Intermodal Logistics Park North Ltd

INTERMODAL LOGISTICS PARK NORTH (ILPN)

Intermodal Logistics Park North (ILPN) Strategic Rail Freight Interchange (SRFI)

Project reference TR510001

Preliminary Environmental Information Report (PEIR)

Appendix 15.4: Minerals Assessment (Part 02 of 02)

October 2025

Planning Act 2008

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

This document forms a part of a Preliminary Environmental Information Report (PEIR) for the Intermodal Logistics Park North (ILPN) project.

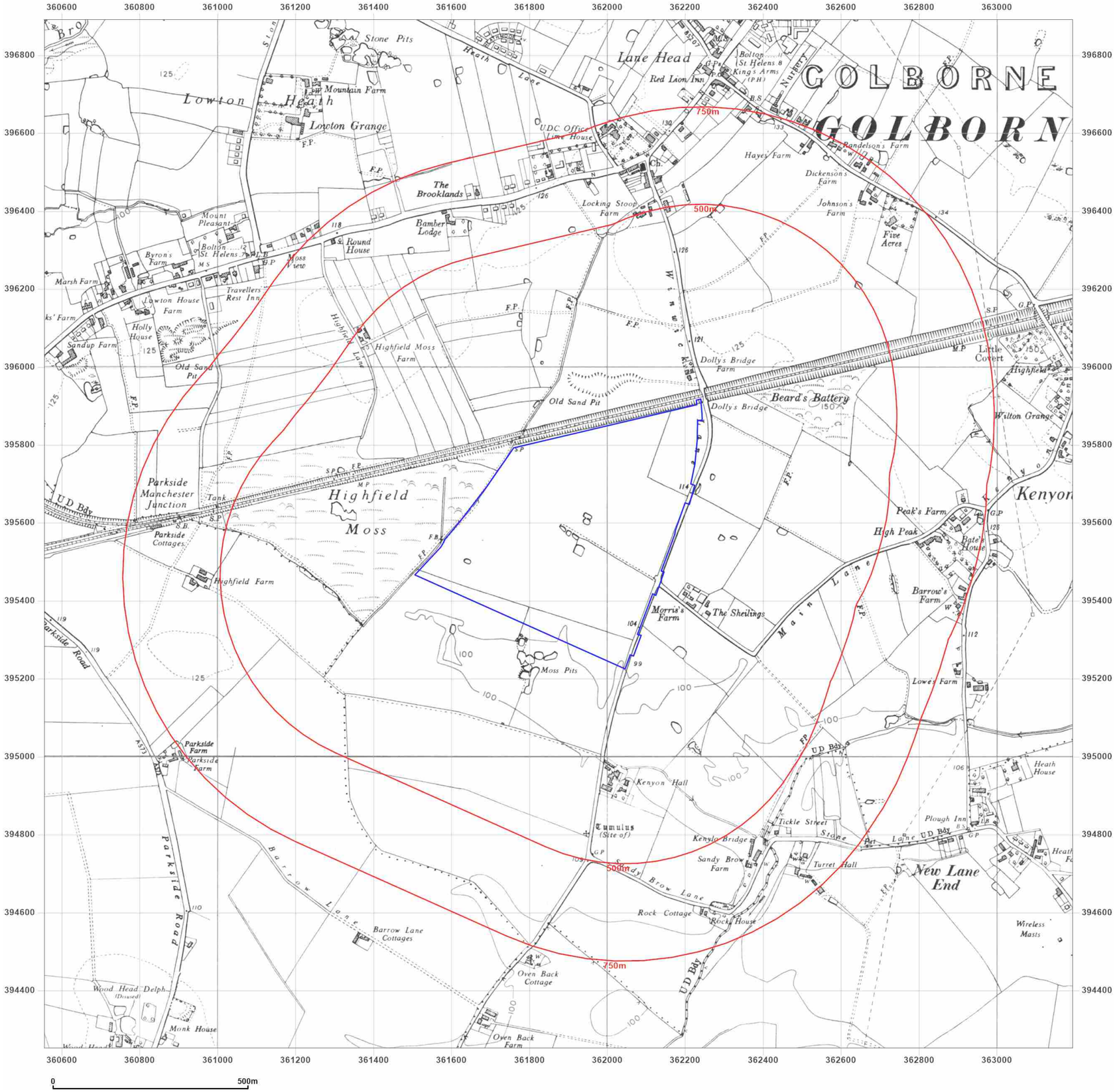
A PEIR presents environmental information to assist consultees to form an informed view of the likely significant environmental effects of a proposed development and provide feedback.

This PEIR has been prepared by the project promoter, Intermodal Logistics Park North Ltd. The Proposed Development is described in Chapter 3 of the PEIR and is the subject of a public consultation.

Details of how to respond to the public consultation are provided at the end of Chapter 1 of the PEIR and on the project website:

https://www.tritaxbigbox.co.uk/our-spaces/intermodal-logistics-park-north/

This feedback will be taken into account by Intermodal Logistics Park North Ltd in the preparation of its application for a Development Consent Order for the project.



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: Provisional

Map date: **1955**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed N/A
Revised 1955
Edition N/A
Copyright 1955
Levelled N/A

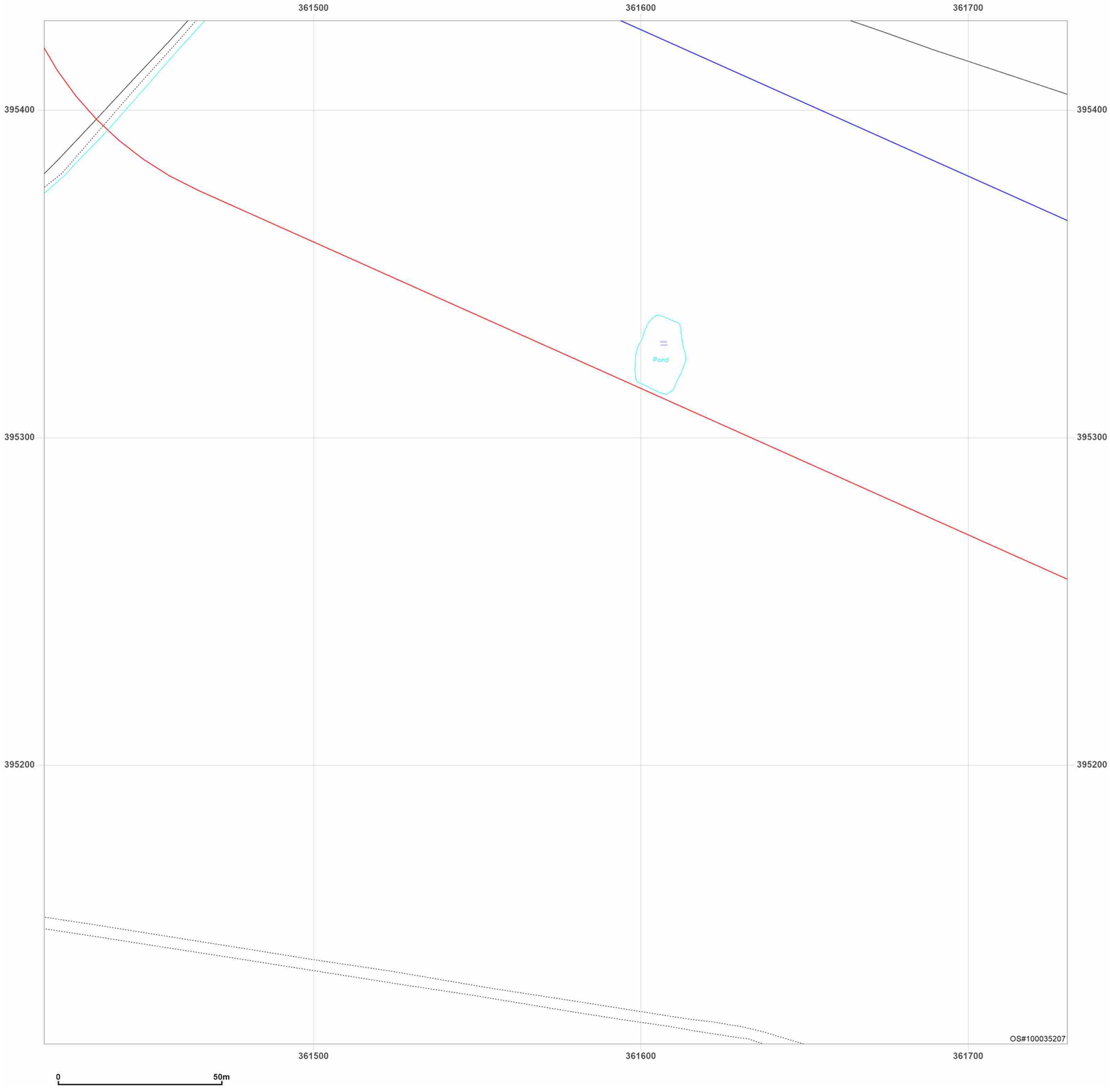
Surveyed N/A
Revised 1955
Edition N/A
Copyright 1955
Levelled N/A

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

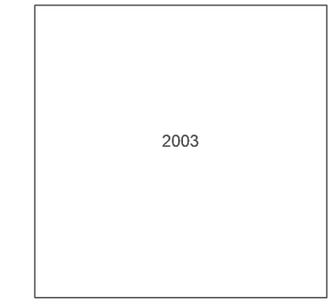
Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_1_1
Grid Ref: 361574, 395271

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

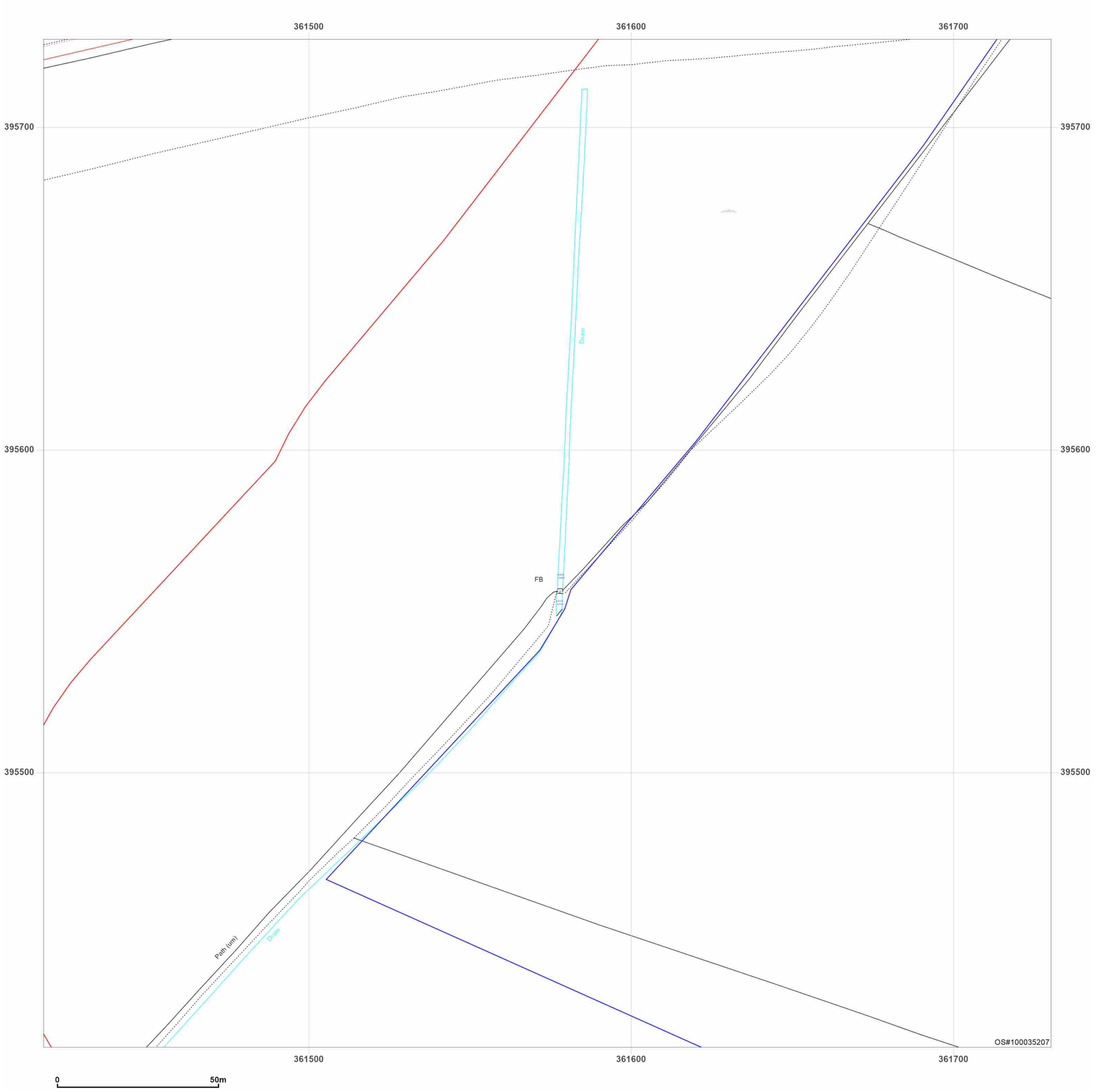


Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

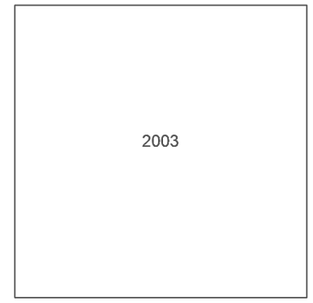
Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_1_2
Grid Ref: 361574, 395571

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

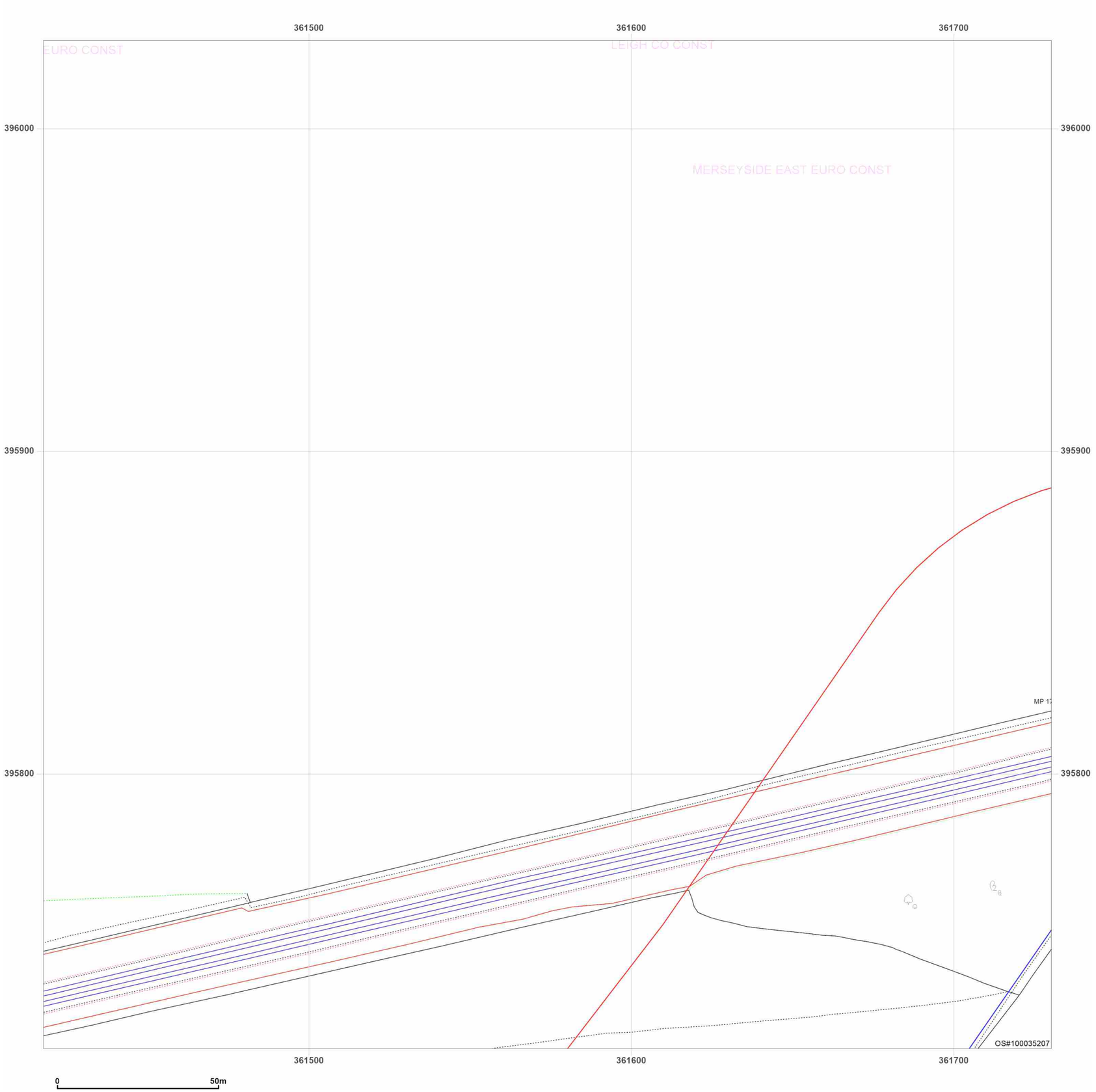


Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_1_3
Grid Ref: 361574, 395871

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

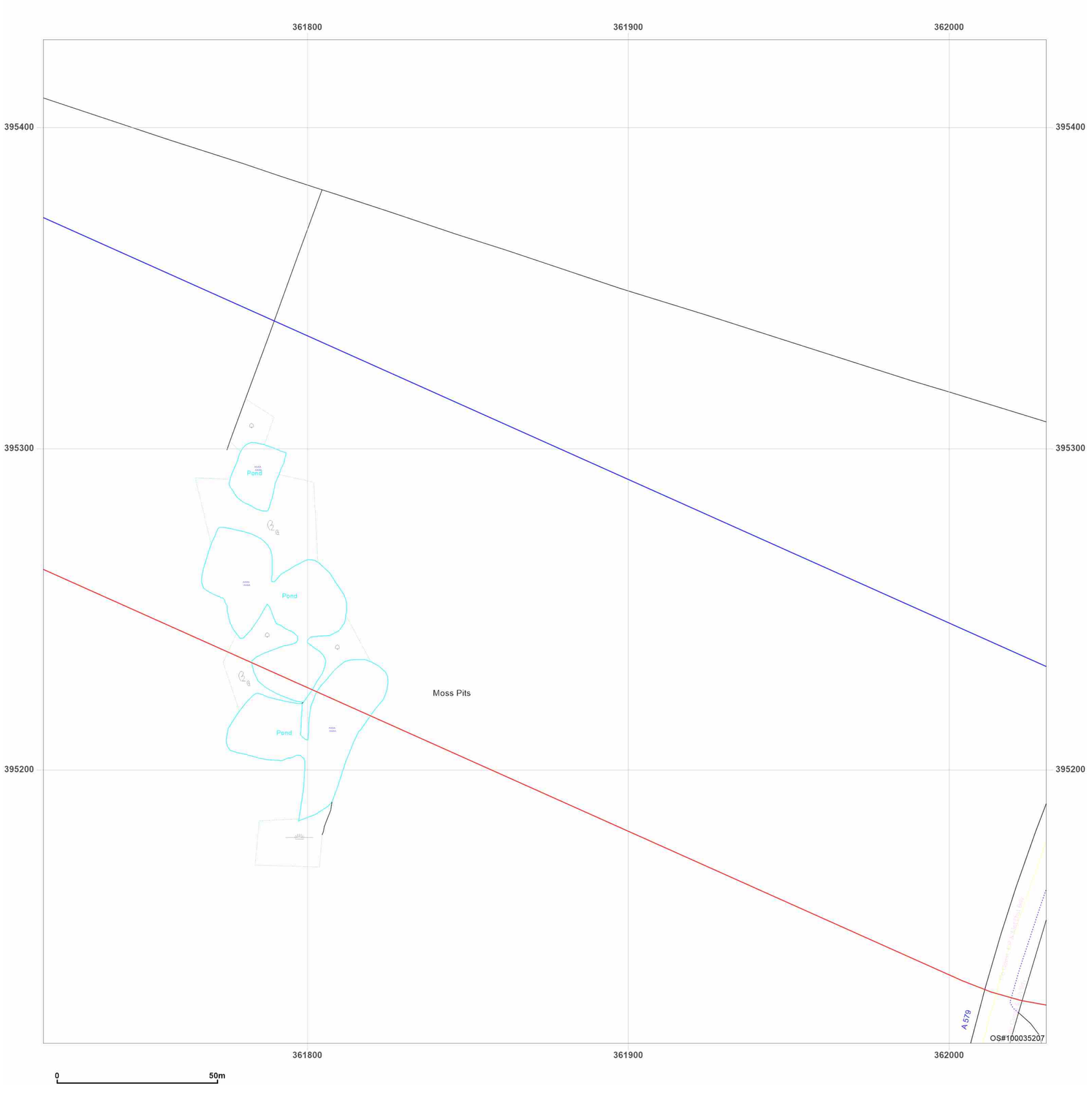
2003

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

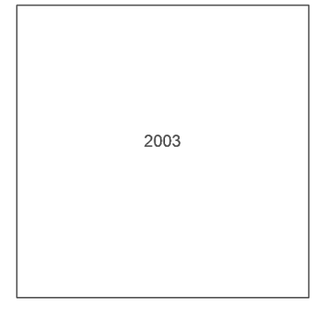
Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_2_1
Grid Ref: 361874, 395271

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

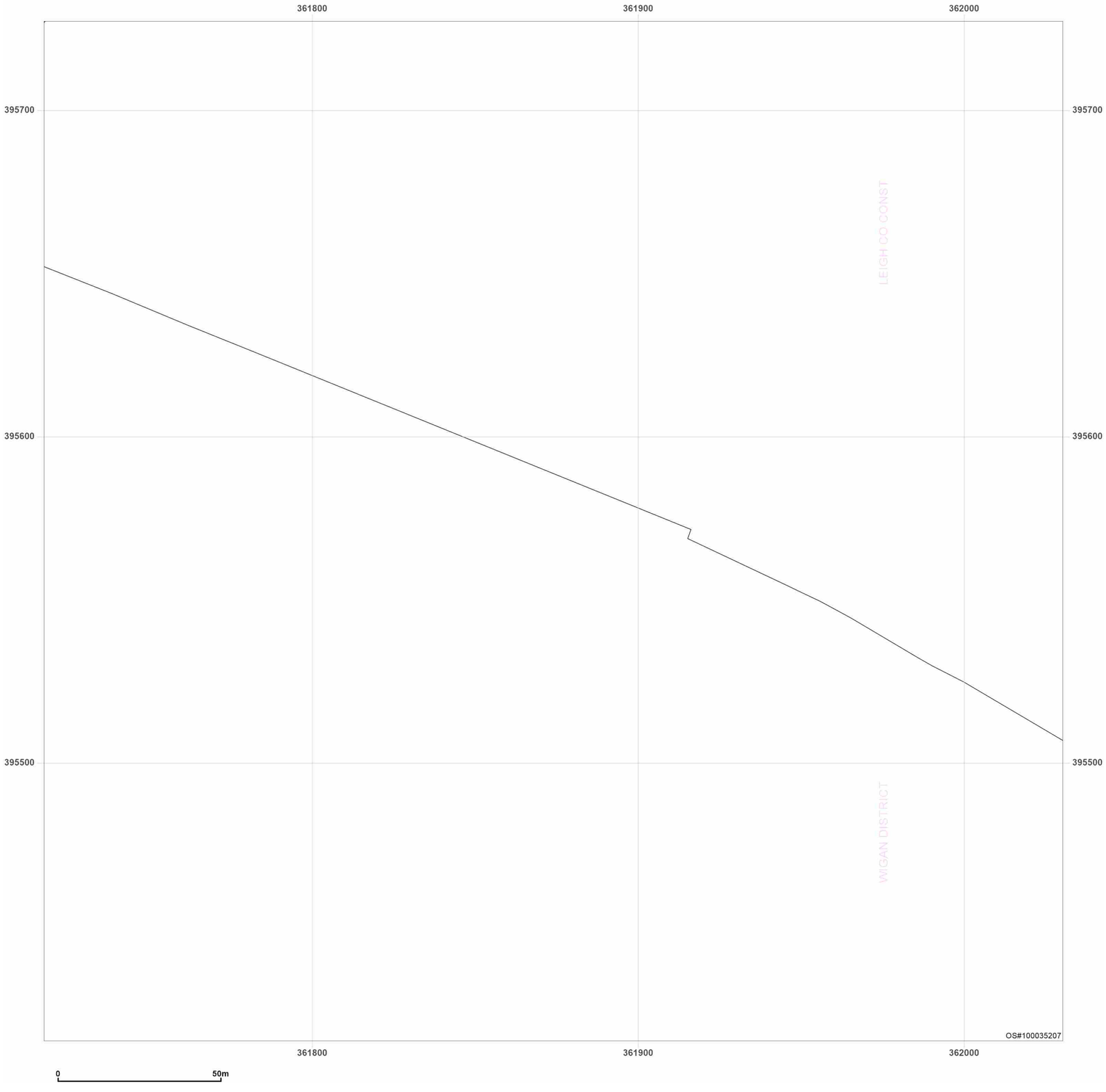


Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

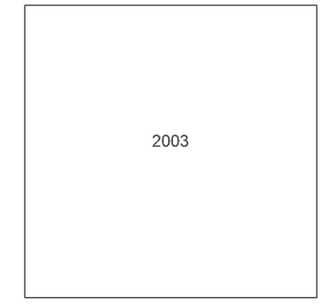
Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_2_2
Grid Ref: 361874, 395571

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

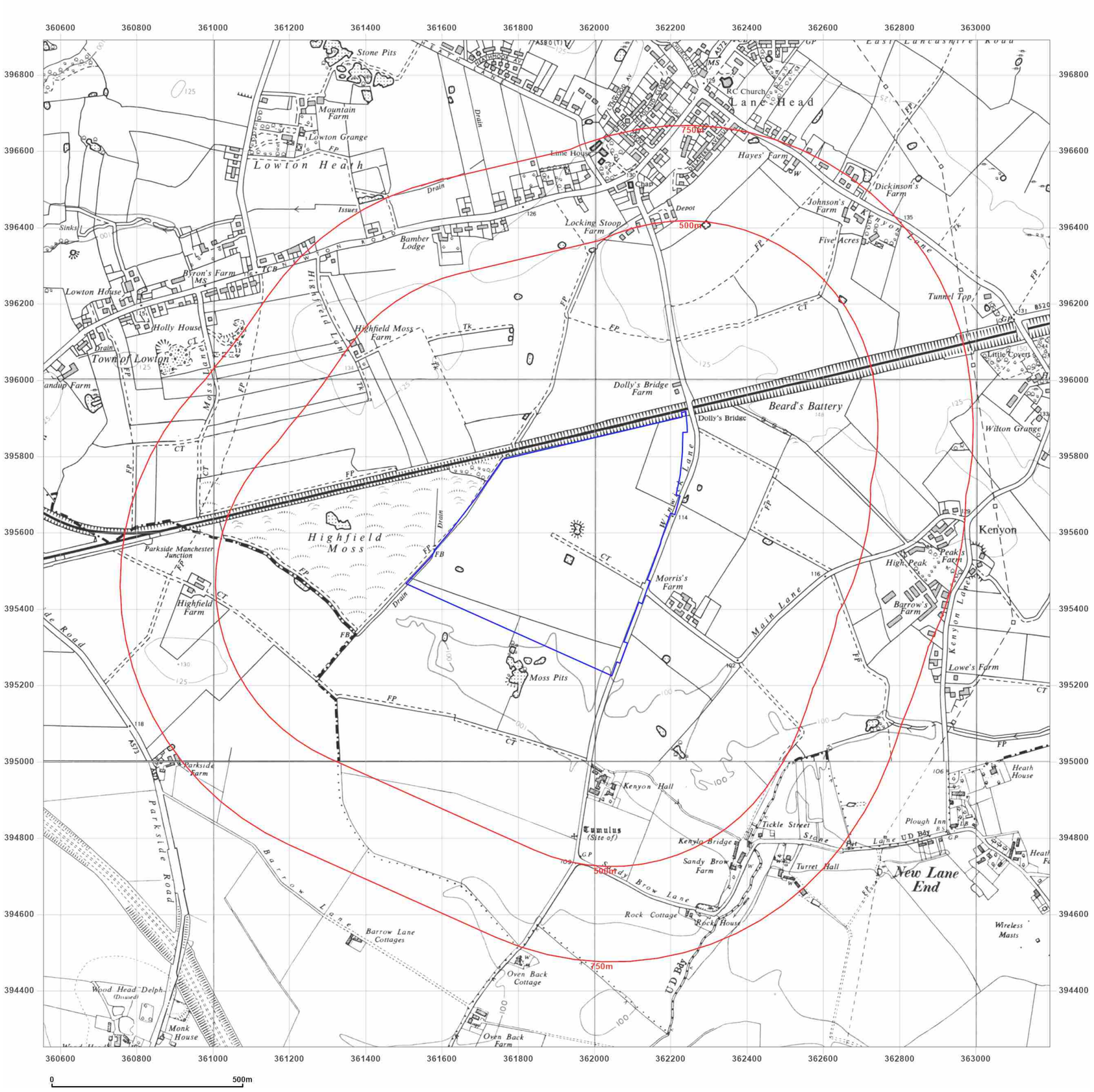


Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: Provisional

Map date: **1964-1965**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1959
Revised 1963
Edition N/A
Copyright 1965
Levelled N/A

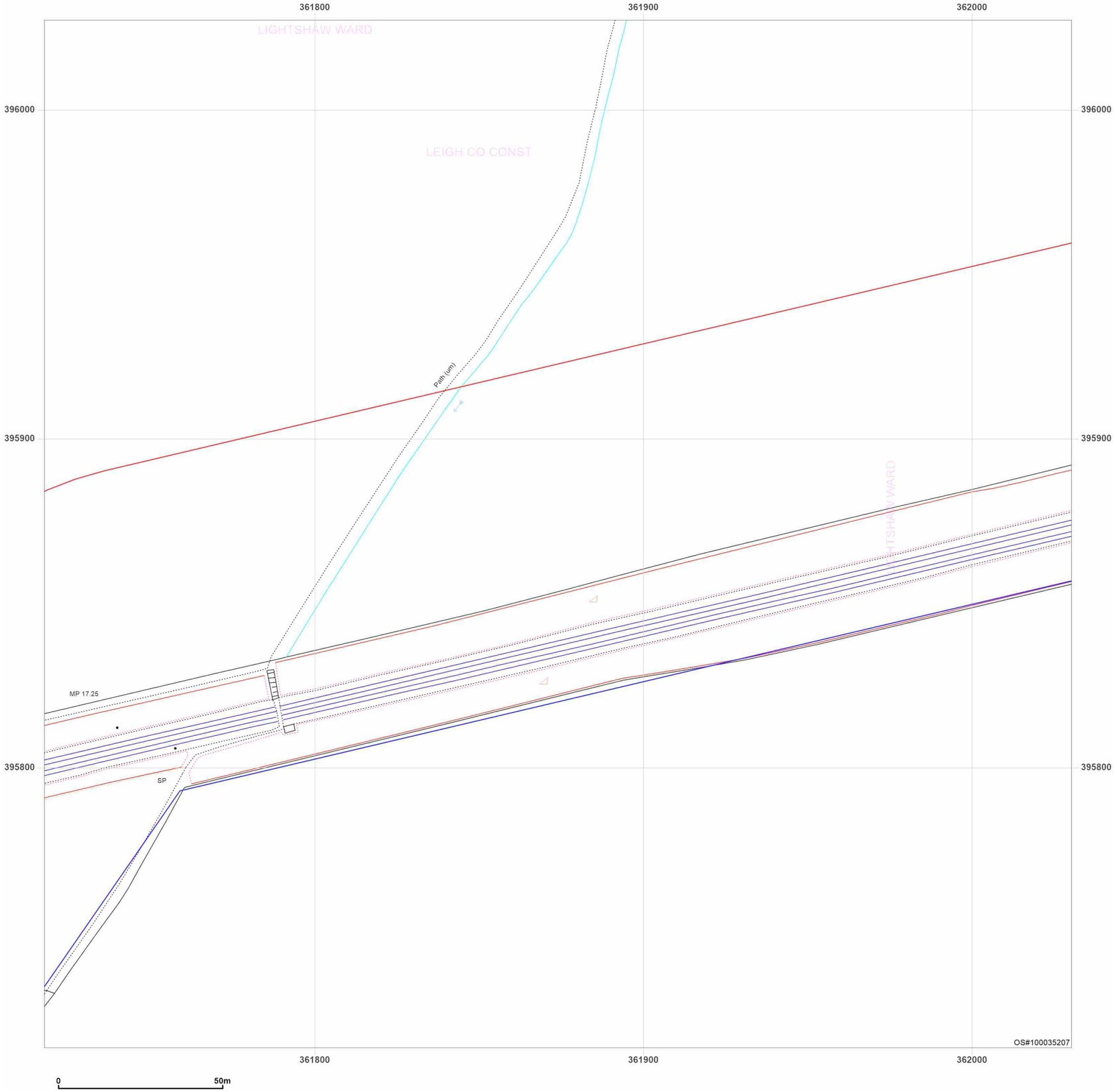
Surveyed N/A
Revised 1964
Edition N/A
Copyright 1955
Levelled N/A

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_2_3
Grid Ref: 361874, 395871

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

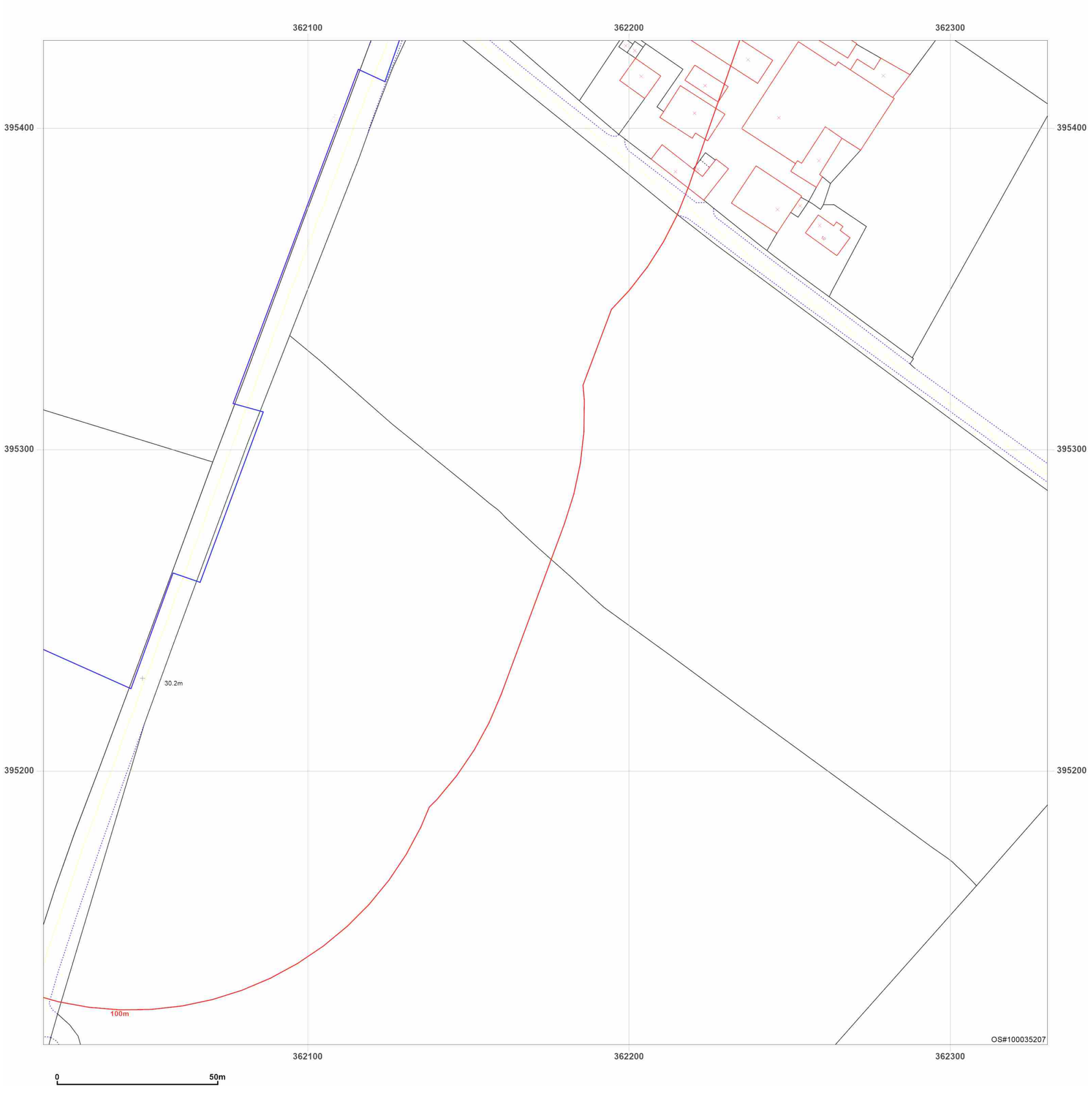
2003

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

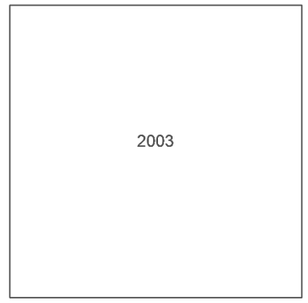
Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_3_1
Grid Ref: 362174, 395271

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

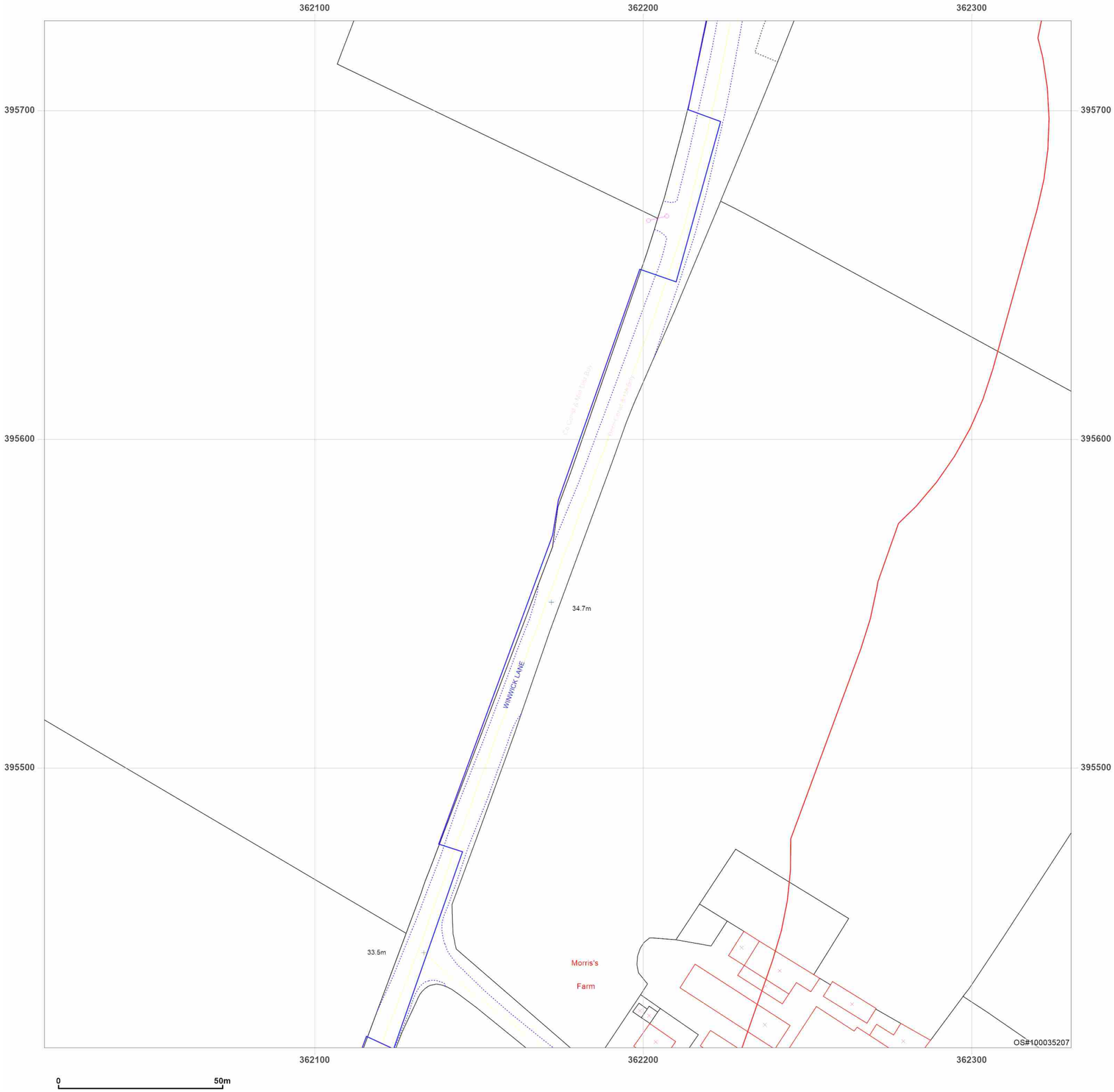


Powered by

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

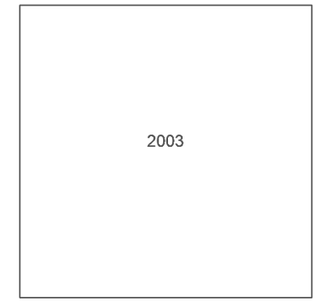
Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_3_2
Grid Ref: 362174, 395571

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

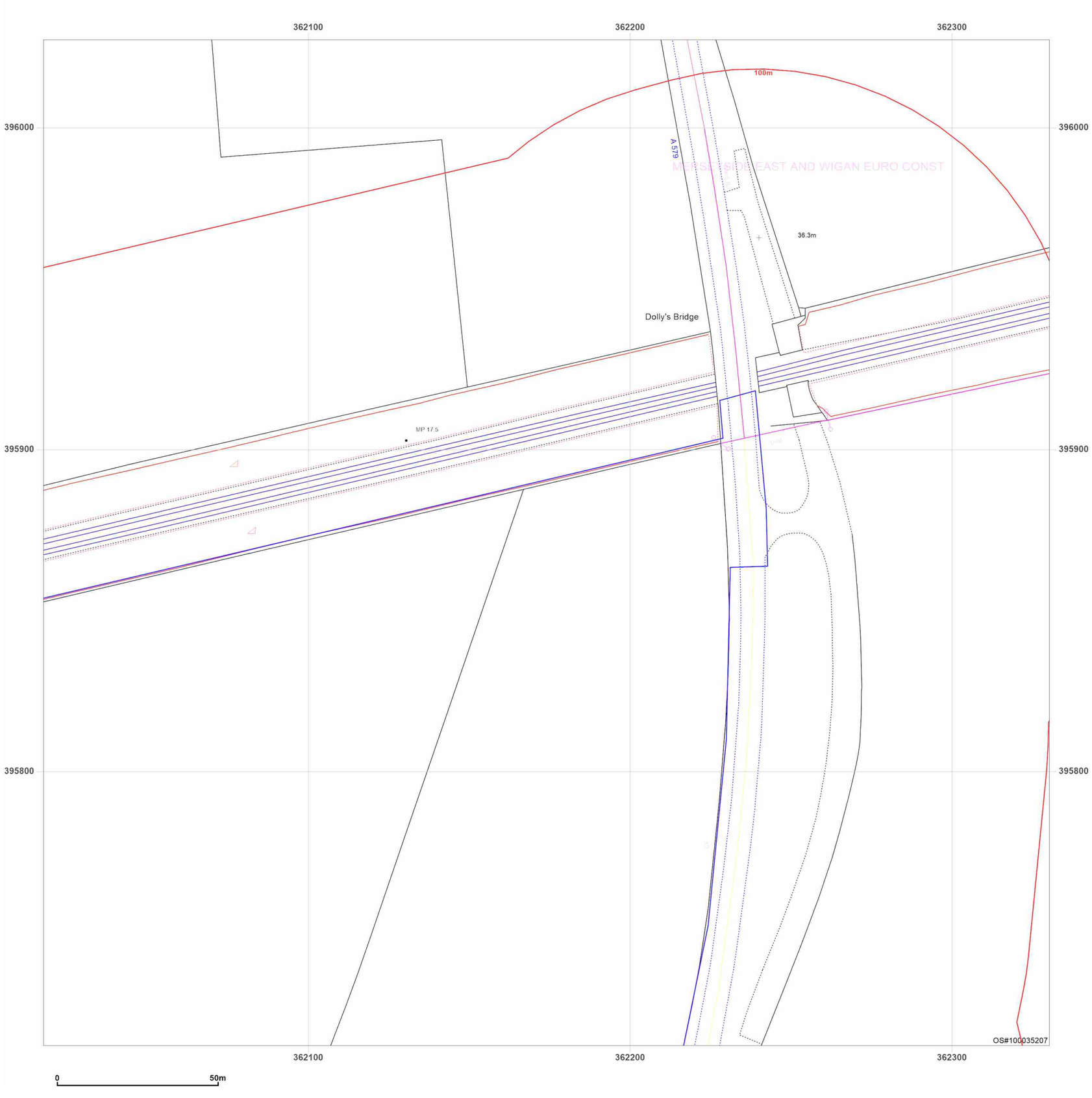


Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3_Landline_3_3
Grid Ref: 362174, 395871

