

## SITE INVESTIGATION FACTUAL REPORT

Report No: 772686  
Client: Sedgwick International UK - Maidstone  
Site: 91 Wiltshire Lane, Pinner  
Client Ref: 8982080  
Date of Visit: 20/11/2020

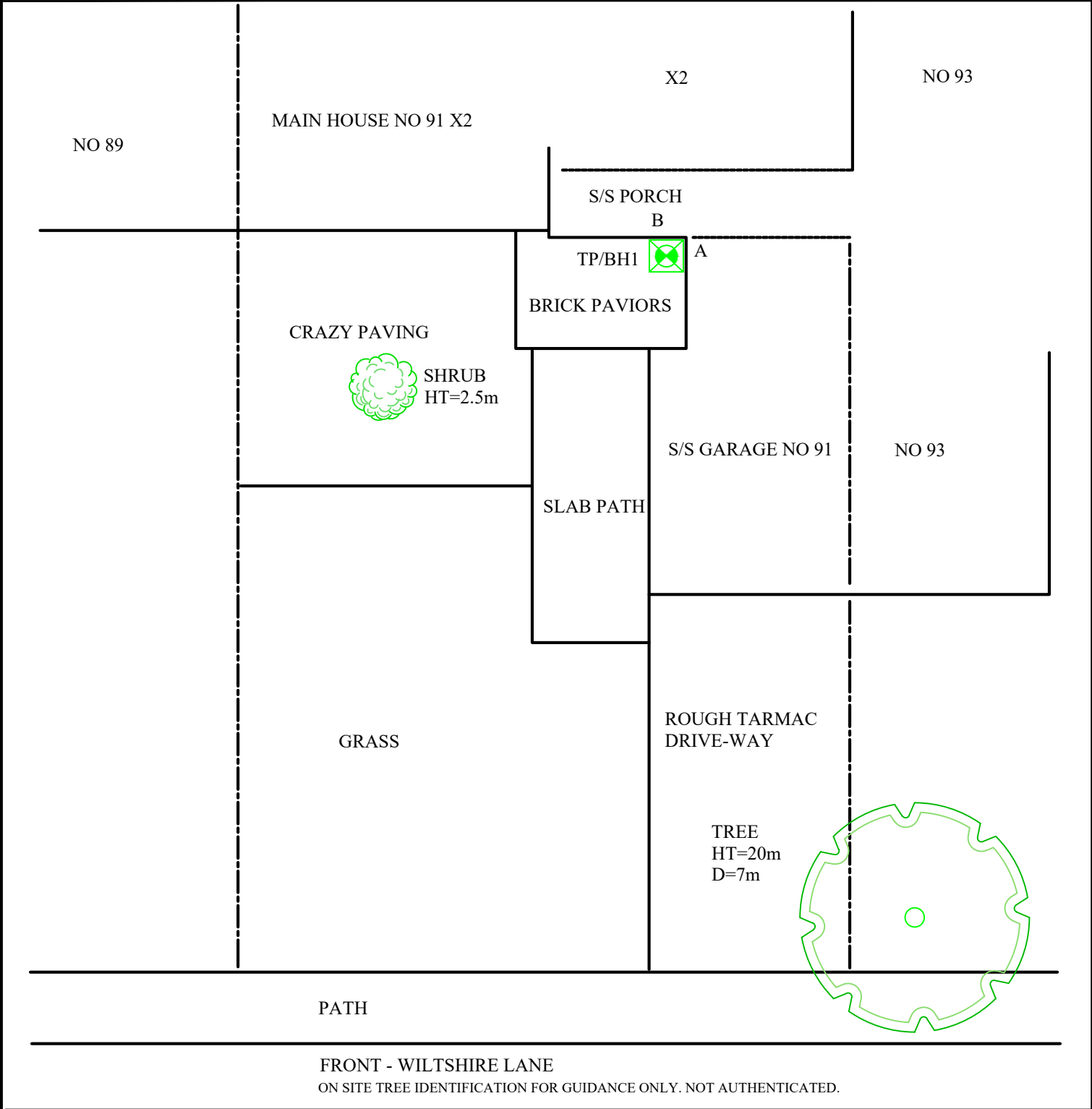


**Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys**

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

☎ 0343 2272362  
✉ [enquiries@cet-uk.com](mailto:enquiries@cet-uk.com)  
💻 [www.cet-uk.com](http://www.cet-uk.com)

