oven drying method)

In accordance with Note 1 to paragraph 3.2.4 of BS 1377 Part 2 1990; these moisture contents have been corrected to give the equivalent moisture content of the fraction passing the 425µm sieve, to enable comparison with the liquid & plastic limits. (If condition of test is 'natural' the retained percentage is an estimated value, if condition is 'washed' the percentage is a measured value).

Samples are dried at 105-110°C unless otherwise stated.

Atterberg Limits

Samples were tested in accordance with BS 1377: Part 2: 1990, section 4.3 (4 drop LL), 4.4 (1 drop LL), 5.3 (PL) and 5.4 (PI)

Test results on samples with a sand content, may show less accurate results. If condition of test is 'washed' results relate to the fraction passing the 425µm sieve only.

* *Driscoll's rules deem the soil to be desiccated where the moisture content is less than the value calculated using driscoll's rule 1 and/or 2*

Particle Size Distribution

Samples were tested in accordance with BS 1377: Part 2: 1990 section 9.2 (Wet sieving method)

Undrained Shear Strength

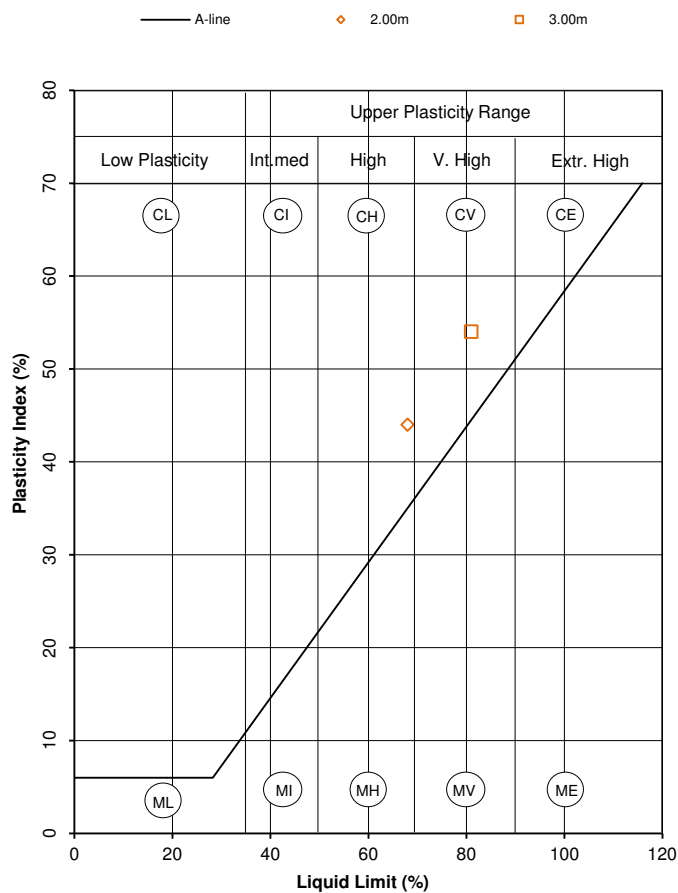
Samples were prepared in accordance with BS 1377: Part 7: 1990 section 8.3 and testing in accordance with BS 1377: Part 7: 1990: section 8.4 (undrained shear strength in triaxial compression without measurement of pore pressure (UU))

Soil Suction

Samples were prepared and tested based on the BRE digest No:IP4/93 (Corrected). 'A method of determining the state of desiccation in clay soils.' (Filter paper method).

Test results on samples with a sand or silt content, may show less accurate results. Deviation to standard procedure - Polythene bags are not used from weighing filter papers.

Property Address:	11 Ferndale, Hedge End, Southampton, Hampshire, SO30 0PP
Client Claim Ref:	SU2203818

[illegible]

Comments:	BH1 @ 1.10m - Unable to perform atterberg limits due to incohesive soil
-----------	---

☐ Ted Smith (Laboratory Technician)

Fastrack Site Investigations Ltd
Unit 9 Tyndales Farm
Southend Road
Woodham Mortimer
Essex
CM9 6TQ

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

ROOT IDENTIFICATION

11 Ferndale, Hedge End, SO30 0PP

Client Reference: 25455
Report Date: 22 November 2022
Our Ref: R48606

Sub Sample	Species Identified		Root Diameter	Starch
BH1:				
1.1m	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	1	1.5 mm	Absent
1.5m	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	2	2 mm	Low
1.8m	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	3	1 mm	Absent

Comments:

- 1 - Plus 1 other the same.
- 2 - Plus 2 others the same.
- 3 - Plus 1 other the same.

Quercus spp. are oaks. *Castanea* spp. include sweet chestnut.

Signed: G S Turner

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