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S

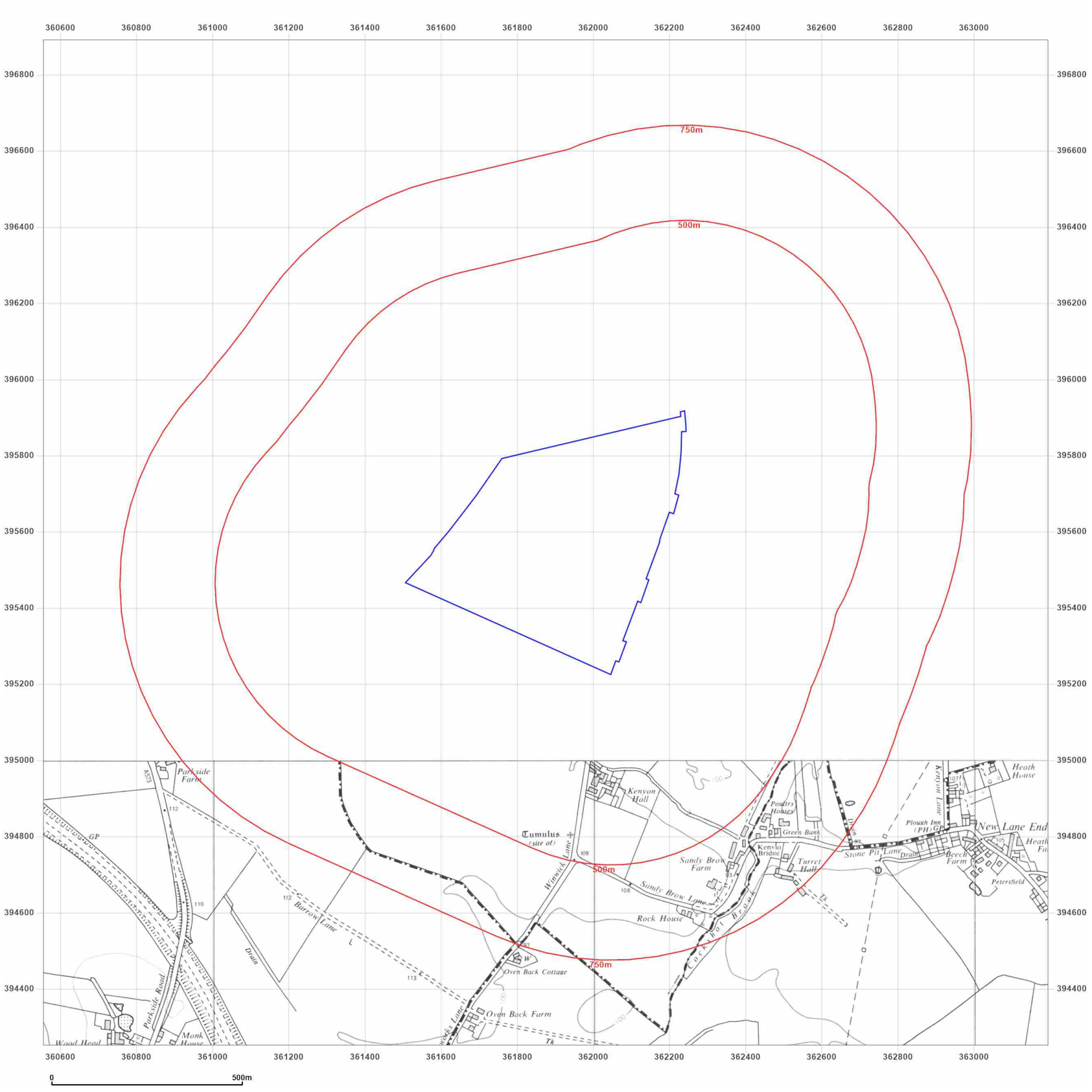
2003

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: Provisional
Map date: **1967**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

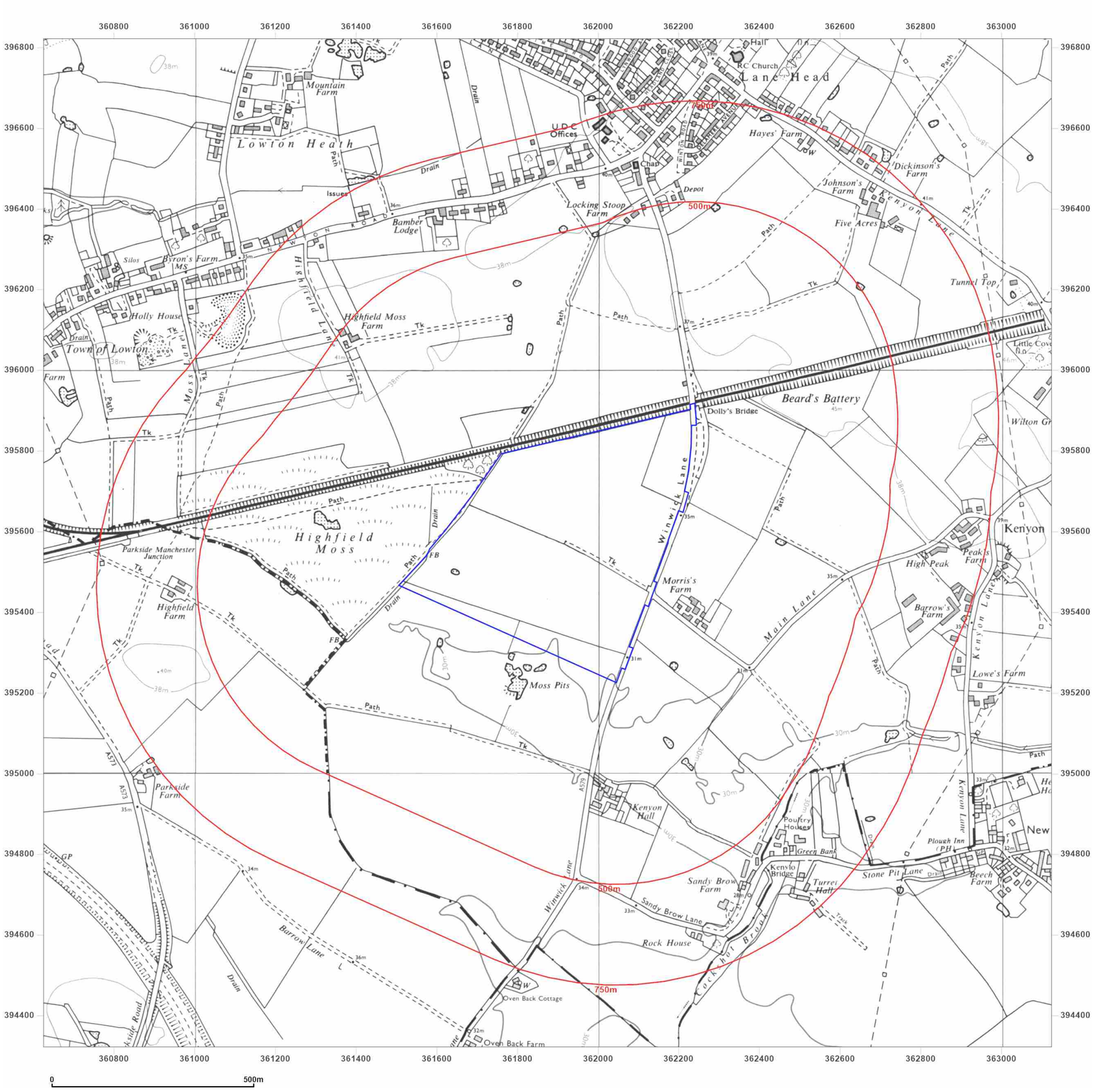
Surveyed 1964
Revised 1966
Edition N/A
Copyright 1967
Levelled N/A

Powered by

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: National Grid

Map date: **1972-1977**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1971
Revised 1972
Edition N/A
Copyright 1972
Levelled N/A

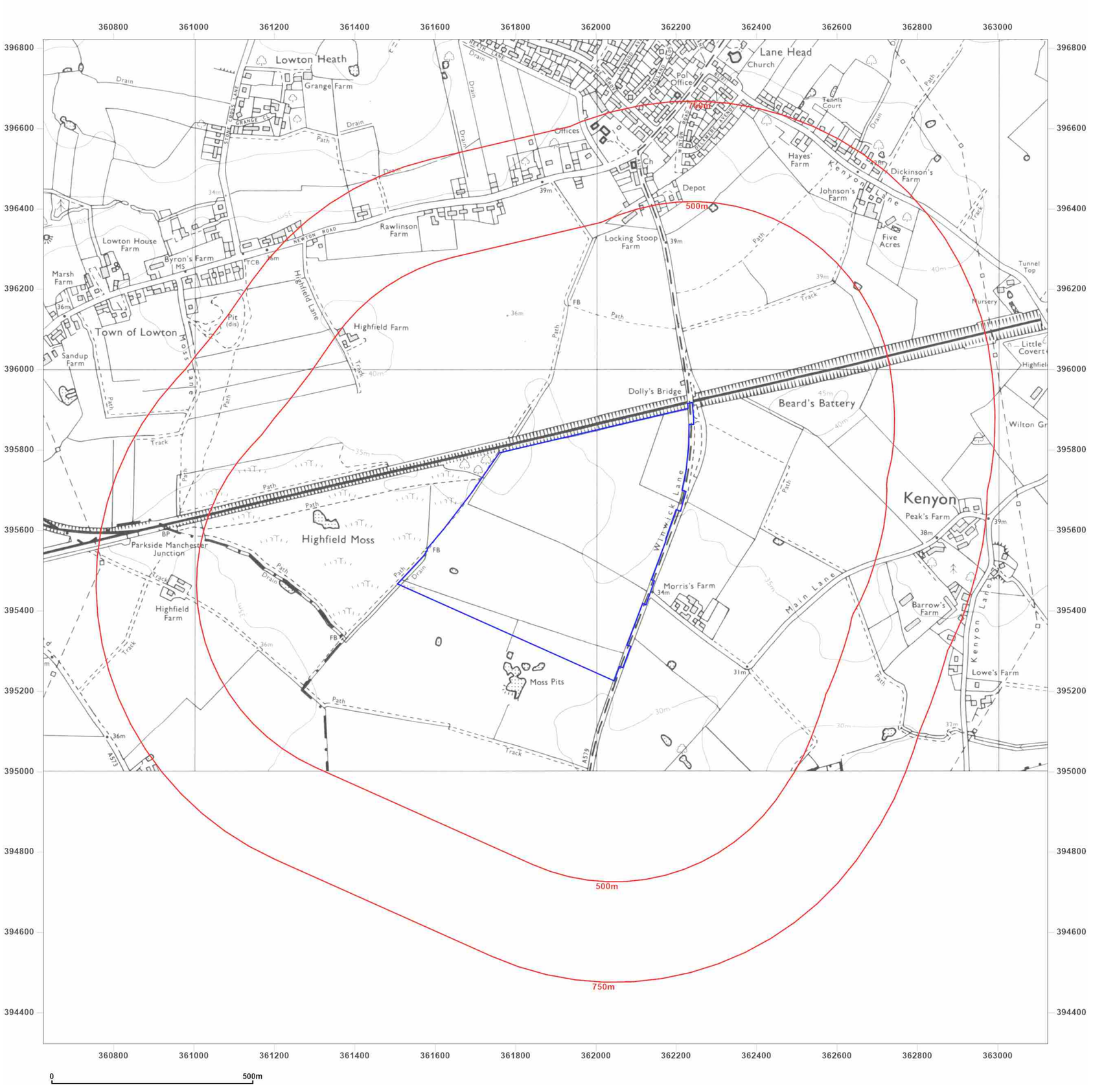
Surveyed 1975
Revised 1977
Edition N/A
Copyright 1977
Levelled 1975

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: National Grid

Map date: **1984**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

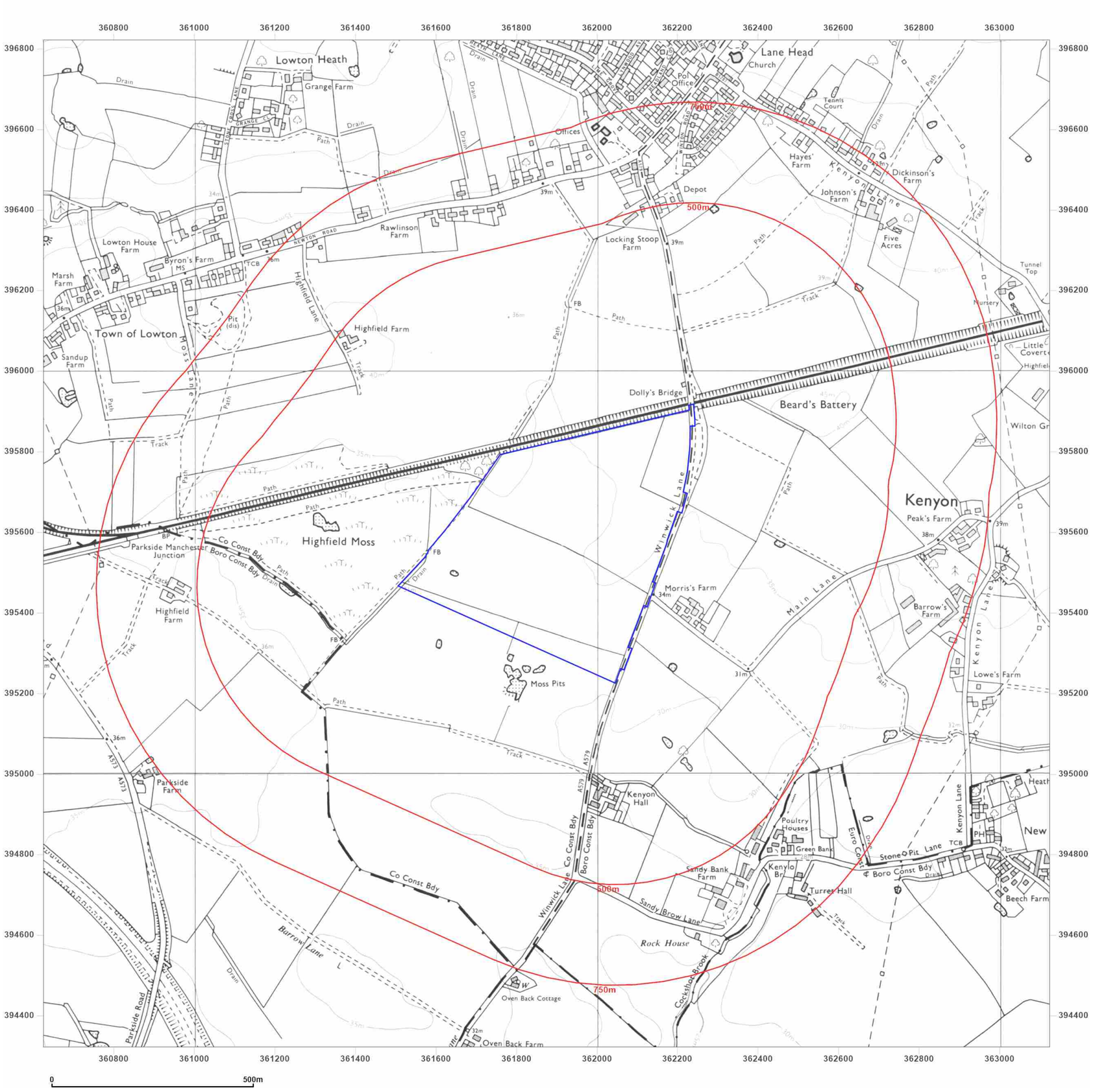
Surveyed 1982
Revised 1984
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: National Grid

Map date: **1987-1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1982
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

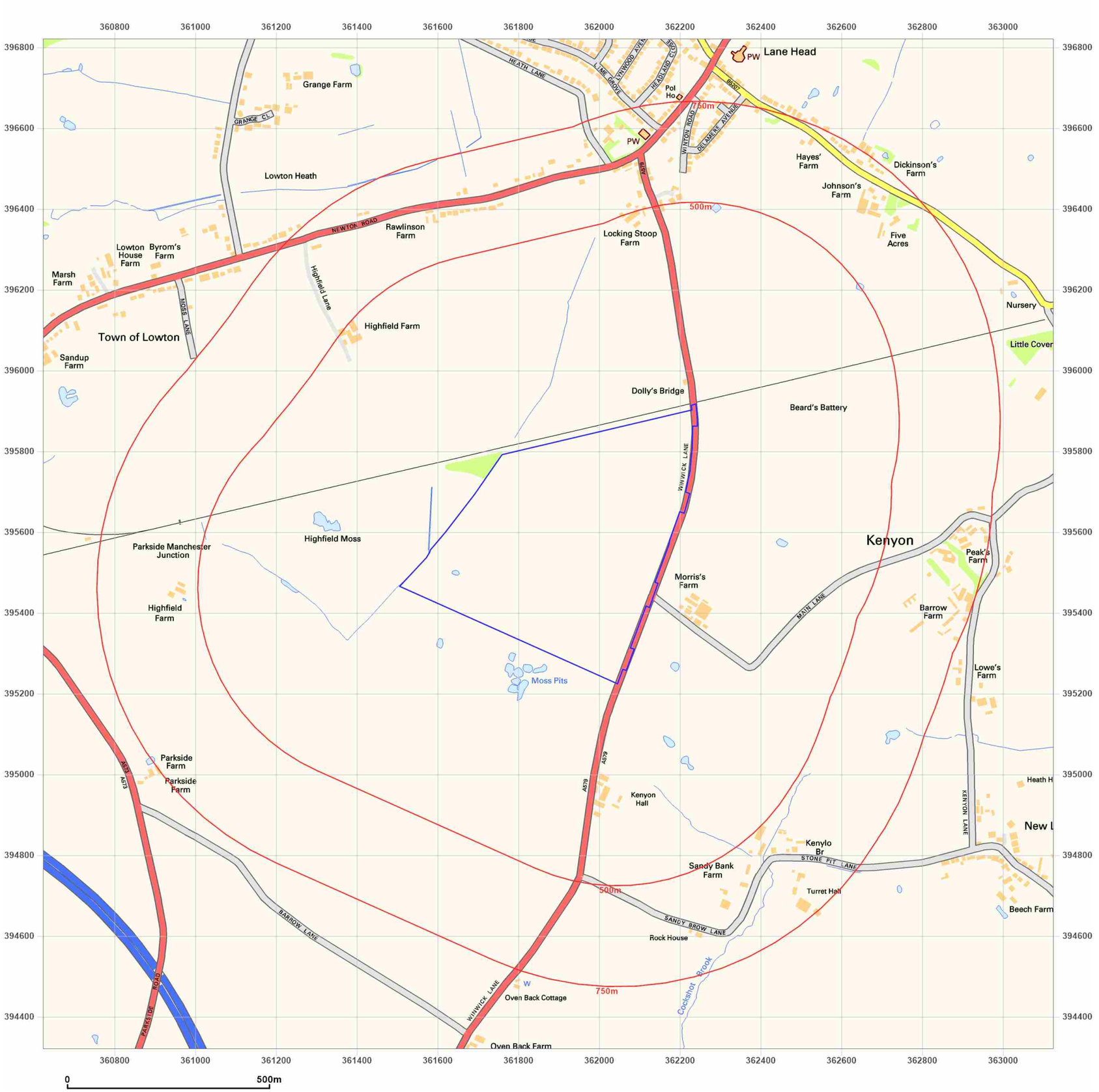
Surveyed 1986
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

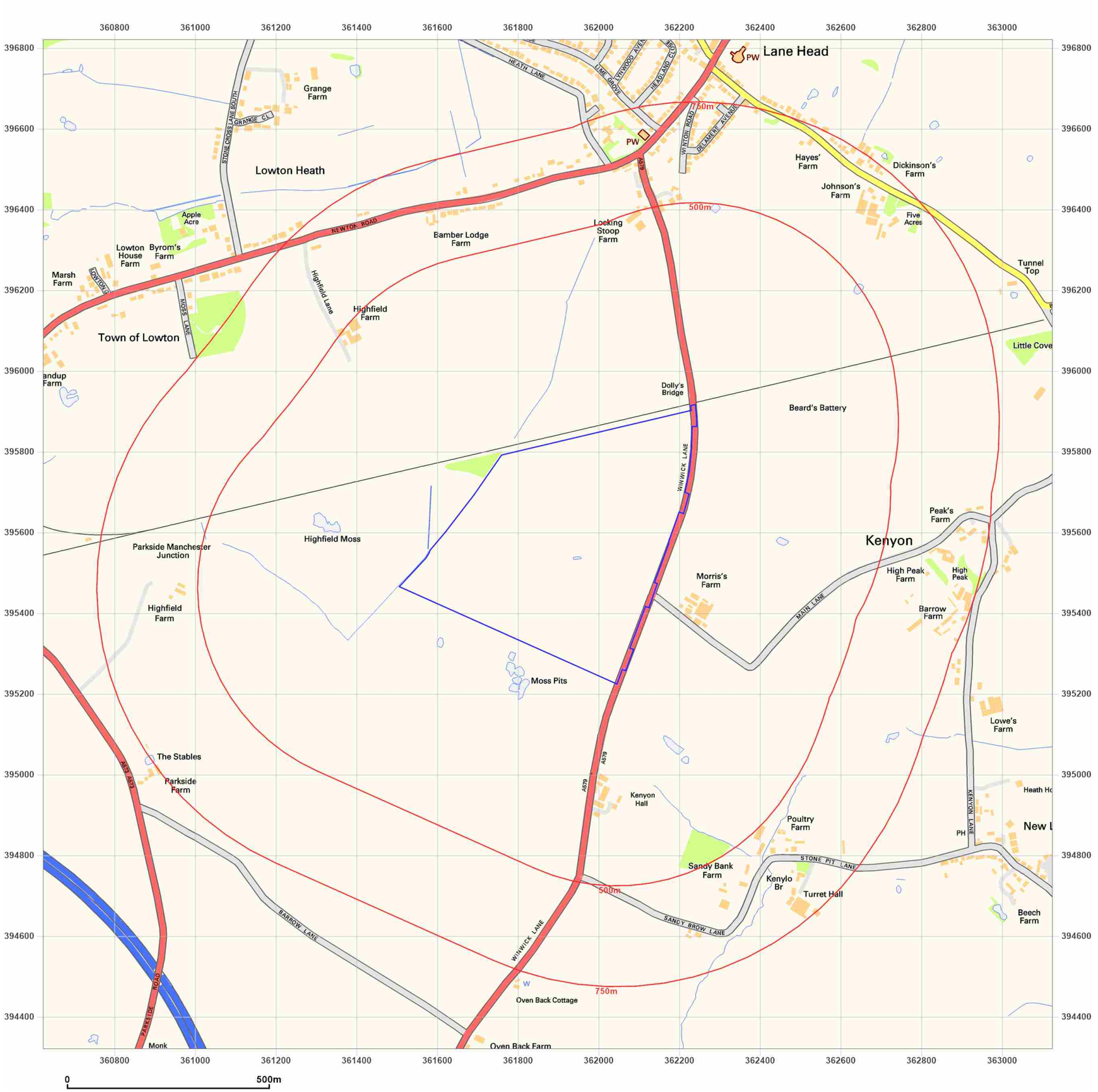
2001

Powered by

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

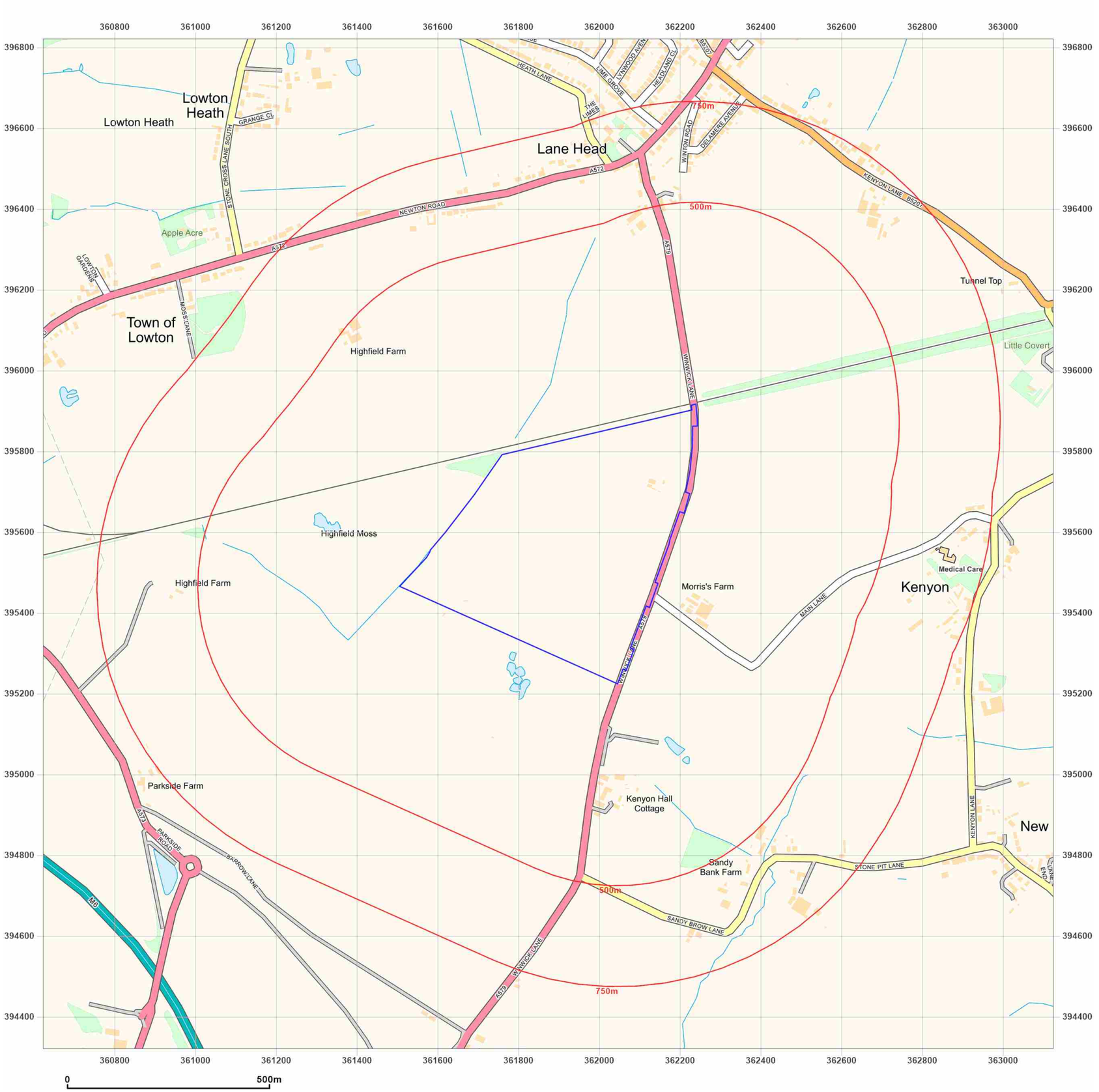
2010

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

ILP North Wigan Site

Client Ref: 233398 / 11496
Report Ref: GS-8I4-WL5-S1Q-RM3
Grid Ref: 361874, 395571

Map Name: National Grid
Map date: **2025**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2025

Powered by

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 June 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Appendix 6: Consultants Coal Mining Report

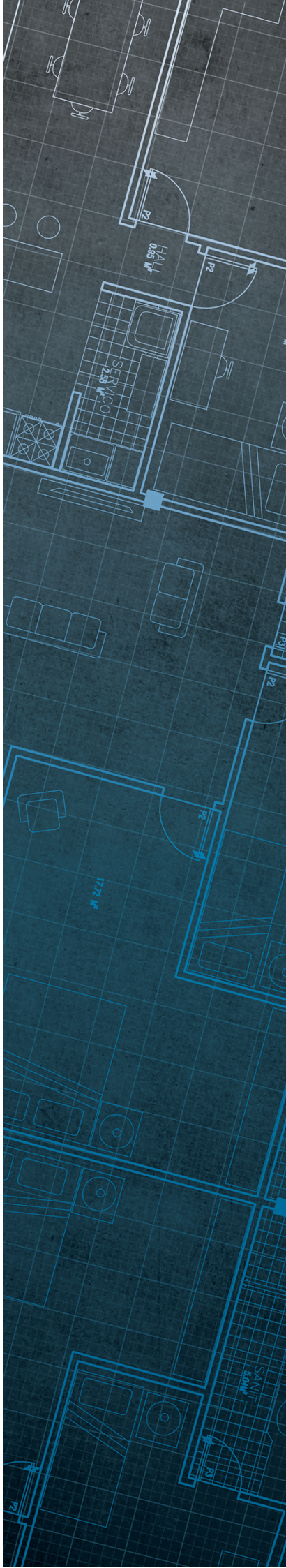
The Coal Authority

Consultants

Coal Mining Report

Parkside East,
Junction 22 M6
St Helens

Date of enquiry:	22 May 2024
Date enquiry received:	22 May 2024
Issue date:	24 May 2024
Our reference:	71009801460001
Your reference:	GS-WLV-FK2-86F-HC7 - 8391



Consultants
Coal Mining Report

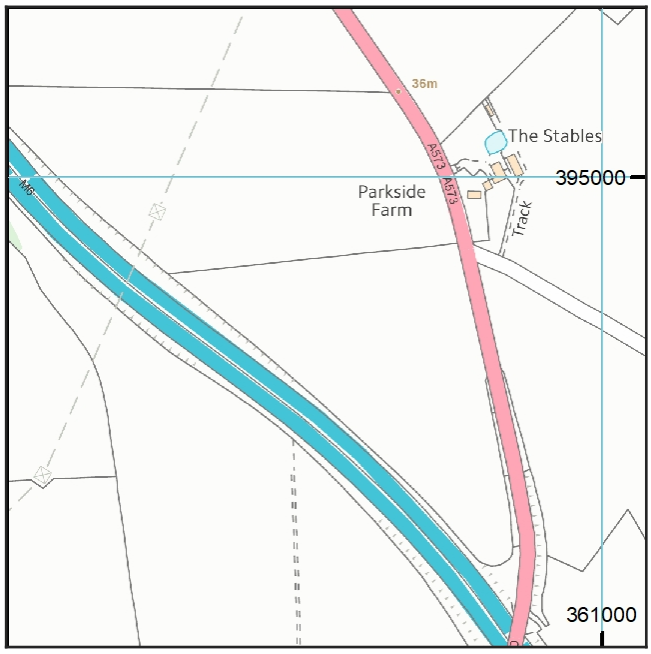
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

Parkside East,
Junction 22 M6
St Helens



Approximate position of property

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
BICKERSHAW	CROMBOUKE	Coal	A2	361	Beneath Property	13.5	East	130	1966
BICKERSHAW	CROMBOUKE	Coal	F2	432	Beneath Property	14.2	East	130	1967
BICKERSHAW	LOWER FLORIDA	Coal	D1	467	North	17.9	South-East	180	1966
PARKSIDE	CROMBOUKE	Coal	A1	482	Beneath Property	14.0	East	130	1967
BICKERSHAW	CROMBOUKE	Coal	F1	486	Beneath Property	14.1	East	130	1964
GOLBORNE	RAMS	Coal	S1	490	North	14.2	South-East	140	1976
BICKERSHAW	LOWER FLORIDA	Coal	L2	496	North-East	11.4	East	180	1968
PARKSIDE	CROMBOUKE	Coal	F1	499	Beneath Property	14.0	East	130	1964
PARKSIDE	CROMBOUKE	Coal	B1	504	South-West	13.0	South-East	140	1965
BICKERSHAW	CROMBOUKE	Coal	C2	517	North	15.7	South-East	160	1970
BICKERSHAW	LOWER FLORIDA	Coal	L3	521	North-East	12.3	South-East	180	1969
BICKERSHAW	CROMBOUKE	Coal	C7	530	North	14.7	East	160	1974
BICKERSHAW	LOWER FLORIDA	Coal	L1	530	North-West	12.9	South-East	180	1962
unnamed	CROMBOUKE	Coal	C24	533	North-East	10.7	South-East	130	1970
BICKERSHAW	LOWER FLORIDA	Coal	L41	539	Beneath Property	16.6	East	170	1971
BICKERSHAW	CROMBOUKE	Coal	C22	542	Beneath Property	12.5	South-East	130	1970
unnamed	HIGHER FLORIDA	Coal	33PH	547	West	12.5	South-East	120	1968
PARKSIDE	CROMBOUKE	Coal	F6	551	Beneath Property	14.0	East	130	1965
BICKERSHAW	RAMS	Coal	S4	561	Beneath Property	15.0	East	140	1977
unnamed	LOWER PIGEON HOUSE (PIGEON HOUSE)	Coal	34BS	561	North	16.4	South	80	1956
unnamed	CROMBOUKE	Coal	C23	567	Beneath Property	11.2	South-East	130	1969

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
PARKSIDE	LOWER FLORIDA	Coal	L23	572	South-West	12.6	East	170	1973
unnamed	HIGHER FLORIDA	Coal	348A	590	West	11.0	South-East	120	1967
BICKERSHAW	LOWER FLORIDA	Coal	L6	598	North	15.1	South-East	180	1970
unnamed	HIGHER FLORIDA	Coal	33PI	599	South-West	12.5	South-East	120	1971
PARKSIDE	LOWER FLORIDA	Coal	L41	606	Beneath Property	12.1	East	170	1971
unnamed	LOWER FLORIDA	Coal	34AQ	607	Beneath Property	12.6	South-East	170	1959
unnamed	LOWER FLORIDA	Coal	33PA	613	Beneath Property	10.7	South-East	170	1966
PARKSIDE	LOWER FLORIDA	Coal	L21	614	East	12.3	South-East	170	1970
BICKERSHAW	LOWER FLORIDA	Coal	L4	615	Beneath Property	12.2	East	180	1973
GOLBORNE	RAMS	Coal	S7	616	North	14.2	South-East	140	1978
unnamed	TRENCHERBONE	Coal	34IT	628	North-West	15.9	South-East	130	1966
BICKERSHAW	WIGAN FOUR FEET	Coal	W3	630	North	12.0	East	140	1978
BICKERSHAW	CROMBOUKE	Coal	C11	632	North-East	15.8	South-East	160	1982
GOLBORNE	RAMS	Coal	S15	636	East	14.9	South-East	220	1986
PARKSIDE	CROMBOUKE	Coal	B2	643	South-West	8.2	East	160	1970
PARKSIDE	LOWER FLORIDA	Coal	L22	644	West	12.6	East	170	1970
GOLBORNE	HIGHER FLORIDA	Coal	H7	646	North	14.9	South-East	107	1986
BICKERSHAW	LOWER FLORIDA	Coal	L5	653	Beneath Property	13.7	East	180	1974
PARKSIDE	CROMBOUKE	Coal	C22	655	Beneath Property	12.5	East	130	1970
PARKSIDE	LOWER FLORIDA	Coal	L24	673	South-West	15.2	East	170	1971
PARKSIDE	LOWER FLORIDA	Coal	L40	676	Beneath Property	13.0	East	170	1976
PARKSIDE	TRENCHERBONE	Coal	T24	676	South-West	12.0	South-East	160	1980
PARKSIDE	TRENCHERBONE	Coal	T25	680	South-East	12.0	South-East	160	1981
unnamed	WIGAN FOUR FEET	Coal	W24	698	South-West	11.8	South-East	170	1977
PARKSIDE	LOWER FLORIDA	Coal	E3	700	South-West	9.5	East	170	1968
GOLBORNE	LOWER FLORIDA	Coal	L10	706	North	14.4	South-East	180	1972

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	TRENCHERBONE	Coal	34GP	711	North	10.7	South-East	160	1969
BICKERSHAW	WIGAN FOUR FEET	Coal	W4	712	Beneath Property	12.5	East	140	1981
unnamed	RAMS	Coal	S4	712	Beneath Property	14.0	East	140	1977
unnamed	WIGAN FOUR FEET	Coal	33PN	712	Beneath Property	12.0	South-East	140	1968
PARKSIDE	LOWER FLORIDA	Coal	L43	713	Beneath Property	12.2	East	170	1978
unnamed	WIGAN FOUR FEET	Coal	34EG	713	Beneath Property	11.5	South-East	210	1962
GOLBORNE	RAMS	Coal	S14	714	East	15.5	South-East	220	1987
unnamed	TRENCHERBONE	Coal	33PR	730	South-West	11.6	South-East	150	1971
unnamed	PLODDER	Coal	P3	741	North-West	14.4	South-East	210	1982
BICKERSHAW	HIGHER FLORIDA	Coal	H12	741	East	15.3	South-East	110	1980
unnamed	WIGAN FOUR FEET	Coal	W25	742	South-East	11.8	South-East	160	1977
GOLBORNE	LOWER FLORIDA	Coal	L12	743	North-East	17.4	East	180	1974
unnamed	WIGAN FIVE FEET	Coal	V24	745	South-West	13.4	South-East	160	1986
PARKSIDE	LOWER FLORIDA	Coal	L4	746	Beneath Property	15.5	East	170	1973
PARKSIDE	LOWER FLORIDA	Coal	L45	779	Beneath Property	7.7	East	170	1980
PARKSIDE	RAMS	Coal	S32	779	South	8.4	South	214	1988
GOLBORNE	LOWER FLORIDA	Coal	L20	788	East	15.9	South-East	180	1978
PARKSIDE	LOWER FLORIDA	Coal	L40	799	Beneath Property	10.2	East	170	1976
PARKSIDE	LOWER FLORIDA	Coal	L42	805	Beneath Property	11.8	East	170	1974
PARKSIDE	LOWER FLORIDA	Coal	L44	810	Beneath Property	7.5	East	170	1979
GOLBORNE	PLODDER	Coal	P4	814	North	14.1	South-East	210	1985
PARKSIDE	LONDON DELPH (BIN)	Coal	LD10	832	East	16.4	South-East	200	1981
PARKSIDE	LOWER FLORIDA	Coal	L48	837	North	11.6	East	170	1979
PARKSIDE	LOWER FLORIDA	Coal	L46	843	Beneath Property	10.9	East	170	1980
PARKSIDE	LOWER FLORIDA	Coal	L32	843	South	8.5	South	185	1985
PARKSIDE	WIGAN FOUR FEET	Coal	W32	923	South	10.5	South	180	1990

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	359394-001	359969 394735	This shaft has been filled and capped by British Coal in Sept. 1994 The shaft was capped with reinforced concrete 15m square and 1m thick and incorporates a gas vent that is actively monitored monthly by the CA or representatives thereof.	Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

NW1409	NW207	NW745
NW596	16017	NW640
NW760	16333	NW676

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence
A damage notice or claim for alleged subsidence damage was made in June 1995 for FIELD OS 0021 KENYON HALL FARM, CROFT, WARRINGTON, CHESHIRE. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

There are a further 5 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas

Distance to gas incident/remediation (m)	Direction
87.8	North-East
93.3	South-East

See Section 4 for further information.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1960 and 1976.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

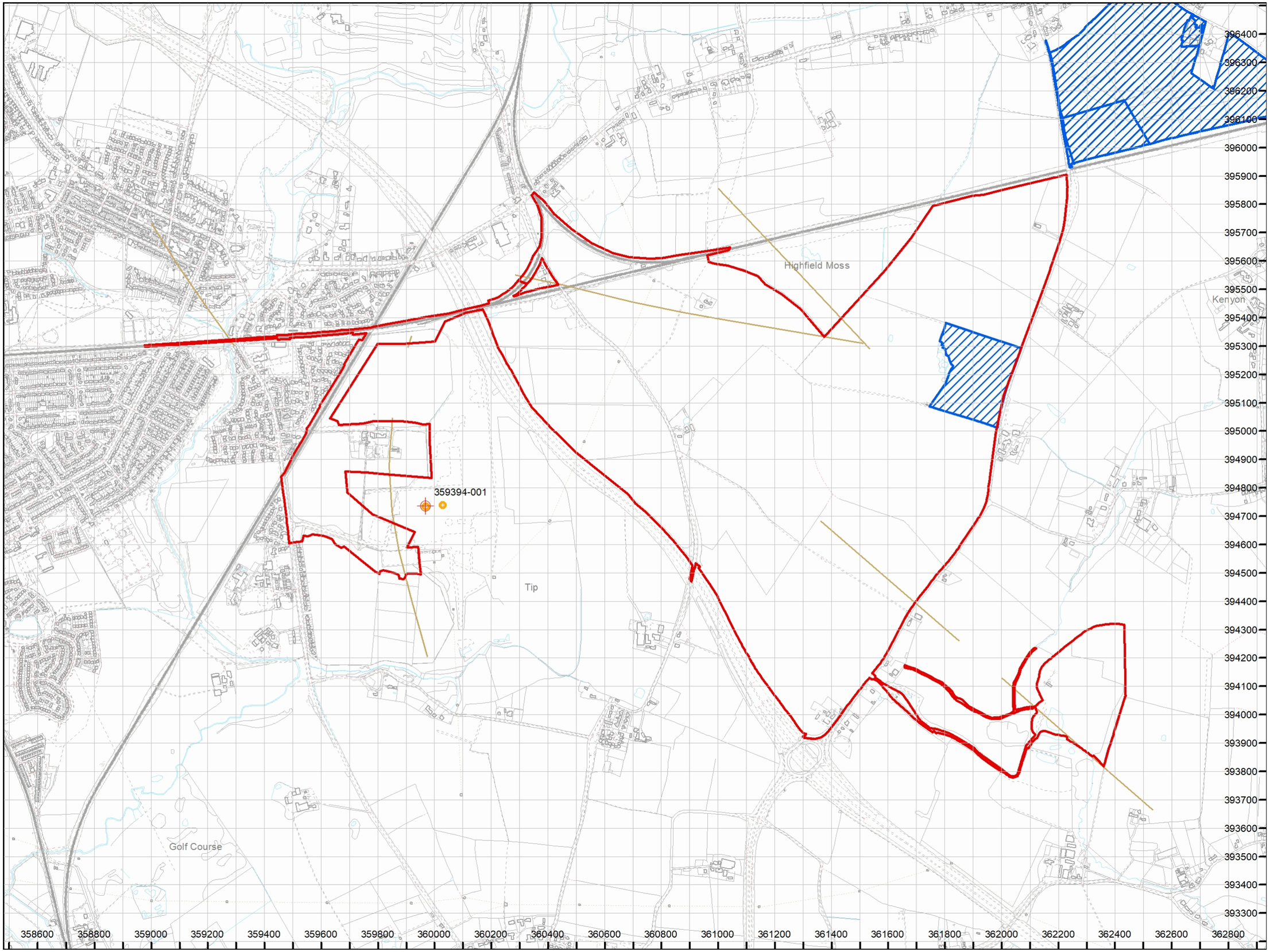
The Coal Authority

Summary of findings

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

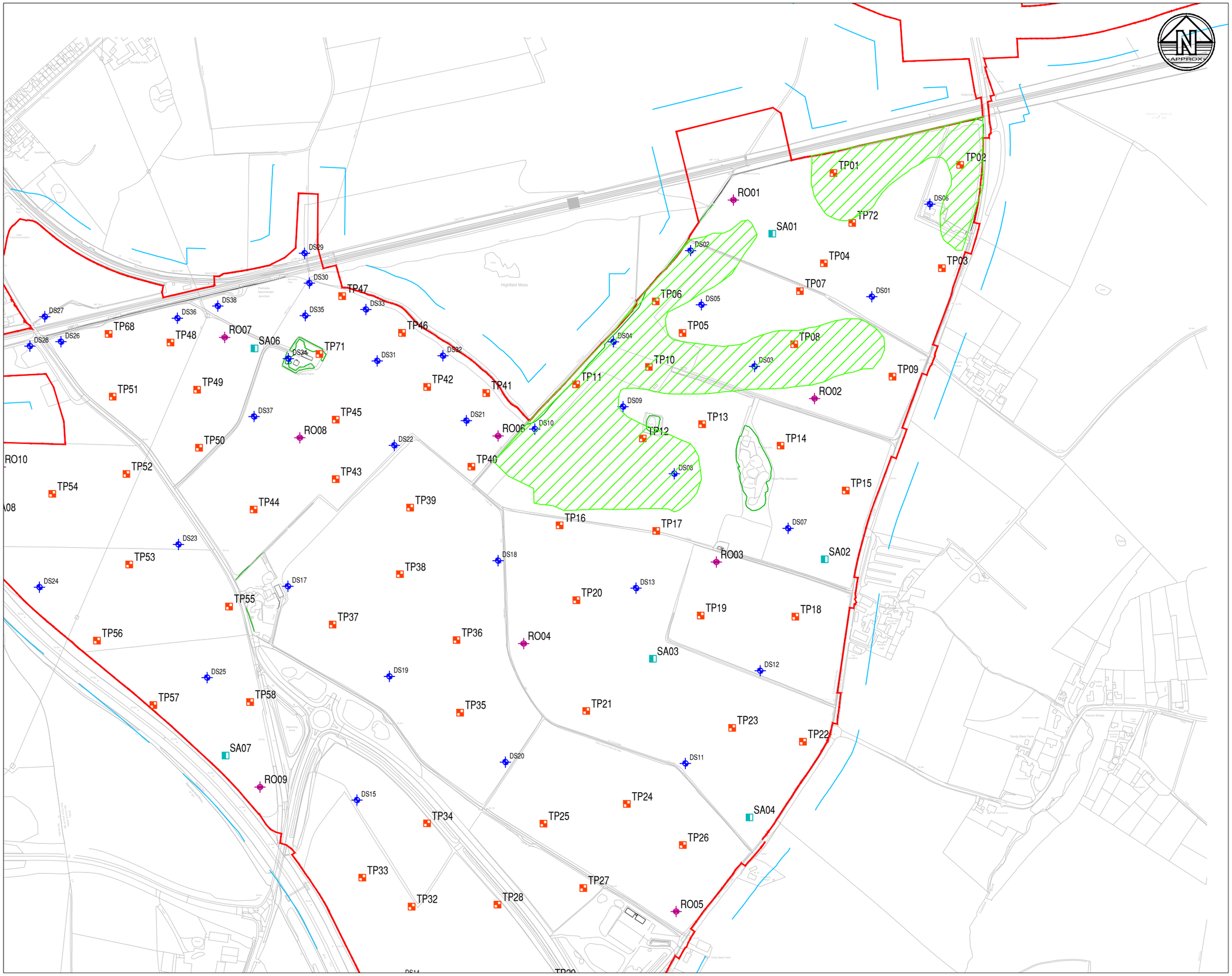
Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Geological faults
- Mine gas remedial works
- Coal claim



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix 7: Exploratory Hole Location Plan



Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.

Legend

- Order Limits
- TP** Denotes Proposed Location of Trial Pit
- SA** Denotes Proposed Location of Soakaway Test
- RO** Denotes Proposed Location of Deep Rotary Open Borehole
- DS** Denotes Proposed Location of Dynamic Sample Borehole
- Minerals Safeguarding Area

P02	27.01.25	OS Map Data Boundary Added	RT	RR
P01	03.09.24	DRAFT	RT	RR
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions

BWB A CNF GROUP COMPANY
Birmingham | 0121 233 3322
Leeds | 0113 233 8000
London | 020 7234 9122
Manchester | 0161 233 4260
Nottingham | 0115 924 1100
www.bwbconsulting.com

Client

Tritax Symmetry SRFI North Ltd

Project Title

ILP North - GI Investigations / Preferred Locations

Drawing Title

Exploratory Hole Location Plan - East Segment

Drawn:	R. Theobalds		Reviewed:	R. Robinson	
BWB Ref:	233398	Date:	03.09.24	Scale@A3:	1:250

Drawing Status

PRELIMINARY

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
ILPN-BWB-ZZ-XX-DR-GI-0001	S1	P02

Appendix 8: Exploratory Hole Logs

BOREHOLE LOG

Scale 1:50 Sheet 1 of 1

LOCATION ID					
DS02	**Project Name:** ILP-North			**Ground Level (m AOD):**	31.83
	Project Number: 233398			**Eastings:**	361668.97
	Client: Intermodal Logistics Park North Ltd			**Northings:**	395649.04
Hole Type: WLS	**Rig:** Premier 110PR	**Start & End Date:**	25/04/2025	**Engineer:** TF	**Checker:**

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend / Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.25]	Dark brown clayey SAND with low rootlet content. (Topsoil)		ES1	0.10					
		31.58 [1.75]		0.25							
			Firm grey mottled red slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular, fine to medium of coal. Pyrite crystals noted in sand. (Till)					SPT	1.00	N=11 (1,2/2,3,3,3)	
					D1	1.20					
		29.83 [1.60]		2.00				SPT	2.00	N=6 (1,2/1,2,1,2)	
			Soft to firm brown very sandy CLAY. Sand is fine to coarse. (Till)								
					ES2	3.00		SPT	3.00	N=11 (1,2/1,2,2,6)	
		28.23 [1.40]		3.60							
			Weathered SANDSTONE recovered as red gravelly sand. (Weathered Chester Formation)					SPT	4.00	N=30 (6,6/6,8,8,8)	
		26.83		5.00				SPT	5.00	N=67 (9,15/22,15,15,15)	
			Hole Terminated at 5.00m bgl.								