CET is the trading name of CET Structures Ltd  
Registered in England No. 02527130



Remarks:	Key:		Surface Water Drain	---
	Combined Gulley	RWWG	Foul Water Drain	---
Scale: N.T.S.	Manhole	MH	Tree / Bush	(approx. ht in m)
	Rain Water Pipe	RWP	Trial Pit	
	Rain Water Gulley	RWG	Borehole	
	Soil Vent Pipe	SVP	O/D - Open Discharge	
	Waste Gulley	WG		
	Waste Pipe	WP		

**TEST REPORT:** Trial Pit

REPORT NUMBER: C1048113 / 119818.1.1.1

TRIAL PIT REF: TP1 A

CLIENT: Sedgwick International UK

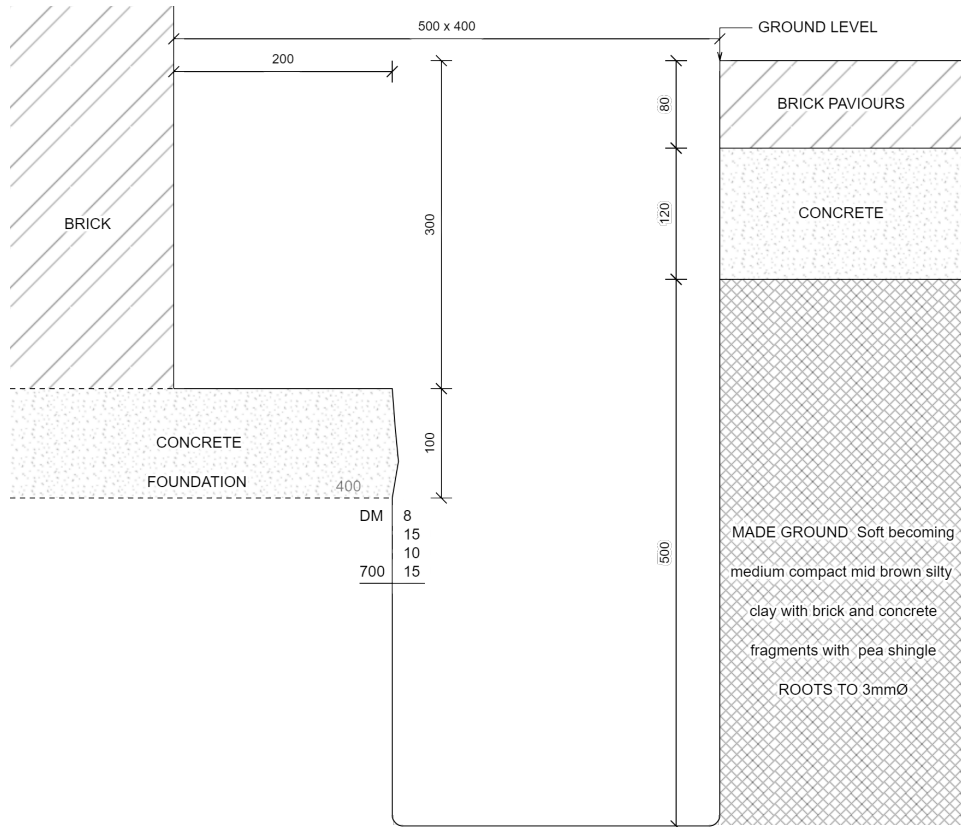
JOB NO: 772686

EXCAVATION METHOD: Hand tools

DATE: 20/11/2020

SITE: 91 WILTSHIRE LANE

WEATHER: Dry



For Strata below 700mm see Bore Hole log

**Key:**

D Small disturbed sample J Jar sample  
B Bulk disturbed sample V Pilcon vane (kPa)  
W Water sample M Mackintosh probe  
TDTD Too dense to drive

**Remarks:**

Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the Laboratory.

