

**CCTV REPORT FOR: 48 GWENDOLINE DRIVE
COUNTESTHORPE
LEICESTERSHIRE
LE8 5SE**

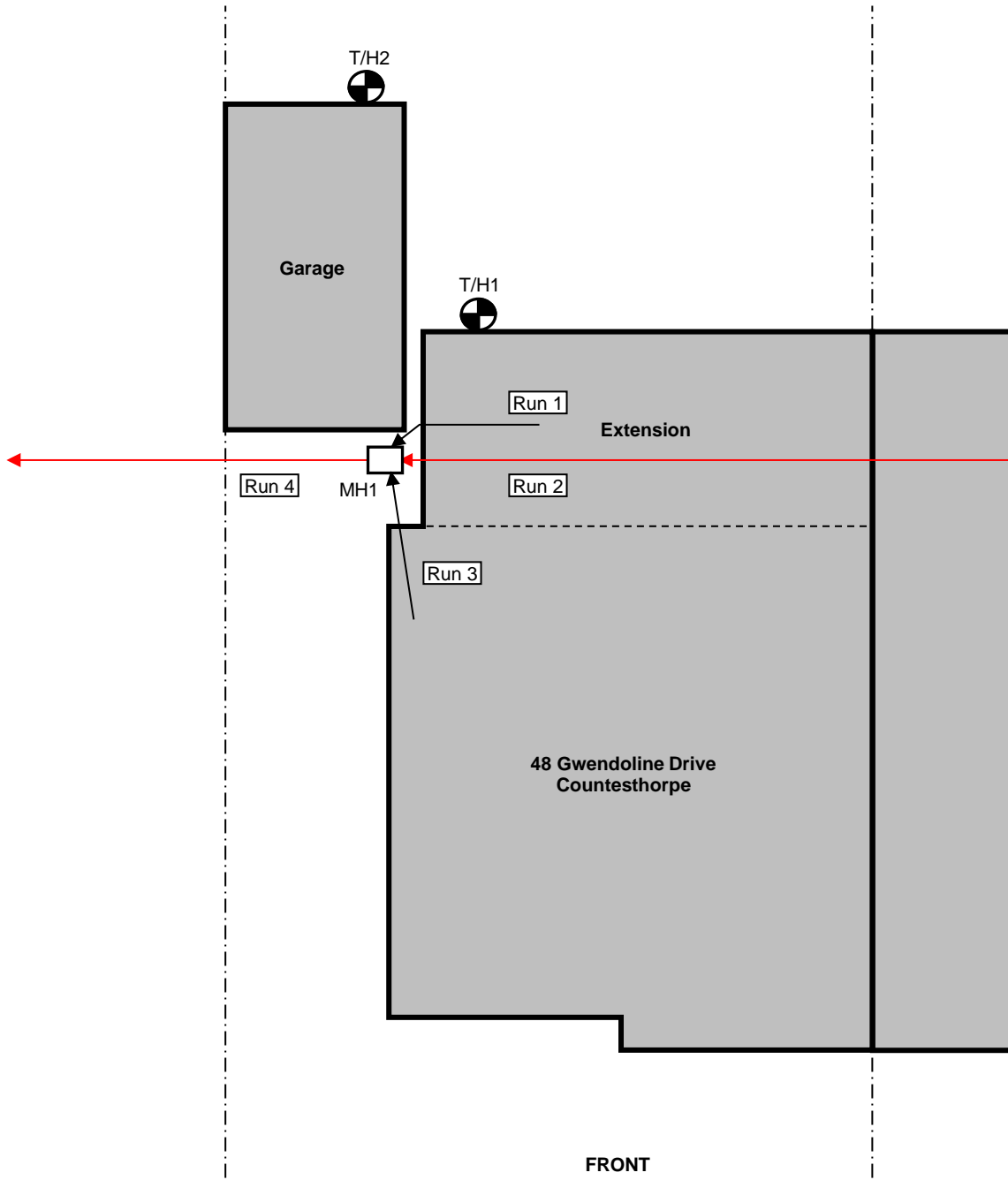
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LIMITATION OF REPORT



Site Visit: 17-Jan-23
Report Date: 28-Mar-23

Site Crew: SD

Date: 17-Jan-23



(This plan is not to be scaled and is provided to illustrate general layout only)

General Comments:

Note: Runs shown in red have been adopted by the local water authority.