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Refusal.

Groundwater Remarks:

Groundwater Strike at 2.50m bgl.

Other Remarks:

Location cleared of buried services. Installed with monitoring standpipe upon completion.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

BOREHOLE LOG

Scale 1:50 Sheet 1 of 1

LOCATION ID					
DS03	**Project Name:** ILP-North			**Ground Level (m AOD):**	32.87
	Project Number: 233398			**Eastings:**	361809.59
	Client: Intermodal Logistics Park North Ltd			**Northings:**	395419.47
Hole Type: WLS	**Rig:** Premier 110PR	**Start & End Date:**	25/04/2025	**Engineer:** TF	**Checker:**

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Firm dark brown sandy CLAY. (Topsoil)			ES1	0.10					
		32.47 [4.60]	Firm brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and coal. (Till)		0.40				SPT	1.00	N=8 (1,2/2,2,2,2)	
						ES2	2.00		SPT	2.00	N=10 (1,2/2,3,2,3)	
						D1	2.30					
									SPT	3.00	N=15 (3,3/5,4,3,3)	
									SPT	4.00	N=14 (3,4/3,4,4,3)	
		27.87	Hole Terminated at 5.00m bgl.		5.00				SPT	5.00	N=17 (4,3/4,4,4,5)	

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:
Refusal.

Groundwater Remarks:
No groundwater encountered.

Other Remarks:
Location cleared of buried services. Installed with monitoring standpipe upon completion.

BOREHOLE LOG

Scale 1:50 Sheet 1 of 1

LOCATION ID					
DS04	**Project Name:** ILP-North			**Ground Level (m AOD):**	29.35
	Project Number: 233398			**Eastings:**	361545.19
	Client: Intermodal Logistics Park North Ltd			**Northings:**	395486.74
Hole Type: WLS	**Rig:** Premier 110PR	**Start & End Date:** 01/05/2025		**Engineer:** TF	**Checker:**

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Dark brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone.			ES1	0.20					
		28.95 [0.60]	(Topsoil)		0.40							
			Firm brown sandy CLAY. Sand is fine to coarse.									
		28.35 [2.90]	(Till)		1.00				SPT	1.00	N=7 (1,2/1,2,2,2)	
			Soft to stiff brown slightly silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular, fine to coarse of sandstone and coal.			ES2	1.50					
			(Till)						SPT	2.00	N=14 (1,2/2,3,4,5)	
									SPT	3.00	N=22 (1,2/3,4,6,9)	
		25.45 [0.10] 25.35	Weathered SANDSTONE recovered as red gravelly sand.		3.90							
			(Weathered Chester Formation)		4.00				SPT	4.00	N=57 (6,11/12,15,15,15)	
			Hole Terminated at 4.00m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Refusal.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

Location cleared of buried services. Installed with monitoring standpipe upon completion.

BOREHOLE LOG

Scale 1:50 Sheet 1 of 1

LOCATION ID					
DS08	**Project Name:** ILP-North			**Ground Level (m AOD):**	29.56
	Project Number: 233398			**Eastings:**	361739.13
	Client: Intermodal Logistics Park North Ltd			**Northings:**	395277.98
Hole Type: WLS	**Rig:** Premier 110PR	**Start & End Date:**	23/04/2025	**Engineer:** TF	**Checker:**

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.20]	Crops over firm dark brown sandy CLAY with low rootlet content. Sand is fine to coarse. (Topsoil)		0.20	ES1	0.10					
		29.36 [1.20]	Medium dense reddish brown clayey SAND. Sand is fine to coarse. (Till)						SPT	1.00	N=14 (3,3/3,4,4,3)	
		28.16 [2.60]	Firm brown sandy CLAY. Sand is fine to coarse. (Till)		1.40							
						B1	2.00	4.00	SPT	2.00	N=10 (2,2/2,2,3,3)	
▼									SPT	3.00	N=12 (2,2/3,3,3,3)	
		25.56 [1.00]	Weak red SANDSTONE recovered as red sandy gravel. (Weathered Chester Formation)		4.00				SPT	4.00	N=61 (3,4/4,15,14,28)	
						D1	4.20					
		24.56	Hole Terminated at 5.00m bgl.		5.00							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:
Refusal.

Groundwater Remarks:
Groundwater Strike at 3.00m bgl.

Other Remarks:
Location cleared of buried services. Installed with monitoring standpipe upon completion.

BOREHOLE LOG

Scale 1:50 Sheet 1 of 1

LOCATION ID					
DS10	**Project Name:** ILP-North			**Ground Level (m AOD):**	31.40
	Project Number: 233398			**Eastings:**	361386.03
	Client: Intermodal Logistics Park North Ltd			**Northings:**	395315.05
Hole Type: WLS	**Rig:** Premier 110PR	**Start & End Date:** 24/04/2025		**Engineer:** LC	**Checker:**

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.30]	Grass over dark brown to dark grey silty fine and medium SAND with frequent rootlets to 0.25m. (Topsoil)		0.30	ES1	0.40	0.50				
		31.10 [0.65]	Brown and orange becoming light greyish brown from 0.6m fine and medium SAND. (Till)		0.95				SPT	1.00	N=14 (1,2/3,3,3,5)	
		30.45 [0.55]	Medium dense grey occasionally brown slightly silty fine and medium SAND. (Till)		1.50	ES2	1.20	1.30				
		29.90 [0.55]	Stiff grey occasionally mottled red slightly gravelly CLAY/SILT. Gravel is fine and medium subangular to subrounded limestone, quartzite, chert and occasional very weak sandstone. (Till)		2.05	D1	1.70	1.80				
		29.35 [0.40]	Medium dense grey occasionally yellow silty fine and medium SAND. (Till)		2.45				SPT	2.00	N=22 (3,3/3,3,8,8)	
		28.95 [0.05]	Stiff dark red to reddish brown slightly sandy CLAY. (Till)		2.50							
		28.90 [0.15]	Orange and yellow slightly gravelly fine and medium SAND. Gravel is fine to coarse subrounded chert and quartzite. (Till)		2.65							
		28.75 [0.25]	Stiff dark red to reddish brown slightly sandy CLAY. (Till)		2.90				SPT	3.00	25 (9,15/25 for 50mm)	
		28.50 [0.30]	Very dense grey and orange slightly gravelly fine and medium SAND. Gravel is fine to coarse subangular to subrounded quartzite and weak sandstone. (Weathered Chester Formation)		3.20							
		28.20	Hole Terminated at 3.20m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

Location cleared of buried services. Installed with monitoring standpipe upon completion.

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	**Project Name:** ILP-North			1.80
TP01	**Project Number:** 233398			0.70 Pit Dimensions (m) Orientation: °
	Client: Intermodal Logistics Park North Ltd			
	Plant: JCB 3CX	**Start & End Date:** 30/04/2025		Stability: Stable
Ground Level (m AOD): 34.67		**Eastings & Northings:** 361979E 395831N	Engineer: DZ	Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.40m 34.27	Dark brown slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)		0.40	D1	0.50	0.60			
		0.80m	Firm mottled brown grey slightly gravelly silty very sandy CLAY. Gravel is sub-angular and sub-rounded fine and medium sandstone, quartzite and shale. (Till)						HSV HSV HSV	0.80 0.80 0.80	(100)kPa (90)kPa (90)kPa
▼		33.47	Brown silty fine SAND. (Weathered Chester Formation)		1.20	B1	1.70	1.90			
		2.20m									
		31.27	Hole Terminated at 3.40m bgl.		3.40	B2	3.30	3.40			

Remarks

Reason for Termination:

Terminated on rock.

Groundwater Notes:

Wet soils below 1.20m bgl. Slow water inflow.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	**Project Name:** ILP-North		1.90
TP02	**Project Number:** 233398		0.70 Pit Dimensions (m) Orientation: °
	Client: Intermodal Logistics Park North Ltd		
	Plant: JCB 3CX	**Start & End Date:** 30/04/2025	Stability: Unstable below 1.60m.
Ground Level (m AOD): 37.28	**Eastings & Northings:** 362189E 395799N		Engineer: DZ Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.30m 36.98	Dark brown slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite, plastic and brick. (Made Ground)		0.30	D1	0.10	0.20			
		1.30m	Firm mottled brown grey slightly gravelly slightly sandy silty CLAY. Gravel is sub-angular and sub-rounded fine and medium sandstone, quartzite and shale. (Reworked Natural Soils) (Made Ground)			B1	0.60	0.70			
▼		35.68 1.10m	Brown slightly gravelly very clayey fine to coarse SAND. Gravel is angular to sub-rounded fine to coarse sandstone. (Glaciofluvial Ice Contact Deposits)		1.60	D2	1.90	2.00			
		34.58	Hole Terminated at 2.70m bgl.		2.70	B2	2.50	2.60			

Remarks

Reason for Termination:

Terminated on collapse of wet soils.

Groundwater Notes:

Wet soils below 1.60m bgl. Moderate water inflow.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	**Project Name:** ILP-North			2.00
TP06	**Project Number:** 233398			0.70 Pit Dimensions (m) Orientation: °
	Client: Intermodal Logistics Park North Ltd			
	Plant: JCB 3CX	**Start & End Date:** 30/04/2025		Stability: Stable
Ground Level (m AOD): 30.17		**Eastings & Northings:** 361618E 395540N	Engineer: DZ	Checker:

Strata					Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend / Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.35m 29.82	Dark brown slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)	0.35						
			Firm mottled orange, brown and grey slightly gravelly very sandy CLAY. Gravel is sub-angular and sub-rounded fine and medium sandstone, quartzite and shale. Sand is fine. (Till)		D1	0.70	0.80	HSV HSV HSV	0.60 0.60 0.60	(55)kPa (60)kPa (65)kPa
		2.25m 27.57	Soft grey brown silty sandy CLAY. Sand is fine. (Till)	2.60	D2	2.70	2.80	HSV HSV HSV	2.70 2.70 2.70	(65)kPa (70)kPa (70)kPa
		1.00m 26.57	Hole Terminated at 3.60m bgl.	3.60	D3	3.50	3.60			

Remarks

Reason for Termination:

Terminated at agreed depth.

Groundwater Notes:

No groundwater encountered.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	Project Name:	ILP-North		1.90
TP08	Project Number:	233398		0.70 Pit Dimensions (m) Orientation: °
	Client:	Intermodal Logistics Park North Ltd		
	Plant: JCB 3CX	Start & End Date:	30/04/2025	Stability: Stable
Ground Level (m AOD): 32.74	Eastings & Northings:	361882E 395471N		Engineer: DZ Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.30m 32.44	Dark brown slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)		0.30	B1	0.10	0.30			
		2.10m	Firm mottled orange brown and grey slightly gravelly very sandy CLAY. Gravel is sub-angular and sub-rounded fine and medium sandstone, quartzite and shale. Sand is fine. (Till)			B2	0.70	0.80	HSV HSV HSV	0.60 0.60 0.60	(60)kPa (65)kPa (70)kPa
		30.34 1.00m	Red clayey, gravelly medium SAND with low cobble content. Gravel is angular to sub-rounded medium to coarse sandstone. Cobbles are angular and sub-angular sandstone. (Weathered Chester Formation)		2.40	D1	2.10	2.20			
		29.34	Hole Terminated at 3.40m bgl.		3.40	B3	3.30	3.40			

Remarks

Reason for Termination:

Terminated on rock.

Groundwater Notes:

No groundwater encountered.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	Project Name:	ILP-North		1.90
TP10	Project Number:	233398		0.60 Pit Dimensions (m) Orientation: °
	Client:	Intermodal Logistics Park North Ltd		
	Plant: JCB 3CX	Start & End Date:	28/04/2025	Stability: Stable
Ground Level (m AOD): 31.11	Eastings & Northings:	361643E 395414N		Engineer: DZ Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.40m 30.71	Dark brown clayey slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)		0.40						
		1.20m	Firm mottled orange grey red and brown very sandy CLAY. Sand is fine. (Till)			B1	0.90	1.00	HSV HSV HSV	0.80 0.80 0.80	(80)kPa (80)kPa (85)kPa
▼		29.51	Soft to firm slightly gravelly very sandy CLAY. Gravel is angular fine and medium sandstone and quartzite. Sand is fine. (Till)		1.60	D1 B2	2.00 2.30	2.10 2.50			
		1.90m							HSV HSV HSV	2.50 2.50 2.50	(50)kPa (60)kPa (65)kPa
		27.61	Hole Terminated at 3.50m bgl.		3.50	B3	3.40	3.50			

Remarks

Reason for Termination:

Terminated at agreed depth.

Groundwater Notes:

Wet soils below 1.60m bgl. Slow water inflow.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	Project Name:	ILP-North		1.80
TP11	Project Number:	233398		0.60 Pit Dimensions (m) Orientation: °
	Client:	Intermodal Logistics Park North Ltd		
	Plant: JCB 3CX	Start & End Date:	28/04/2025	Stability: Stable
Ground Level (m AOD): 30.28	Eastings & Northings:	361440E 395372N		Engineer: DZ Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.40m 29.88	Dark brown slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)		0.40	B1	0.20	0.40			
		1.70m	Soft to firm mottled brown orange grey slightly gravelly sandy silty CLAY. Gravel is sub-angular to sub-rounded fine and medium sandstone and quartzite. Sand is fine to coarse. (Till)			B2	0.80	0.90	HSV HSV HSV	1.20 1.20 1.20	(70)kPa (70)kPa (80)kPa
		28.18	Red gravelly fine and medium SAND. Gravel is angular to sub-rounded medium and coarse sandstone. (Weathered Chester Formation)		2.10	D1	1.70	1.80			
		1.40m	*Below 3.00m bgl: With cobbles. Cobbles are angular sandstone.*			D2	2.80	2.90			
		26.78	Hole Terminated at 3.50m bgl.		3.50	B3	3.30	3.50			

Remarks

Reason for Termination:

Terminated at agreed depth.

Groundwater Notes:

No groundwater encountered.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	Project Name:	ILP-North		2.00
TP12	Project Number:	233398		0.60 Pit Dimensions (m) Orientation: °
	Client:	Intermodal Logistics Park North Ltd		
	Plant: JCB 3CX	Start & End Date:	28/04/2025	Stability: Stable
Ground Level (m AOD): 29.28	Eastings & Northings:	361609E 395306N		Engineer: DZ Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.35m 28.93	Dark brown slightly gravelly silty fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)		0.35						
		0.85m	Brown yellow grey slightly sandy silty CLAY. Sand is fine to coarse. (Till)			B1	0.90	1.20			
		28.08 1.00m	Soft brown, orange and grey slightly gravelly sandy silty CLAY. Gravel is sub-angular to sub rounded fine to coarse sandstone, quartzite and shale. Sand is fine. (Till)		1.20	D2 B2	1.50 1.90	1.60 2.10	HSV HSV HSV	2.00 2.00 2.00	(45)kPa (50)kPa (50)kPa
		27.08 1.20m	Red and orange gravelly fine and medium SAND with low cobble content. Gravel is angular to sub-rounded fine to coarse sandstone. Cobbles are angular sandstone. (Weathered Chester Formation)		2.20						
		25.88	Hole Terminated at 3.40m bgl.		3.40	B3	3.30	3.40			

Remarks

Reason for Termination:

Terminated on rock.

Groundwater Notes:

No groundwater encountered.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

TRIAL PIT LOG

Scale: 1:50 Sheet 1 of 1

LOCATION ID:	**Project Name:** ILP-North			2.00
TP72	**Project Number:** 233398			0.70 Pit Dimensions (m) Orientation: °
	Client: Intermodal Logistics Park North Ltd			
	Plant: JCB 3CX	**Start & End Date:** 30/04/2025		Stability: Stable
Ground Level (m AOD): 33.17		**Eastings & Northings:** 362004E 395678N	Engineer: DZ	Checker:

Strata						Samples			In-Situ Tests		
Groundwater Strike	Backfill	Level (m AOD)	Description	Legend	Depth (m bgl)	Type	From (m)	To (m)	Type	Depth (m)	Result
		0.35m 32.82	Dark brown silty slightly gravelly fine SAND with rootlets. Gravel is sub-rounded to rounded fine and medium quartzite. (Topsoil)		0.35	D1	0.10	0.20			
		0.25m 32.57	Firm light brown light grey CLAY. (Lacustrine Deposits)		0.60				HSV HSV	0.70 0.70	(60)kPa (60)kPa
		1.60m	Firm mottled brown grey slightly gravelly sandy silty CLAY. Gravel is sub-angular and sub-rounded fine and medium sandstone, quartzite and shale. Sand is fine to coarse. (Till)			B1	1.00	1.20	HSV	0.70	(65)kPa
		30.97	Brown orange silty medium SAND. (Till)		2.20						
		0.80m 30.17				B2	2.80	2.90			
		0.50m 29.67	Firm brown grey slightly gravelly silty CLAY. Gravel is sub-angular and sub-rounded fine and medium sandstone, quartzite and shale. (Till)		3.00	D2	3.10	3.20	HSV HSV HSV	3.10 3.10 3.10	(55)kPa (60)kPa (60)kPa
			Hole Terminated at 3.50m bgl.		3.50						

Remarks

Reason for Termination:

Terminated at agreed depth.

Groundwater Notes:

No groundwater encountered.

Other Remarks:

1. No olfactory or visual evidence of contamination recorded. 2. Trial Pit backfilled with arisings.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

Appendix 9: PSD Testing Results

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	23/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

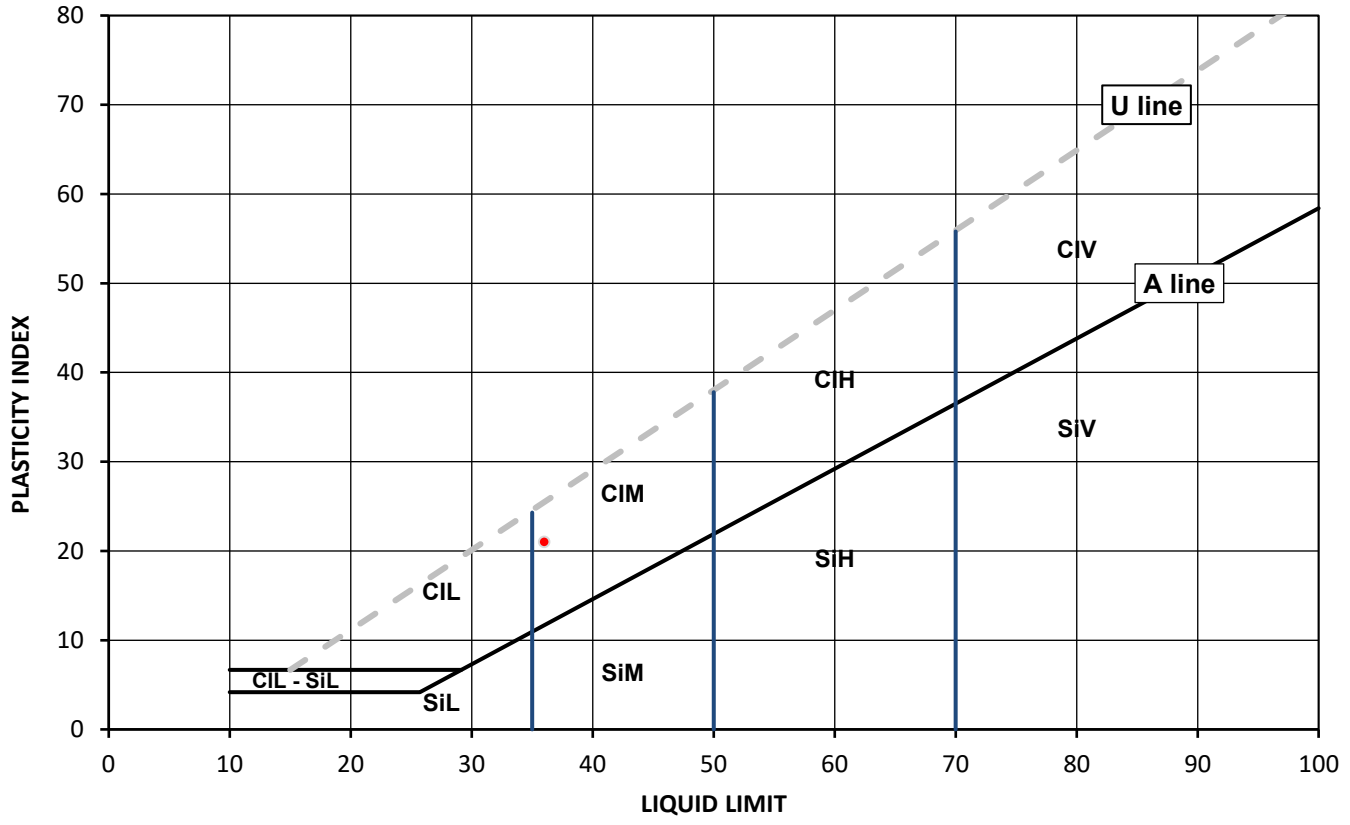
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570763	Depth Top [m]:	1.20
Hole No.:	DS07	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.6	36	15	21	0.33	0.67	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

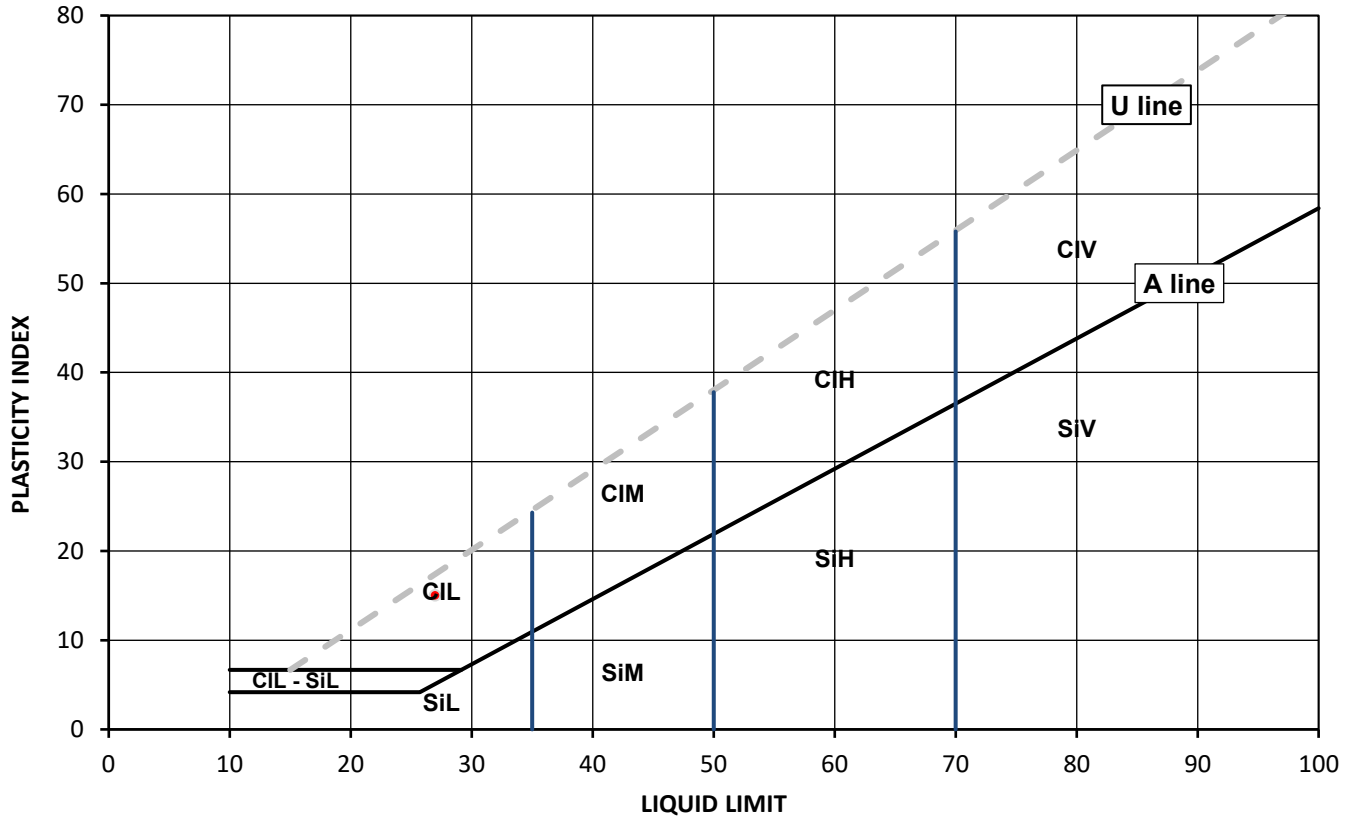
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	23/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570764	Depth Top [m]:	2.00
Hole No.:	DS08	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.8	27	12	15	0.40	0.60	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	25/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

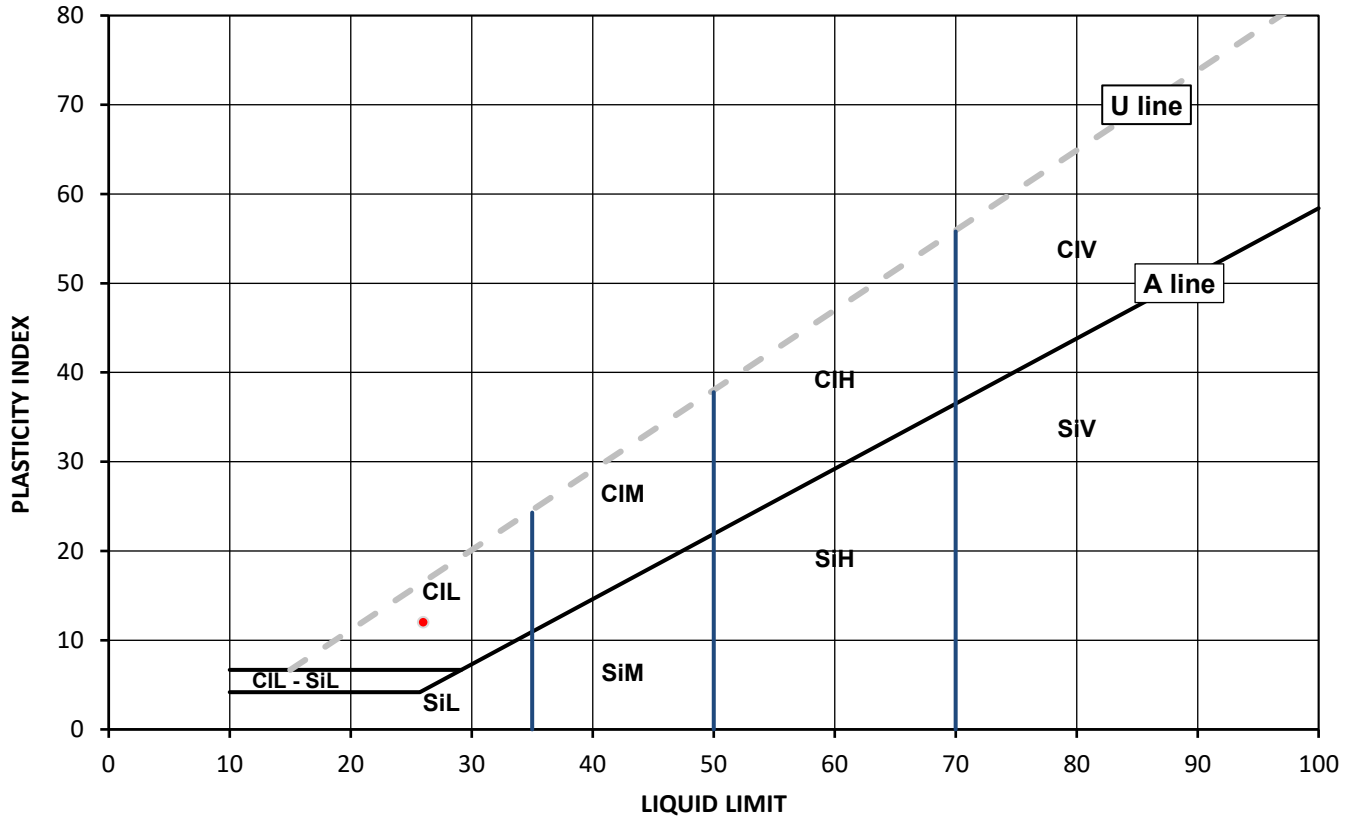
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570765	Depth Top [m]:	1.20
Hole No.:	DS02	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
12.5	26	14	12	-0.08	1.08	95



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	25/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

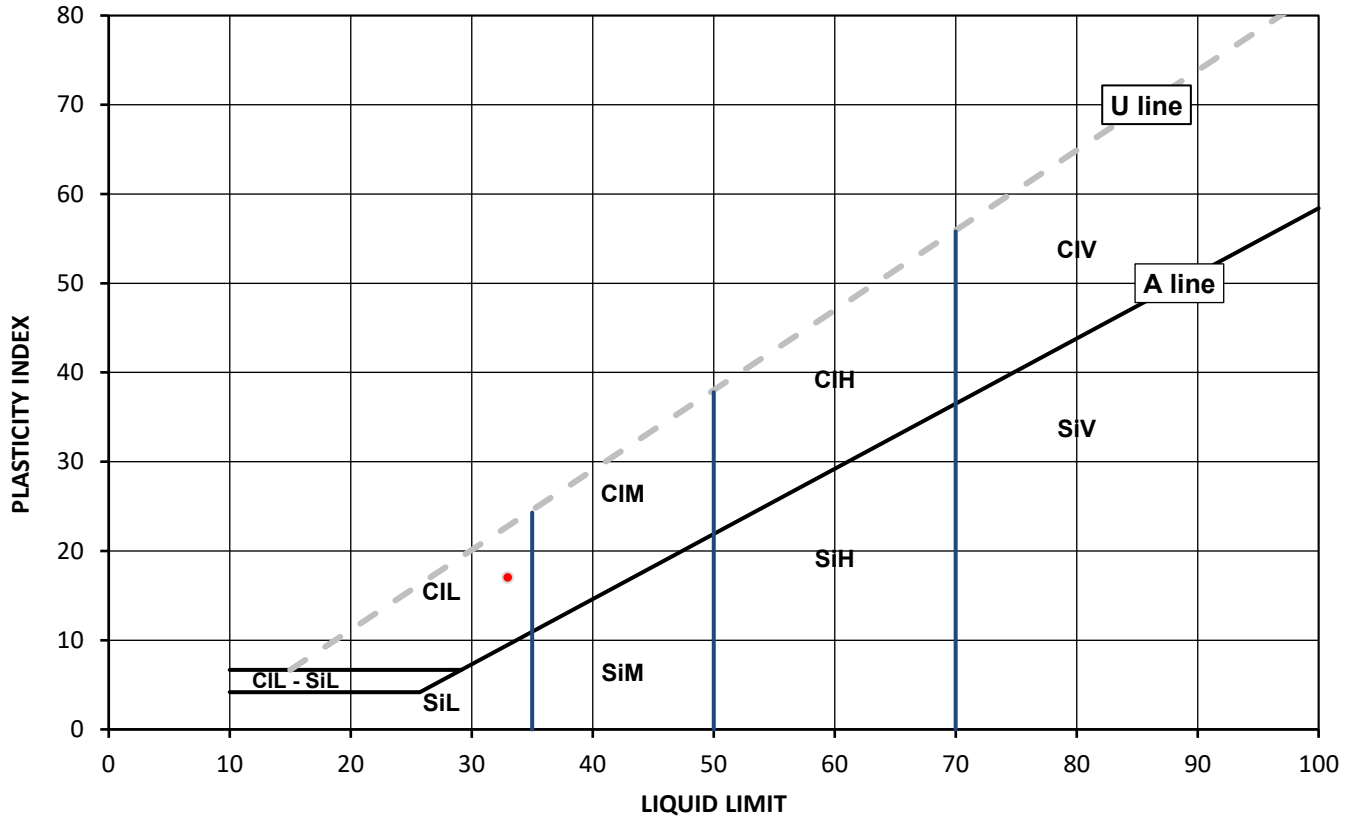
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570766	Depth Top [m]:	3.00
Hole No.:	DS05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
18.5	33	16	17	0.18	0.82	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

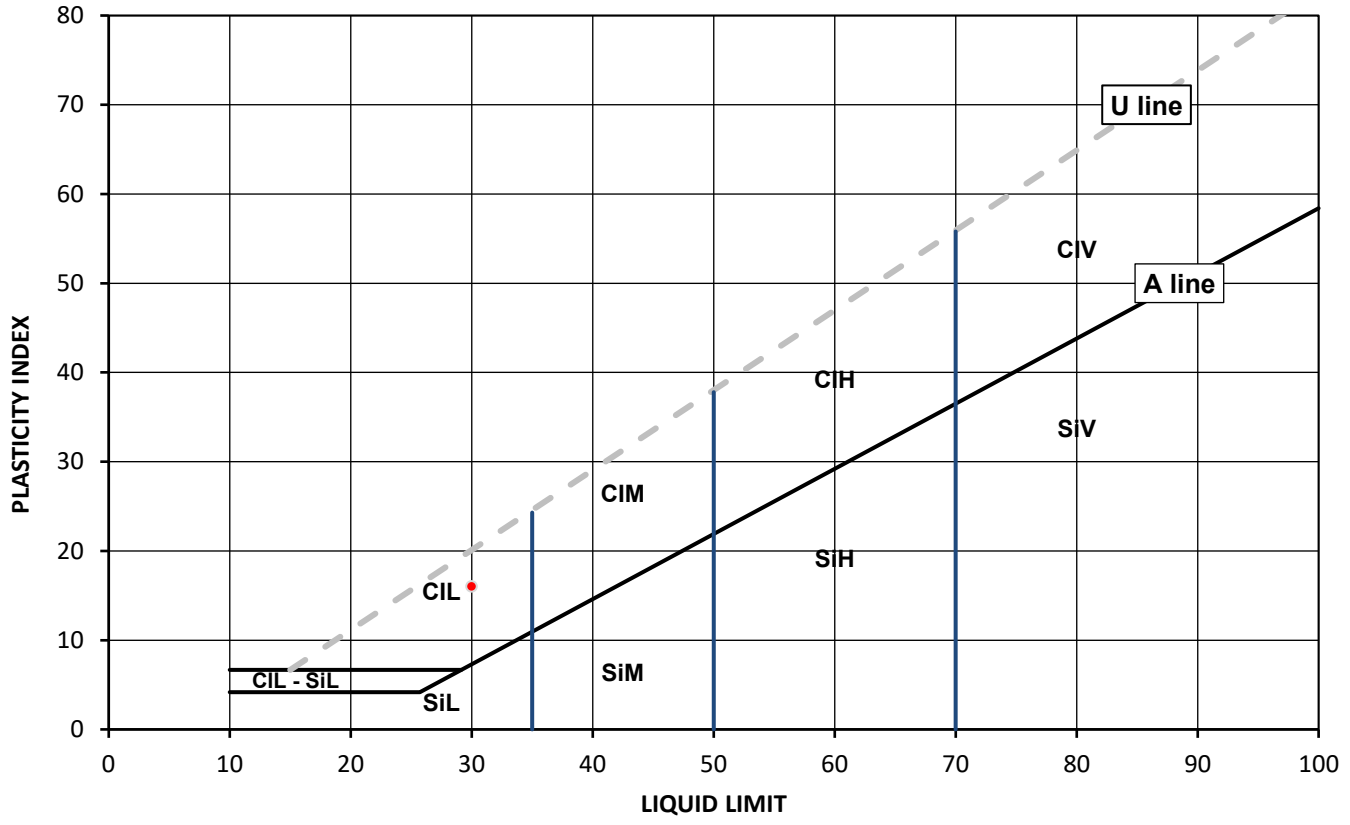
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570767	Depth Top [m]:	1.50
Hole No.:	DS01	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.1	30	14	16	0.19	0.81	98



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

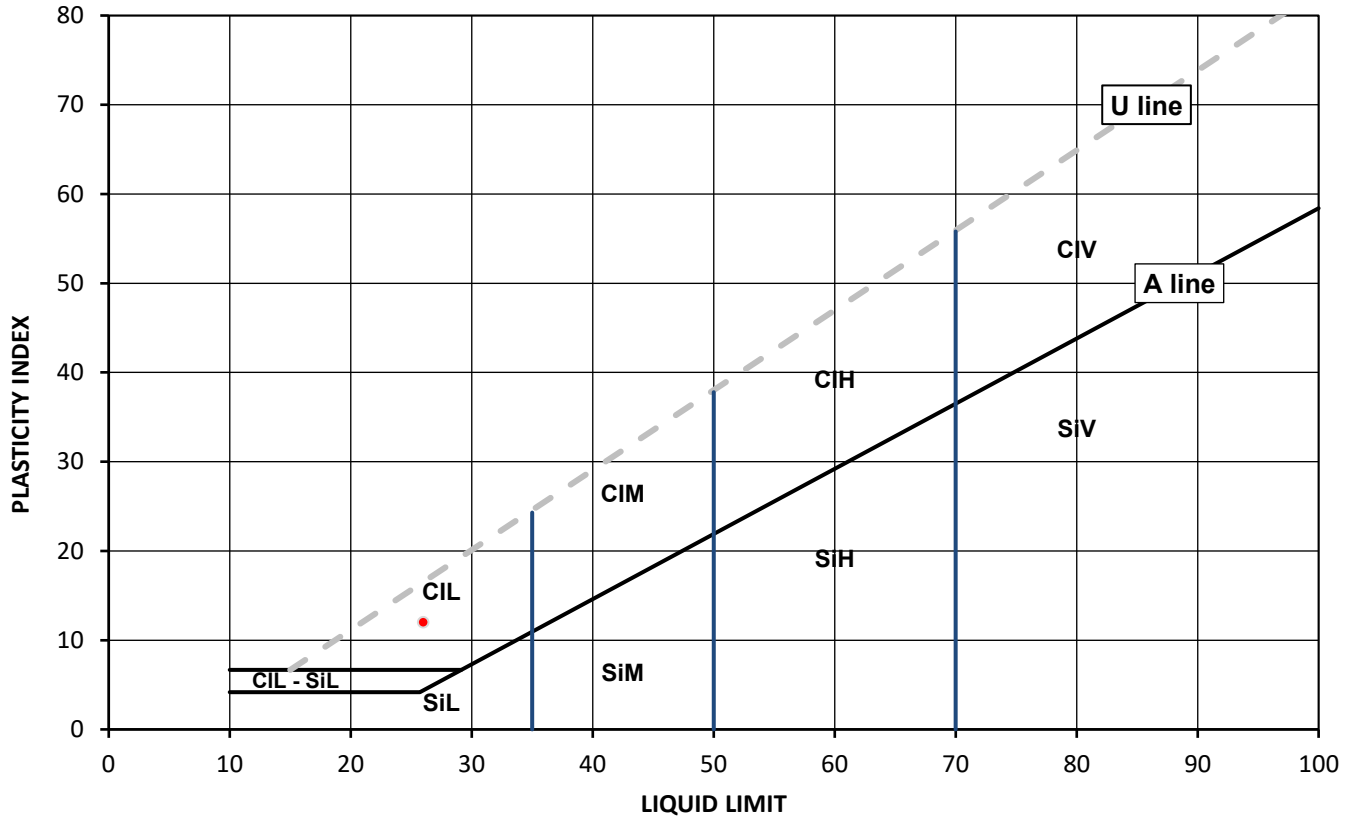
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570770	Depth Top [m]:	2.00
Hole No.:	TP10	Depth Base [m]:	2.10
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
15.4	26	14	12	0.08	0.92	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

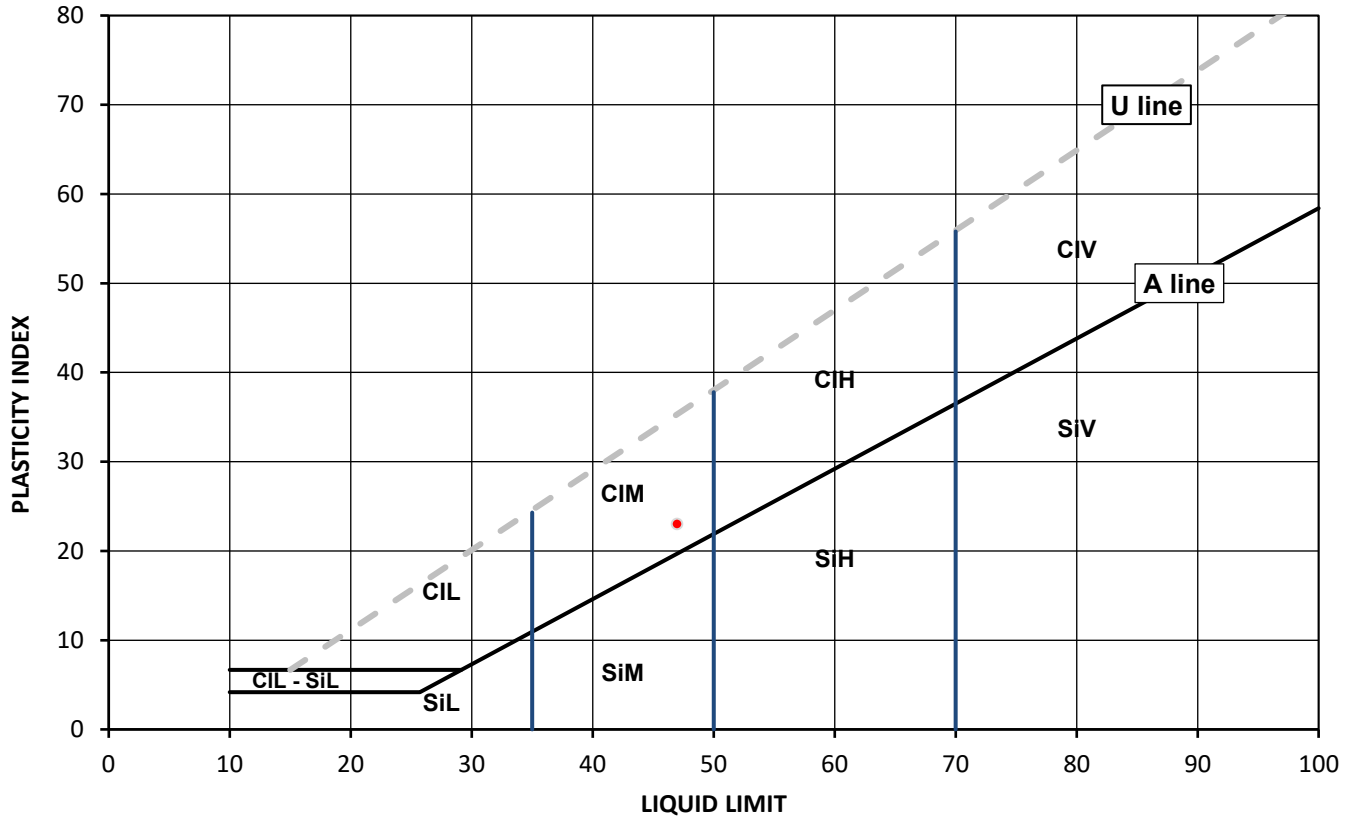
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570774	Depth Top [m]:	0.70
Hole No.:	TP14	Depth Base [m]:	0.90
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Dark grey slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
33.0	47	24	23	0.39	0.61	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

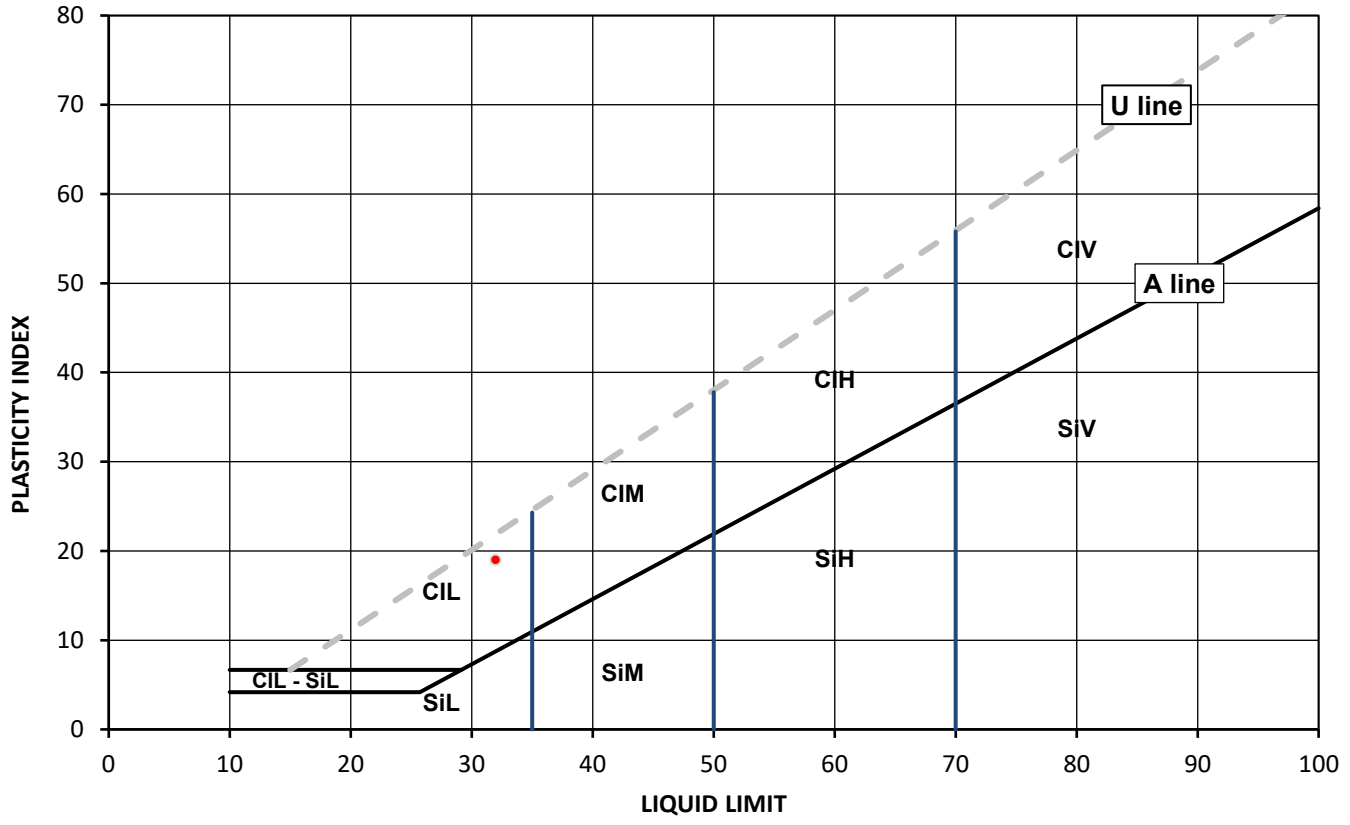
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570775	Depth Top [m]:	0.50
Hole No.:	TP15	Depth Base [m]:	0.60
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brownish grey slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
16.7	32	13	19	0.21	0.79	90