For and on behalf of CET

Scott Alger - Lab

Report Format:

DE74 2UD

Approved Signatory

23-Nov-20

01622 858545  
enquiries@cet-uk.com  
www.cet-uk.com

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Report version 1

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**TEST REPORT:** Trial Pit

REPORT NUMBER: C1048113 / 119818.1.1.2

TRIAL PIT REF: TP1 B

CLIENT: Sedgwick International UK

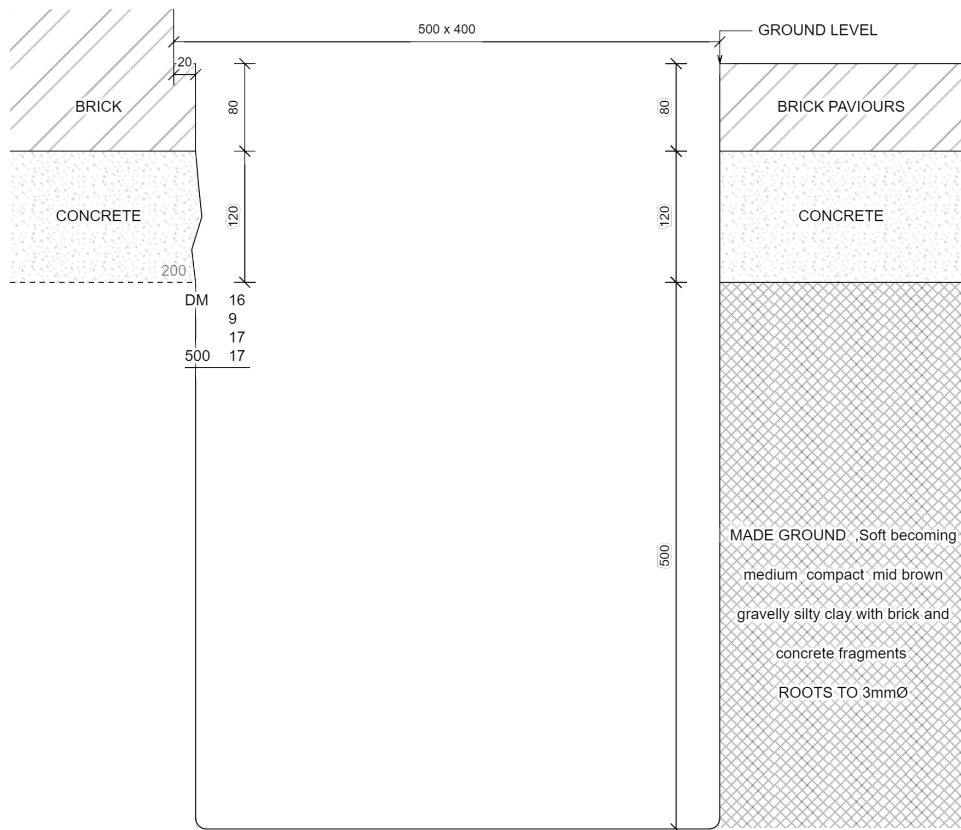
JOB NO: 772686

EXCAVATION METHOD: Hand tools

DATE: 20/11/2020

SITE: 91 WILTSHIRE LANE

WEATHER: Dry



For Strata below 700mm see Bore Hole log

Electric cable enters under concrete at depth of 200mm beneath front door/porch.see photos

Key:  
D Small disturbed sample J Jar sample  
B Bulk disturbed sample V Pilcon vane (kPa)  
W Water sample M Mackintosh probe  
TDTD Too dense to drive

Remarks:  
Test results reported relate only to the items tested.  
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Report version 1

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[illegible]