- Key:**
- = Storm Gully
 - = Storm Pipe
 - = Foul Gully
 - = W/C or Soil Pipe
 - = Inspection Chamber
 - = Rodding Eye
 - = Surveyed pipe indicating flow
 - = Unsurveyed pipe
 - +
 = Exploratory Hole (hand dug pit and/or hand auger)
 - = Boundary line
 - = Hedges & Shrubs
 - = Trees & bushes
 - = Area of damage

Address: 48 GWENDOLINE DRIVE, COUNTSTHORPE, LEICESTERSHIRE, LE8 5SE

Site Crew: SD Date: 17-Jan-23

RUN: 1 Pipe Dia. (mm): 100 System: Foul Water Made of: Glazed Clay
From: MH1 Inv (m): 1.65 Upstream **To:** Capped End Inv (m): -

Metres	Faults / Defects	Remarks
0.00		At MH1
0.49		Pipe bends up
0.80	Medium Displaced Joint	Debris (Coarse)
1.98		Pipe bends up
2.36		Inlet at 10 o'clock
2.77		At capped end of run
		End of survey

RUN: 2 Pipe Dia. (mm): 150 System: Foul Water Made of: Glazed Clay
From: MH1 Inv (m): 1.65 Upstream **To:** Boundary Inv (m): -

Metres	Faults / Defects	Remarks
0.00		At MH1
0.30	Circumferential Crack 12 to 12 o'clock	
0.57	Medium Displaced Joint	
1.10		Pipe bends up
1.29	Medium Displaced Joint	
1.86	Medium Displaced Joint	
4.48	Medium Displaced Joint	
5.51	Circumferential Crack 12 to 12 o'clock	
6.00	Circumferential Crack 12 to 12 o'clock	
6.35	Medium Displaced Joint	
6.92	Medium Displaced Joint	
7.68	Circumferential Crack 9 to 3 o'clock	
9.46		Inlet at 2 o'clock
9.77	Medium Open Joint	
10.00		Past area of concern
		End of survey

RUN: 3 Pipe Dia. (mm): 150 System: Foul Water Made of: Glazed Clay
From: MH1 Inv (m): 1.65 Upstream **To:** Bathroom Inv (m): -

Metres	Faults / Defects	Remarks
0.00		At MH1
0.27	Large Displaced Joint	
0.76		Pipe bends up
1.63	Medium Displaced Joint	
2.51		Pipe bends up 90°
2.93	Large Displaced Joint	Unable to proceed
		End of survey