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

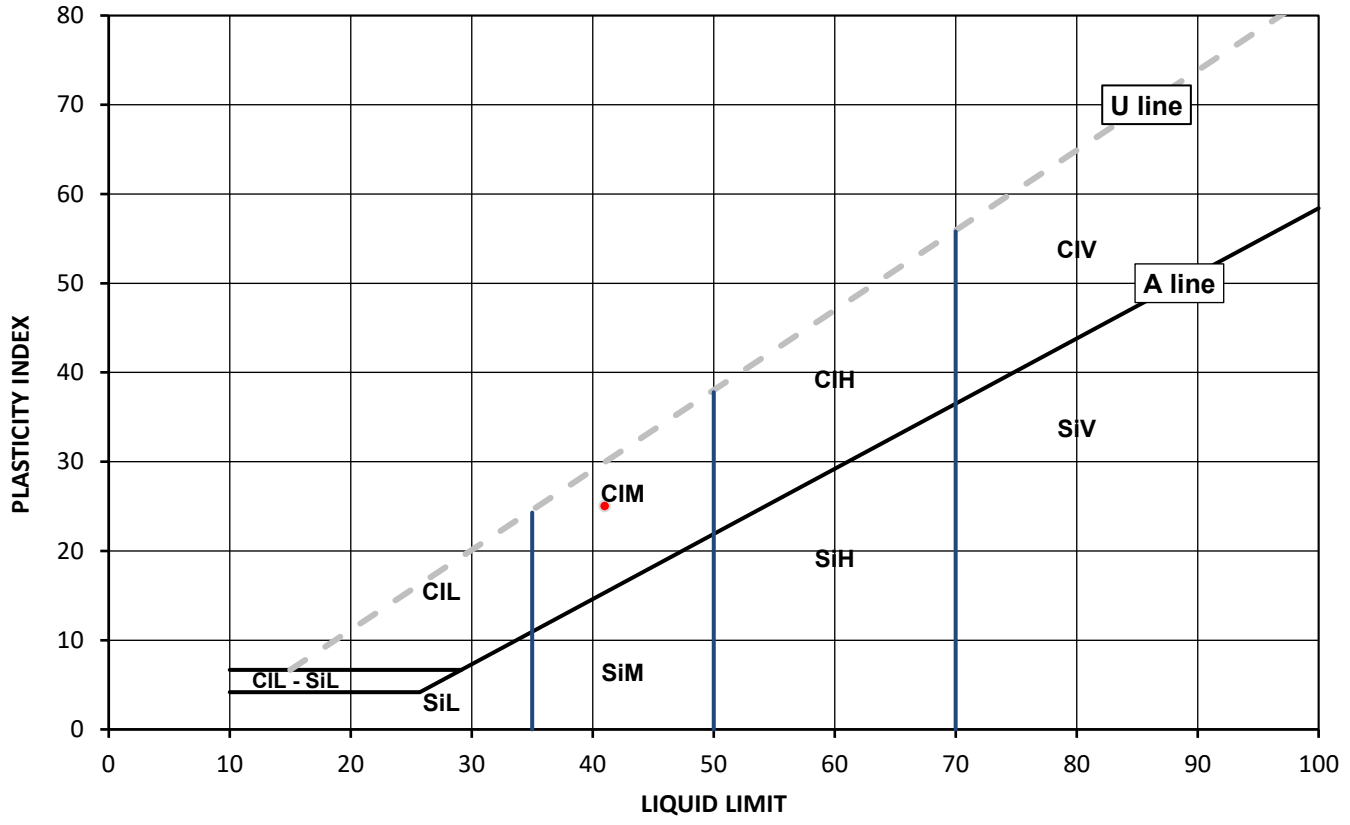
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570780	Depth Top [m]:	0.50
Hole No.:	TP24	Depth Base [m]:	0.60
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
18.3	41	16	25	0.08	0.92	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

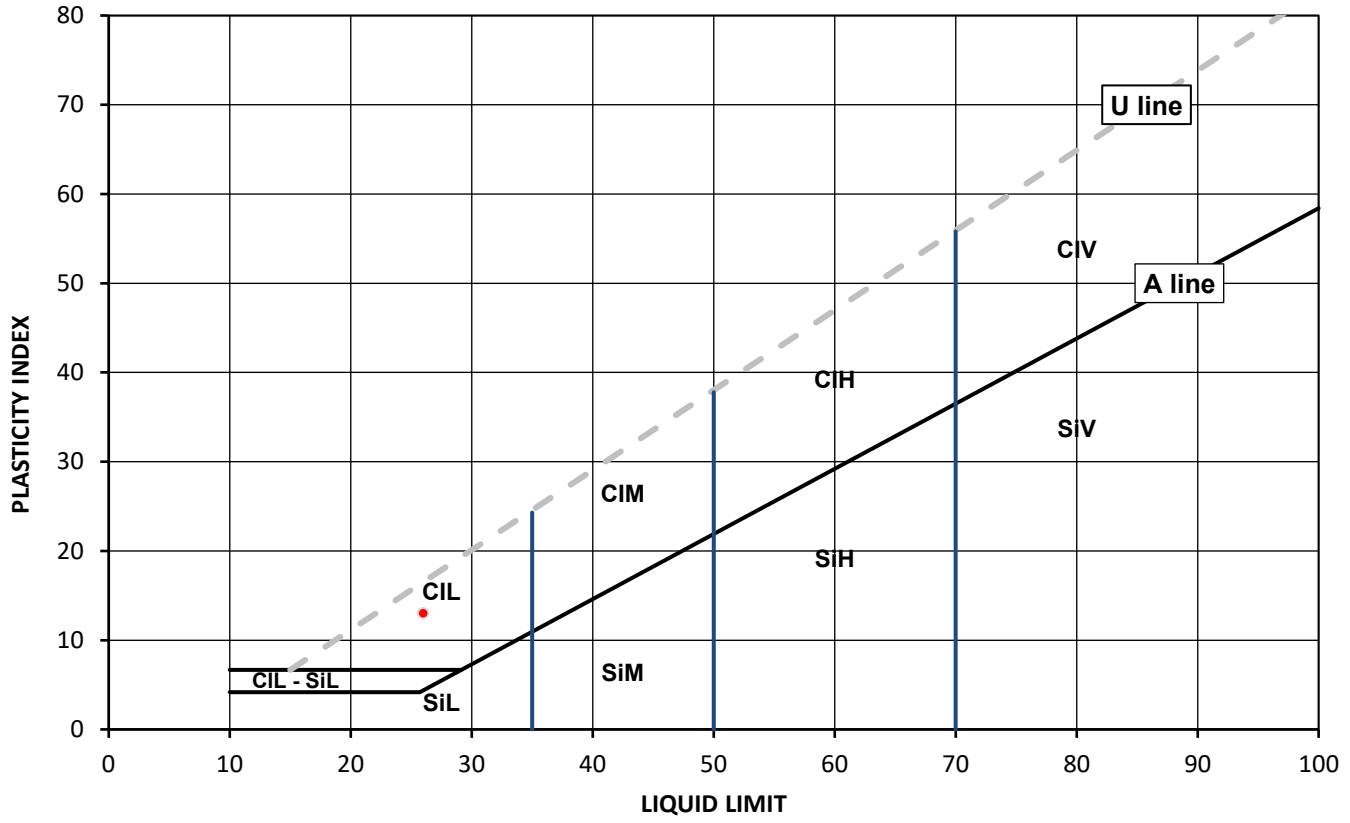
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570784	Depth Top [m]:	1.50
Hole No.:	TP20	Depth Base [m]:	1.60
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
15.6	26	13	13	0.23	0.77	95



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

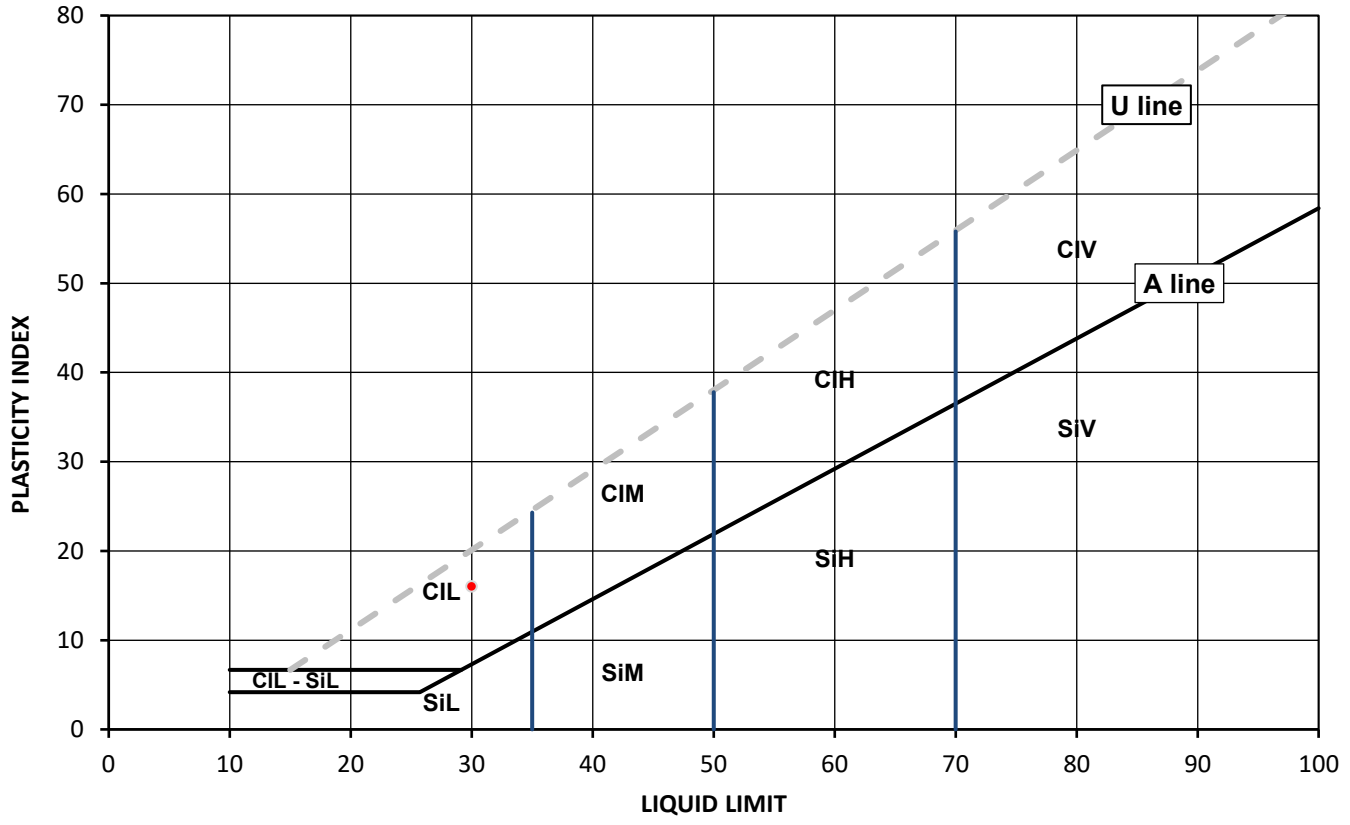
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570787	Depth Top [m]:	0.60
Hole No.:	TP23	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
13.1	30	14	16	-0.06	1.06	93



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

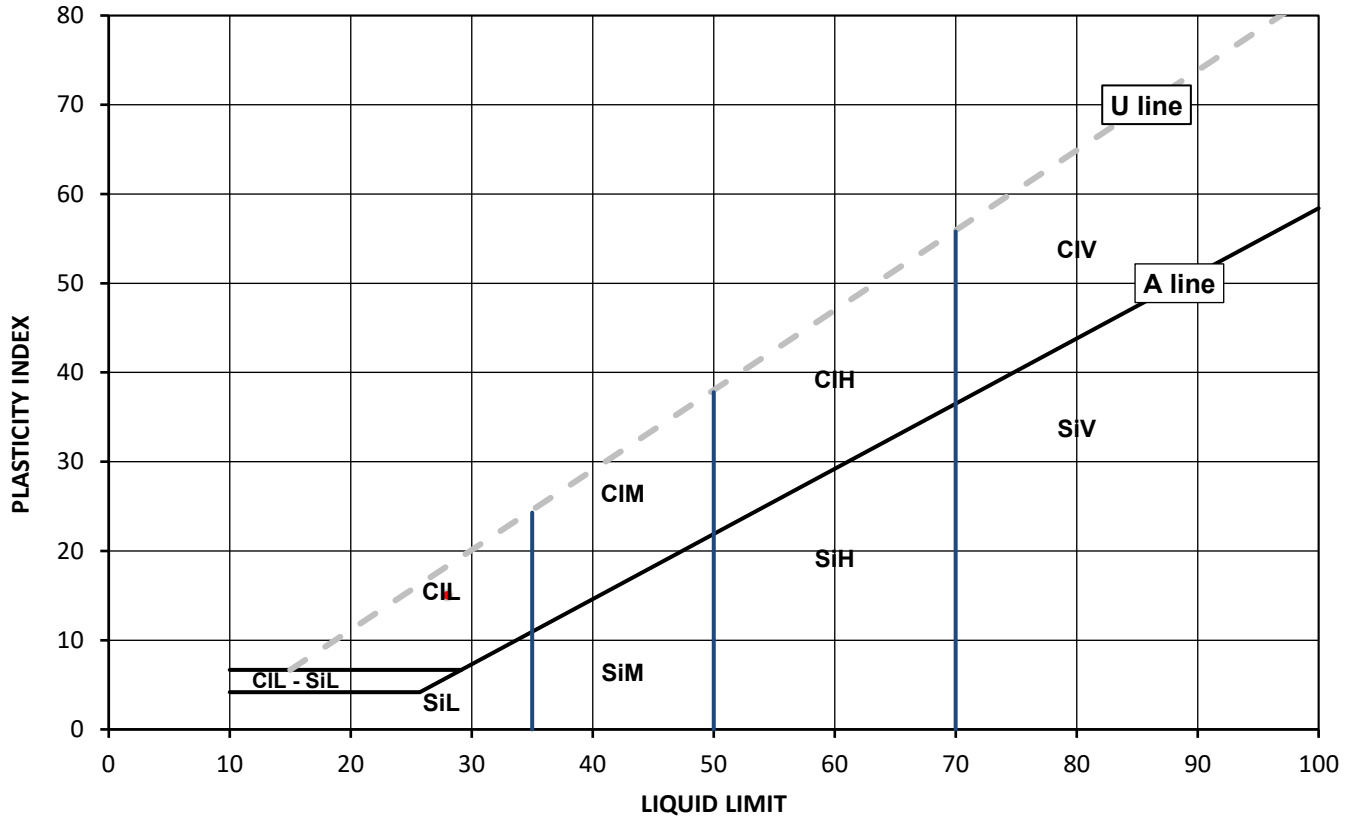
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570790	Depth Top [m]:	2.10
Hole No.:	TP08	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
14.4	28	13	15	0.07	0.93	93



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

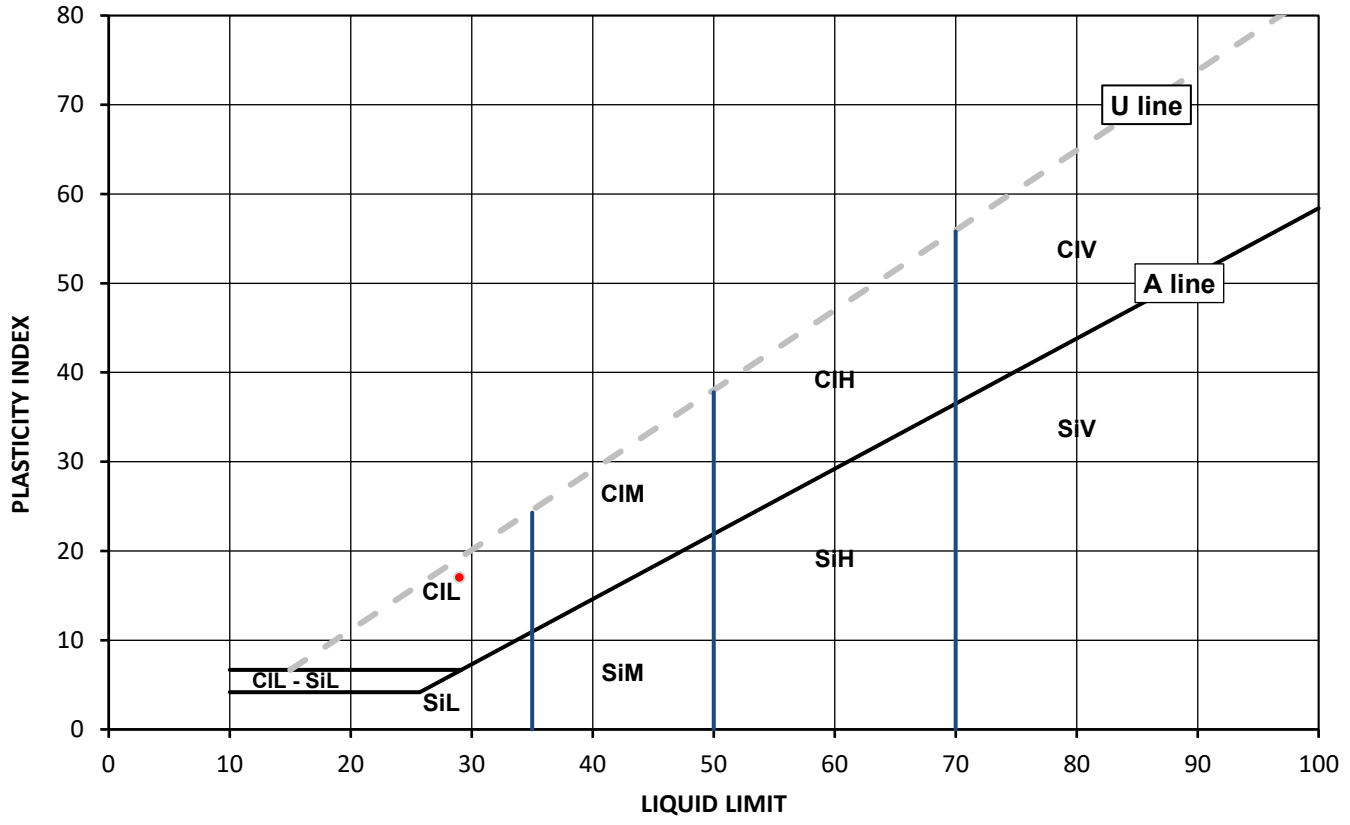
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570794	Depth Top [m]:	0.70
Hole No.:	TP06	Depth Base [m]:	0.80
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
14.6	29	12	17	0.18	0.82	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

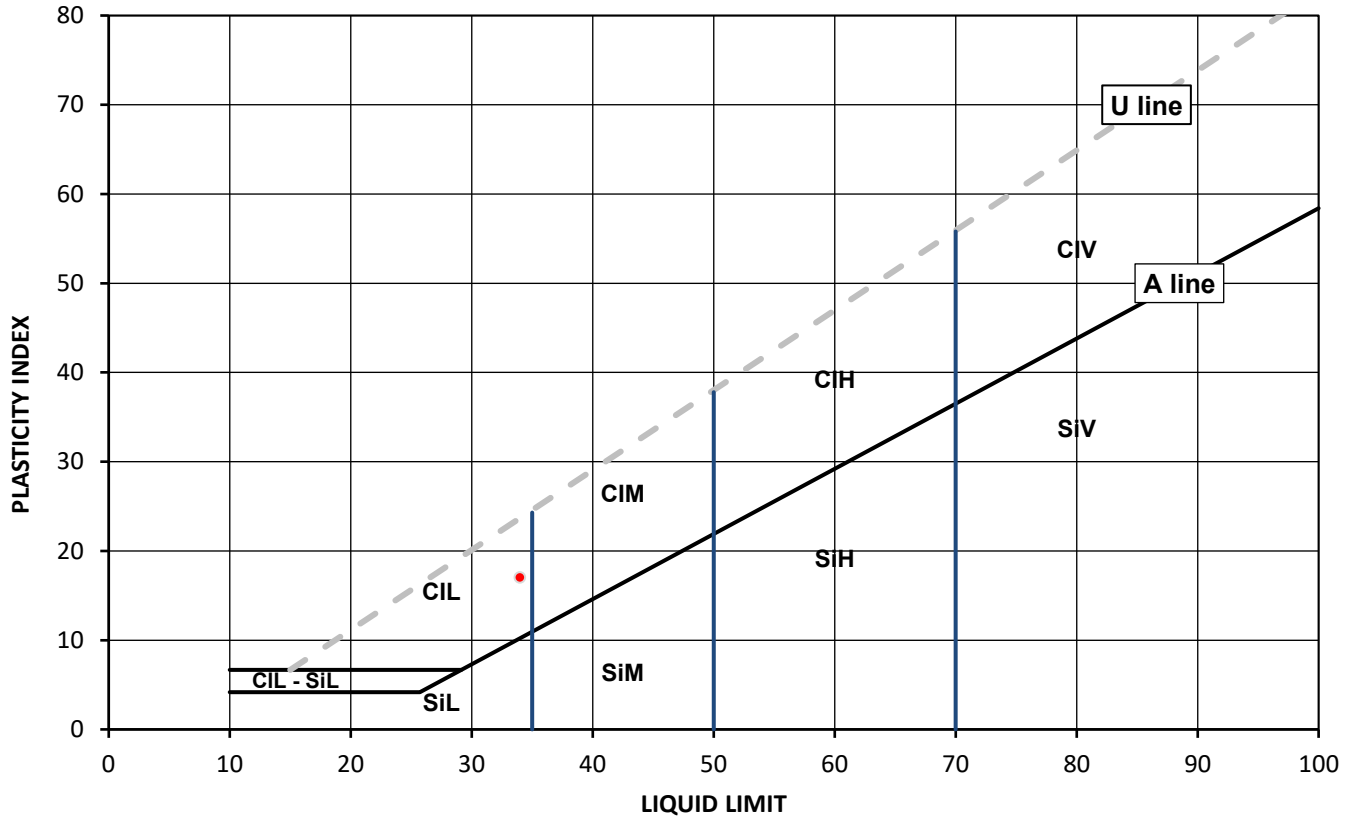
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570795	Depth Top [m]:	0.60
Hole No.:	TP02	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
14.2	34	17	17	-0.18	1.18	85



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

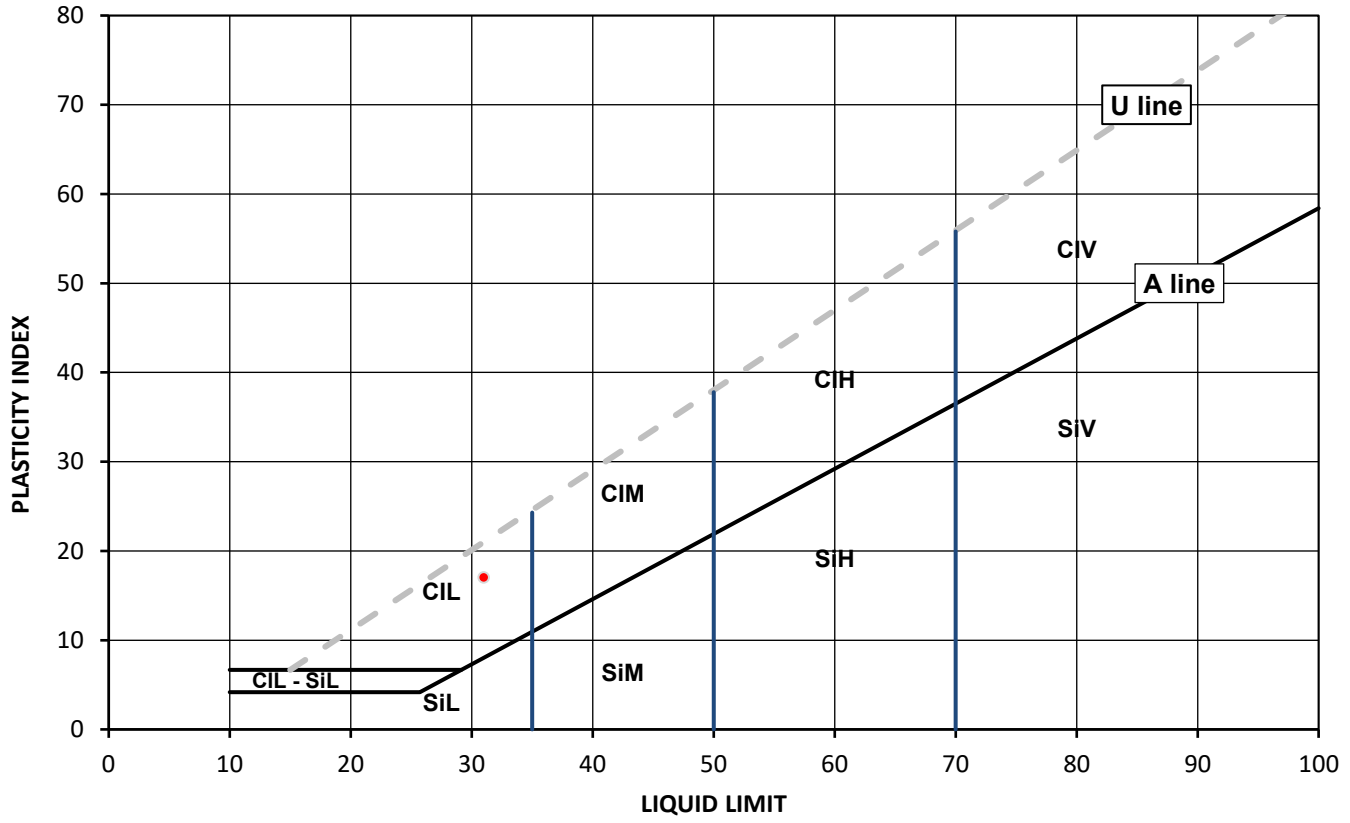
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570798	Depth Top [m]:	2.20
Hole No.:	TP03	Depth Base [m]:	2.30
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.0	31	14	17	0.18	0.82	92



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

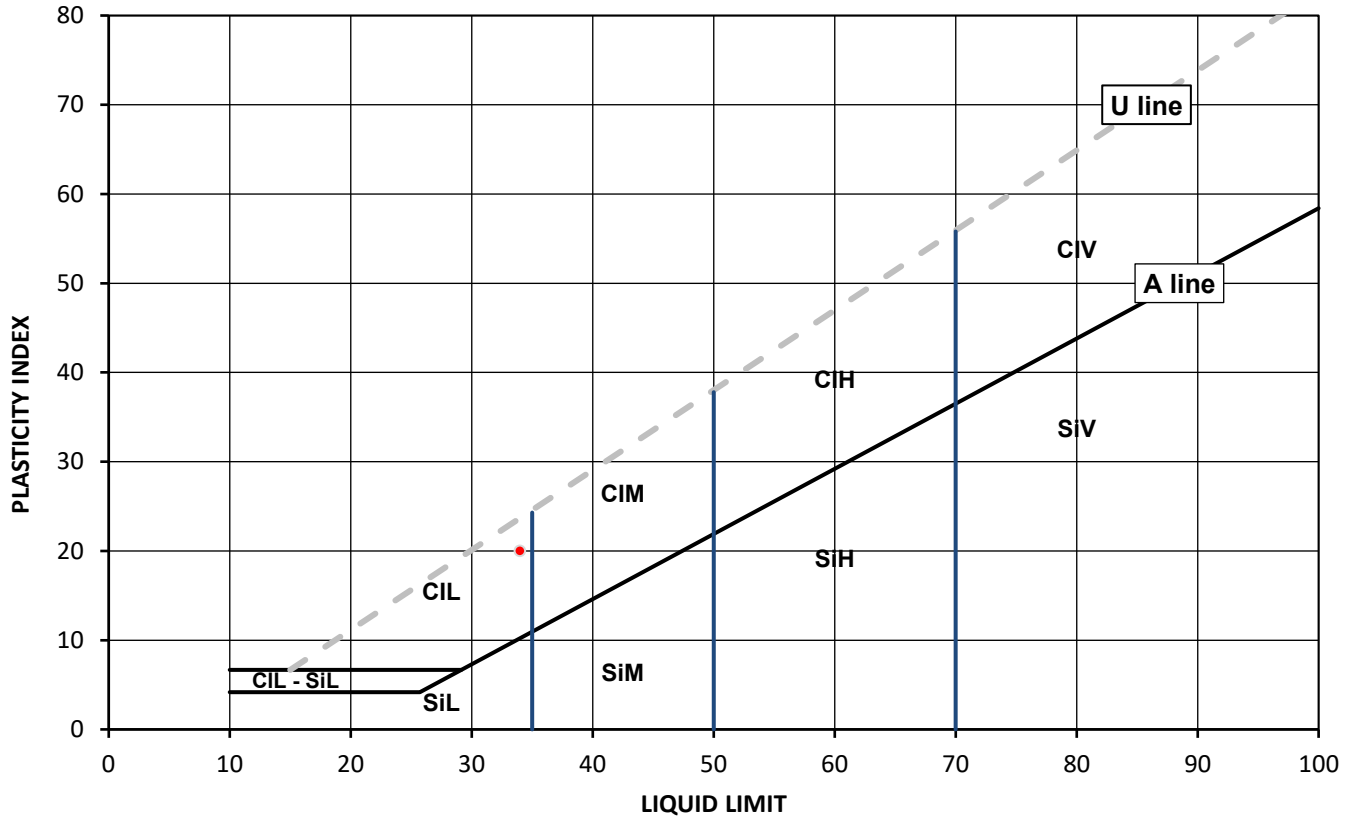
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570801	Depth Top [m]:	0.50
Hole No.:	TP01	Depth Base [m]:	0.60
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brownish grey slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.6	34	14	20	0.20	0.80	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

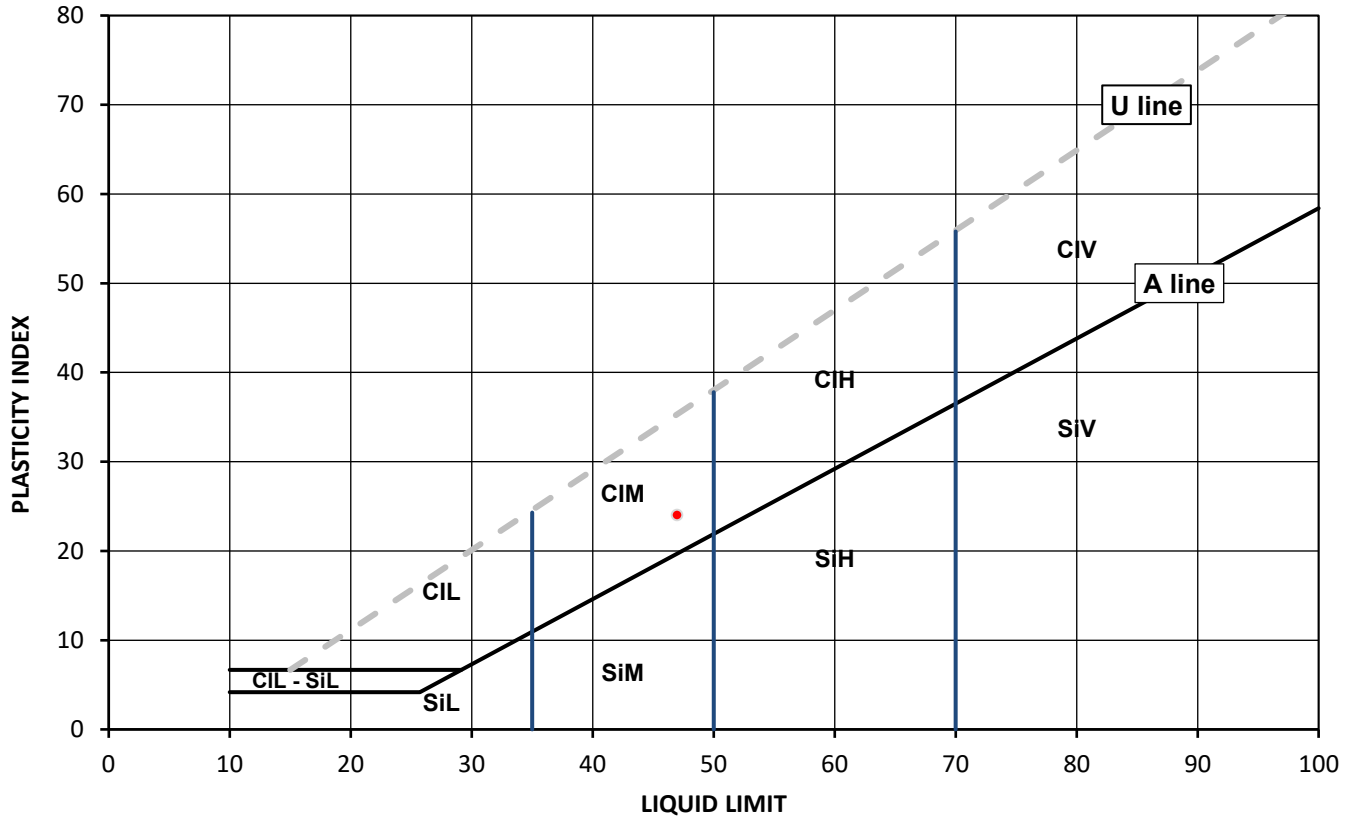
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	01/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570804	Depth Top [m]:	0.40
Hole No.:	TP31	Depth Base [m]:	0.60
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
24.8	47	23	24	0.08	0.92	98



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

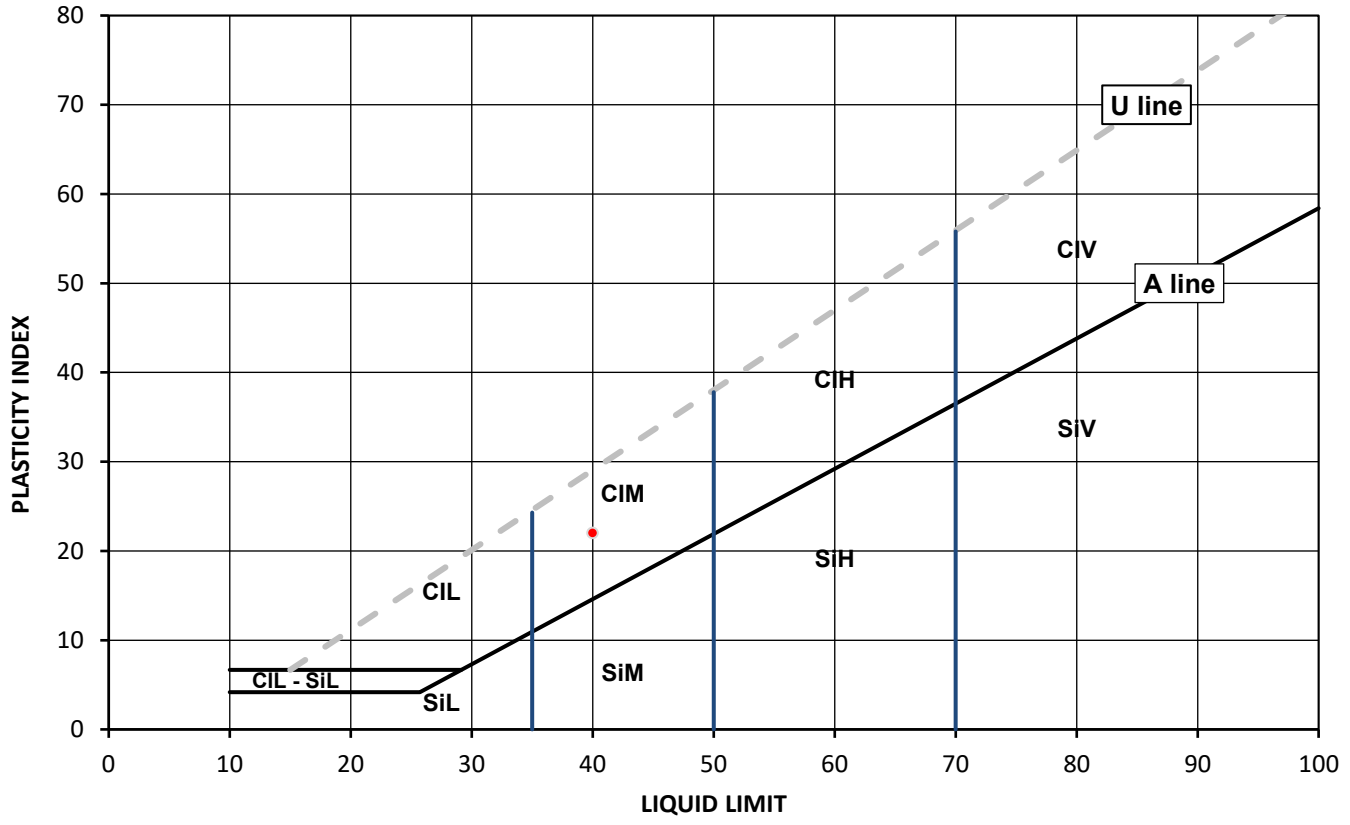
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	02/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570812	Depth Top [m]:	0.40
Hole No.:	TP36	Depth Base [m]:	0.50
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brownish grey slightly gravelly sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.3	40	18	22	0.14	0.86	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

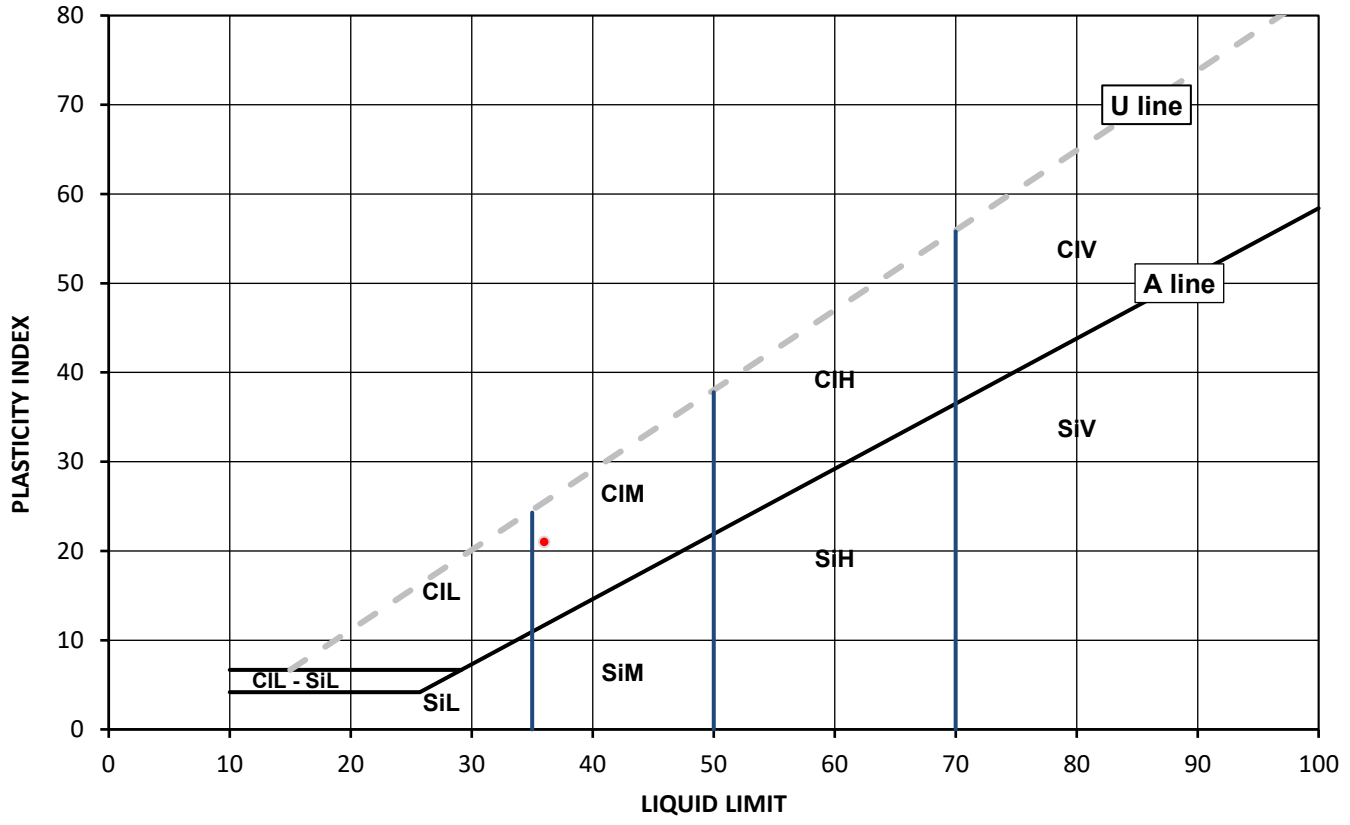
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570814	Depth Top [m]:	1.00
Hole No.:	DS14	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
10.9	36	15	21	-0.19	1.19	88



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

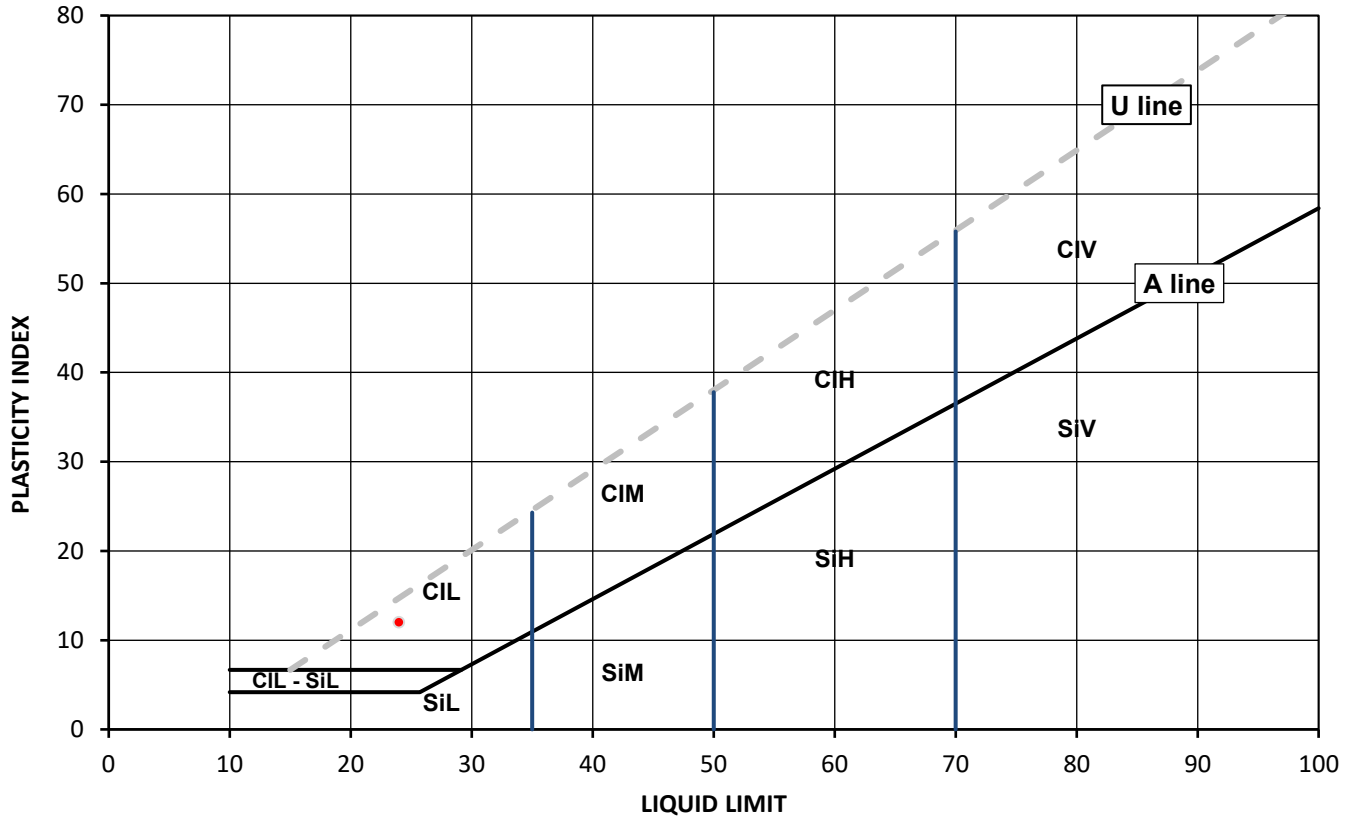
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570815	Depth Top [m]:	0.50
Hole No.:	DS15	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly clayey SAND		

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
8.9	24	12	12	-0.25	1.25	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

