



No groundwater strikes during or after drilling. Borehole terminated at 3.00m bgl due to refusal on very dense granular soils.



Remarks

Photographic Records – Windowless samples

Project: Philips High School, Manchester

Project Ref: 30447

Date: 20/11/2025

Revision: 0



T: 01604 781811

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WS01 – Ground level to 5.00m bgl.



WS01A – Ground level to 1.00m bgl.



WS02 – Ground level to 5.00m bgl.



Photographic Records – Windowless samples

Project: Philips High School, Manchester

Project Ref: 30447

Date: 20/11/2025

Revision: 0



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WS03 – Ground level to 5.00m bgl.



WS04 – Ground level to 5.00m bgl.



Photographic Records – Windowless samples

Project: Philips High School, Manchester

Project Ref: 30447

Date: 20/11/2025

Revision: 0

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WS05 – Ground level to 4.00m bgl.



WS06 – Ground level to 3.00m bgl.



WS07 – Ground level to 1.00m bgl.



Project Name: Philips High School

Project No: 30447

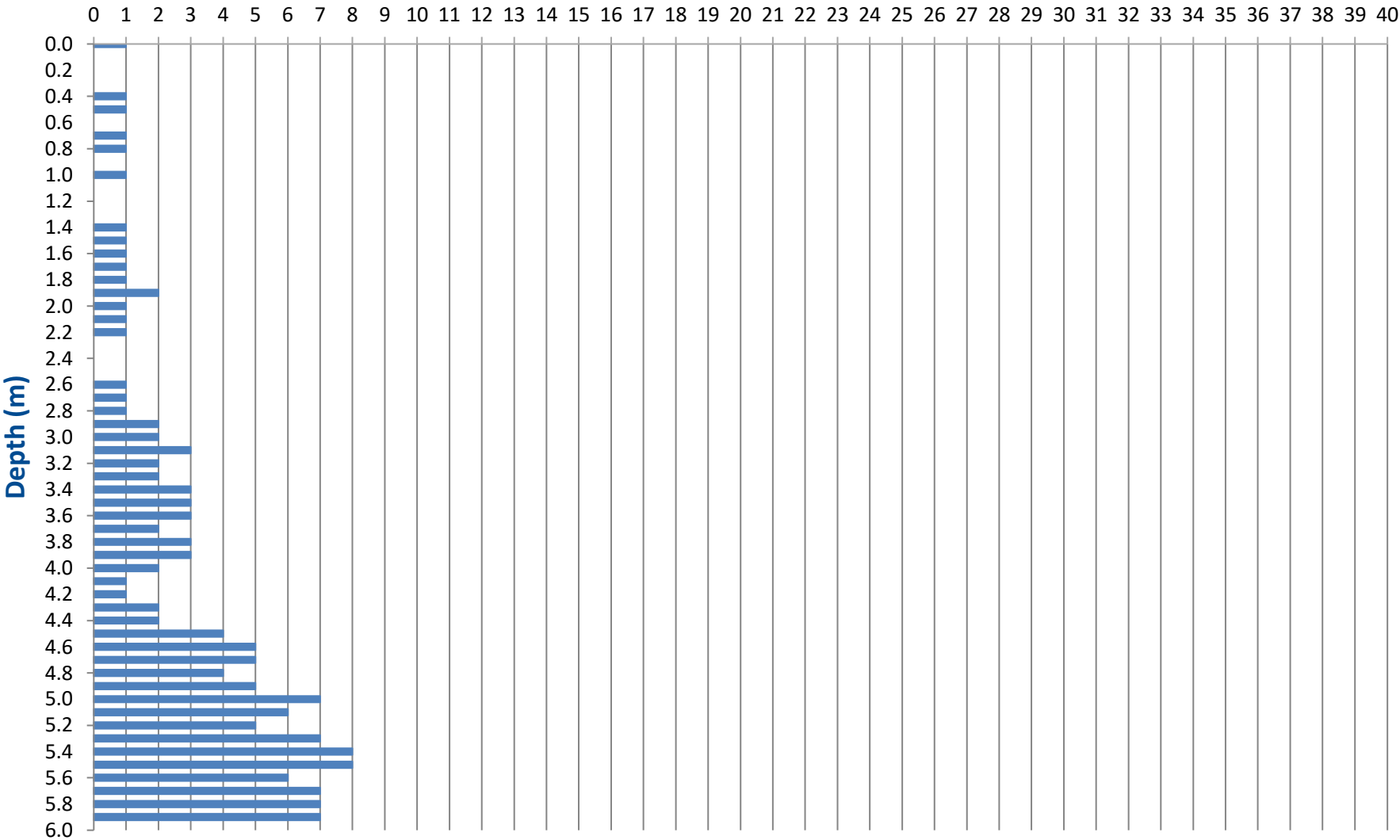
Client: Labosport

Test Date: 20/11/2025

Dynamic Probe Results

Number of Blows per 100mm

DP1



Project Name: Philips High School

Project No: 30447

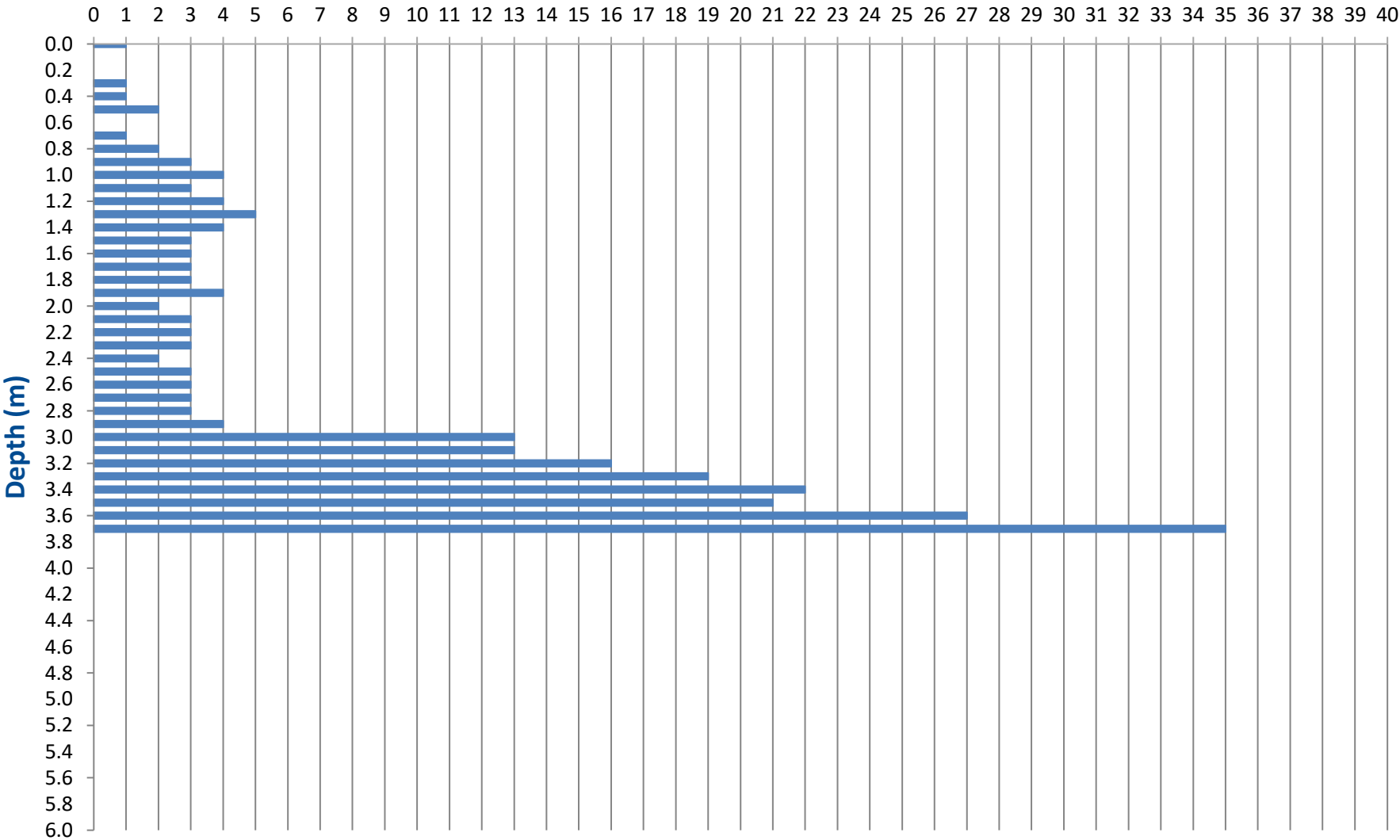
Client: Labosport

Test Date: 20/11/2025

Dynamic Probe Results

Number of Blows per 100mm

DP2