Defects shown in RED relate to runs adopted by the Local Water Authority

Address: **48 GWENDOLINE DRIVE, COUNTSTHORPE, LEICESTERSHIRE, LE8 5SE**



Drainage
Repair Company
CCTV SURVEY DETAILS

Site Crew: SD Date: 17-Jan-23

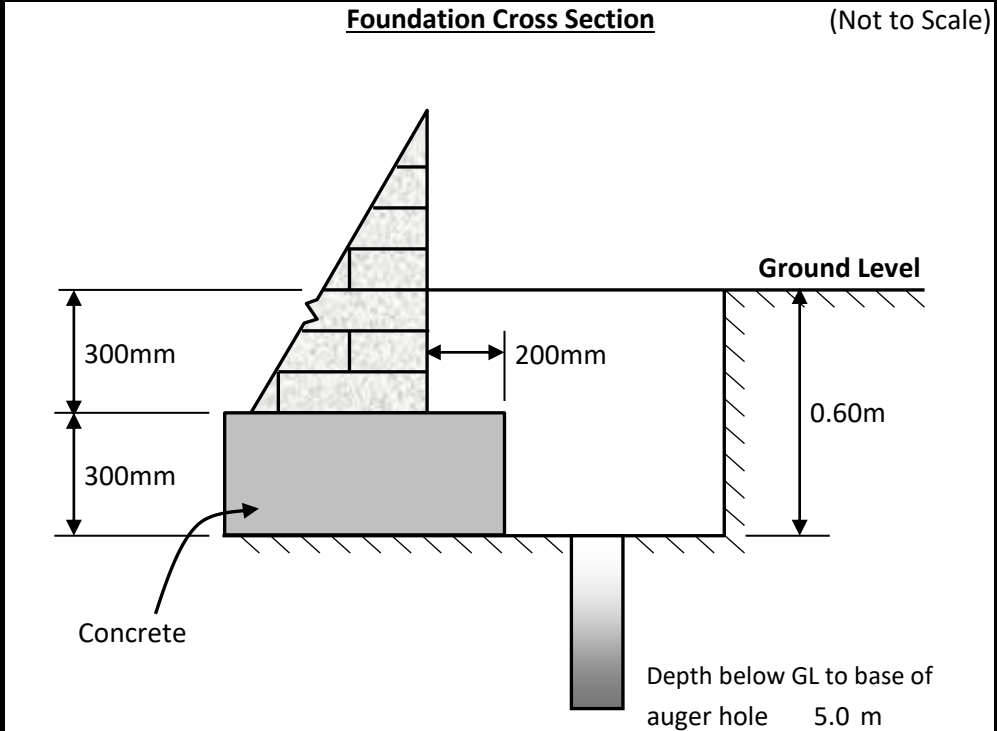
RUN: 4 **Pipe Dia. (mm):** 150 **System:** Foul Water **Made of:** Glazed Clay
From: MH1 **Inv (m):** 1.65 Downstream **To:** Boundary **Inv (m):** -

Metres	Faults / Defects	Remarks
0.00		At MH1
1.03	Circumferential Crack 12 to 12 o'clock	
1.56	Circumferential Crack 12 to 12 o'clock	
4.07	Medium Displaced Joint	
4.83	Medium Displaced Joint	
6.80		Past area of concern
		End of survey

Defects shown in RED relate to runs adopted by the Local Water Authority

Address: 48 GWENDOLINE DRIVE, COUNTSTHORPE, LEICESTERSHIRE, LE8 5SE

Location: **Rear Left Corner of Rear Extension** T/H No. **1**
 Ground Surface: **Damp** Weather: **Dry** Date: **17-Jan-23**