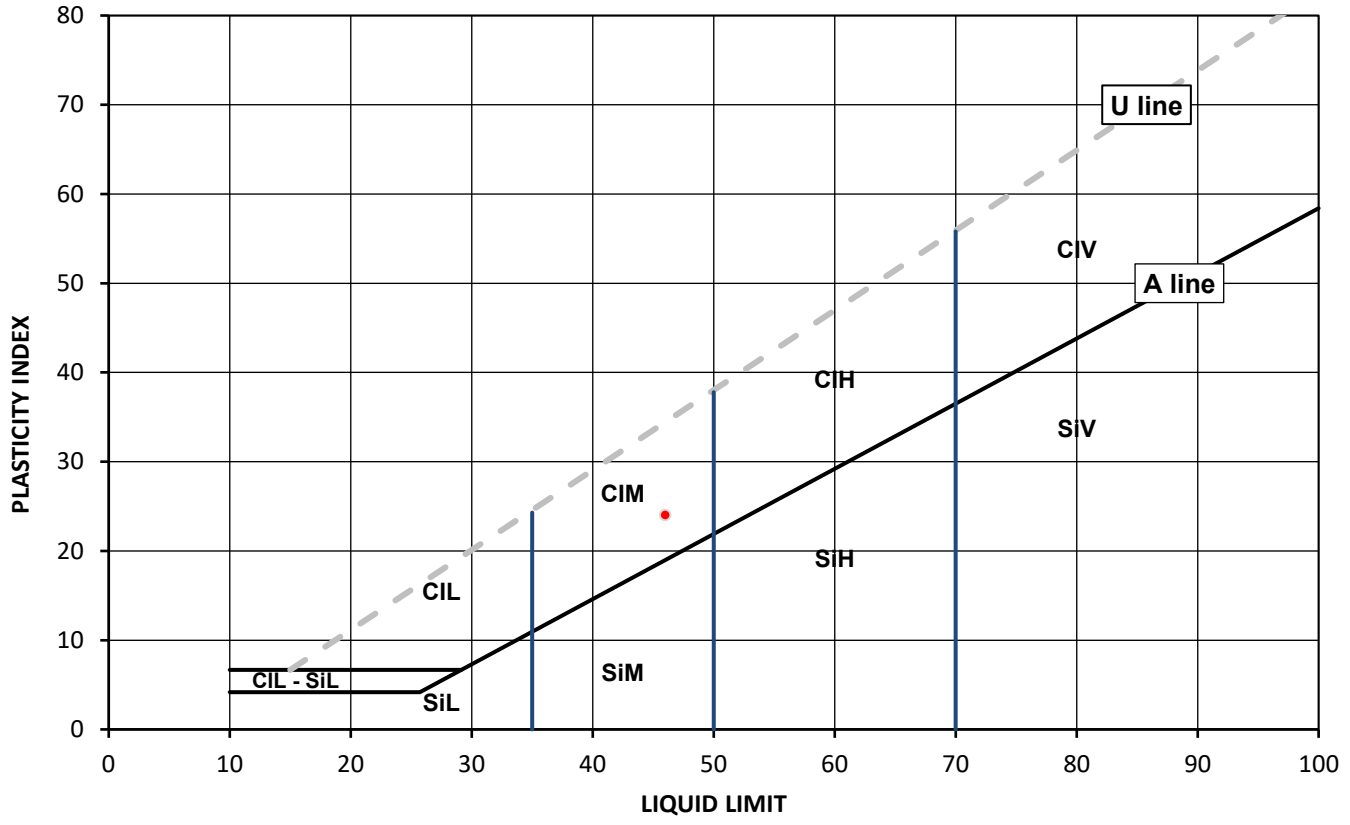
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	01/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570816	Depth Top [m]:	3.50
Hole No.:	DS06	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
30.9	46	22	24	0.38	0.63	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

4041

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

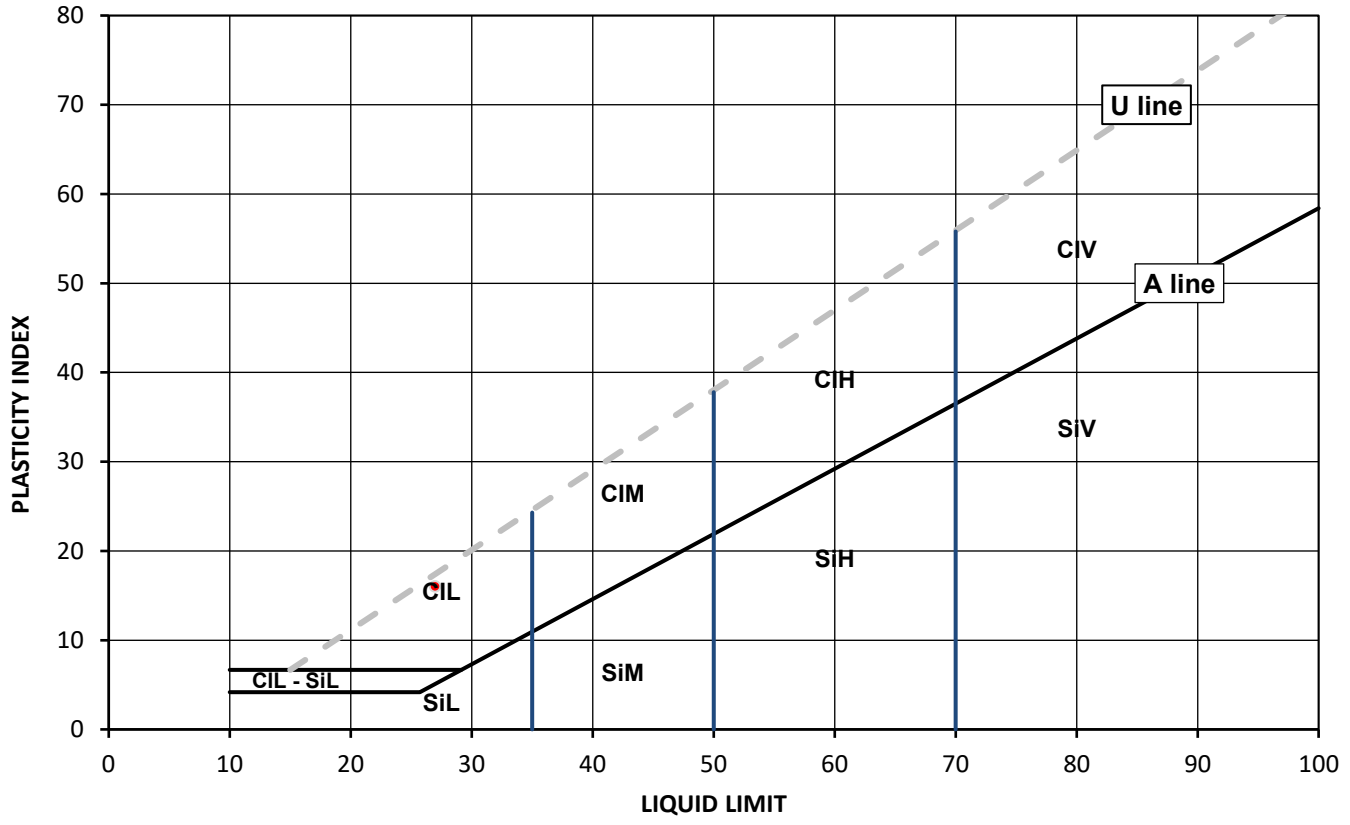
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570820	Depth Top [m]:	4.00
Hole No.:	RO02	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
8.9	27	11	16	-0.13	1.13	93



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

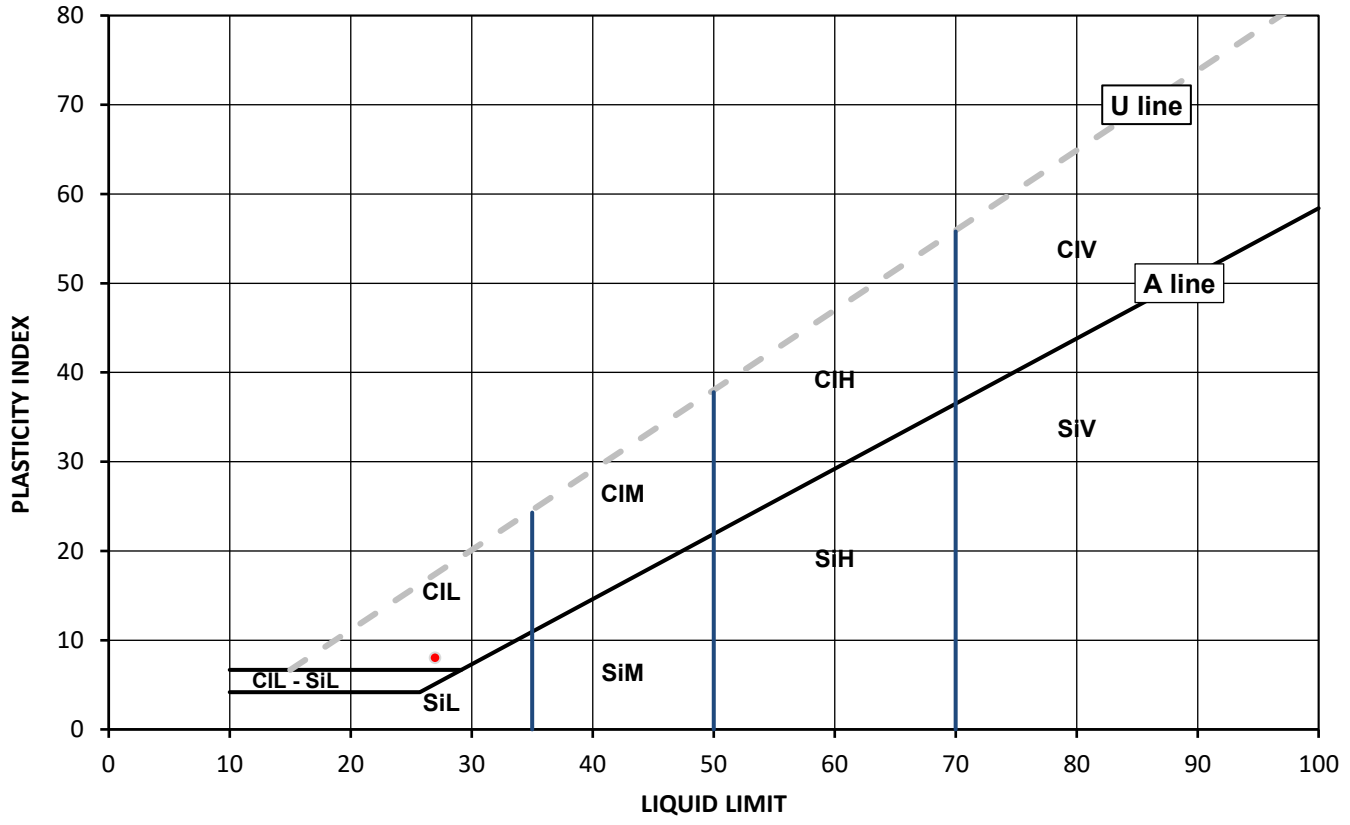
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572839	Depth Top [m]:	0.30
Hole No.:	TP51 1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very sandy silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
11.7	27	19	8	-0.88	1.88	88



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

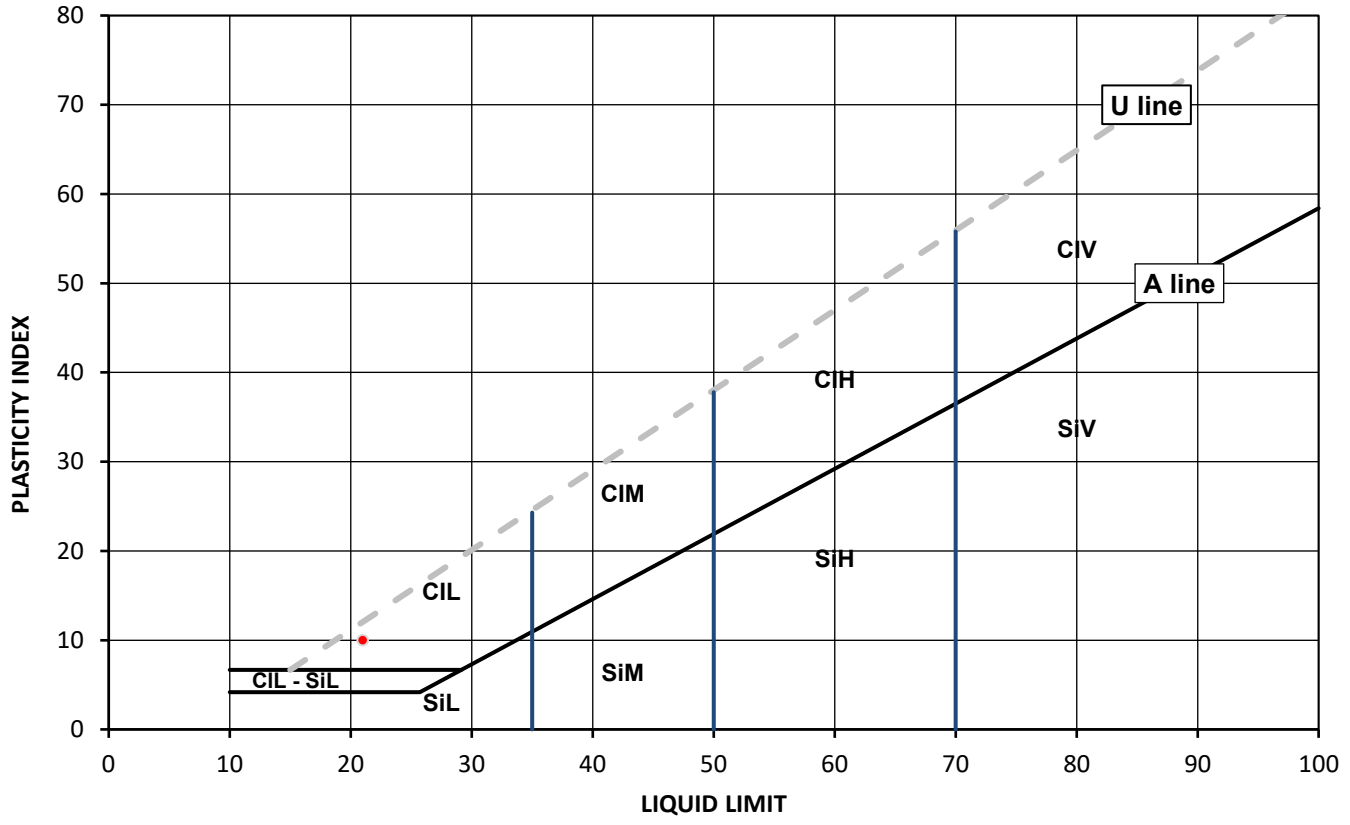
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572842	Depth Top [m]:	0.50
Hole No.:	TP71 1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy silty CLAY		

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
11.1	21	11	10	0.00	1.00	95



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

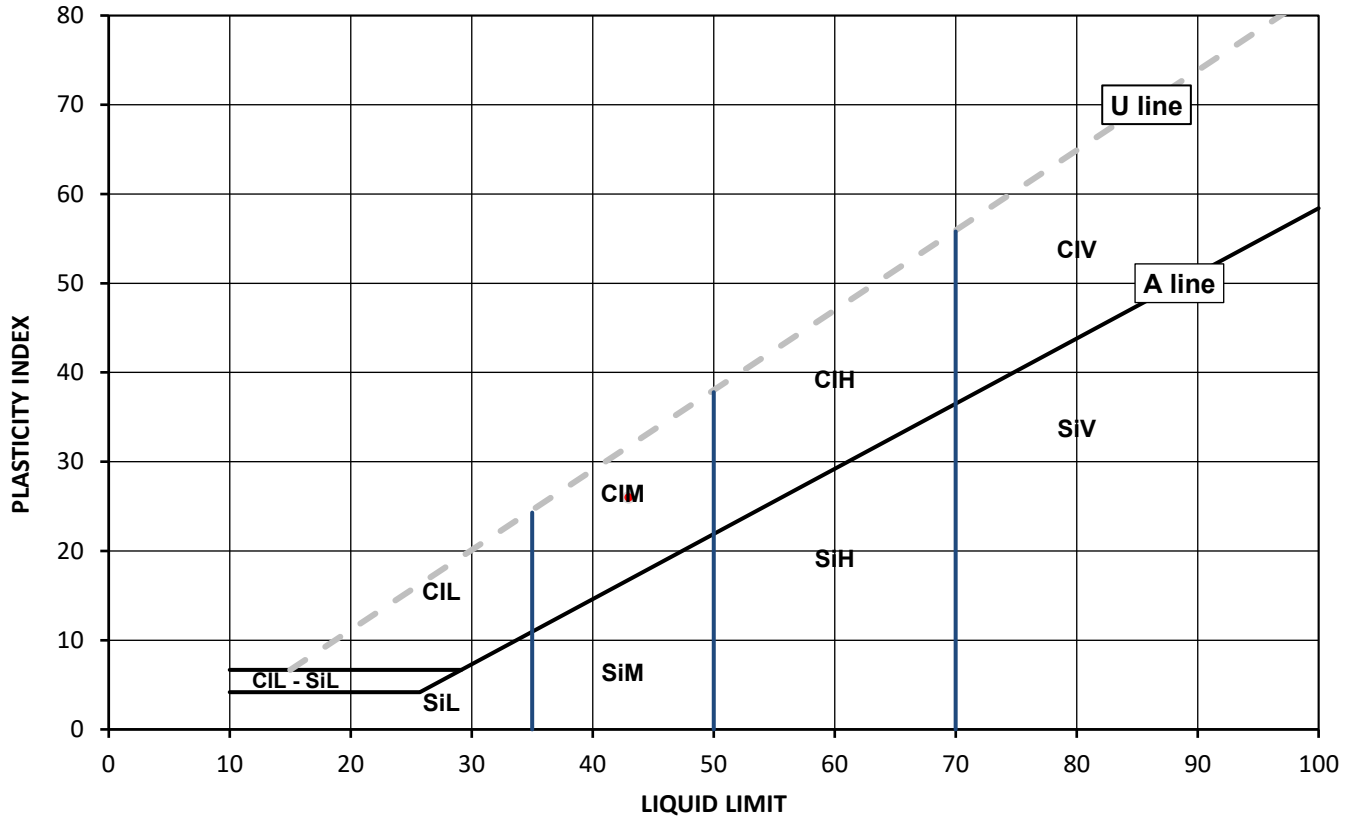
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572849	Depth Top [m]:	1.30
Hole No.:	TP41 3	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
22.4	43	17	26	0.19	0.81	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

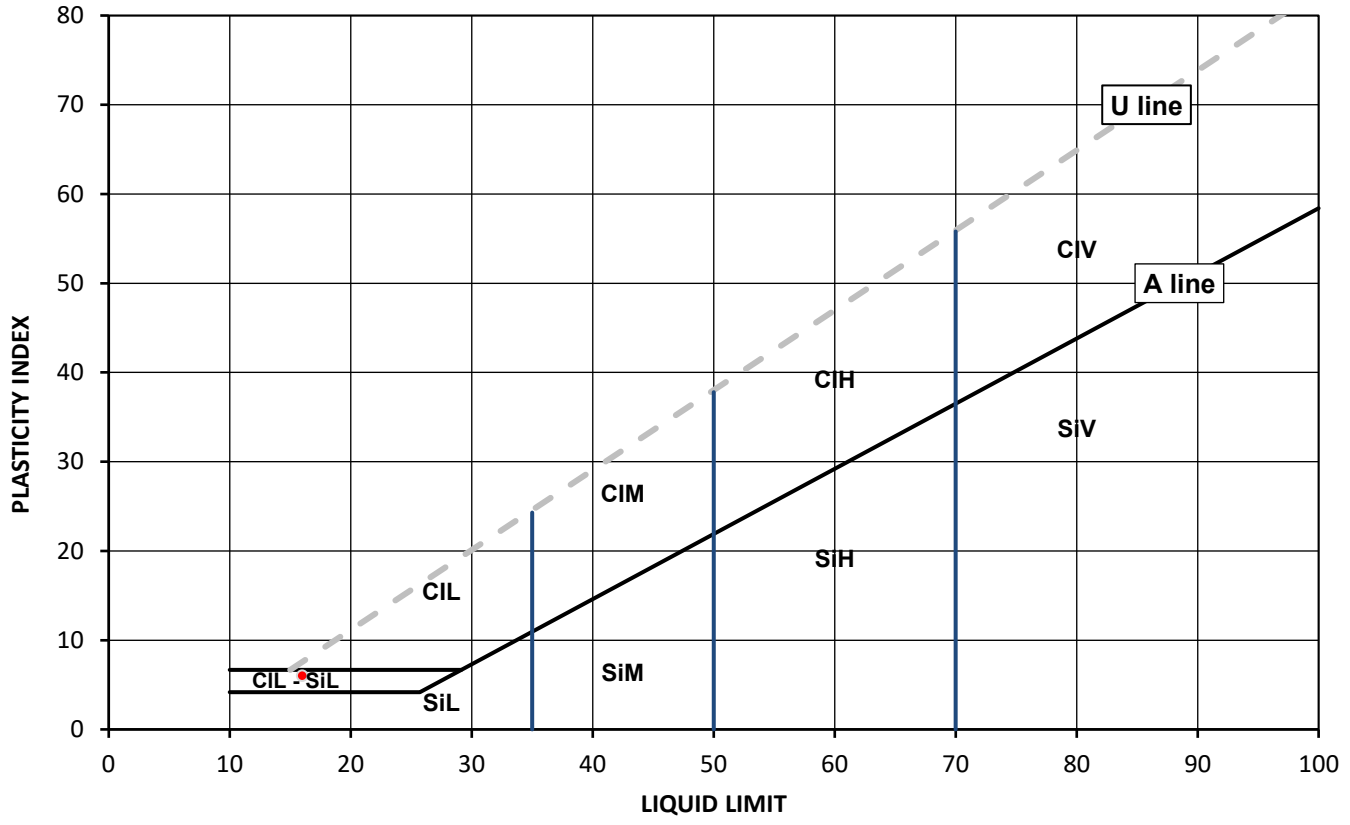
Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572861	Depth Top [m]:	1.70
Hole No.:	DS10	Depth Base [m]:	1.80
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brownish grey slightly gravelly CLAY and SILT		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
15.6	16	10	6	1.00	0.00	97



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 337.14

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House, Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022. Particle Density by gas jar BS 1377-2:2022.

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 23/04 - 29/04/2025
Date Received: 16/05/2025
Date Tested: 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
570763	DS07	Not Given	1.20	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	21.6	97	36	-	15	21	80g/30 deg	R / I			
570764	DS08	Not Given	2.00	4.00	B	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	17.8	99	27	-	12	15	80g/30 deg	R / I			
570765	DS02	Not Given	1.20	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	12.5	95	26	-	14	12	80g/30 deg	R / I			
570766	DS05	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	18.5	97	33	-	16	17	80g/30 deg	R / I			
570767	DS01	Not Given	1.50	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	17.1	98	30	-	14	16	80g/30 deg	R / I			
572851	TP40 3	Not Given	0.70	Not Given	D	Reddish brown slightly gravelly sandy CLAY		12.2										
570770	TP10	Not Given	2.00	2.10	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	15.4	96	26	-	14	12	80g/30 deg	R / I			
570774	TP14	Not Given	0.70	0.90	B	Dark grey slightly gravelly slightly sandy silty CLAY	Atterberg 4 Point	33.0	94	47	-	24	23	80g/30 deg	WR / I			
570775	TP15	Not Given	0.50	0.60	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 4 Point	16.7	90	32	-	13	19	80g/30 deg	R / I			
570780	TP24	Not Given	0.50	0.60	B	Brown slightly gravelly slightly sandy silty CLAY	Atterberg 4 Point	18.3	96	41	-	16	25	80g/30 deg	R / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025 **GF 362.16**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House, Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022. Particle Density by gas jar BS 1377-2:2022.

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 29/04 - 30/04/2025
Date Received: 16/05/2025
Date Tested: 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
570782	TP25	Not Given	1.20	1.30	B	Reddish brown slightly gravelly clayey SAND		7.6										
572849	TP41 3	Not Given	1.30	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	22.4	96	43	-	17	26	80g/30 deg	R / I			
570784	TP20	Not Given	1.50	1.60	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	15.6	95	26	-	13	13	80g/30 deg	R / I			
570787	TP23	Not Given	0.60	0.70	B	Reddish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	13.1	93	30	-	14	16	80g/30 deg	WR / I			
570788	TP22	Not Given	0.50	0.60	B	Brown clayey SAND		8.5										2.66
570790	TP08	Not Given	2.10	2.20	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	14.4	93	28	-	13	15	80g/30 deg	R / I			
570791	TP08	Not Given	3.30	3.40	B	Dark brown gravelly CLAY												2.80
570794	TP06	Not Given	0.70	0.80	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	14.6	97	29	-	12	17	80g/30 deg	R / I			
570795	TP02	Not Given	0.60	0.70	B	Brown slightly gravelly slightly sandy silty CLAY	Atterberg 4 Point	14.2	85	34	-	17	17	80g/30 deg	WR / I			
570796	TP02	Not Given	1.90	2.00	D	Brown slightly gravelly very clayey SAND												2.65

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025 **GF 362.16**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House, Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022. Particle Density by gas jar BS 1377-2:2022.

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 30/04 - 02/05/2025
Date Received: 16/05/2025
Date Tested: 17/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
570798	TP03	Not Given	2.20	2.30	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	17.0	92	31	-	14	17	80g/30 deg	R / I			
570799	TP03	Not Given	3.10	3.20	B	Brown slightly clayey SAND												2.69
570801	TP01	Not Given	0.50	0.60	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 4 Point	17.6	99	34	-	14	20	80g/30 deg	R / I			
570802	TP04	Not Given	0.90	1.00	B	Dark brown sandy silty CLAY		22.9										
570803	TP04	Not Given	2.40	2.50	B	Dark brown PEAT		129										
570804	TP31	Not Given	0.40	0.60	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	24.8	98	47	-	23	24	80g/30 deg	R / I			
570806	TP32	Not Given	2.00	2.20	B	Orangish brown clayey SAND												2.66
570810	TP37	Not Given	2.00	2.10	D	Brown gravelly SAND		6.9										
570812	TP36	Not Given	0.40	0.50	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 4 Point	21.3	97	40	-	18	22	80g/30 deg	R / I			
570814	DS14	Not Given	1.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	10.9	88	36	-	15	21	80g/30 deg	R / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025 **GF 362.16**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House, Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022. Particle Density by gas jar BS 1377-2:2022.

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 30/04 - 28/05/2025
Date Received: 16/05/2025
Date Tested: 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
570815	DS15	Not Given	0.50	Not Given	D	Brown slightly gravelly clayey SAND	Atterberg 4 Point	8.9	96	24	-	12	12	80g/30 deg	R / I			
570816	DS06	Not Given	3.50	Not Given	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	30.9	97	46	-	22	24	80g/30 deg	R / I			
570817	DS26	Not Given	1.70	Not Given	D	Brown SAND		7.2										
570818	DS27	Not Given	1.90	Not Given	D	Brown SAND		10.5										
570820	RO02	Not Given	4.00	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	8.9	93	27	-	11	16	80g/30 deg	R / I			
572838	TP48 1	Not Given	1.00	Not Given	B	Orangish brown gravelly SAND		9.9										2.64
572839	TP51 1	Not Given	0.30	Not Given	D	Brown slightly gravelly very sandy silty CLAY	Atterberg 4 Point	11.7	88	27	-	19	8	80g/30 deg	WR / I			
572861	DS10	Not Given	1.70	1.80	B	Light brownish grey slightly gravelly CLAY and SILT	Atterberg 4 Point	15.6	97	16	-	10	6	80g/30 deg	R / I			
572842	TP71 1	Not Given	0.50	Not Given	B	Brown slightly gravelly sandy silty CLAY	Atterberg 4 Point	11.1	95	21	-	11	10	80g/30 deg	R / I			
572843	TP71 3	Not Given	1.80	Not Given	B	Brown slightly gravelly SAND												2.64

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025 **GF 362.16**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House, Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022. Particle Density by gas jar BS 1377-2:2022.

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 30/04/2025
Date Received: 16/05/2025
Date Tested: 18/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
572859	TP44 1	Not Given	0.70	Not Given	B	Brown slightly clayey SAND												2.66
570768	TP17	Not Given	1.40	1.50	B	Brown clayey SAND												2.66

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025 **GF 362.16**

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House,
Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 23/04 - 29/04/2025
Date Received: 16/05/2025
Date Tested: 17/06 - 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
570763	DS07	Not Given	1.20	Not Given	D	Brown slightly gravelly sandy CLAY		21.6											
570764	DS08	Not Given	2.00	4.00	B	Brown slightly gravelly very sandy CLAY		17.8											
570765	DS02	Not Given	1.20	Not Given	D	Brown slightly gravelly very sandy CLAY		12.5											
570766	DS05	Not Given	3.00	Not Given	D	Brown slightly gravelly very sandy CLAY		18.5											
570767	DS01	Not Given	1.50	Not Given	D	Brown slightly gravelly very sandy CLAY		17.1											
570770	TP10	Not Given	2.00	2.10	D	Brown slightly gravelly very sandy CLAY		15.4											
572839	TP51 1	Not Given	0.30	Not Given	D	Brown slightly gravelly very sandy silty CLAY		11.7											
570775	TP15	Not Given	0.50	0.60	D	Brownish grey slightly gravelly very sandy CLAY		16.7											
572861	DS10	Not Given	1.70	1.80	B	Light brownish grey slightly gravelly CLAY and SILT		15.6											
570782	TP25	Not Given	1.20	1.30	B	Reddish brown slightly gravelly clayey SAND		7.6											

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 126.19

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House,
Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 29/04 - 01/05/2025
Date Received: 16/05/2025
Date Tested: 17/06 - 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
570784	TP20	Not Given	1.50	1.60	D	Brown slightly gravelly very sandy CLAY		15.6											
570787	TP23	Not Given	0.60	0.70	B	Reddish brown slightly gravelly very sandy CLAY		13.1											
570788	TP22	Not Given	0.50	0.60	B	Brown clayey SAND		8.5											
570790	TP08	Not Given	2.10	2.20	D	Brown slightly gravelly very sandy CLAY		14.4											
570794	TP06	Not Given	0.70	0.80	D	Brown slightly gravelly very sandy CLAY		14.6											
572849	TP41 3	Not Given	1.30	Not Given	D	Brown slightly gravelly sandy CLAY		22.4											
570798	TP03	Not Given	2.20	2.30	D	Brown slightly gravelly very sandy CLAY		17.0											
570801	TP01	Not Given	0.50	0.60	D	Brownish grey slightly gravelly very sandy CLAY		17.6											
572851	TP40 3	Not Given	0.70	Not Given	D	Reddish brown slightly gravelly sandy CLAY		12.2											
570803	TP04	Not Given	2.40	2.50	B	Dark brown PEAT		129											

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 126.19

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House,
Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 30/04 - 28/05/2025
Date Received: 16/05/2025
Date Tested: 17/06 - 19/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
570804	TP31	Not Given	0.40	0.60	D	Brown slightly gravelly slightly sandy CLAY		24.8											
570810	TP37	Not Given	2.00	2.10	D	Brown gravelly SAND		6.9											
570812	TP36	Not Given	0.40	0.50	D	Brownish grey slightly gravelly sandy CLAY		21.3											
570814	DS14	Not Given	1.00	Not Given	D	Brown slightly gravelly sandy CLAY		10.9											
570815	DS15	Not Given	0.50	Not Given	D	Brown slightly gravelly clayey SAND		8.9											
570816	DS06	Not Given	3.50	Not Given	D	Brown slightly gravelly slightly sandy CLAY		30.9											
570817	DS26	Not Given	1.70	Not Given	D	Brown SAND		7.2											
570818	DS27	Not Given	1.90	Not Given	D	Brown SAND		10.5											
570820	RO02	Not Given	4.00	Not Given	D	Brown slightly gravelly very sandy CLAY		8.9											
572838	TP48 1	Not Given	1.00	Not Given	B	Orangish brown gravelly SAND		9.9											

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 126.19

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House,
Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 30/04/2025
Date Received: 16/05/2025
Date Tested: 18/06 - 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
572842	TP71 1	Not Given	0.50	Not Given	B	Brown slightly gravelly sandy silty CLAY	Atterberg 4 Point	11.1											

Comments: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

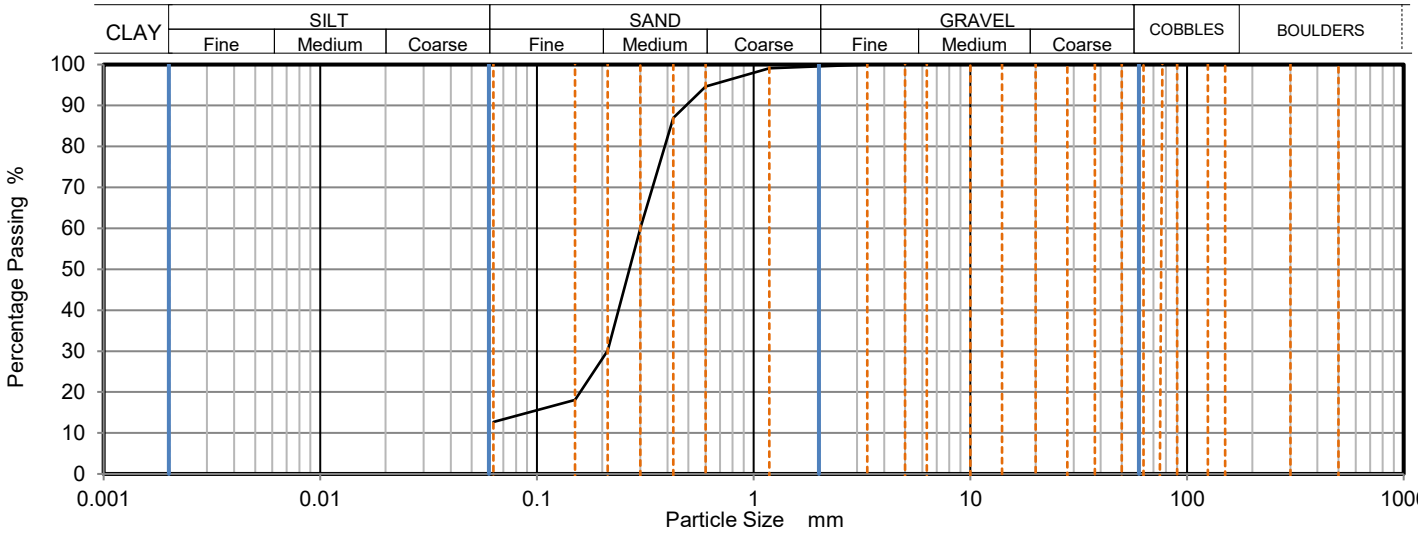
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570768	Depth Top [m]:	1.40
Hole No.:	TP17	Depth Base [m]:	1.50
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	99		
0.6	95		
0.425	87		
0.3	60		
0.212	30		
0.15	18		
0.063	13		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	87
Fines <0.063 mm	13

Grading Analysis		
D100	mm	3.35
D60	mm	0.3
D30	mm	0.212
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

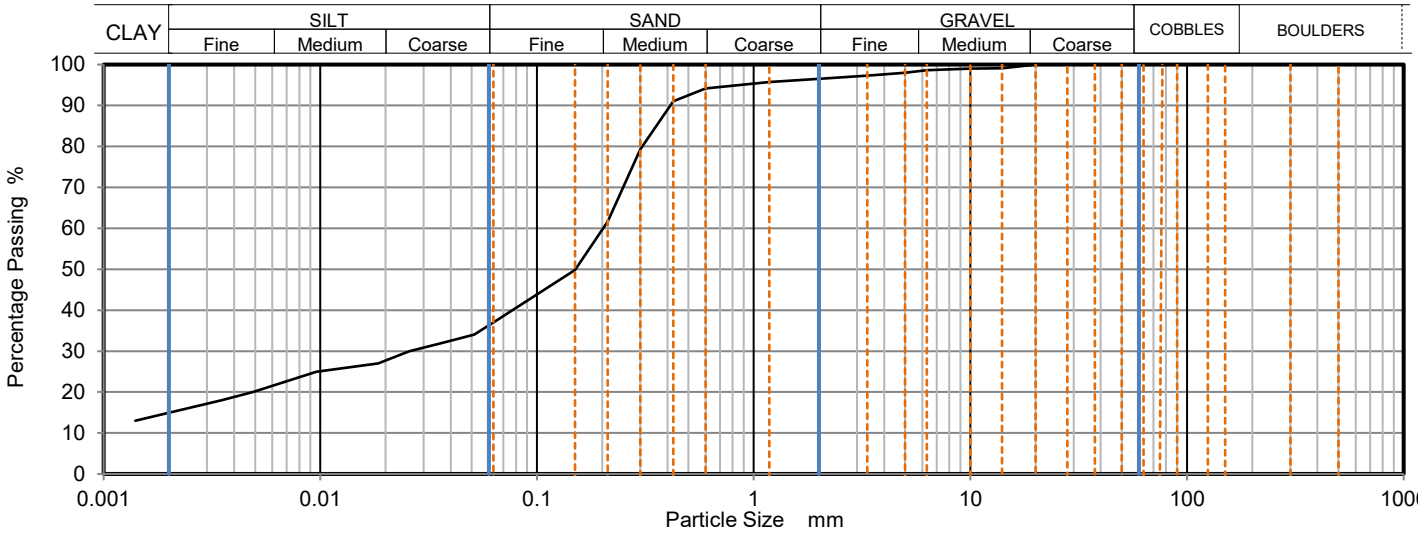
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570771	Depth Top [m]:	1.90
Hole No.:	TP12	Depth Base [m]:	2.10
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0513	34
300	100	0.0365	32
150	100	0.0257	30
125	100	0.0185	27
90	100	0.0096	25
75	100	0.0049	20
63	100	0.0035	18
50	100	0.0014	13
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	99		
5	98		
3.35	97		
2	97		
1.18	96		
0.6	94	Particle density	(assumed)
0.425	91	2.65	Mg/m3
0.3	79		
0.212	62		
0.15	50		
0.063	37		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	60
Silt	22
Clay	15

Grading Analysis		
D100	mm	20
D60	mm	0.203
D30	mm	0.025
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

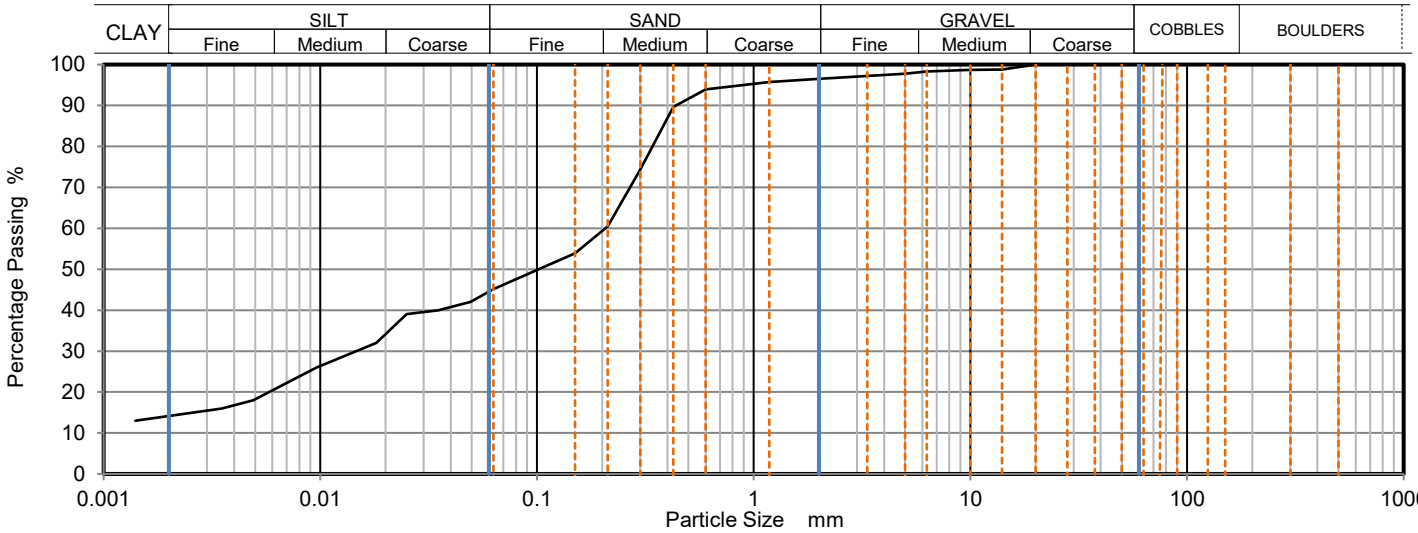
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570772	Depth Top [m]:	0.80
Hole No.:	TP11	Depth Base [m]:	0.90
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown slightly gravelly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0493	42
300	100	0.0351	40
150	100	0.0250	39
125	100	0.0181	32
90	100	0.0096	26
75	100	0.0049	18
63	100	0.0035	16
50	100	0.0014	13
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	98		
5	98		
3.35	97		
2	97		
1.18	96		
0.6	94	Particle density	(assumed)
0.425	90	2.65	Mg/m3
0.3	74		
0.212	61		
0.15	54		
0.063	45		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	51
Silt	31
Clay	14

Grading Analysis		
D100	mm	20
D60	mm	0.206
D30	mm	0.0146
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

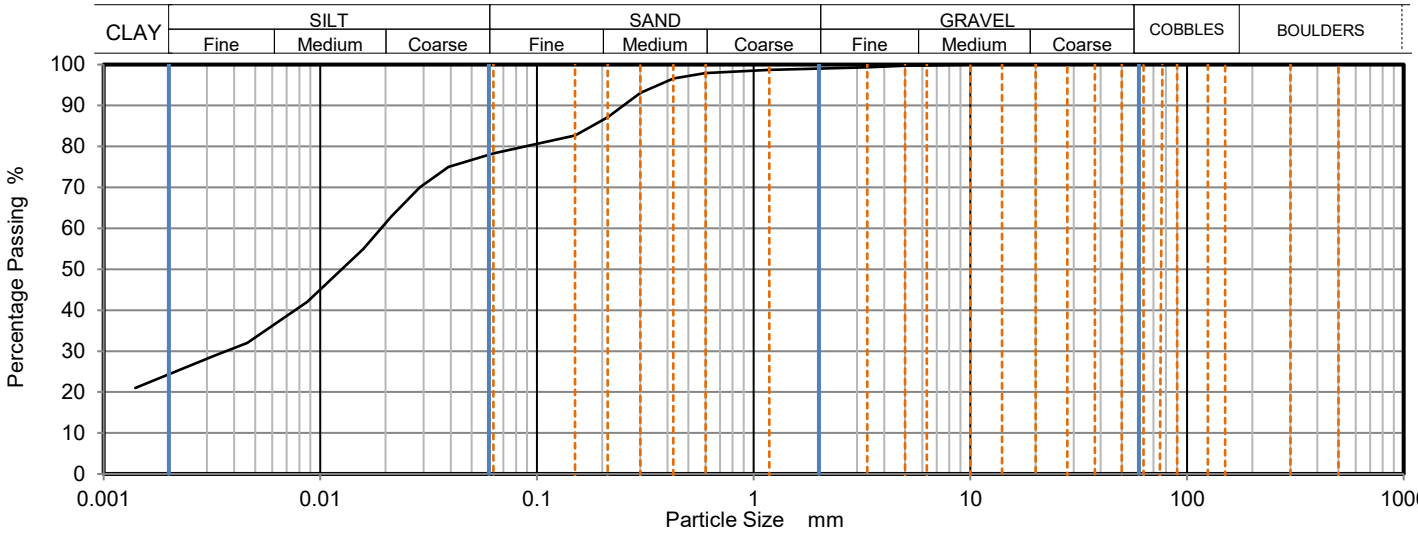
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570773	Depth Top [m]:	0.60
Hole No.:	TP13	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0391	75
300	100	0.0288	70
150	100	0.0213	63
125	100	0.0158	55
90	100	0.0087	42
75	100	0.0046	32
63	100	0.0033	29
50	100	0.0014	21
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99		
2	99		
1.18	99		
0.6	98	Particle density	(assumed)
0.425	97	2.65	Mg/m3
0.3	93		
0.212	87		
0.15	83		
0.063	78		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	21
Silt	54
Clay	24

Grading Analysis		
D100	mm	10
D60	mm	0.0192
D30	mm	0.00356
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

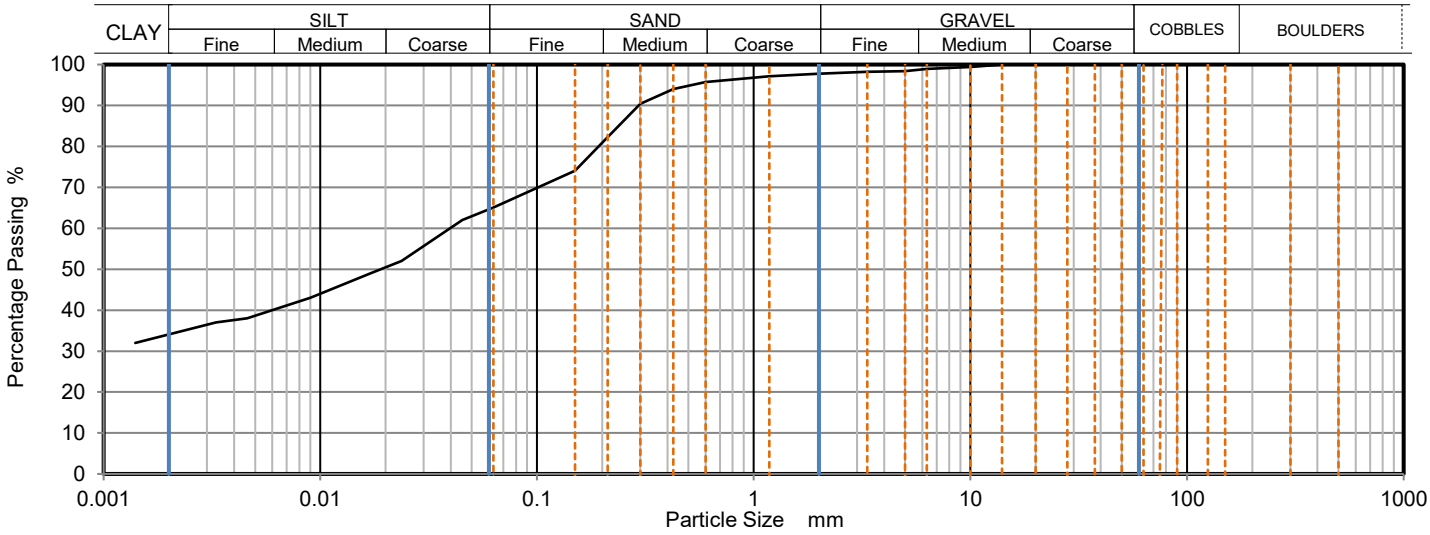
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570774	Depth Top [m]:	0.70
Hole No.:	TP14	Depth Base [m]:	0.90
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Dark grey slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0453	62
300	100	0.0328	57
150	100	0.0237	52
125	100	0.0170	49
90	100	0.0090	43
75	100	0.0046	38
63	100	0.0033	37
50	100	0.0014	32
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	99		
5	98		
3.35	98		
2	98		
1.18	97		
0.6	96	Particle density	(assumed)
0.425	94	2.65	Mg/m3
0.3	90		
0.212	82		
0.15	74		
0.063	65		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	33
Silt	31
Clay	34

Grading Analysis		
D100	mm	14
D60	mm	0.0398
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