# Laboratory Summary Results

Our Ref : 772686

Date Sampled: 20/11/2020

Location : 91, Wiltshire Lane, Pinner

Date Received : 23/11/2020

Client: Sedgwick International UK - Maidstone

Date Tested : 25/11/2020

Address: 4 North Court, South Park Business Village, Armstrong Road, ME15 6JZ

Date of Report : 01/12/2020

Sample Ref		Type	Moisture Content	Soil Fraction > 0.425mm ( % ) [2]	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity * Index	Modified * Plasticity Index ( % ) [6]	Soil * Class	Filter Paper Contact Time ( d )	Soil Sample Suction (kPa) [8]	Oedometer Strain	Estimated * Heave Potential (Dd) (mm)[10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content	pH * Value	Sulphate Content * ( g / l )		* Class
TP/BH No	Depth ( m )																	SO3 [14]	SO4 [15]	
1	(B) U/S 0.20	D	14	70	40	17	23	-0.12	7	CI	Not suitable for suction testing-Made Ground									
	(A) U/S 0.40	D	21	54	68	25	43	-0.10	20	CH	Not suitable for suction testing-Made Ground									
	1.0	D	7.64	89	Insufficient sample for further testing					Not suitable for suction testing-Made Ground										

## 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 fine soils

[8] In-house method S9a adapted from BRE IP 4/93

[9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CET using

a Pilcon hand vane or Geonor vane (GV).

[12] BS 1377 : Part 3 : 1990, Test No 4

[13] BS 1377 : Part 2 : 1990, Test No 9

[14] BS 1377 : Part 3 : 1990, Test No 5.6

[15] SO<sub>4</sub> = 1.2 x SO<sub>3</sub>

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO<sub>4</sub> 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.

\* 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



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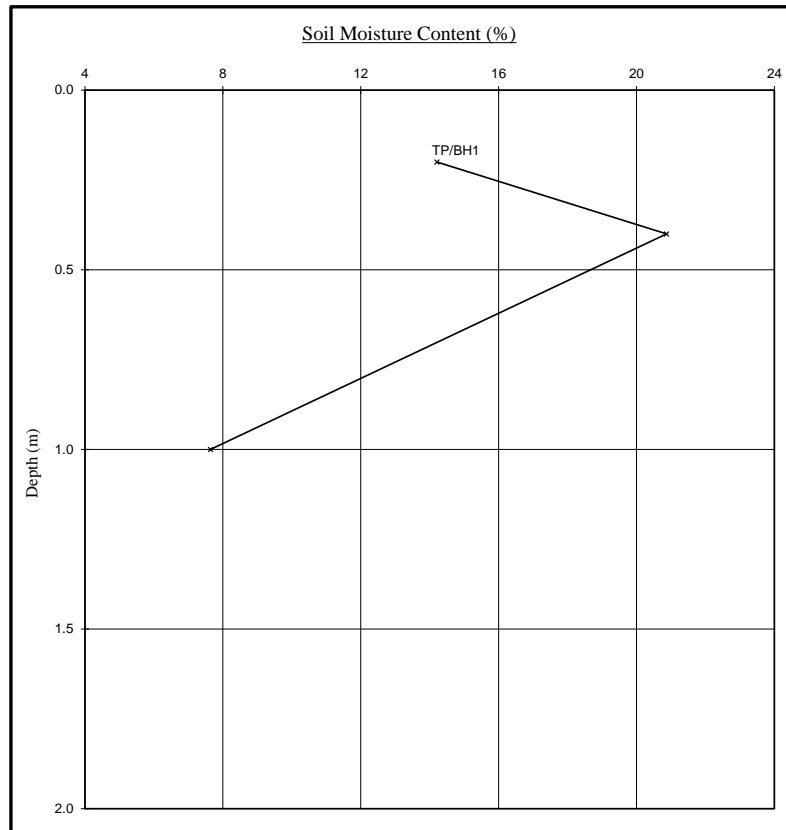
Construction Testing Solutions Ltd t/a CET Infrastructure - Lawness Barns, Mountnessing Road, Billericay, Essex CM12 0TS

Version: 5BH V1 - 11.11.20

0927

## Moisture Content Profiles

Our Ref : 772686  
Location : 91, Wiltshire Lane, Pinner  
Work carried out for: Sedgwick International UK - Maidstone