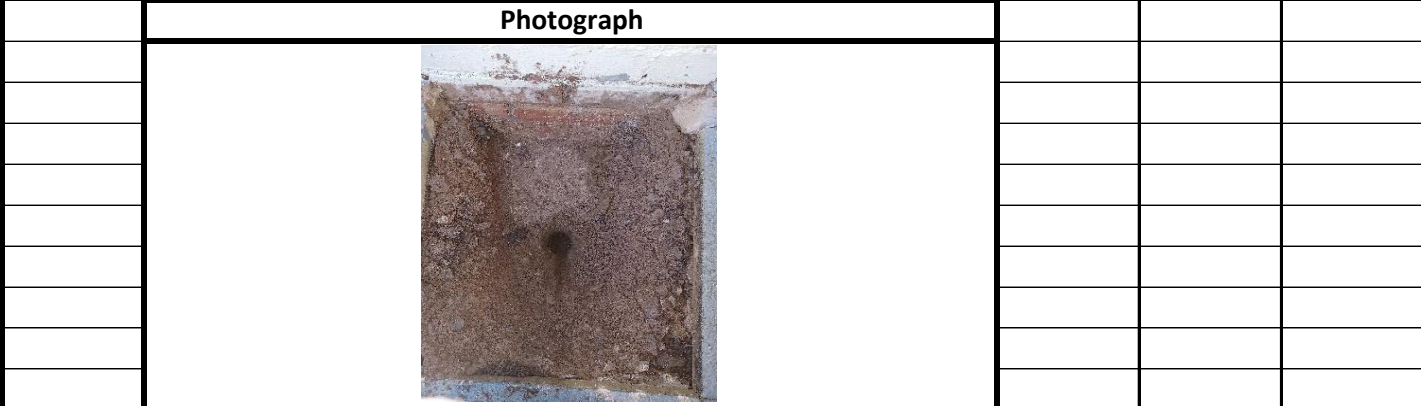


Roots Depth & Diameter:
 From 0.6m
 Down to 3.6m
 up to 3mm diameter

Water Depth Hit & Rise:
 None observed on site

Reason for Termination:
 Hole at instructed depth

Depth (m)	Soil Descriptions <i>(NB: Field crew description only)</i>	Test Type	Depth (m)	
			From	To
G.L.				
0.60	Firm brown very gravelly sandy CLAY	V(n) 55	0.600	
1.60	Firm brown slightly gravelly sandy CLAY	V(n) 62	1.600	
2.60	Firm/stiff brown slightly gravelly slightly sandy CLAY	V(n) 78	2.600	
5.00	End of Borehole	V(n) 95	3.600	
		V(n) 94	4.600	

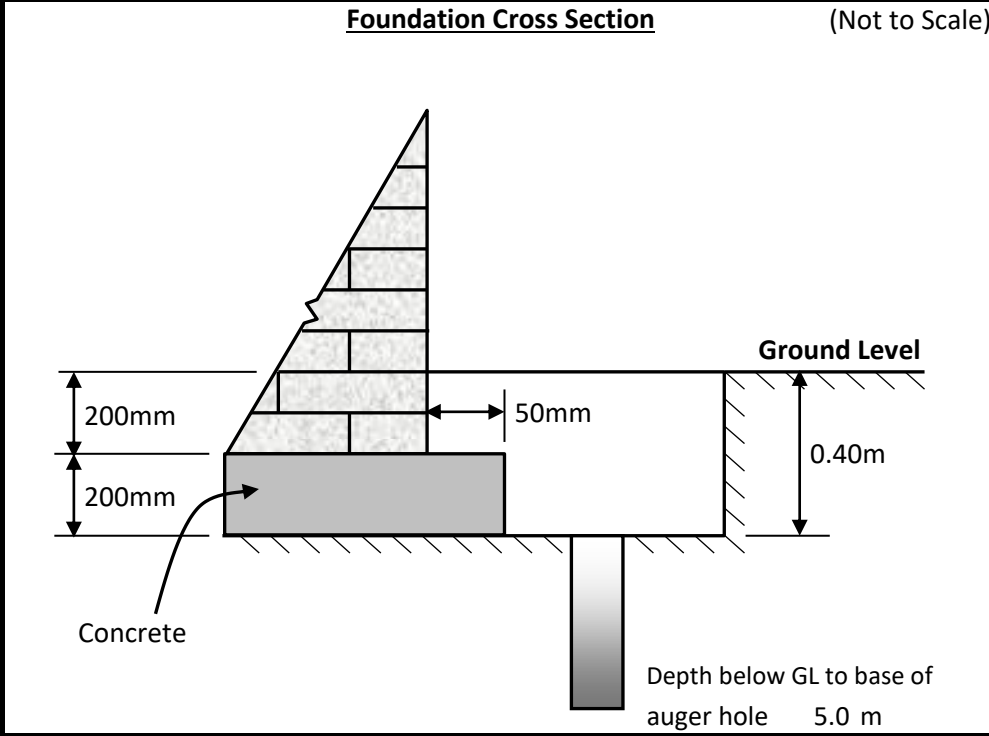


General Comments :

Key: Mac=Macintosh Probe, V(n)=Natural Shear Vane, P.P. = Pocket Penetrometer

Address: **48 GWENDOLINE DRIVE, COUNTSTHORPE, LEICESTERSHIRE, LE8 5SE**

Location: **Rear Left Corner of Rear Extension** T/H No. **2**
 Ground Surface: **Damp** Weather: **Dry** Date: **17-Jan-23**