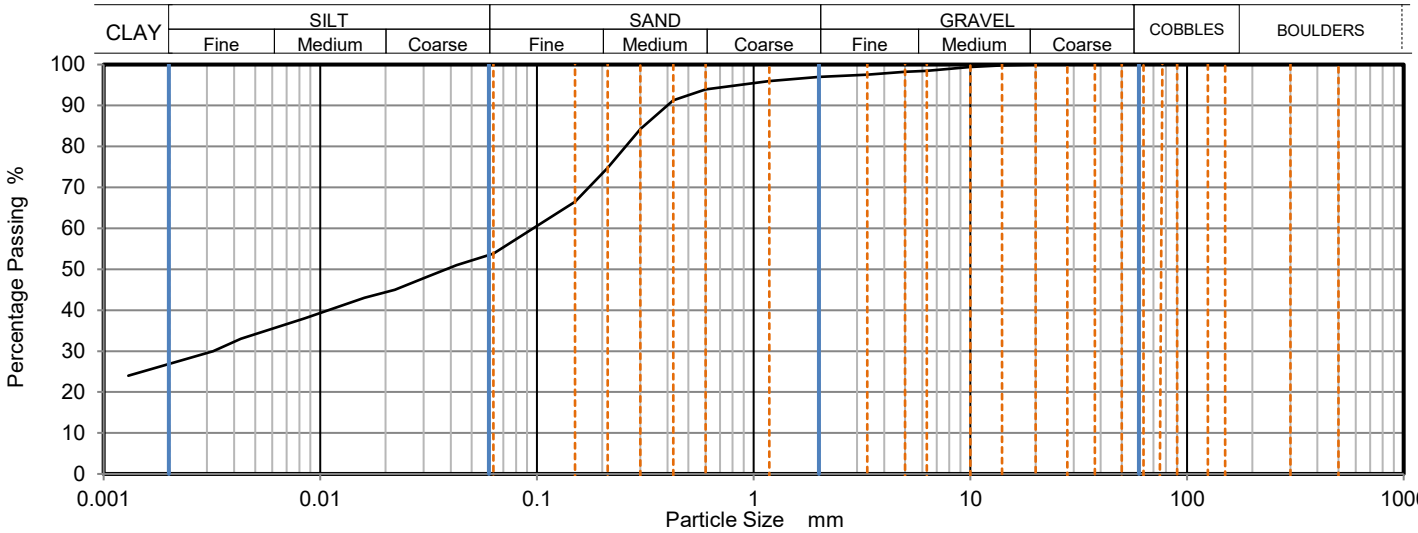
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570776	Depth Top [m]:	1.00
Hole No.:	TP15	Depth Base [m]:	1.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 108.9 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0426	51
300	100	0.0307	48
150	100	0.0221	45
125	100	0.0160	43
90	100	0.0085	38
75	100	0.0043	33
63	100	0.0032	30
50	100	0.0013	24
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	99		
5	98		
3.35	98		
2	97		
1.18	96		
0.6	94	Particle density	(assumed)
0.425	91	2.65	Mg/m3
0.3	84		
0.212	75		
0.15	67		
0.063	54		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	43
Silt	27
Clay	27

Grading Analysis		
D100	mm	20
D60	mm	0.0964
D30	mm	0.0033
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

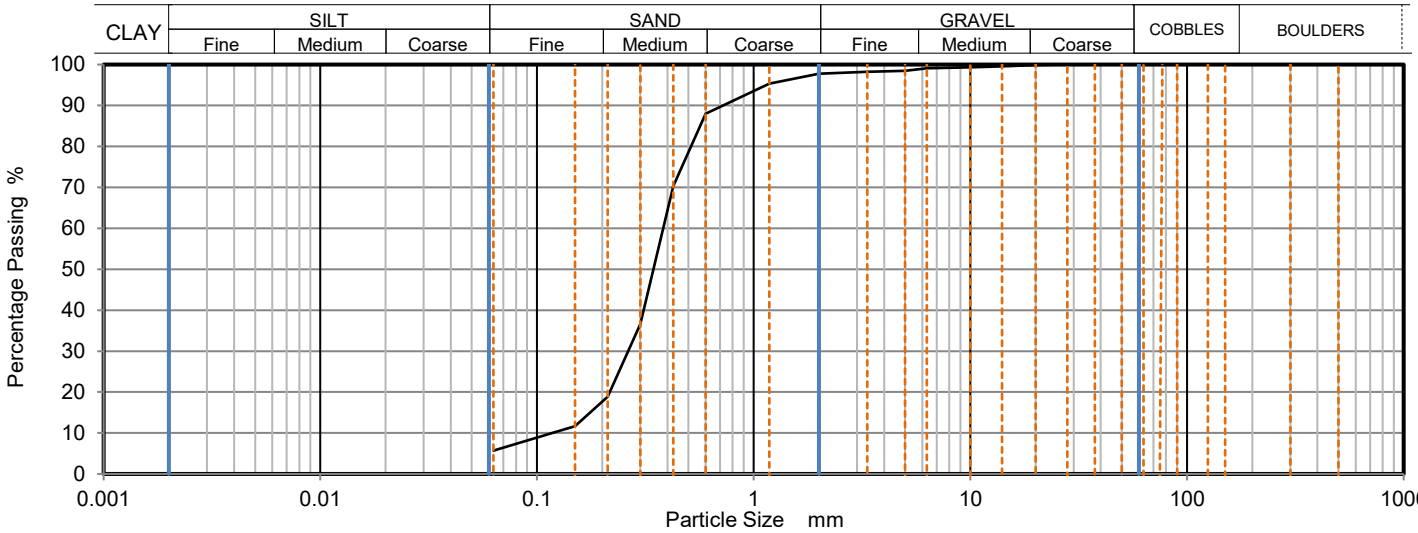
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570777	Depth Top [m]:	1.00
Hole No.:	TP19	Depth Base [m]:	1.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown slightly gravelly clayey SAND		
Sample Preparation:	Sample was whole tested, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	99		
5	99		
3.35	98		
2	98		
1.18	95		
0.6	88		
0.425	70		
0.3	37		
0.212	19		
0.15	12		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	92
Fines <0.063 mm	6

Grading Analysis		
D100	mm	28
D60	mm	0.382
D30	mm	0.264
D10	mm	0.117
Uniformity Coefficient		3.3
Curvature Coefficient		1.6

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

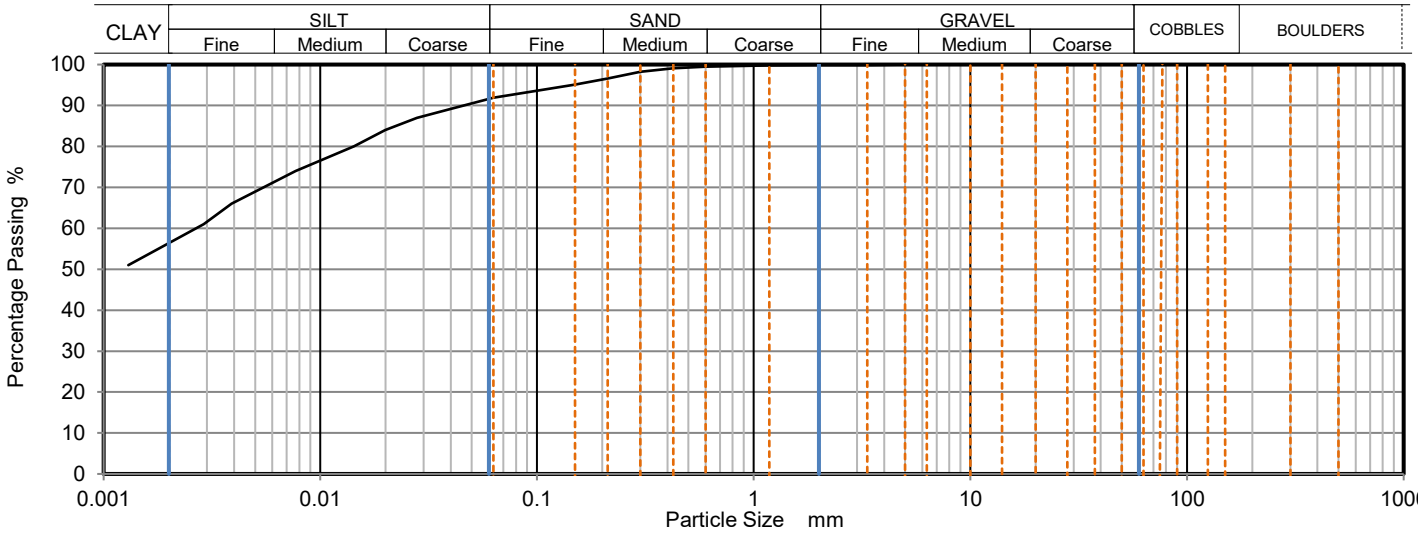
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570778	Depth Top [m]:	0.50
Hole No.:	TP26	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0390	89
300	100	0.0279	87
150	100	0.0199	84
125	100	0.0143	80
90	100	0.0077	74
75	100	0.0039	66
63	100	0.0029	61
50	100	0.0013	51
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100	Particle density	(assumed)
0.425	99	2.65	Mg/m3
0.3	98		
0.212	97		
0.15	95		
0.063	92		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	8
Silt	36
Clay	56

Grading Analysis		
D100	mm	5
D60	mm	0.00274
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

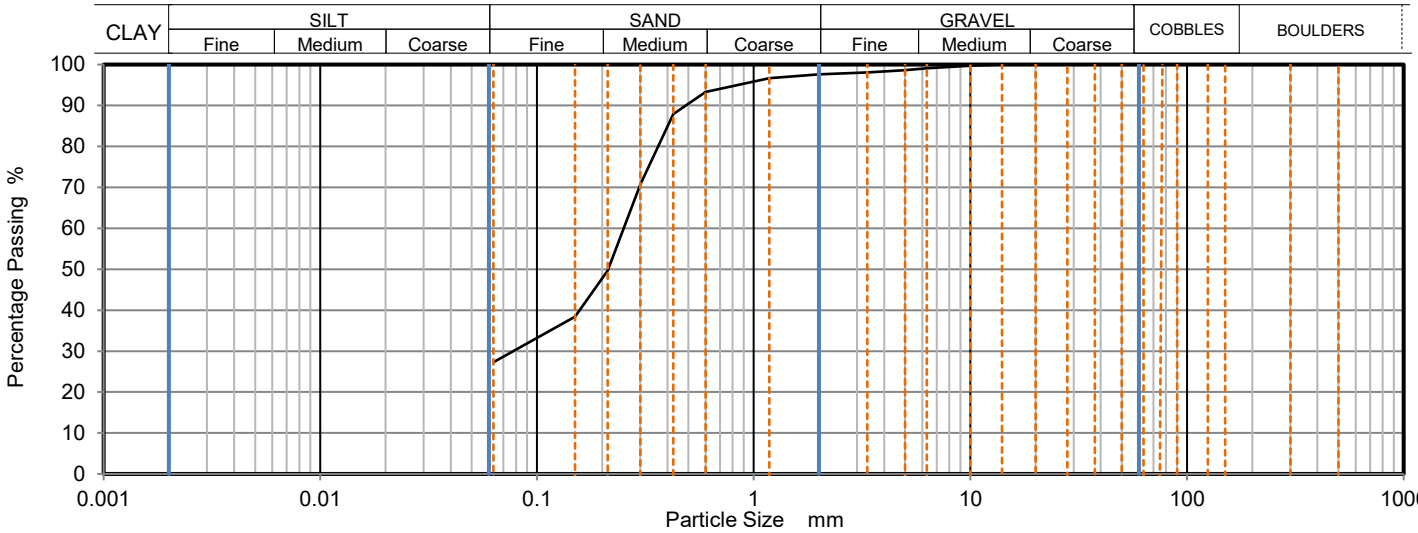
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570779	Depth Top [m]:	1.20
Hole No.:	TP26	Depth Base [m]:	1.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	98		
2	98		
1.18	97		
0.6	93		
0.425	88		
0.3	71		
0.212	50		
0.15	38		
0.063	27		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	71
Fines <0.063 mm	27

Grading Analysis		
D100	mm	14
D60	mm	0.251
D30	mm	0.0777
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

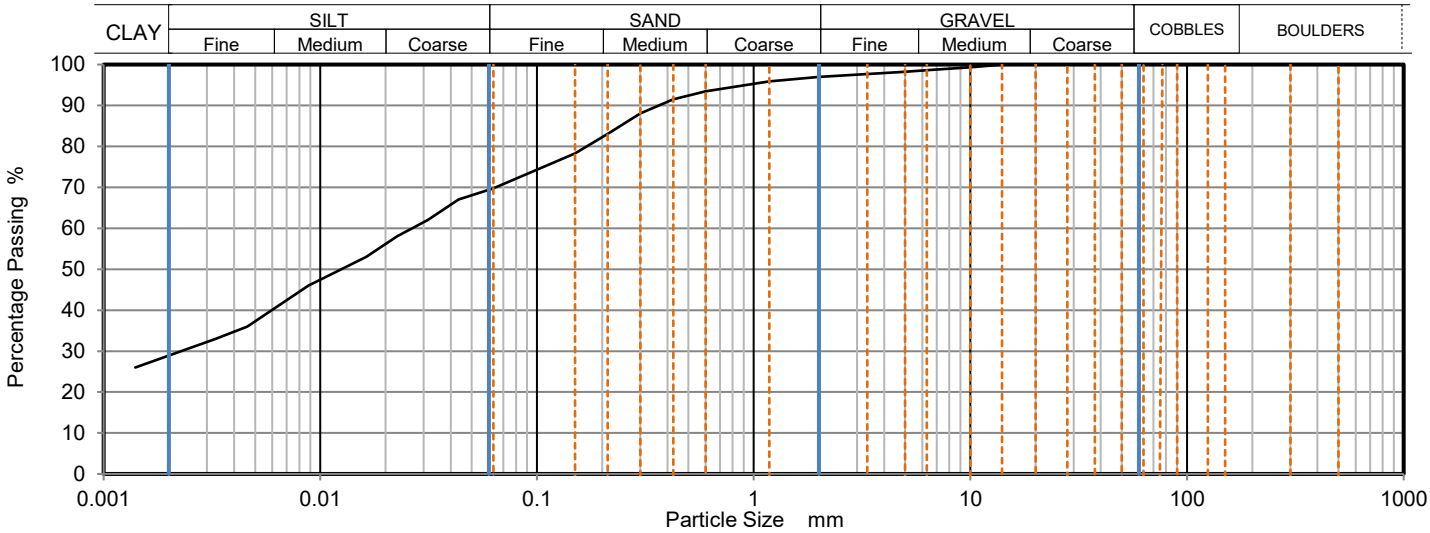
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570780	Depth Top [m]:	0.50
Hole No.:	TP24	Depth Base [m]:	0.60
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0434	67
300	100	0.0313	62
150	100	0.0226	58
125	100	0.0163	53
90	100	0.0088	46
75	100	0.0046	36
63	100	0.0033	33
50	100	0.0014	26
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	99		
5	98		
3.35	98		
2	97		
1.18	96		
0.6	94	Particle density	(assumed)
0.425	92	2.65	Mg/m3
0.3	88		
0.212	83		
0.15	78		
0.063	70		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	27
Silt	41
Clay	29

Grading Analysis		
D100	mm	14
D60	mm	0.0267
D30	mm	0.00225
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

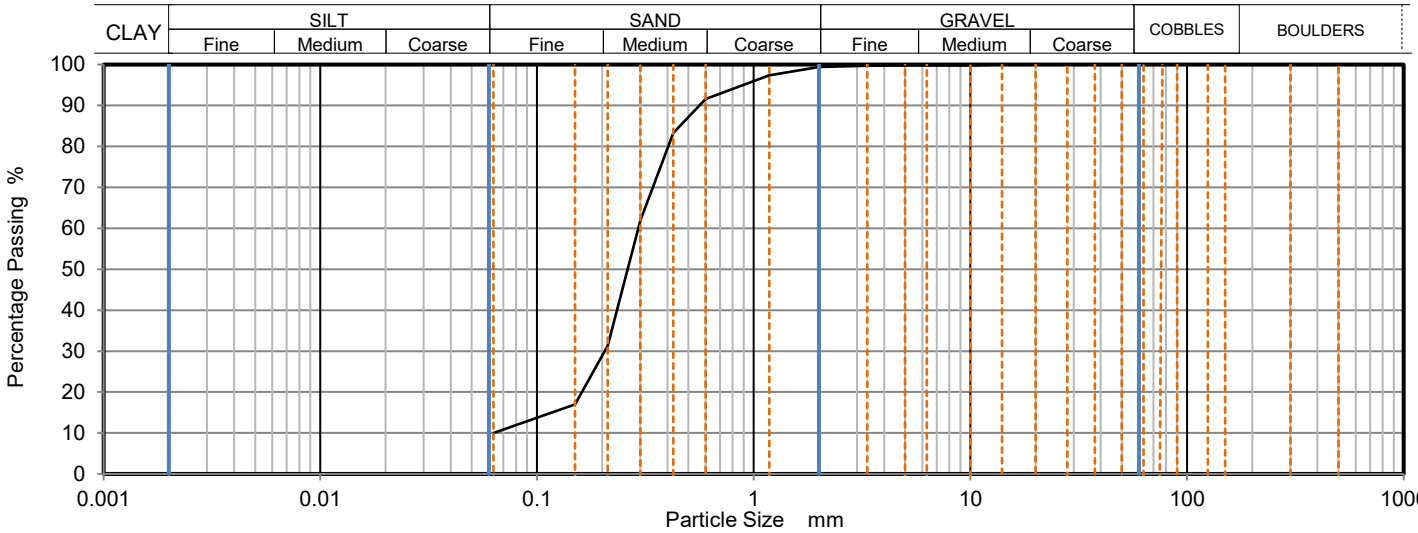
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570781	Depth Top [m]:	0.80
Hole No.:	TP27	Depth Base [m]:	0.90
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	97		
0.6	92		
0.425	83		
0.3	62		
0.212	31		
0.15	17		
0.063	10		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	89
Fines <0.063 mm	10

Grading Analysis		
D100	mm	14
D60	mm	0.294
D30	mm	0.205
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

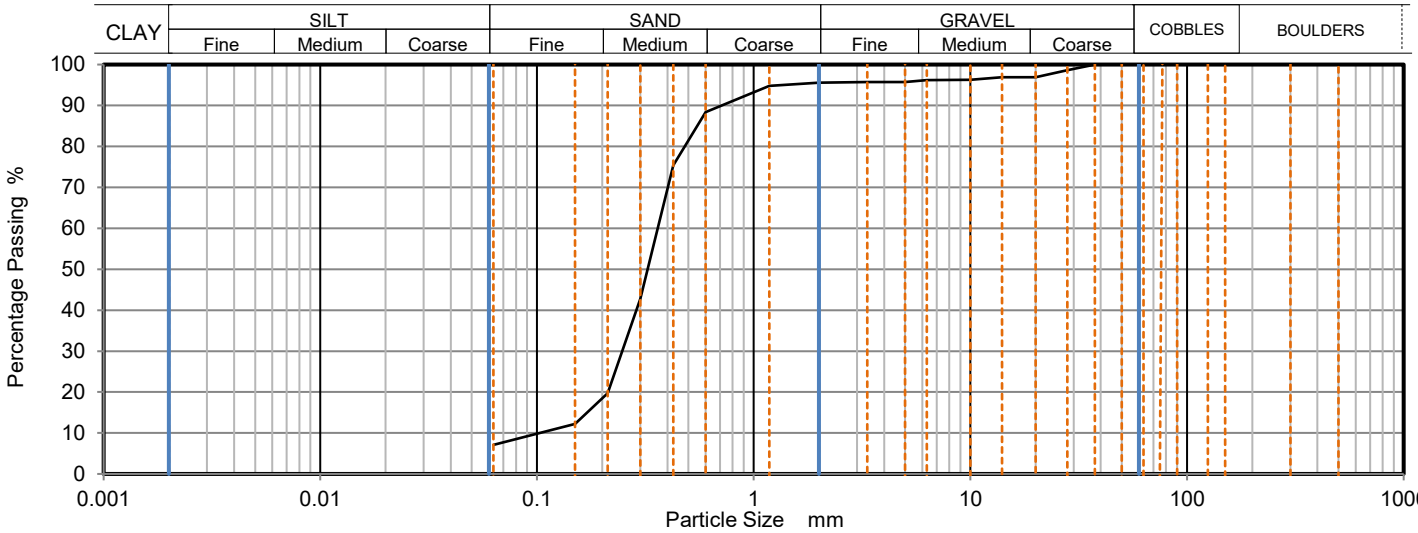
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570782	Depth Top [m]:	1.20
Hole No.:	TP25	Depth Base [m]:	1.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown slightly gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	99		
20	97		
14	97		
10	96		
6.3	96		
5	96		
3.35	96		
2	96		
1.18	95		
0.6	88		
0.425	75		
0.3	43		
0.212	20		
0.15	12		
0.063	7		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	89
Fines <0.063 mm	7

Grading Analysis		
D100	mm	37.5
D60	mm	0.361
D30	mm	0.248
D10	mm	0.104
Uniformity Coefficient		3.5
Curvature Coefficient		1.6

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

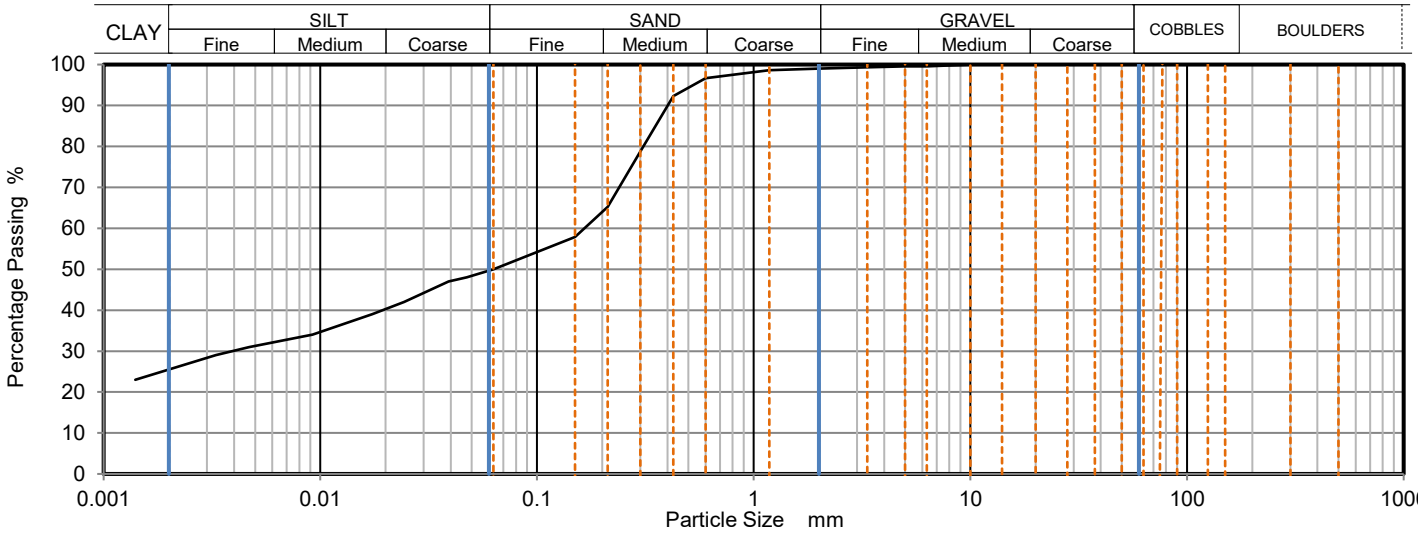
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570783	Depth Top [m]:	0.50
Hole No.:	TP20	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0475	48
300	100	0.0391	47
150	100	0.0244	42
125	100	0.0174	39
90	100	0.0092	34
75	100	0.0047	31
63	100	0.0033	29
50	100	0.0014	23
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99		
2	99		
1.18	99		
0.6	97	Particle density	(measured)
0.425	92	2.72	Mg/m3
0.3	79		
0.212	65		
0.15	58		
0.063	50		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	49
Silt	25
Clay	25

Grading Analysis		
D100	mm	10
D60	mm	0.166
D30	mm	0.00408
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

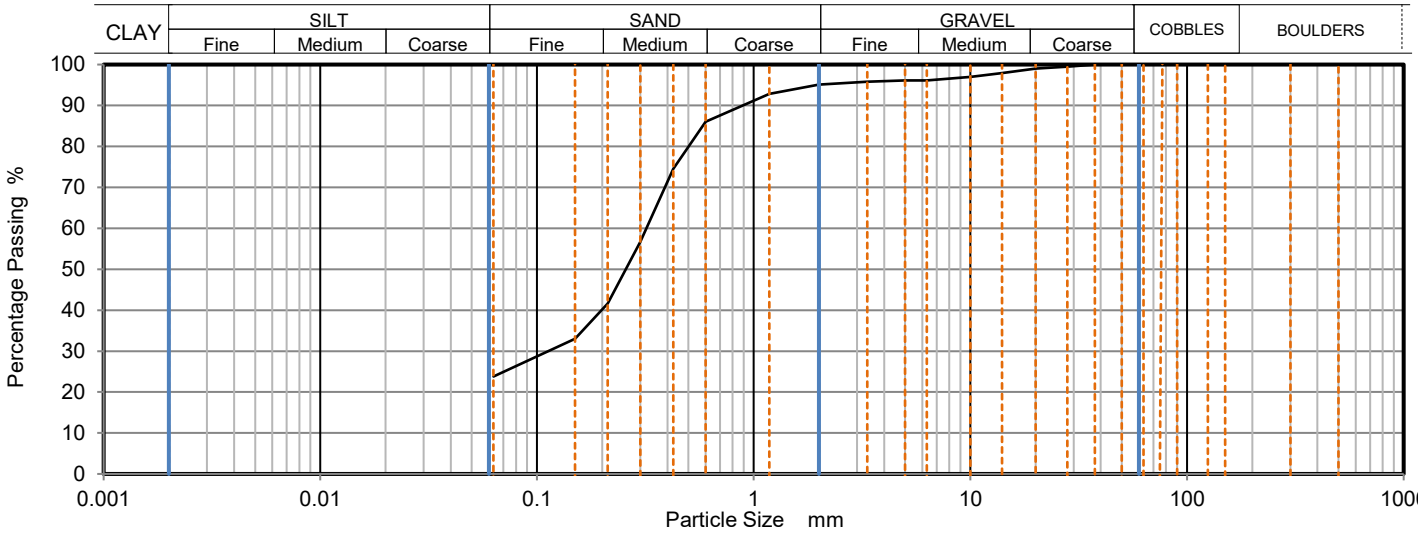
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570785	Depth Top [m]:	2.60
Hole No.:	TP20	Depth Base [m]:	2.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown gravelly very clayey SAND		
Sample Preparation:	Sample was whole tested, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	98		
10	97		
6.3	96		
5	96		
3.35	96		
2	95		
1.18	93		
0.6	86		
0.425	75		
0.3	57		
0.212	42		
0.15	33		
0.063	24		

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	71
Fines <0.063 mm	24

Grading Analysis		
D100	mm	37.5
D60	mm	0.32
D30	mm	0.113
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

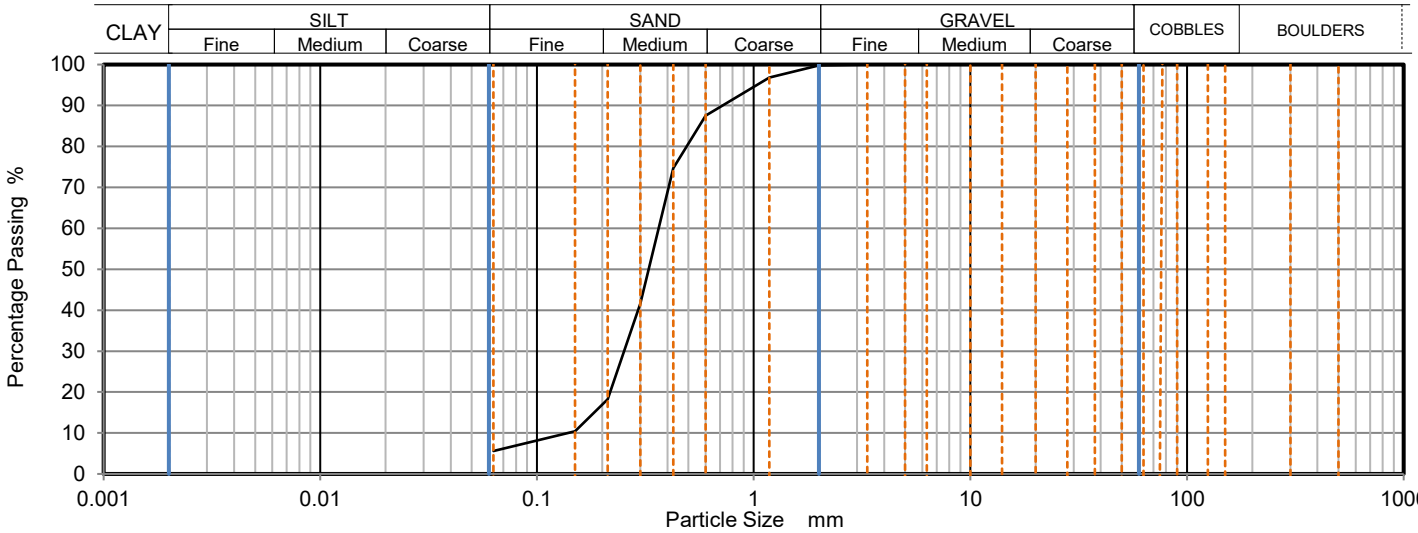
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570786	Depth Top [m]:	0.70
Hole No.:	TP16	Depth Base [m]:	0.90
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	97		
0.6	88		
0.425	75		
0.3	42		
0.212	18		
0.15	10		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	94
Fines <0.063 mm	6

Grading Analysis		
D100	mm	3.35
D60	mm	0.364
D30	mm	0.252
D10	mm	0.14
Uniformity Coefficient		2.6
Curvature Coefficient		1.3

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

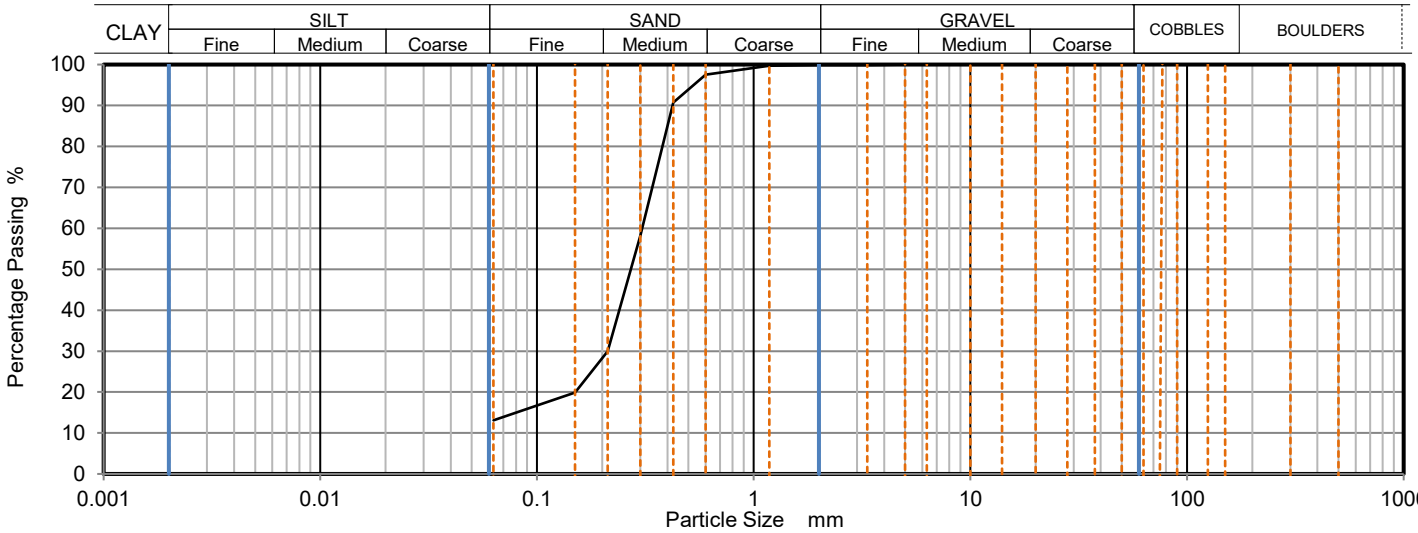
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570788	Depth Top [m]:	0.50
Hole No.:	TP22	Depth Base [m]:	0.60
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	98		
0.425	91		
0.3	58		
0.212	30		
0.15	20		
0.063	13		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	87
Fines <0.063 mm	13

Grading Analysis		
D100	mm	5
D60	mm	0.306
D30	mm	0.212
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

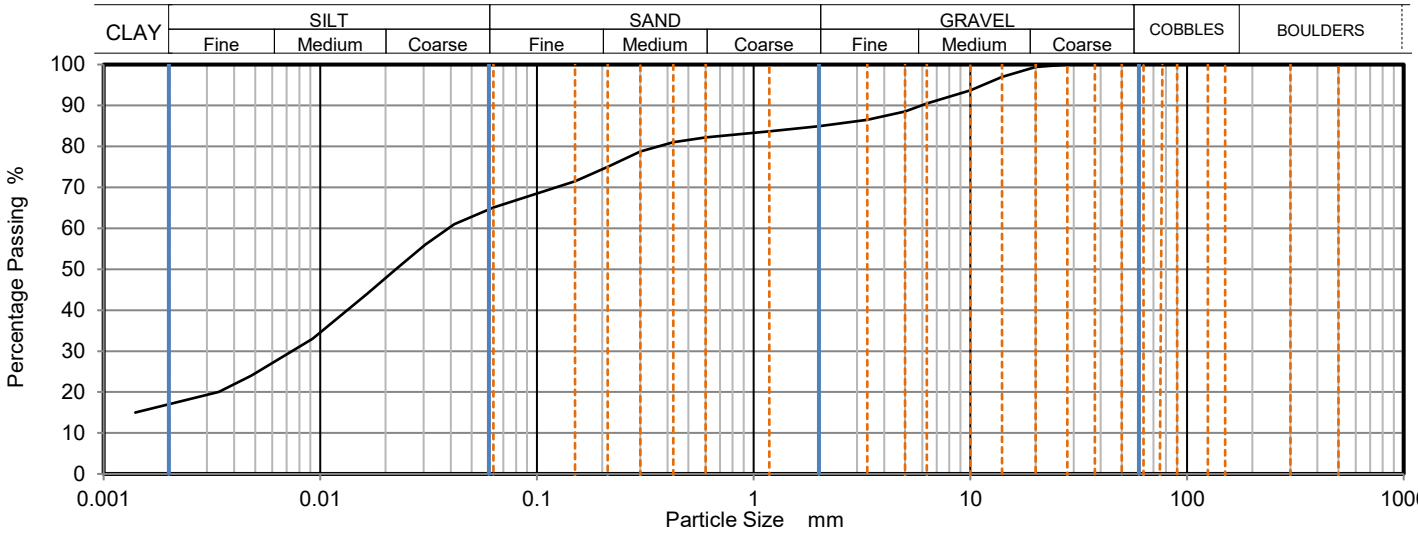
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570795	Depth Top [m]:	0.60
Hole No.:	TP02	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0415	61
300	100	0.0305	56
150	100	0.0223	50
125	100	0.0164	44
90	100	0.0092	33
75	100	0.0048	24
63	100	0.0034	20
50	100	0.0014	15
37.5	100		
28	100		
20	99		
14	97		
10	94		
6.3	91		
5	89		
3.35	87		
2	85		
1.18	84		
0.6	82	Particle density	(assumed)
0.425	81	2.65	Mg/m3
0.3	79		
0.212	75		
0.15	72		
0.063	65		

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	20
Silt	48
Clay	17

Grading Analysis		
D100	mm	28
D60	mm	0.0382
D30	mm	0.00761
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

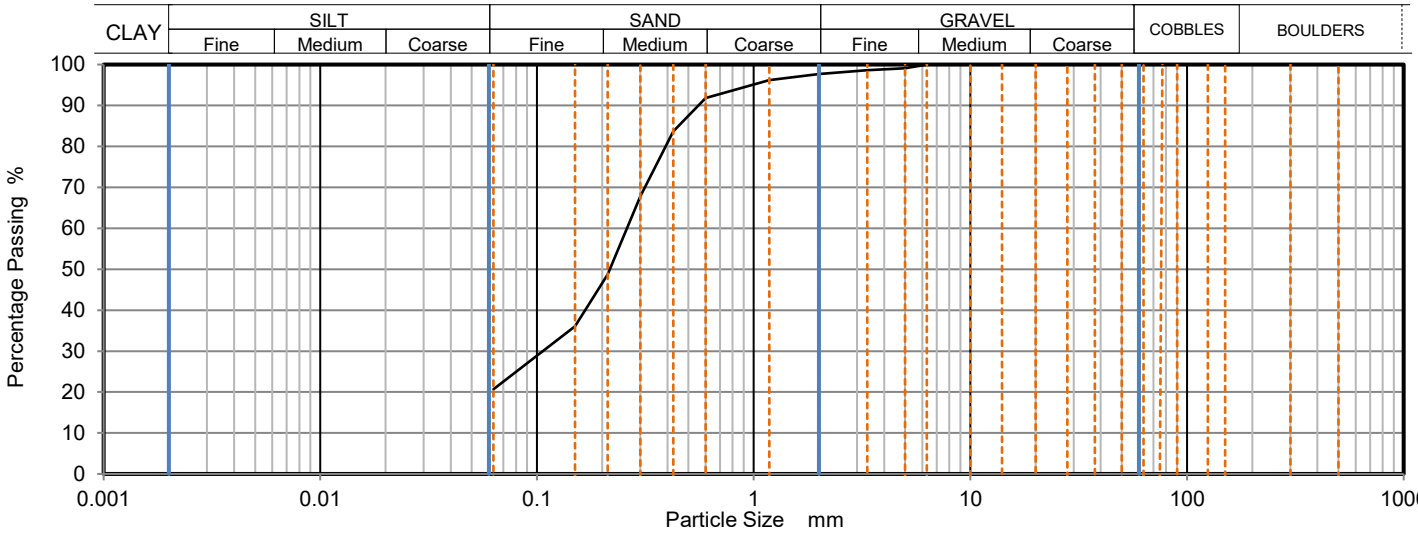
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	17/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570796	Depth Top [m]:	1.90
Hole No.:	TP02	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Brown slightly gravelly very clayey SAND		
Sample Preparation:	Sample was quartered oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99		
2	98		
1.18	96		
0.6	92		
0.425	84		
0.3	68		
0.212	49		
0.15	36		
0.063	21		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	77
Fines <0.063 mm	21

Grading Analysis		
D100	mm	6.3
D60	mm	0.26
D30	mm	0.106
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

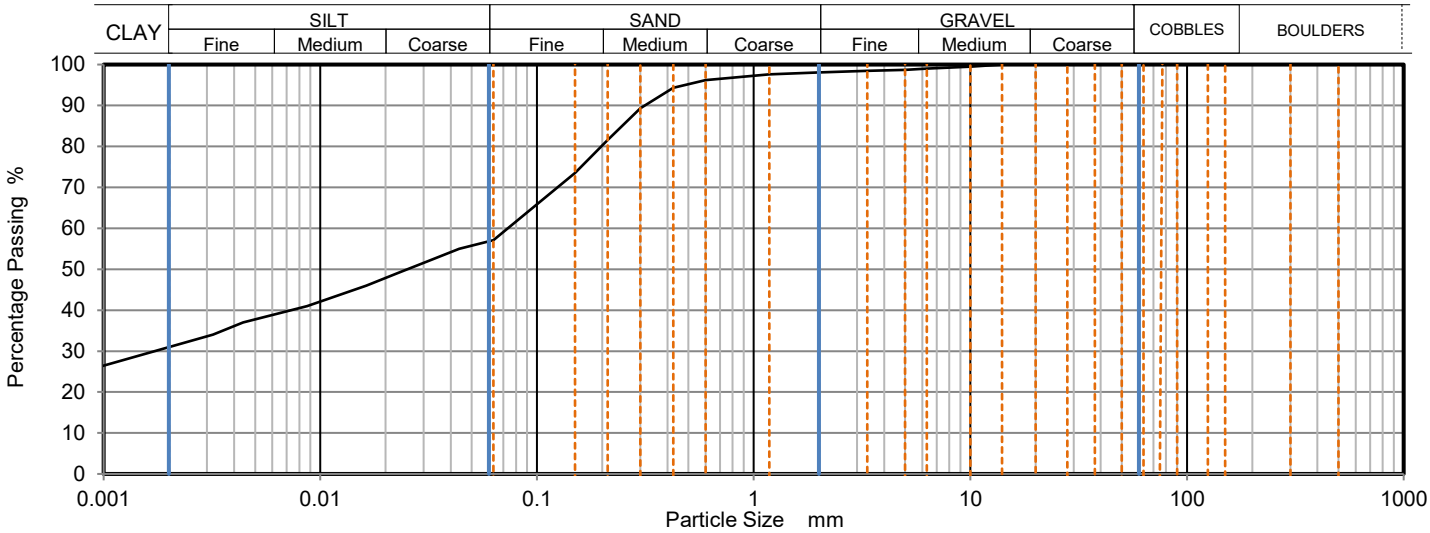
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570797	Depth Top [m]:	0.60
Hole No.:	TP03	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown slightly gravelly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 108.9 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0438	55
300	100	0.0315	52
150	100	0.0225	49
125	100	0.0163	46
90	100	0.0087	41
75	100	0.0044	37
63	100	0.0032	34
50	100	0.0008	25
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	99		
2	98		
1.18	98		
0.6	96	Particle density	(assumed)
0.425	94	2.65	Mg/m3
0.3	89		
0.212	82		
0.15	74		
0.063	57		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	41
Silt	26
Clay	31

Grading Analysis		
D100	mm	14
D60	mm	0.0736
D30	mm	0.00165
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

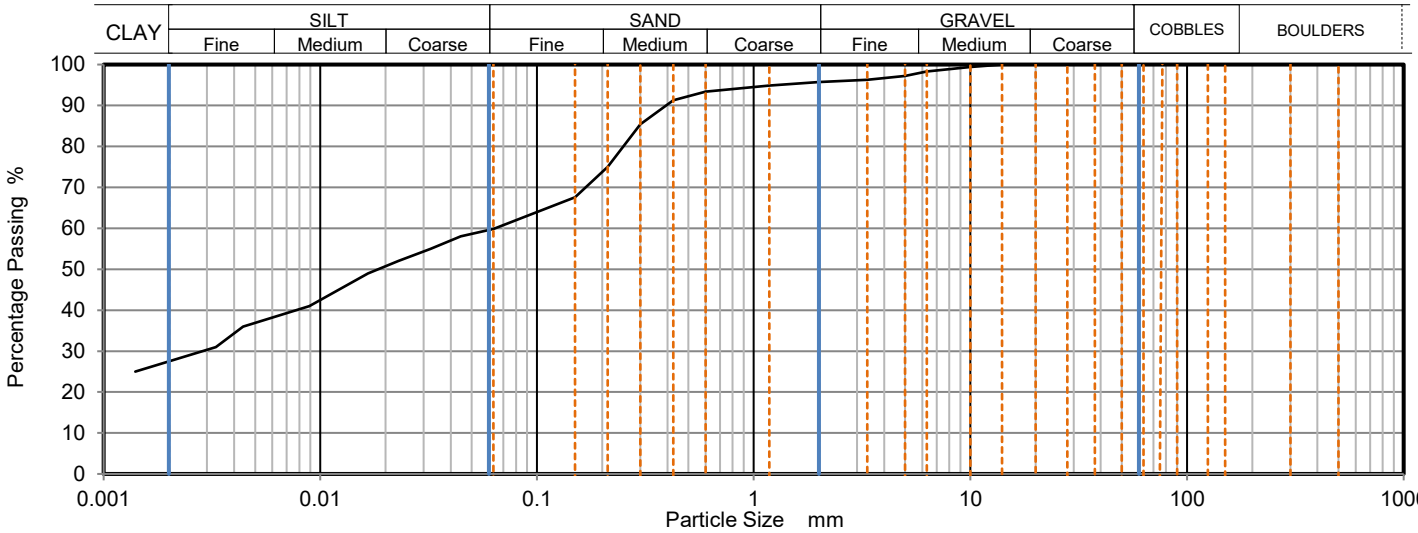
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570800	Depth Top [m]:	1.00
Hole No.:	TP72	Depth Base [m]:	1.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0445	58
300	100	0.0323	55
150	100	0.0229	52
125	100	0.0166	49
90	100	0.0089	41
75	100	0.0044	36
63	100	0.0033	31
50	100	0.0014	25
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	97		
3.35	96		
2	96		
1.18	95		
0.6	93	Particle density	(assumed)
0.425	91	2.65	Mg/m3
0.3	85		
0.212	75		
0.15	68		
0.063	60		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	36
Silt	32
Clay	28

Grading Analysis		
D100	mm	14
D60	mm	0.0644
D30	mm	0.0027
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

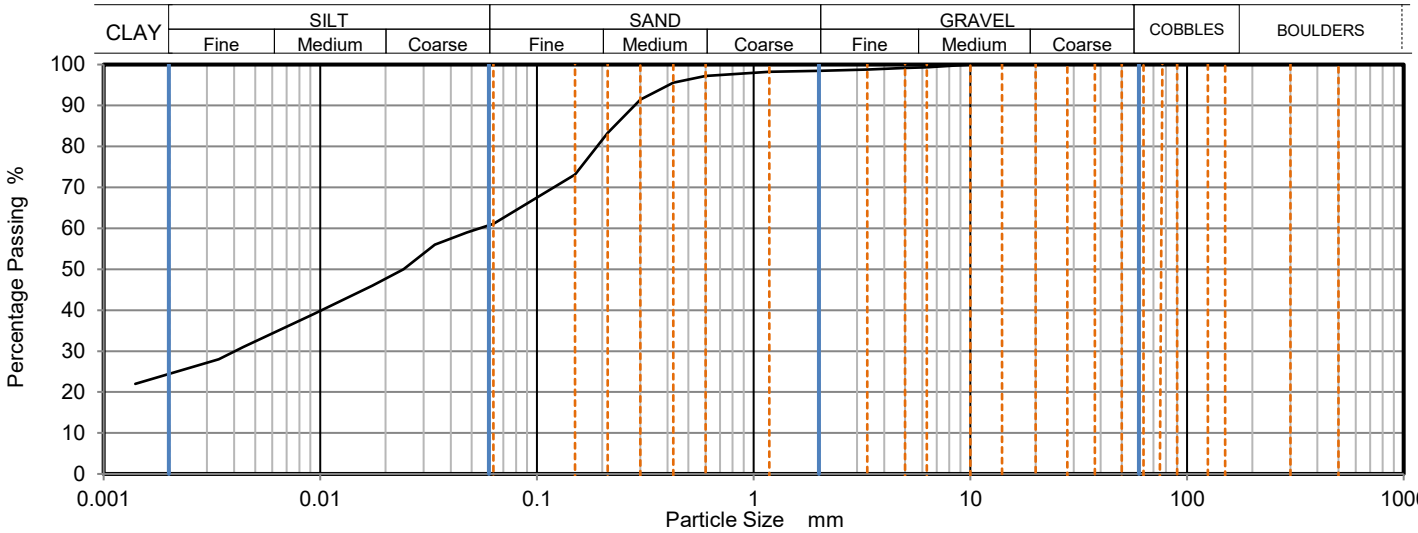
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570802	Depth Top [m]:	0.90
Hole No.:	TP04	Depth Base [m]:	1.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Dark brown sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0474	59
300	100	0.0338	56
150	100	0.0242	50
125	100	0.0174	46
90	100	0.0093	39
75	100	0.0044	31
63	100	0.0034	28
50	100	0.0014	22
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	99		
2	99		
1.18	98		
0.6	97	Particle density	(assumed)
0.425	96	2.65	Mg/m3
0.3	91		
0.212	83		
0.15	73		
0.063	61		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	38
Silt	37
Clay	24