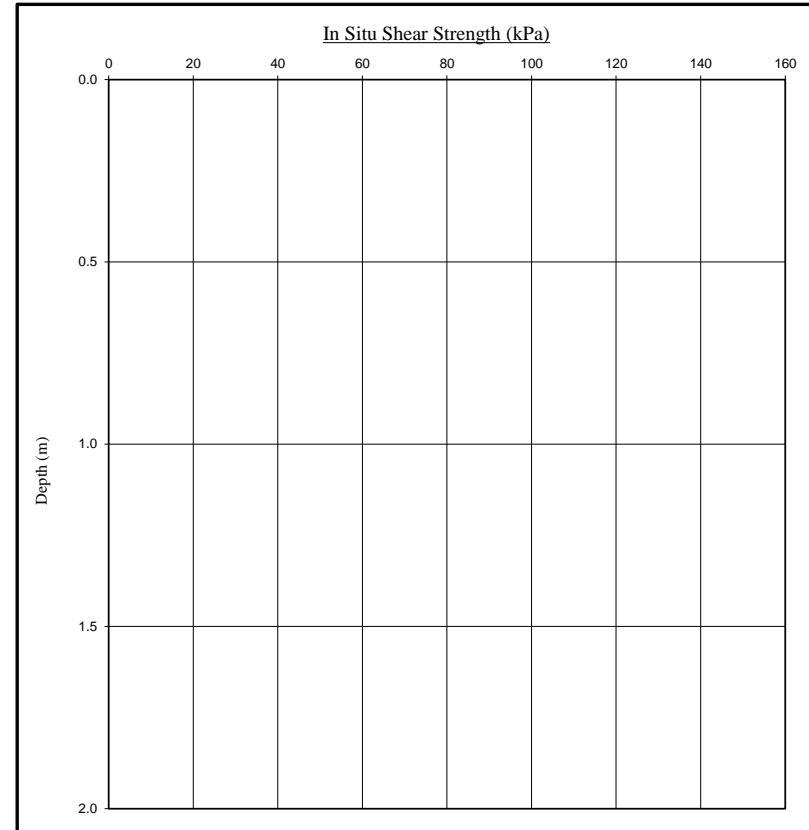


### Notes

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.

## Shear Strength Profiles

Date Sampled : 20/11/2020  
Date Received : 23/11/2020  
Date Tested : 25/11/2020  
Date of Report : 01/12/2020



### Note

1. Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

<b>EPSL</b> <b>European Plant Science Laboratory</b>	Sheet: 1 of 1	Site: <b>91 Wiltshire Lane,</b>
	Job No: <b>772686</b>	Work carried
	Date: <b>24/11/2020</b>	out for: <b>Sedgwick International UK</b>
	Order No: <b>1639165</b>	
EPSL Ref: <b>R39478</b>		

### *Certificate of Analysis*

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.

The results were as follows -

<b><u>Trial pit/ Borehole number</u></b>	<b><u>Root diameter (mm)</u></b>	<b><u>Tree, shrub or climber from which root originates</u></b>	<b><u>Result of starch test</u></b>
TP1A Garage (USF)	2 mm	Pinus spp.	Positive
TP1A Garage (USF)	1 mm	Monocotyledon spp. 2 roots	Negative
TP1B Porch (USF)	2 mm	Pinus spp.	Positive
TP1B Porch (USF)	1 mm	Monocotyledon spp. 2 roots	Negative
BH1 (to 1.2m)	1 mm	Pinus spp.	Positive

Pinus spp. are pines.

Monocotyledon spp. include palms, grasses, bamboos and lilies.



MDM

**Address for correspondence:** EPSL, Intec, Parc Menai, Bangor, Gwynedd, North Wales, LL57 4FG

**Telephone:** 01248 672 652

**e-mail:** [lab@innovation-environmental.co.uk](mailto:lab@innovation-environmental.co.uk)

**Head of Laboratory Services :** M D Mitchell B.Sc. (Hons), M.Phil.

**Plant Anatomist :** Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D

**Plant Anatomist :** Dr R J Shaw B.Sc. (Hons), Ph.D

**Consultant:** Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D

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