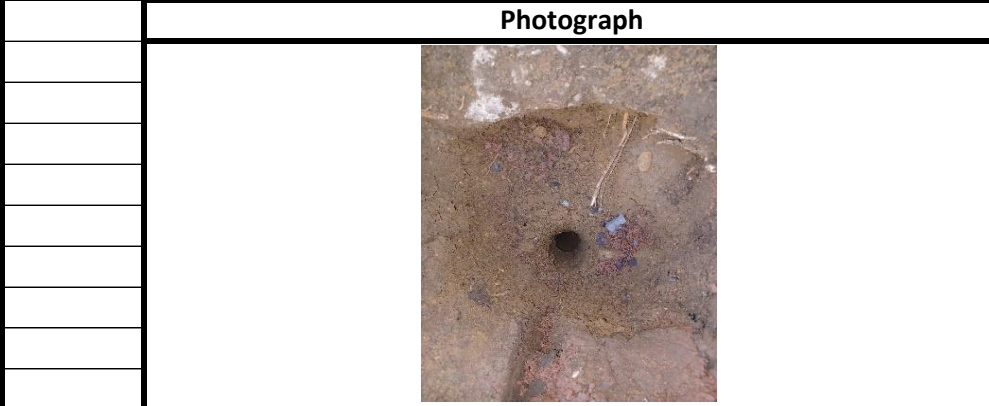


Roots Depth & Diameter:
 From 0.4m
 Down to 3.4m
 up to 3mm diameter

Water Depth Hit & Rise:
 None observed on site

Reason for Termination:
 Hole at instructed depth

Depth (m)	Soil Descriptions <i>(NB: Field crew description only)</i>	Test Type	Depth (m)	
			From	To
G.L.				
0.40	Soft/firm brown slightly gravelly sandy CLAY	V(n) 54	0.400	
2.40	Firm/stiff brown slightly gravelly slightly sandy CLAY	V(n) 60	1.400	
3.40	Stiff brown slightly gravelly slightly sandy CLAY	V(n) 77	2.400	
5.00	End of Borehole	V(n) 92	3.400	
		V(n) 96	4.400	



General Comments :

Key: Mac=Macintosh Probe, V(n)=Natural Shear Vane, P.P. = Pocket Penetrometer

Address: **48 GWENDOLINE DRIVE, COUNTSTHORPE, LEICESTERSHIRE, LE8 5SE**

EXECUTIVE SUMMARY

Brief:	The Drainage Repair Company Ltd were commissioned to undertake a CCTV survey / inspection of the drainage at the property.
Specific Area of Interest:	Accessible drainage at the rear right of the property.
System Access:	Inspection chamber to rear right.
Visual Survey:	N/A
Water Pressure Test:	No

SUMMARY OF FINDINGS

Defects requiring repair:	Yes
Is any damaged section shared:	Yes
No. of properties sharing:	N/A
Age of property / system:	Unknown
Cause of damage:	N/A

GENERAL SUMMARY

The results of the CCTV / inspection survey to the underground drainage system at the above address are as follows:

Run 1 - Foul - Private:

Medium displaced joint, rubble debris, run capped at 2.77m.
Pipework was noted as dry and may not be in service.

Run 2 - Foul - Shared, Local Water Authority:

Medium displaced joints, circumferential cracks.

Run 3 - Foul - Private:

Large and medium displaced joints.

Run 4 - Foul - Shared, Local Water Authority:

Medium displaced joints, circumferential cracks.

RECOMMENDATIONS

We would recommend returning the system to a watertight condition by repairing the defects as follows:

Run 1:

Test all services to determine whether Run 1 is in service. If so carry out high pressure water jetting to prepare pipework for lining. Install a patch liner over displaced joint at 0.8m.

If run is not in service cap off within MH1.

Run 2:

The pipework is shared and as such is the responsibility of the local water authority.