Grading Analysis		
D100	mm	10
D60	mm	0.0532
D30	mm	0.00397
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

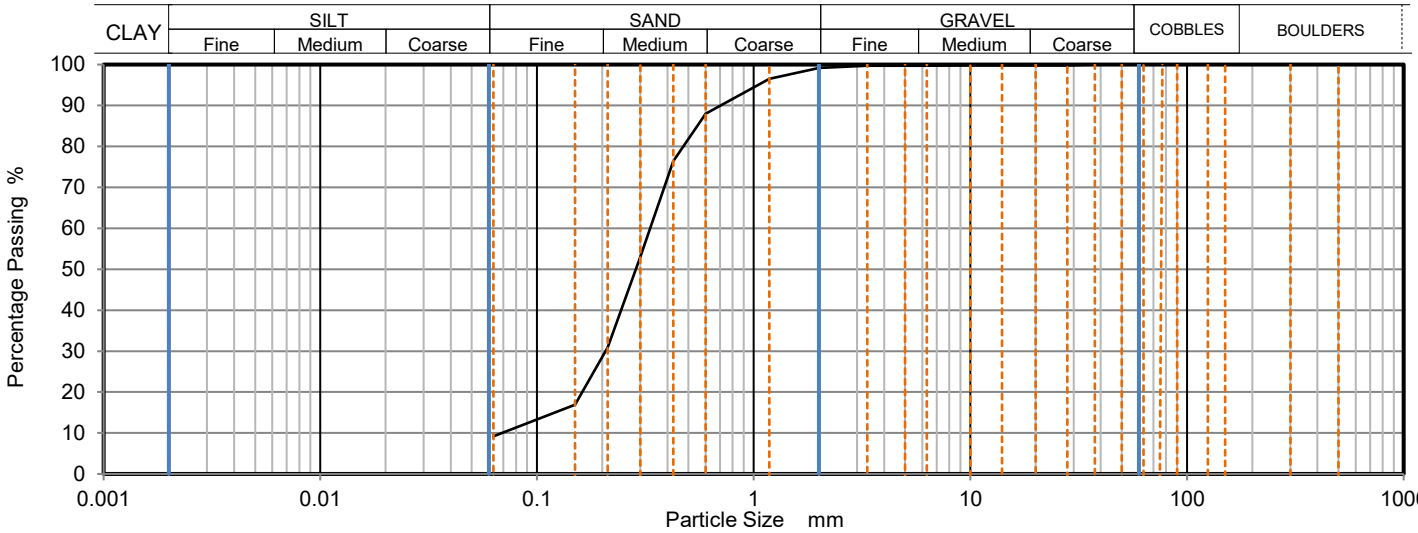
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	01/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570806	Depth Top [m]:	2.00
Hole No.:	TP32	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	97		
0.6	88		
0.425	76		
0.3	53		
0.212	31		
0.15	17		
0.063	9		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	90
Fines <0.063 mm	9

Grading Analysis		
D100	mm	37.5
D60	mm	0.333
D30	mm	0.207
D10	mm	0.0692
Uniformity Coefficient		4.8
Curvature Coefficient		1.9

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

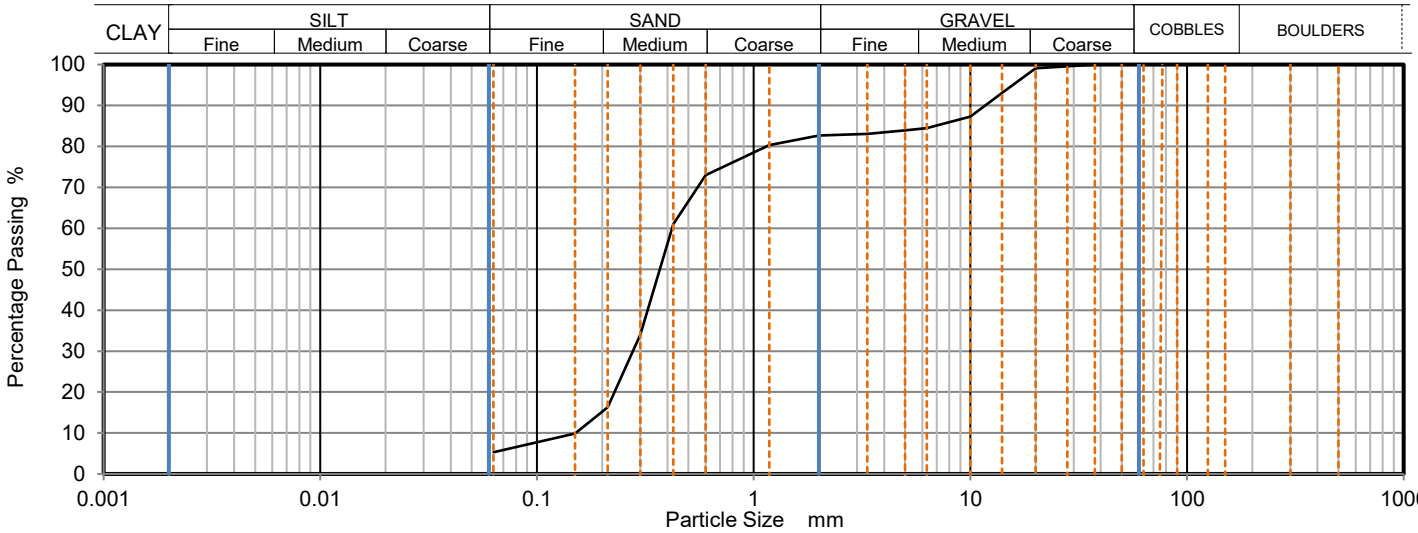
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	02/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570808	Depth Top [m]:	1.60
Hole No.:	TP39	Depth Base [m]:	1.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	93		
10	87		
6.3	85		
5	84		
3.35	83		
2	83		
1.18	80		
0.6	73		
0.425	61		
0.3	34		
0.212	16		
0.15	10		
0.063	5		

Sample Proportions	% dry mass
Very coarse	0
Gravel	17
Sand	78
Fines <0.063 mm	5

Grading Analysis		
D100	mm	37.5
D60	mm	0.419
D30	mm	0.277
D10	mm	0.151
Uniformity Coefficient		2.8
Curvature Coefficient		1.2

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

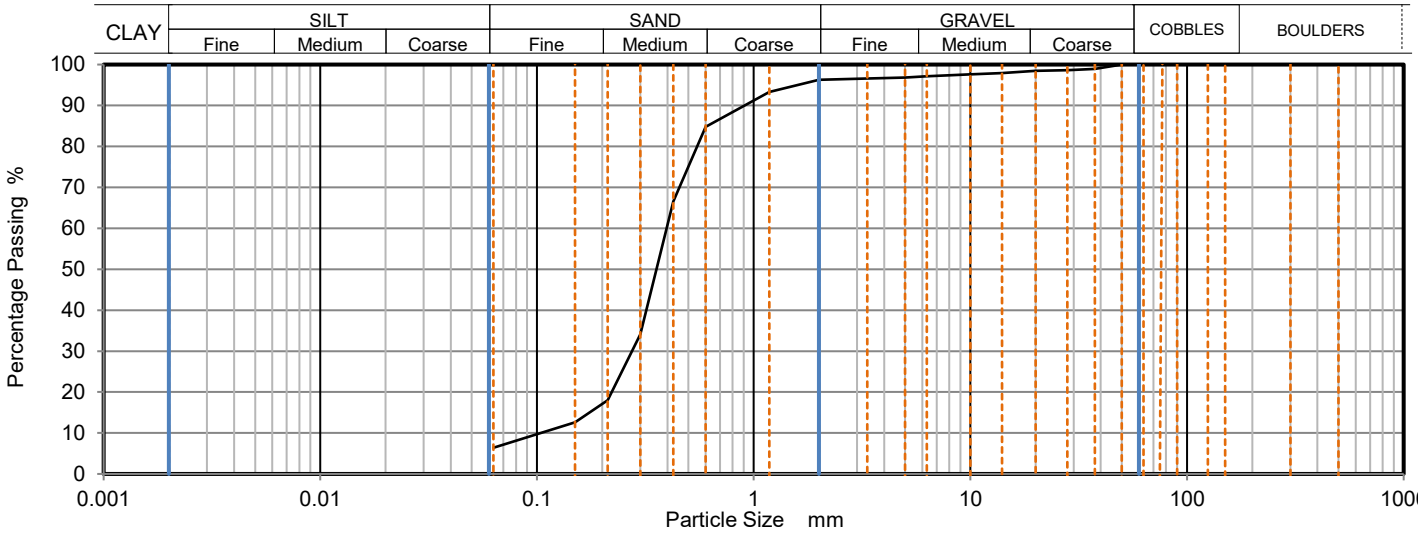
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	02/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570809	Depth Top [m]:	0.50
Hole No.:	TP37	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown slightly gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	99		
20	99		
14	98		
10	98		
6.3	97		
5	97		
3.35	97		
2	96		
1.18	93		
0.6	85		
0.425	67		
0.3	34		
0.212	18		
0.15	13		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	90
Fines <0.063 mm	6

Grading Analysis		
D100	mm	50
D60	mm	0.396
D30	mm	0.274
D10	mm	0.104
Uniformity Coefficient		3.8
Curvature Coefficient		1.8

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

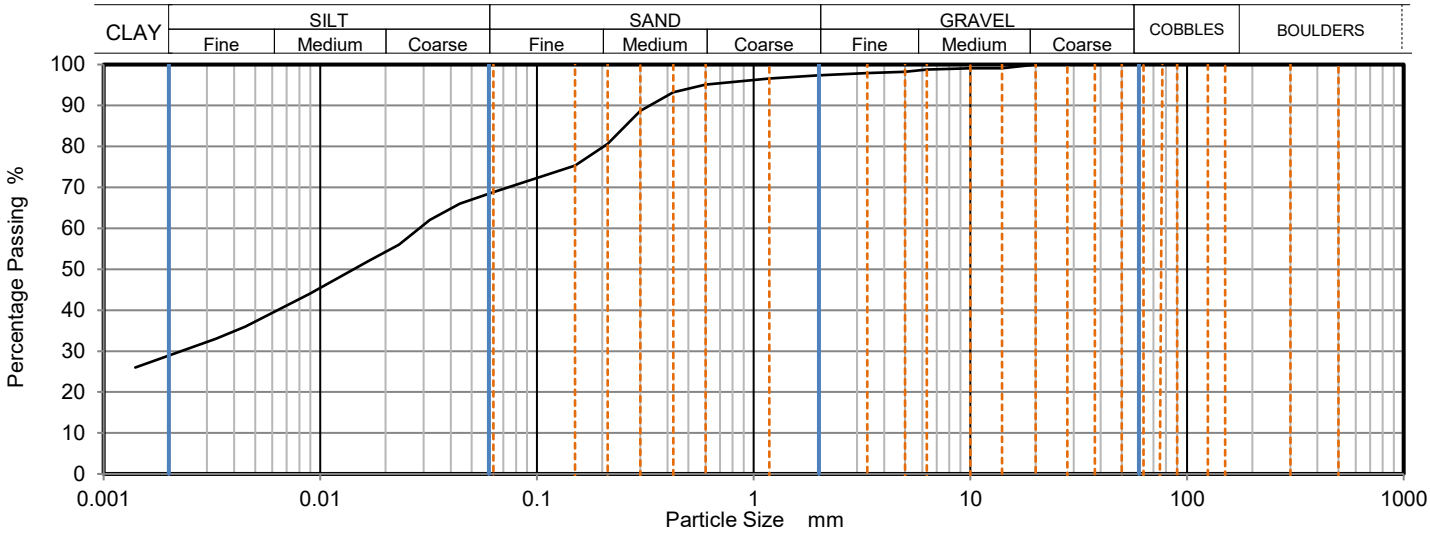
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	02/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570813	Depth Top [m]:	0.40
Hole No.:	TP35	Depth Base [m]:	0.50
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0441	66
300	100	0.0320	62
150	100	0.0231	56
125	100	0.0167	52
90	100	0.0089	44
75	100	0.0045	36
63	100	0.0033	33
50	100	0.0014	26
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	99		
5	98		
3.35	98		
2	97		
1.18	97		
0.6	95	Particle density	(assumed)
0.425	93	2.65	Mg/m3
0.3	89		
0.212	81		
0.15	75		
0.063	69		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	29
Silt	39
Clay	29

Grading Analysis		
D100	mm	20
D60	mm	0.0286
D30	mm	0.0023
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

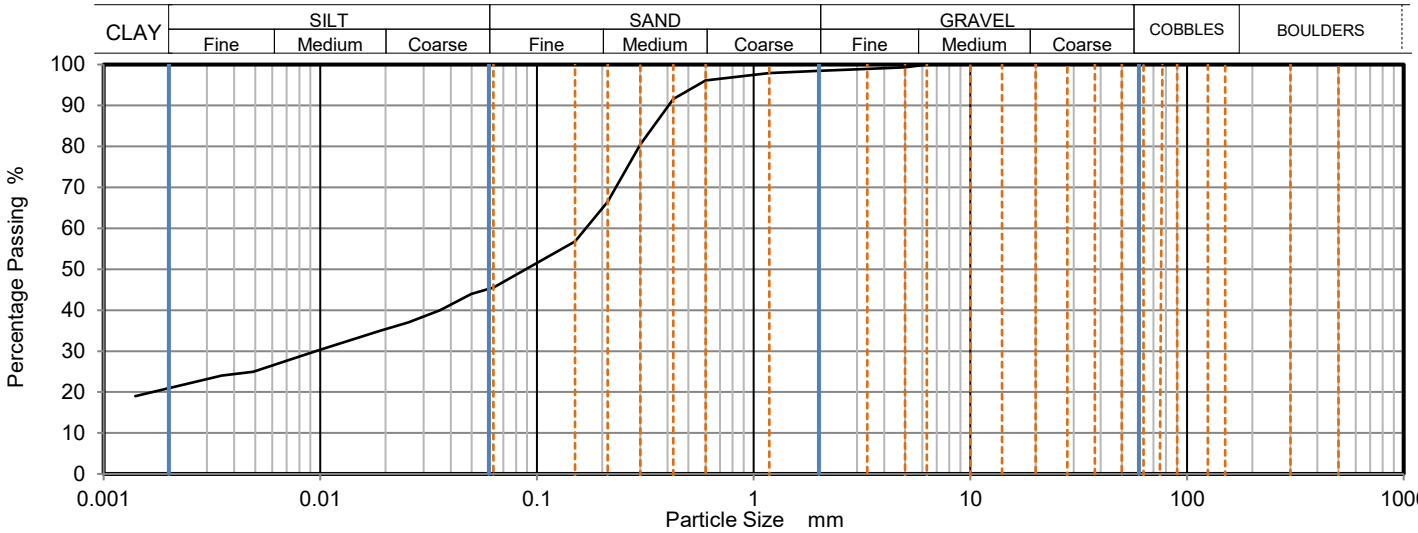
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572842	Depth Top [m]:	0.50
Hole No.:	TP71 1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 108.3 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0497	44
300	100	0.0356	40
150	100	0.0255	37
125	100	0.0189	35
90	100	0.0095	30
75	100	0.0049	25
63	100	0.0035	24
50	100	0.0014	19
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99		
2	99		
1.18	98		
0.6	96	Particle density	(measured)
0.425	92	2.66	Mg/m3
0.3	81		
0.212	67		
0.15	57		
0.063	46		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	52
Silt	25
Clay	21

Grading Analysis		
D100	mm	6.3
D60	mm	0.168
D30	mm	0.0091
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

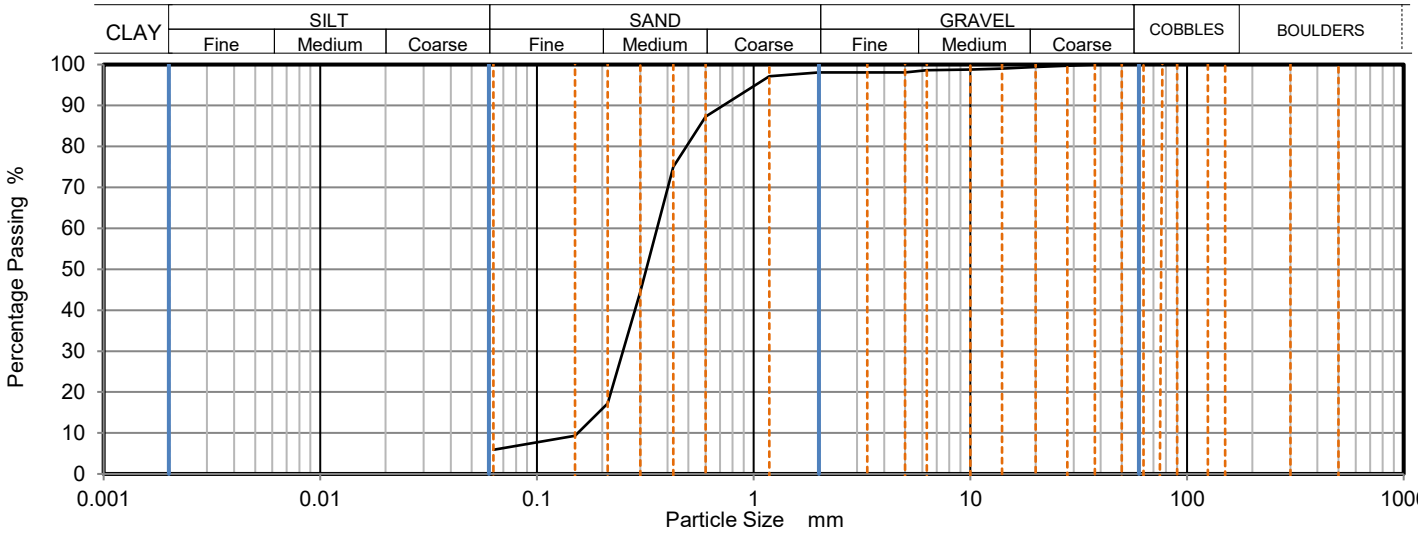
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	19/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572850	Depth Top [m]:	2.00
Hole No.:	TP41 2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Orangish brown slightly gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 107.8 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	99		
10	99		
6.3	99		
5	98		
3.35	98		
2	98		
1.18	97		
0.6	87		
0.425	75		
0.3	45		
0.212	17		
0.15	9		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	92
Fines <0.063 mm	6

Grading Analysis		
D100	mm	37.5
D60	mm	0.358
D30	mm	0.249
D10	mm	0.155
Uniformity Coefficient		2.3
Curvature Coefficient		1.1

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

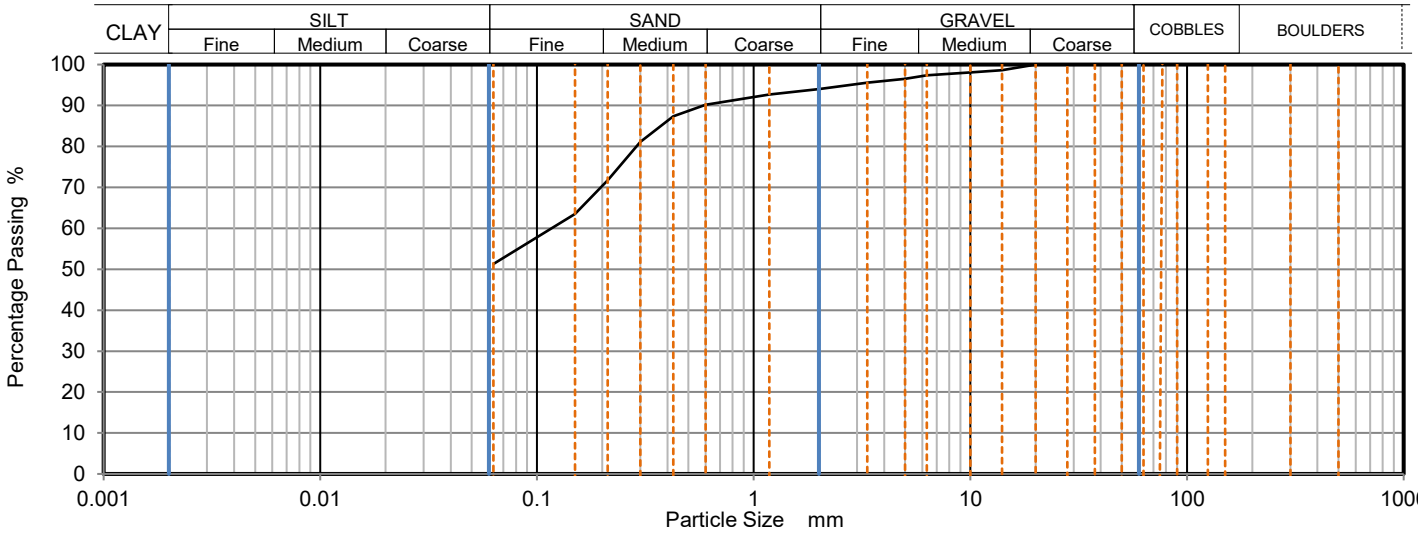
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572851	Depth Top [m]:	0.70
Hole No.:	TP40 3	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Reddish brown slightly gravelly sandy CLAY		
Sample Preparation:	Sample was quartered, oven dried at 107.9 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	98		
6.3	97		
5	97		
3.35	96		
2	94		
1.18	93		
0.6	90		
0.425	87		
0.3	81		
0.212	72		
0.15	64		
0.063	51		

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	43
Fines <0.063 mm	51

Grading Analysis		
D100	mm	20
D60	mm	0.117
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

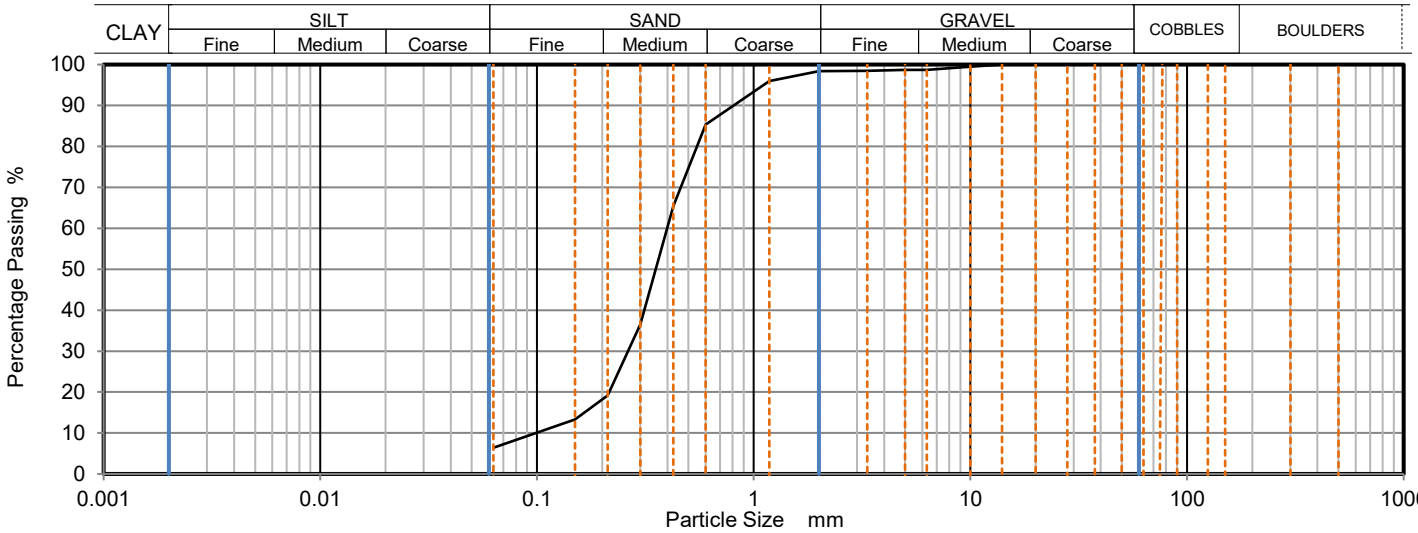
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	24/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572853	Depth Top [m]:	1.30
Hole No.:	Combine TP42@1.4+ TP40@1.3 + TP40@2.0	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.9 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	99		
2	98		
1.18	96		
0.6	85		
0.425	65		
0.3	37		
0.212	19		
0.15	13		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	92
Fines <0.063 mm	6

Grading Analysis		
D100	mm	14
D60	mm	0.398
D30	mm	0.263
D10	mm	0.0989
Uniformity Coefficient		4
Curvature Coefficient		1.8

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

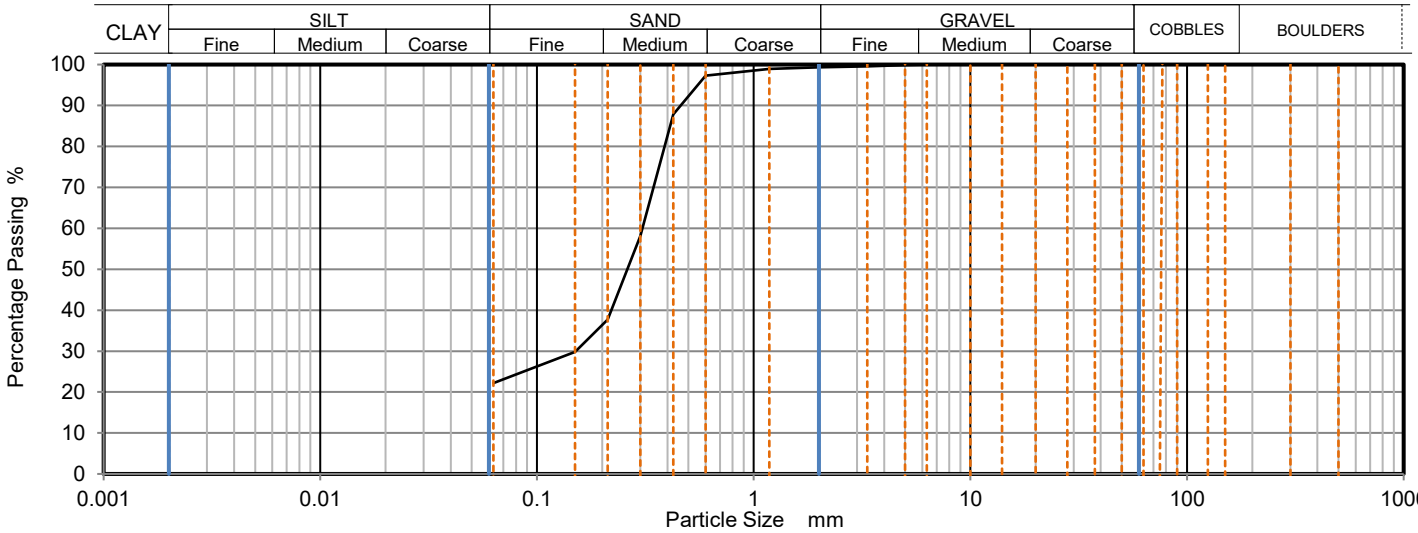
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	20/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572854	Depth Top [m]:	0.45
Hole No.:	TP45 2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	97		
0.425	88		
0.3	58		
0.212	38		
0.15	30		
0.063	22		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	77
Fines <0.063 mm	22

Grading Analysis		
D100	mm	6.3
D60	mm	0.307
D30	mm	0.151
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

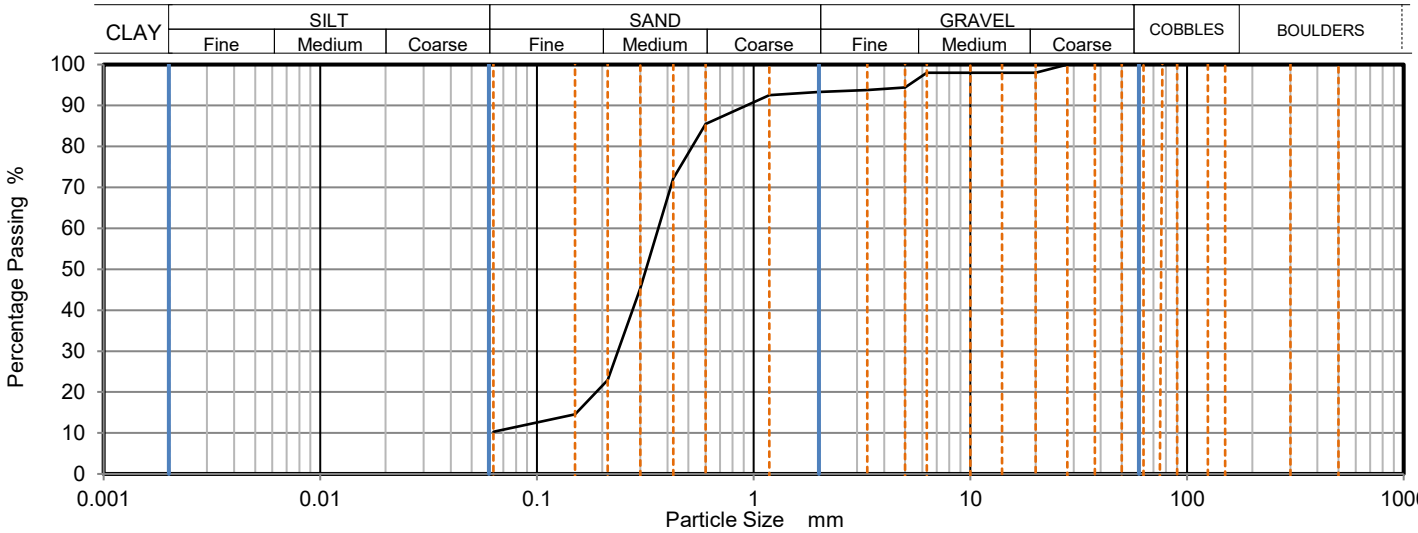
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	18/06/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572855	Depth Top [m]:	2.10
Hole No.:	TP45 4	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.5 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	98		
10	98		
6.3	98		
5	94		
3.35	94		
2	93		
1.18	93		
0.6	86		
0.425	72		
0.3	45		
0.212	23		
0.15	15		
0.063	10		

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	83
Fines <0.063 mm	10

Grading Analysis		
D100	mm	28
D60	mm	0.363
D30	mm	0.237
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 366.12

SUMMARY REPORT

DETERMINATION OF PARTICLE DENSITY - GAS JAR METHOD

Tested in Accordance with: BS 1377-2:2022, clause 9.2

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: 5th Floor, Waterfront House,
Nottingham, NG2 3DQ

Contact: Thomas Flame

Site Address: IP North

Client Reference: 233398
Job Number: 25-029363-0
Date Sampled: 28/04 - 01/05/2025
Date Received: 16/05/2025
Date Tested: 17/06 - 20/06/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	PD	Preparation				
		Reference	Depth Top m	Depth Base m	Type			Mg/m3					
572843	TP71 3	Not Given	1.80	Not Given	B	Brown slightly gravelly SAND		2.64	Quartered, natural condition				
572846	TP46 2	Not Given	0.80	Not Given	B	Yellowish brown gravelly CLAY		2.70	Quartered, natural condition				
570788	TP22	Not Given	0.50	0.60	B	Brown clayey SAND		2.66	Quartered, natural condition				
570791	TP08	Not Given	3.30	3.40	B	Dark brown gravelly CLAY		2.80	Quartered, natural condition				
570796	TP02	Not Given	1.90	2.00	D	Brown slightly gravelly very clayey SAND		2.65	Quartered, natural condition				
570799	TP03	Not Given	3.10	3.20	B	Brown slightly clayey SAND		2.69	Quartered, natural condition				
570806	TP32	Not Given	2.00	2.20	B	Orangish brown gravelly SAND		2.66	Quartered, natural condition				
572838	TP48 1	Not Given	1.00	Not Given	B	Orangish brown gravelly SAND		2.64	Quartered, natural condition				
572859	TP44 1	Not Given	0.70	Not Given	B	Brown slightly clayey SAND		2.66	Quartered, natural condition				

Note: PD - Particle Density

Comments: Preliminary report

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 591.1

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

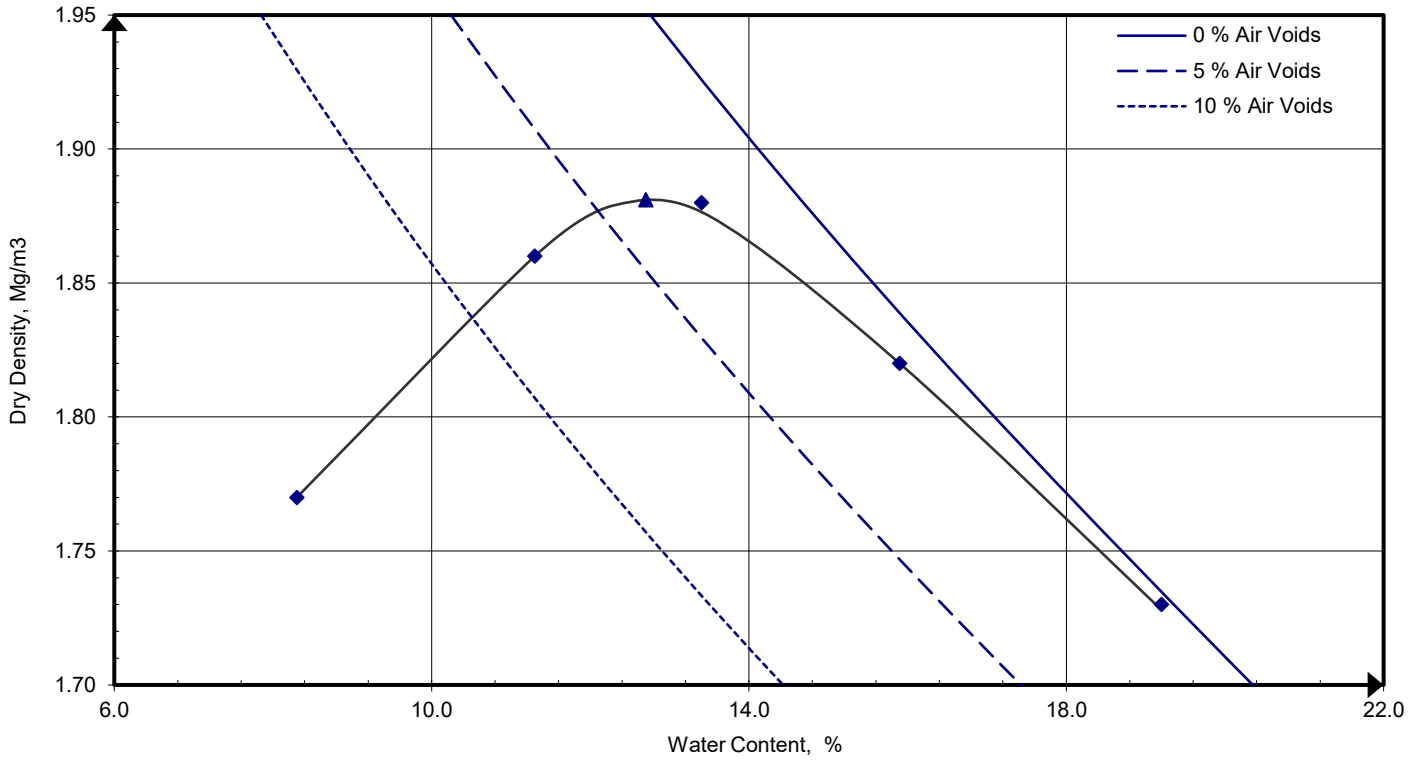
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	01/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570769	Depth Top [m]:	2.30
Hole No.:	TP10	Depth Base [m]:	2.50
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	8.3	11.3	13.4	15.9	19.2
Dry Density	Mg/m³	1.77	1.86	1.88	1.82	1.73

Grading zone	2
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.60
As received Water Content	%	19.2
Maximum Dry Density	Mg/m³	**1.88**

Optimum Water Content	%	**13**

Note: BS 1377-2:2022, cl 11.3

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 599.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

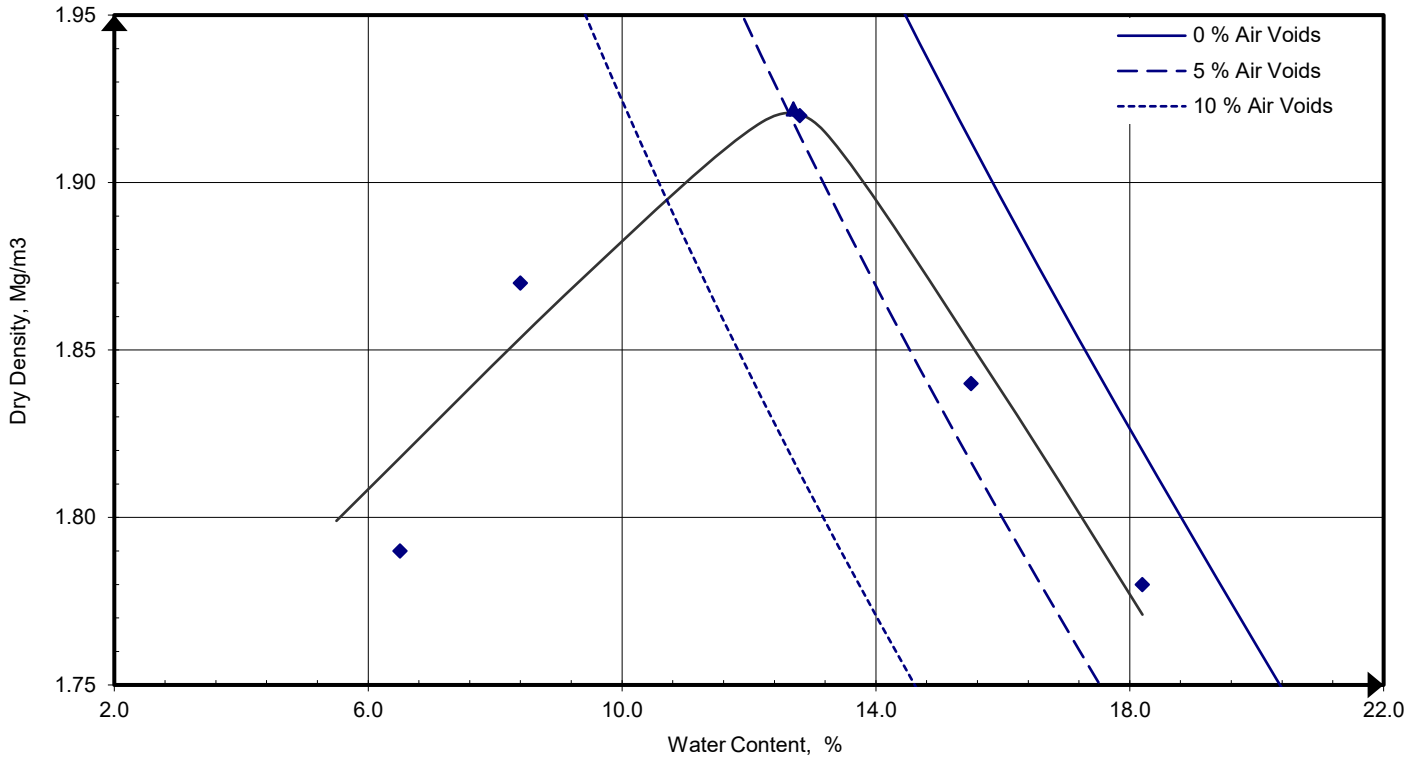
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	01/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570783	Depth Top [m]:	0.50
Hole No.:	TP20	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	6.5	8.4	12.8	15.5	18.2
Dry Density	Mg/m³	1.79	1.87	1.92	1.84	1.78

Grading zone	1
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Measured using gas jar (BS 1377-2: 2022 Clause 9.2)	Mg/m³	2.72
As received Water Content	%	17.2
Maximum Dry Density	Mg/m³	**1.92**

Optimum Water Content	%	**13**

Note: BS 1377-2:2022, cl 11.3

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 599.2

4041

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

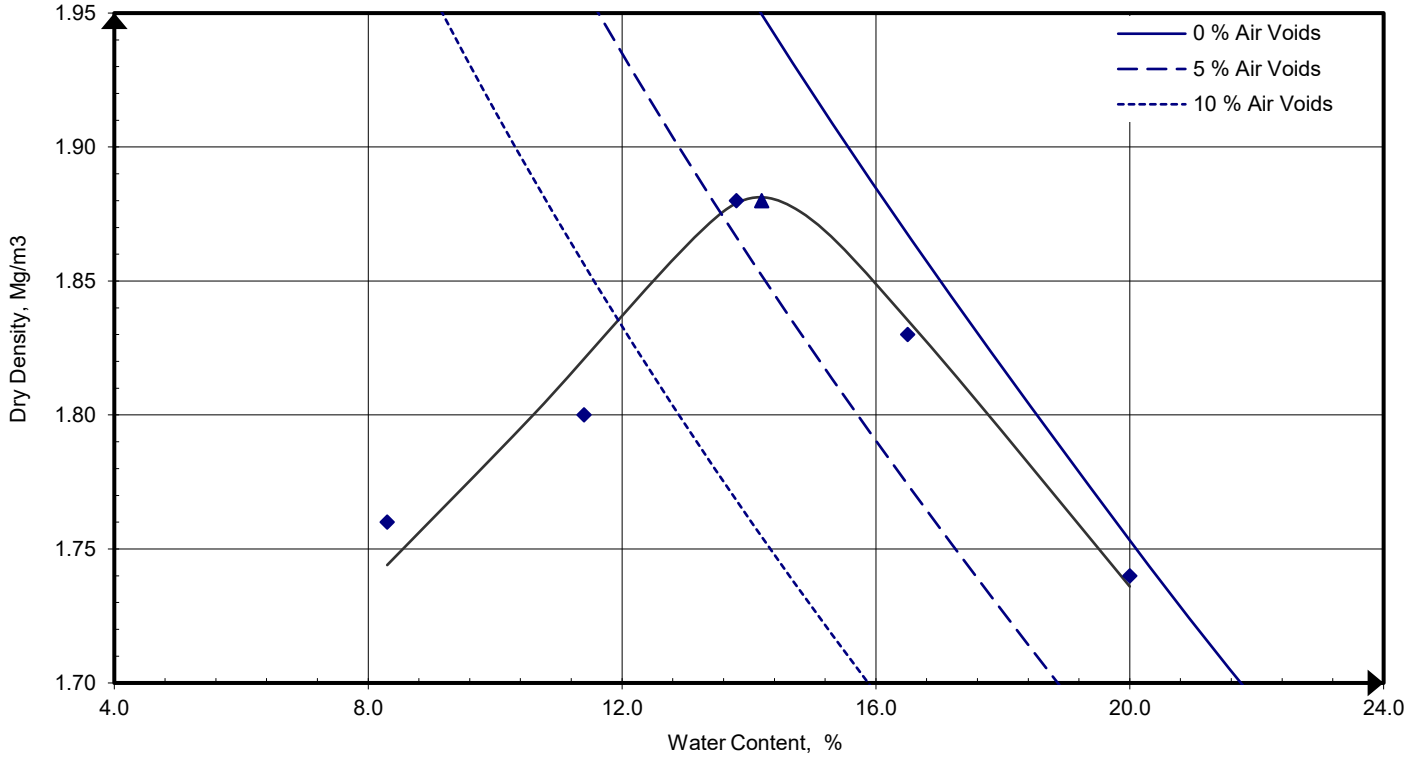
Environmental Science

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570795	Depth Top [m]:	0.60
Hole No.:	TP02	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	8.3	11.4	13.8	16.5	20.0
Dry Density	Mg/m³	1.76	1.80	1.88	1.83	1.74

Grading zone	3
Mould Type	CBR
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	6
Particle Density - Assumed	Mg/m³	2.70
As received Water Content	%	14.2
Maximum Dry Density	Mg/m³	**1.88**

Optimum Water Content	%	**14**

Note: BS 1377-2:2022, CL 11.4

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 599.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

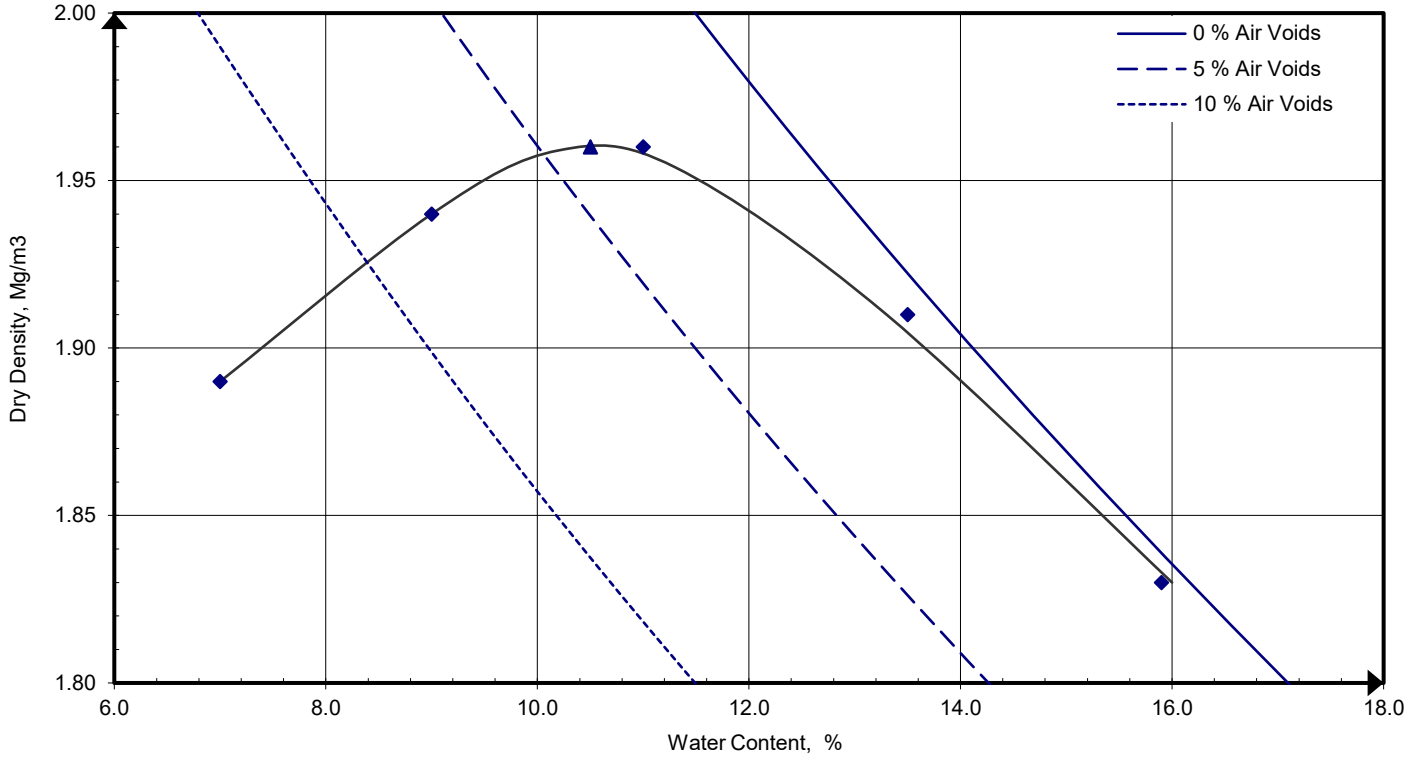
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	01/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570805	Depth Top [m]:	1.20
Hole No.:	TP34	Depth Base [m]:	1.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	7.0	9.0	11.0	13.5	15.9
Dry Density	Mg/m³	1.89	1.94	1.96	1.91	1.83