Run 3:

Carry out high pressure water jetting to prepare pipework for lining. Install a structural liner from MH1 upstream to vertical pipe. Install patch liner over large displacement on vertical pipe.

Run 4:

The pipework is shared and as such is the responsibility of the local water authority.

QUOTATION

Run 1:

- Test all services to determine whether Run 1 is in service
- If run is in service:
 - Carry out high pressure water jetting
 - Install a patch liner over displaced joint at 0.8m
- If run is not in service:
 - Cap run off within chamber

Run 3:

- Carry out high pressure water jetting
- Install a structural liner from MH1 upstream to vertical pipe
- Install patch liner over large displacement on vertical pipe



MH1



MH1



T/H1



T/H1

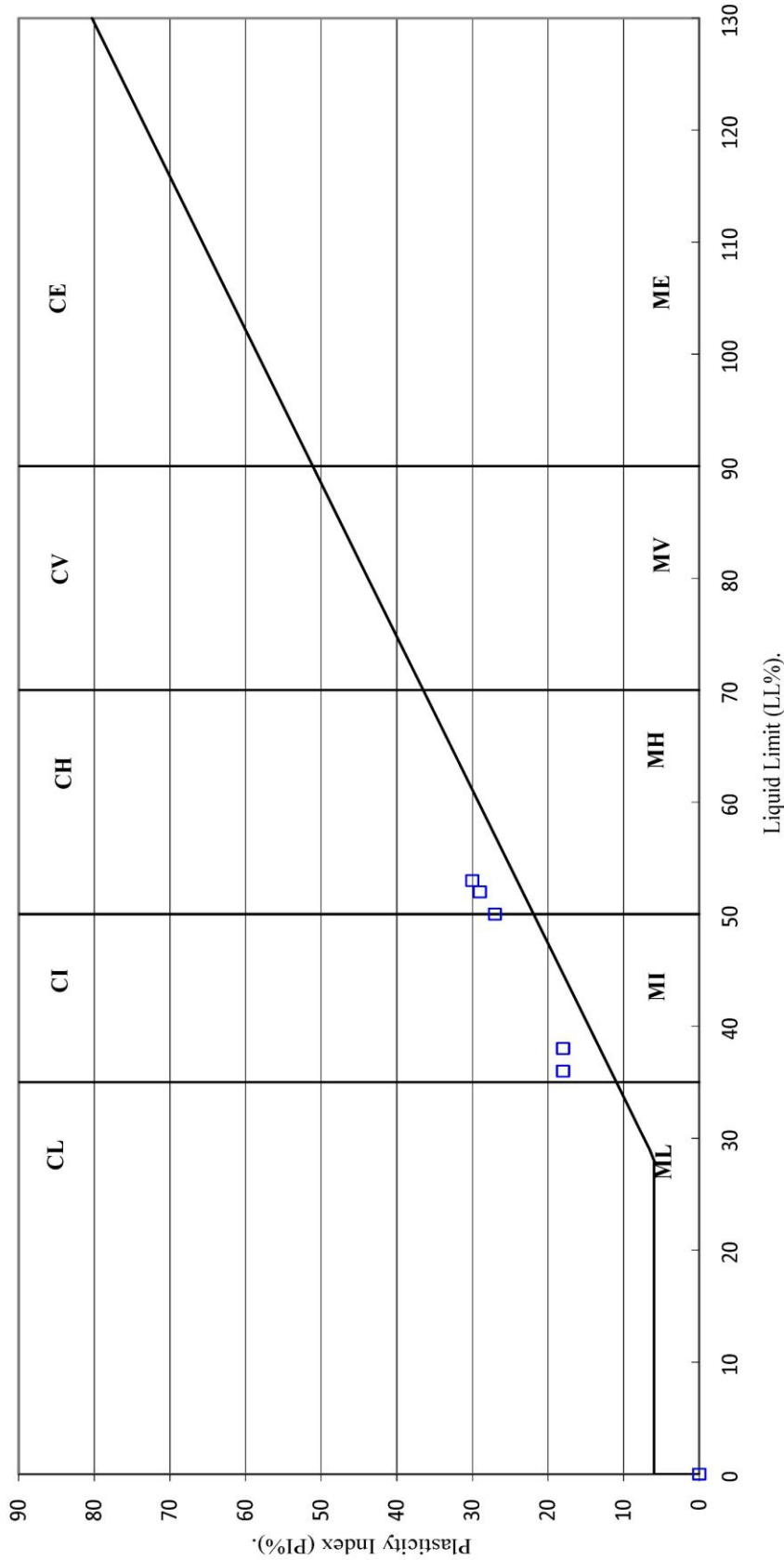


T/H2



T/H2

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



48 Gwendoline Drive, Countesthorpe, LE8 5SE

Contract No:

PSL23/1704

Client Ref:

LIV-SN-22-005359

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP/BH2			0.40	1.40	19			38	19	19	91	Intermediate Plasticity CI
TP/BH2			1.40	2.40	20			37	18	19	92	Intermediate Plasticity CI
TP/BH2			2.40	3.40	21			50	23	27	96	High Plasticity CH
TP/BH2			3.40	4.40	21			52	23	29	95	High Plasticity CH
TP/BH2			4.40	5.00	21			51	23	28	96	High Plasticity CH

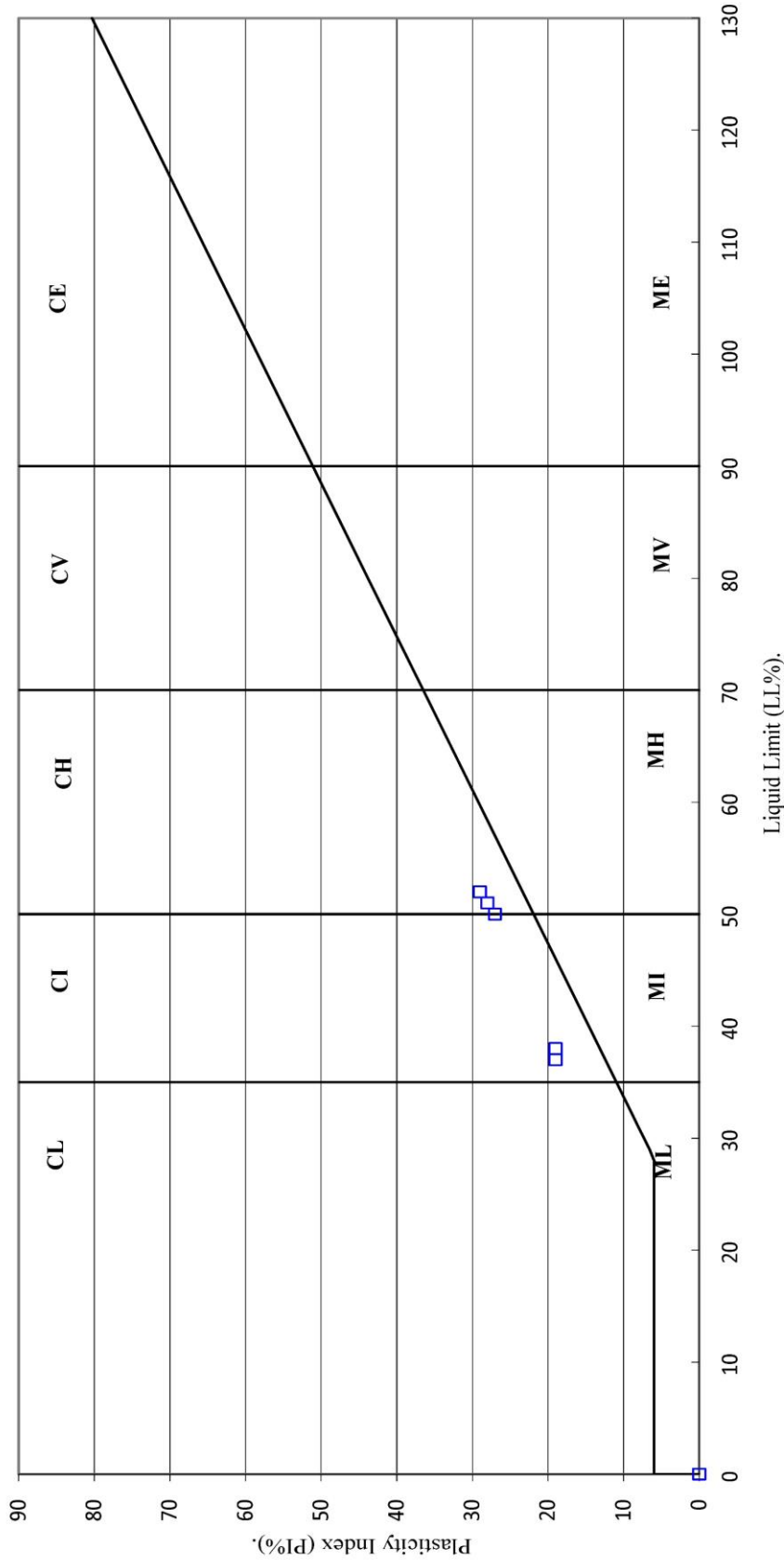
* : Liquid Limit and Plastic Limit Wet Sieved.

SYMBOLS : NP : Non Plastic

		48 Gwendoline Drive, Countesthorpe, LE8 5SE
Contract No: PSL23/1704		Client Ref: LIV-SN-22-005359

LABORATORY TESTING RESULTS

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



48 Gwendoline Drive, Countesthorpe, LE8 5SE

Contract No:

PSL23/1704

Client Ref:

LIV-SN-22-005359



Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

The Drainage Repair Company
Suite 15, Leatherline House
71 Narrow Lane
AYLESTONE
Leicester LE2 8NA

Dr Ian B K Richardson
BSc, MSc, PhD, MRSB, FLS
James Richardson
BSc (Hons. Biology)

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB

Tel: (0118) 986 9552 *(Direct line)*
E-mail: richardsons@botanical.net
Web: www.botanical.net

Your ref: -

Our ref: 85/5902

26/02/2023

Dear Sirs

48 Gwendoline Drive, Countesthorpe LE8 5SE

The samples you sent in relation to the above on 19/01/2023 have been examined. Their structures were referable as follows:

TP1, 0.6-1.6m		
6 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
3 no.	Unfortunately all with insufficient cells for identification.	
TP1, 1.6-2.6m		
7 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
TP1, 2.6-3.6m		
6 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
4 no.	Unfortunately all with insufficient cells for identification.	
TP2, 0.4-1.4m		
3 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
TP2, 1.4-2.4m		
4 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
1 no.	Examined root: too DECAYED for identification.	
TP2, 2.4-3.4m		
10 no.	Examined root: FRAXINUS (Ash).	Dead*.
4 no.	Sections of either twig, stem or sucker only - NOT roots. Although examined in our laboratory, they were not identifiable.	

Click here for more information: [FRAXINUS](#)

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully



Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

Identified with no information on vegetation, on or off site.

Report commissioned by



Address: 48 GWENDOLINE DRIVE, COUNTSTHORPE, LEICESTERSHIRE, LE8 5SE

We were commissioned to carry out an inspection of the accessible areas of the drainage to the property, identifying any major defects and recommending any repair works that may be necessary. It should be appreciated that the exact layout of the system cannot be confirmed without the exposure of inaccessible branches and connections etc.

The lack of any significant defects within the main drainage line should not be regarded as a guarantee of water tightness. Defects may be encountered upon exposure of inaccessible branches and gullies etc.

The contents of this report are strictly confined to comments concerning those terms outlined above. It is not a structural survey and must not be construed as such.

The views expressed in this report are based entirely upon a visual examination of the drainage, supported by information obtained from a CCTV inspection / water pressure test.