Grading zone	1
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.60
As received Water Content	%	13.5
Maximum Dry Density	Mg/m³	**1.96**

Optimum Water Content	%	**11**

Note: BS 1377-2:2022, cl 11.3

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 599.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

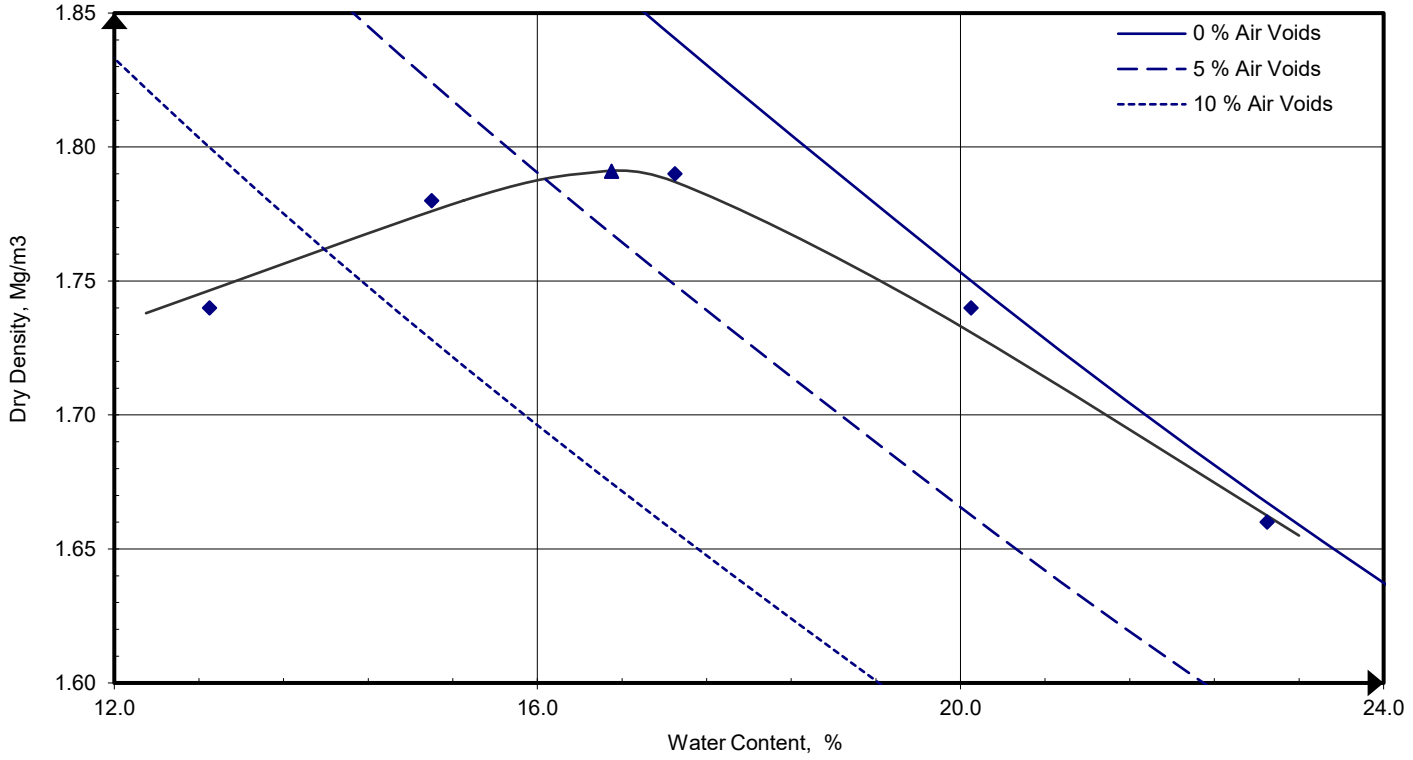
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	01/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570807	Depth Top [m]:	0.50
Hole No.:	TP33	Depth Base [m]:	0.70
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	12.9	15.0	17.3	20.1	22.9
Dry Density	Mg/m³	1.74	1.78	1.79	1.74	1.66

Grading zone	2
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	1
Particle Density - Assumed	Mg/m³	2.70
As received Water Content	%	17.3
Maximum Dry Density	Mg/m³	**1.79**

Optimum Water Content	%	**17**

Note: BS 1377-2:2022, cl 11.3

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 599.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

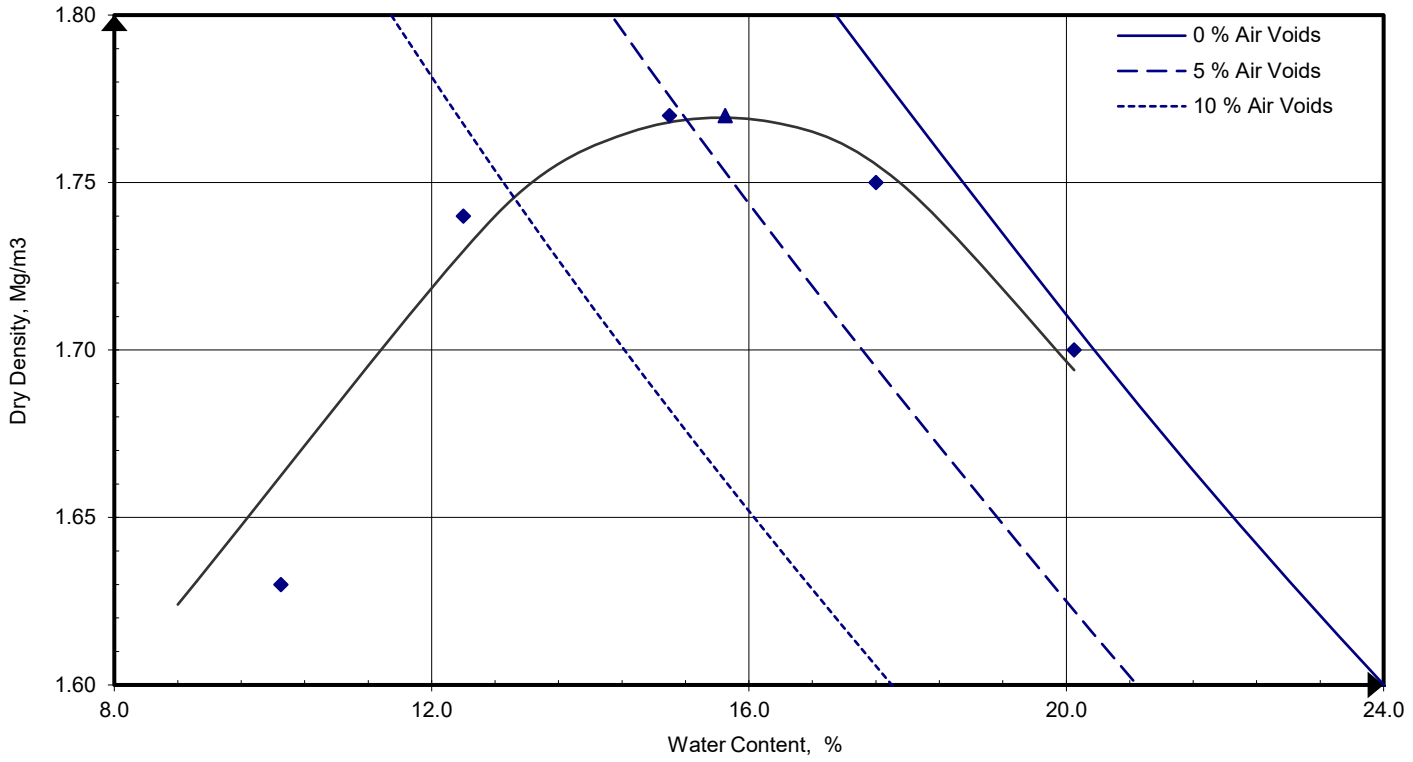
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	02/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570811	Depth Top [m]:	0.70
Hole No.:	TP36	Depth Base [m]:	0.80
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	10.1	12.4	15.0	17.6	20.1
Dry Density	Mg/m³	1.63	1.74	1.77	1.75	1.70

Grading zone	1
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.60
As received Water Content	%	20.1
Maximum Dry Density	Mg/m³	**1.77**

Optimum Water Content	%	**16**

Note: BS 1377-2:2022, cl 11.3

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 599.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-2:2022, CL 11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

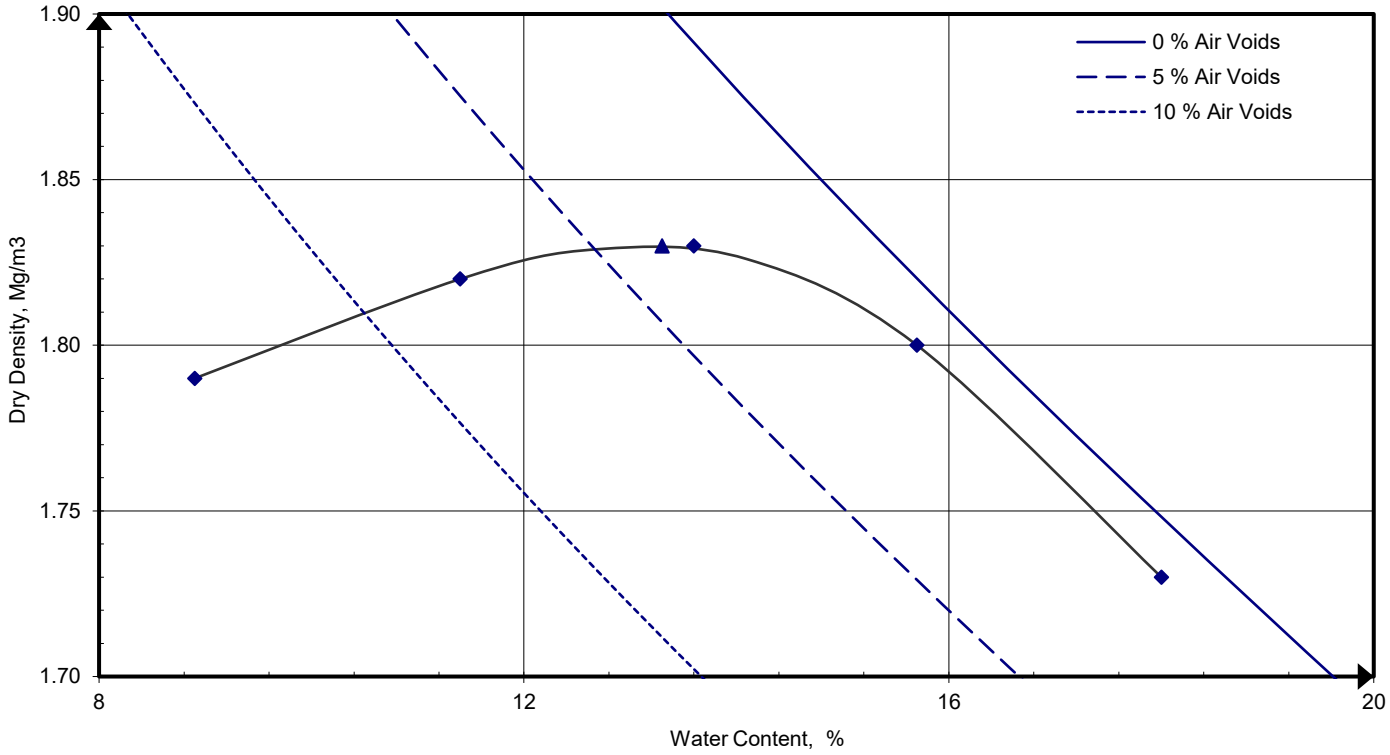
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	29/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	02/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	570786	Depth Top [m]:	0.70
Hole No.:	TP16	Depth Base [m]:	0.90
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown clayey SAND		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	8.9	11.4	13.6	15.7	18.0
Dry Density	Mg/m³	1.79	1.82	1.83	1.80	1.73

Grading Zone	1
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.55
As received Water Content	%	7.3
Maximum Dry Density	Mg/m³	**1.83**

Optimum Water Content	%	**13**

BS 1377-2:2022, cl 11.5

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 601.2

4041

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-2:2022, CL 11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

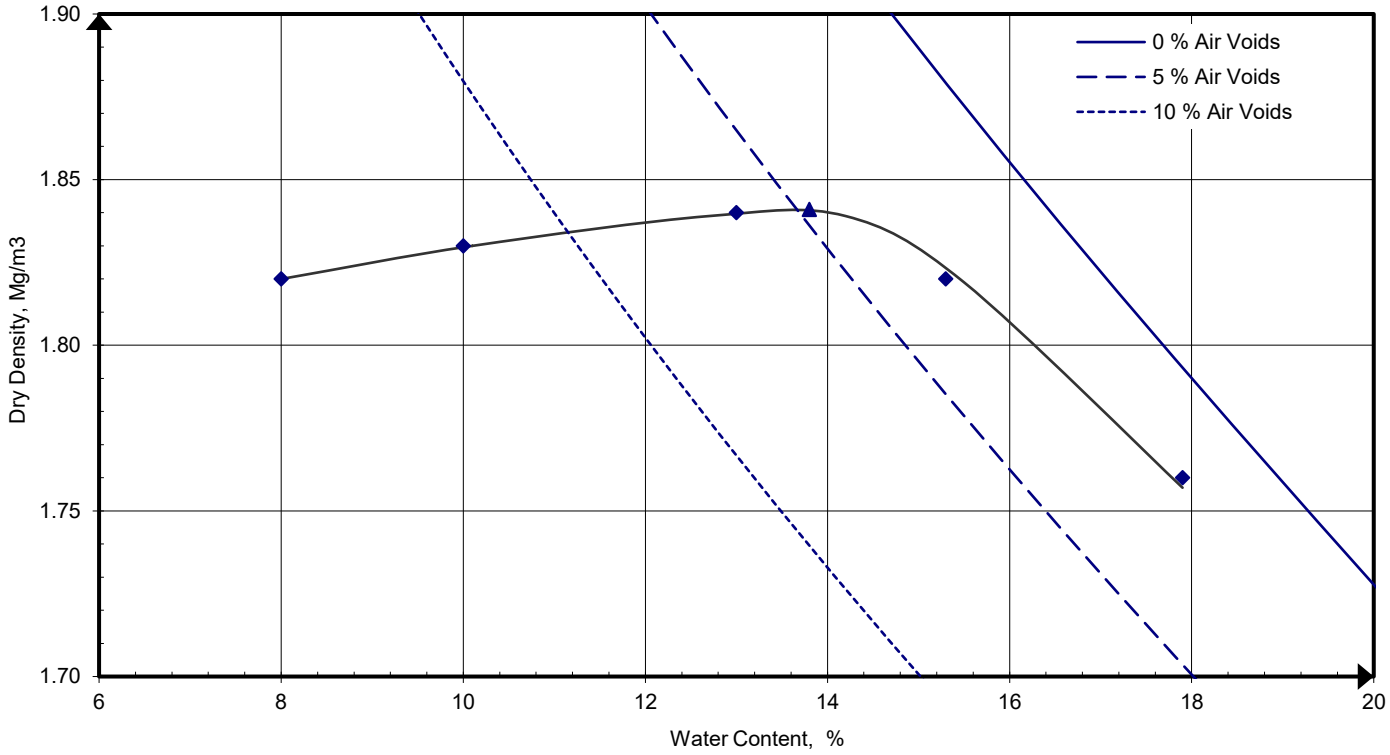
Environmental Science

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	02/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572843	Depth Top [m]:	1.80
Hole No.:	TP71 3	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly SAND		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	8.0	10.0	13.0	15.3	17.9
Dry Density	Mg/m³	1.82	1.83	1.84	1.82	1.76

Grading Zone	X
Mould Type	CBR
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	10
Material Retained on 20.0 mm Sieve	%	21
Particle Density - Measured using gas jar (BS 1377-2: 2022 Clause 9.2)	Mg/m³	2.64
As received Water Content	%	10.0
Maximum Dry Density	Mg/m³	**1.84**

Optimum Water Content	%	**14**

Notes: BS 1377-2:2022, CL 11.6

Remarks: Zone X - test carried out with clients consent.
Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 601.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-2:2022, CL 11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

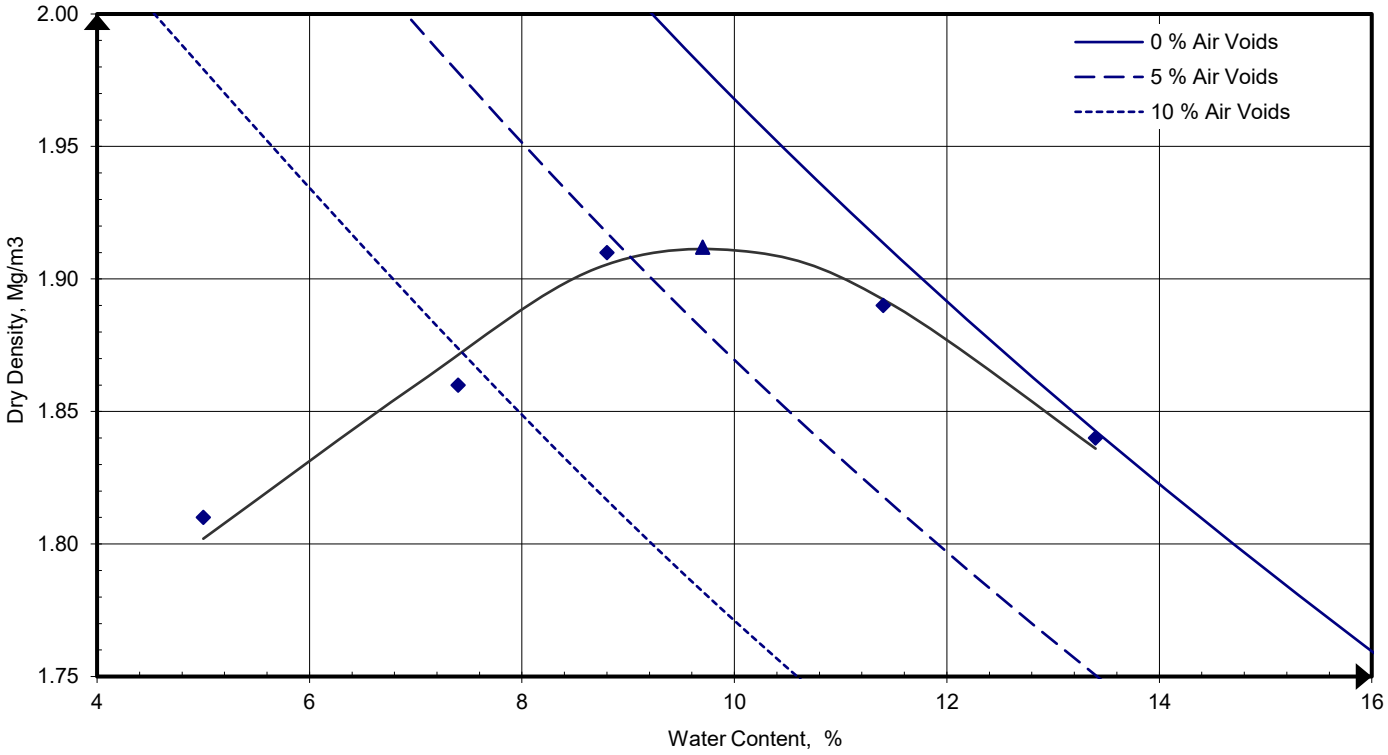
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	03/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572844	Depth Top [m]:	1.20
Hole No.:	TP47A 3	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown SAND		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	5.0	7.4	8.8	11.4	13.4
Dry Density	Mg/m³	1.81	1.86	1.91	1.89	1.84

Grading Zone	1
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.45
As received Water Content	%	11.4
Maximum Dry Density	Mg/m³	**1.91**

Optimum Water Content	%	**9.7**

BS 1377-2:2022, cl 11.5

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 601.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-2:2022, CL 11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

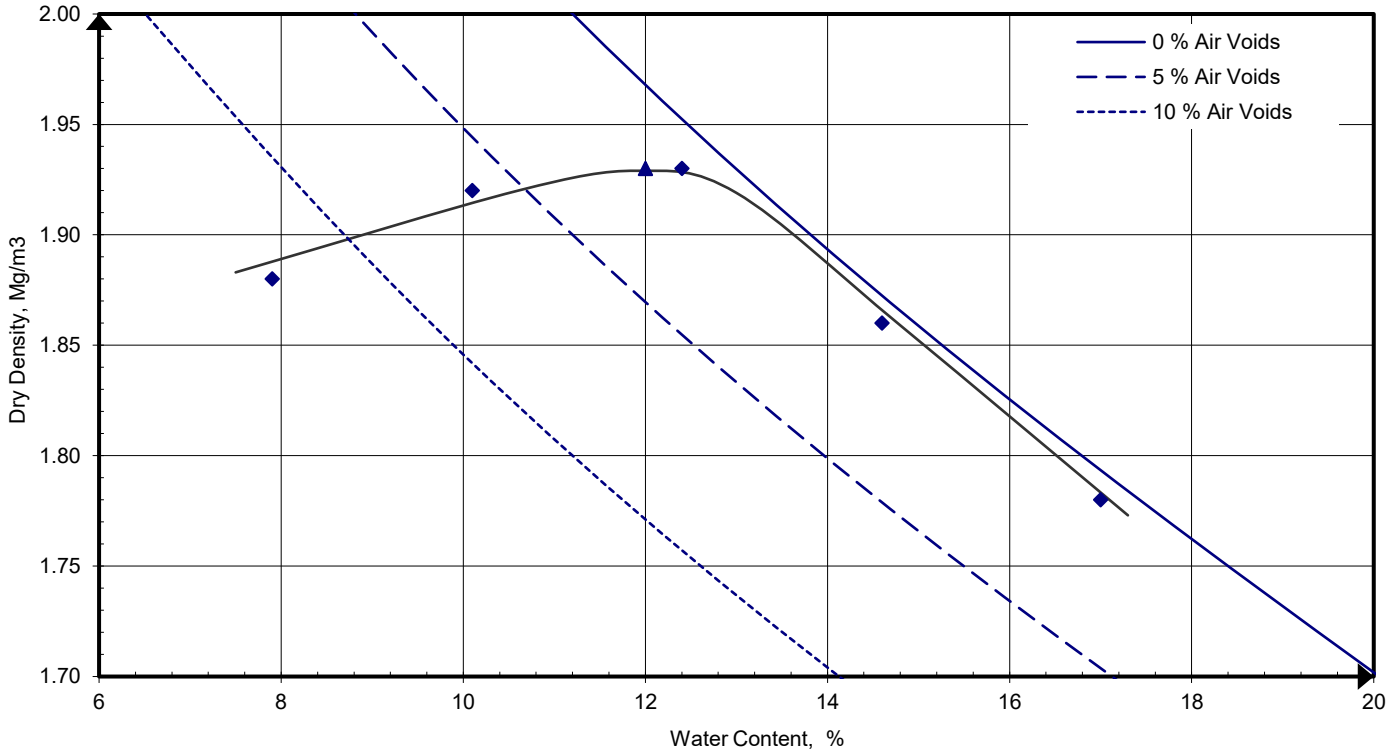
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	07/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572848	Depth Top [m]:	0.45
Hole No.:	TP41 1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Dark brown slightly clayey SAND		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	7.9	10.1	12.4	14.6	17.0
Dry Density	Mg/m³	1.88	1.92	1.93	1.86	1.78

Grading Zone	1
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.58
As received Water Content	%	14.6
Maximum Dry Density	Mg/m³	**1.93**

Optimum Water Content	%	**12**

BS 1377-2:2022, cl 11.5

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 601.2

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-2:2022, CL 11

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

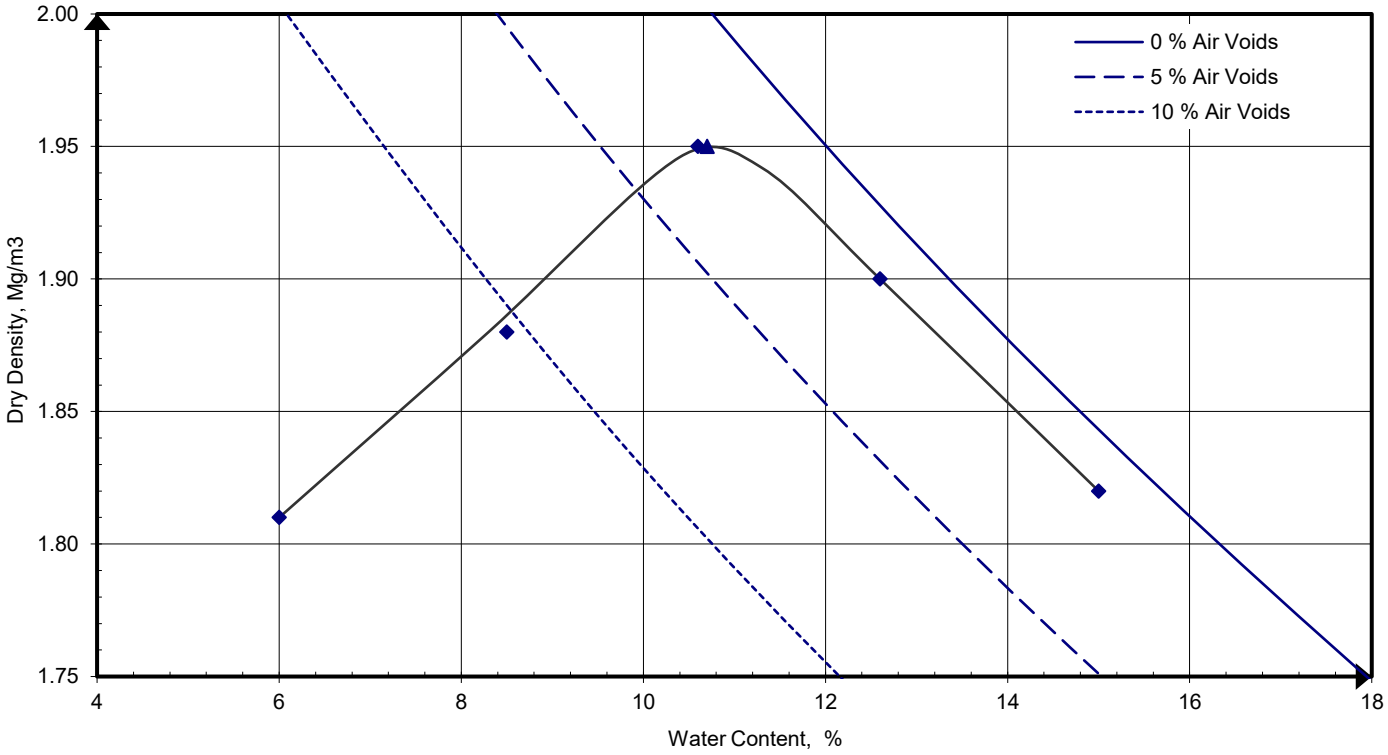
4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	02/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	572854	Depth Top [m]:	0.45
Hole No.:	TP45 2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown SAND		
Sample Preparation:	Sample was whole tested and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	6.0	8.5	10.6	12.6	15.0
Dry Density	Mg/m³	1.81	1.88	1.95	1.90	1.82

Grading Zone	2
Mould Type	1 Litre
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	2
Particle Density - Assumed	Mg/m³	2.55
As received Water Content	%	10.6
Maximum Dry Density	Mg/m³	**1.95**

Optimum Water Content	%	**11**

BS 1377-2:2022, cl 11.5

Remarks: Preliminary report

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 601.2

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	28/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	01/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

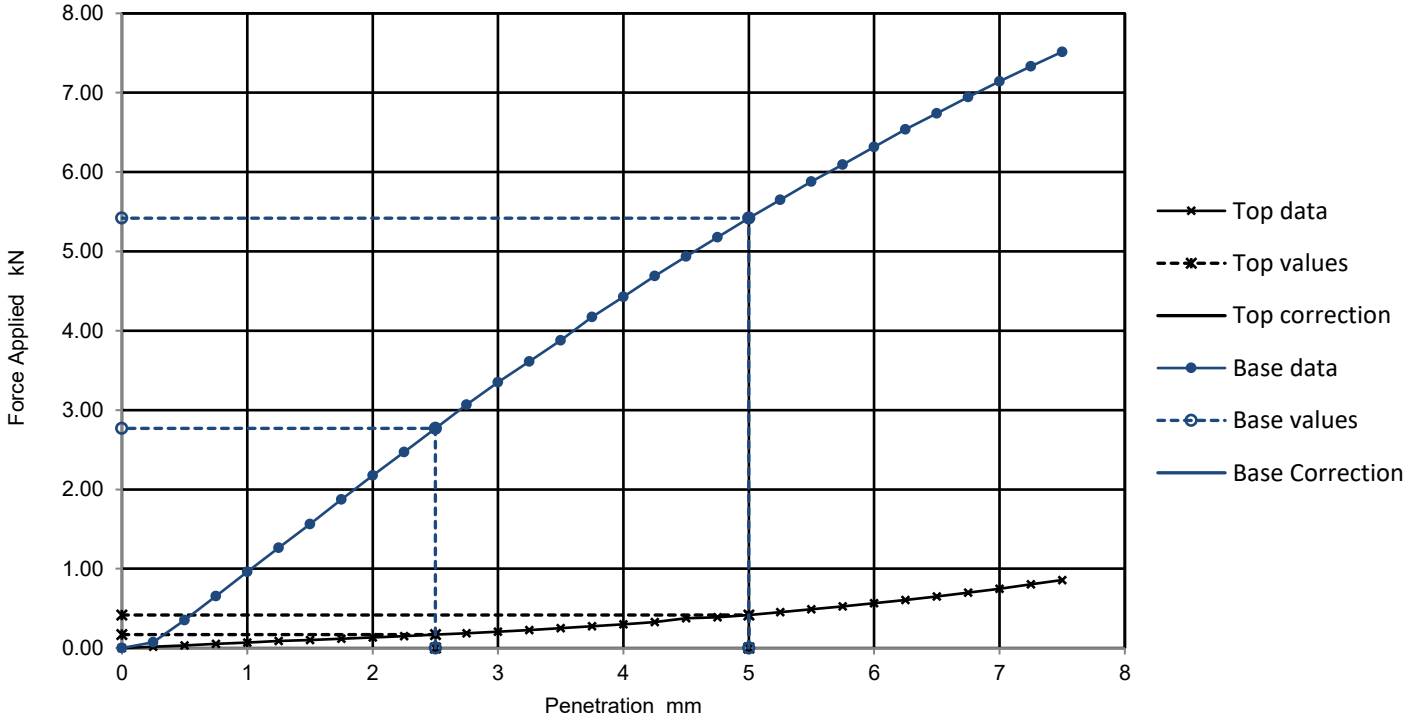
Laboratory Reference:	570768	Depth Top [m]:	1.40
Hole No.:	TP17	Depth Base [m]:	1.50
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown clayey SAND		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 4.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.84	Mg/m3	Surcharge applied	8 kg
	Dry density	1.68	Mg/m3		4.8 kPa
	Water content	9.7	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	No	1.3	2.1	2.1		9.6
BASE	No	21	27	27		9.7

Remarks: Preliminary report

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 593.1

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	02/05/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

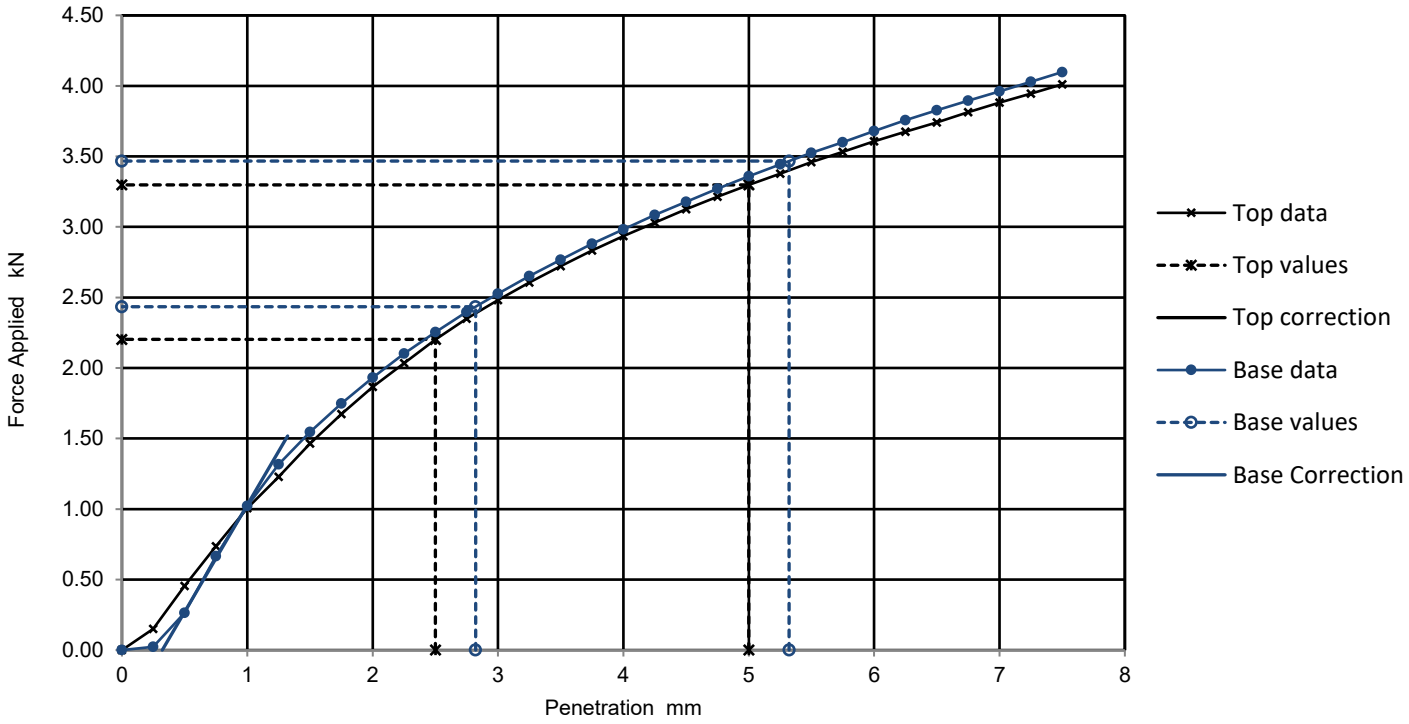
Laboratory Reference:	570813	Depth Top [m]:	0.40
Hole No.:	TP35	Depth Base [m]:	0.50
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.09	Mg/m3	Surcharge applied	8 kg
	Dry density	1.83	Mg/m3		4.8 kPa
	Water content	14	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	17	16	17	18	14
BASE	Yes	18	17	18		14

Remarks: Preliminary report

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 593.1

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

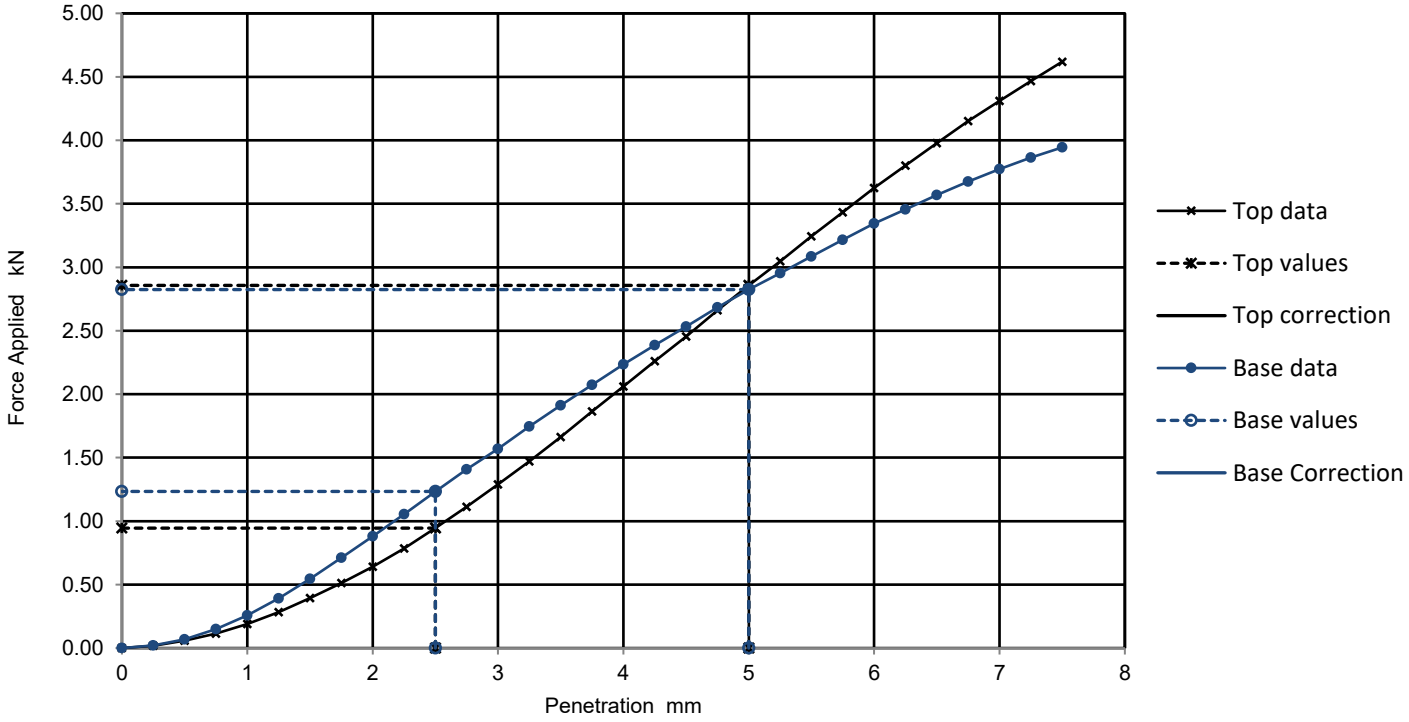
Test Results:

Laboratory Reference:	572838	Depth Top [m]:	1.00
Hole No.:	TP48 1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Orangish brown gravelly SAND		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.78	Mg/m3	Surcharge applied	8 kg
	Dry density	1.63	Mg/m3		4.8 kPa
	Water content	9.5	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	7.2	14	14	14	9.4
BASE	No	9.3	14	14		9.0

Remarks: Preliminary report

Test/ Specimen specific remarks:

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 593.1

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

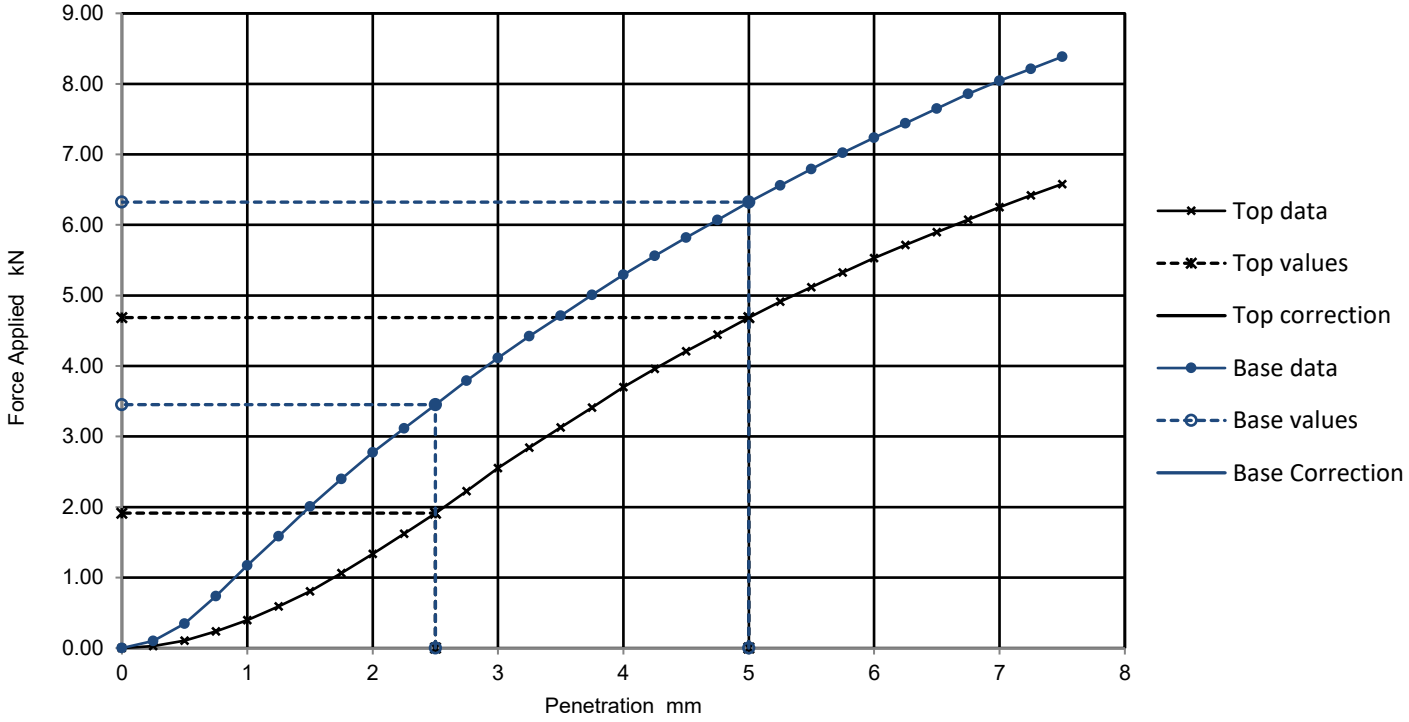
Laboratory Reference:	572840	Depth Top [m]:	0.50
Hole No.:	TP51 1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown SAND		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.91	Mg/m3	Surcharge applied	8 kg
	Dry density	1.74	Mg/m3		4.8 kPa
	Water content	9.6	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	15	23	23		9.4
BASE	No	26	32	32		9.4

Remarks: Preliminary report

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 593.1

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client:	BWB Consulting Limited	Client Reference:	233398
Client Address:	5th Floor, Waterfront House, Nottingham, NG2 3DQ	Job Number:	25-029363-0
		Date Sampled:	30/04/2025
		Date Received:	16/05/2025
Contact:	Thomas Flame	Date Tested:	08/07/2025
Site Address:	IP North	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

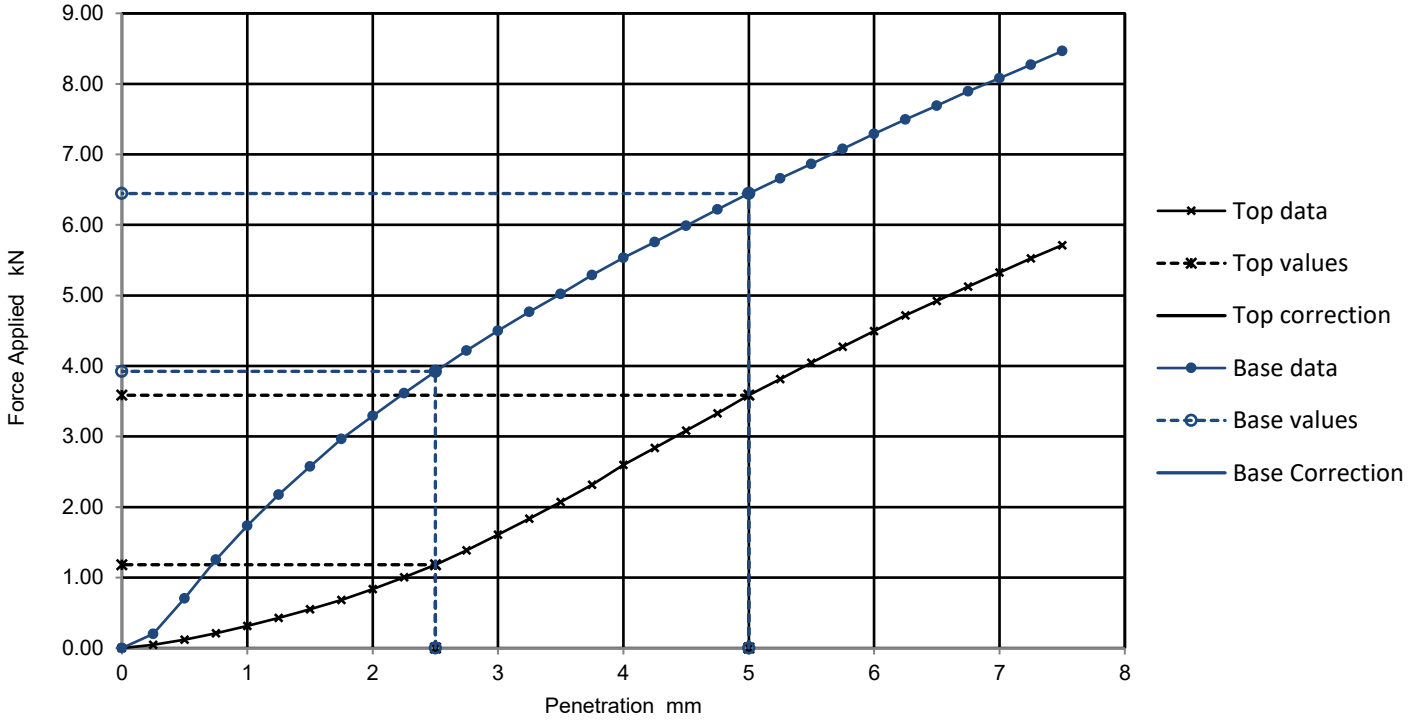
Laboratory Reference:	572856	Depth Top [m]:	0.40
Hole No.:	TP43 2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown SAND		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	8 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.89	Mg/m3	Surcharge applied	8 kg
	Dry density	1.72	Mg/m3		4.8 kPa
	Water content	10	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	No	9	18	18		9.9
BASE	No	30	32	32		9.6

Remarks: Preliminary report

Test/ Specimen specific remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 09/07/2025

GF 593.1

BWB

A CAF GROUP COMPANY

www.bwbconsulting.com