DYNAMIC CONE PENETROMETER (DCP) RESULTS

Project Name: Philips High School

Project No: 30447

Client: Labosport

Depth of Test : G.L.

Calcs By : AH

Date : 20 November 2025

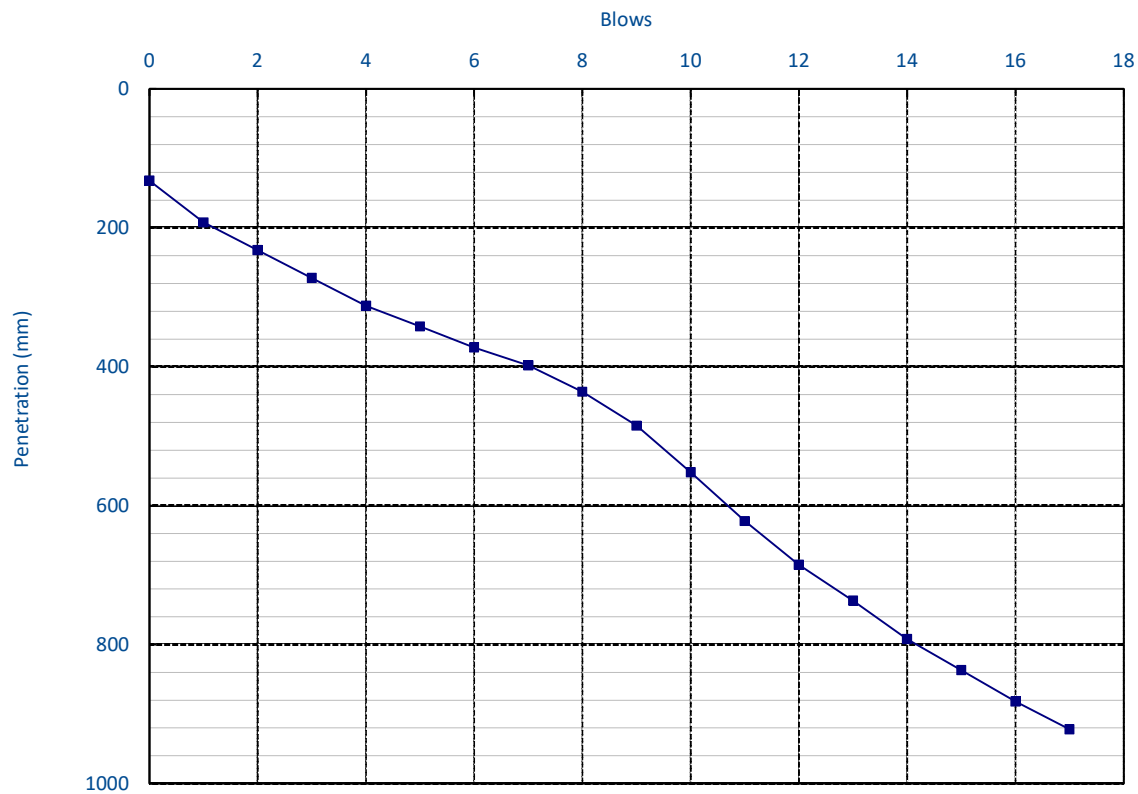


T: 01604 781811

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W: www.jppuk.net

Test Location - DCP01



Layer	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Strata
1	38.00	6	304	436	Made Ground
2	54.00	4.5	486	922	Relic Topsoil/Made Ground

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

DYNAMIC CONE PENETROMETER (DCP) RESULTS

Project Name: Philips High School

Project No: 30447

Client: Labosport

Depth of Test : G.L.

Calcs By : AH

Date : 20 November 2025

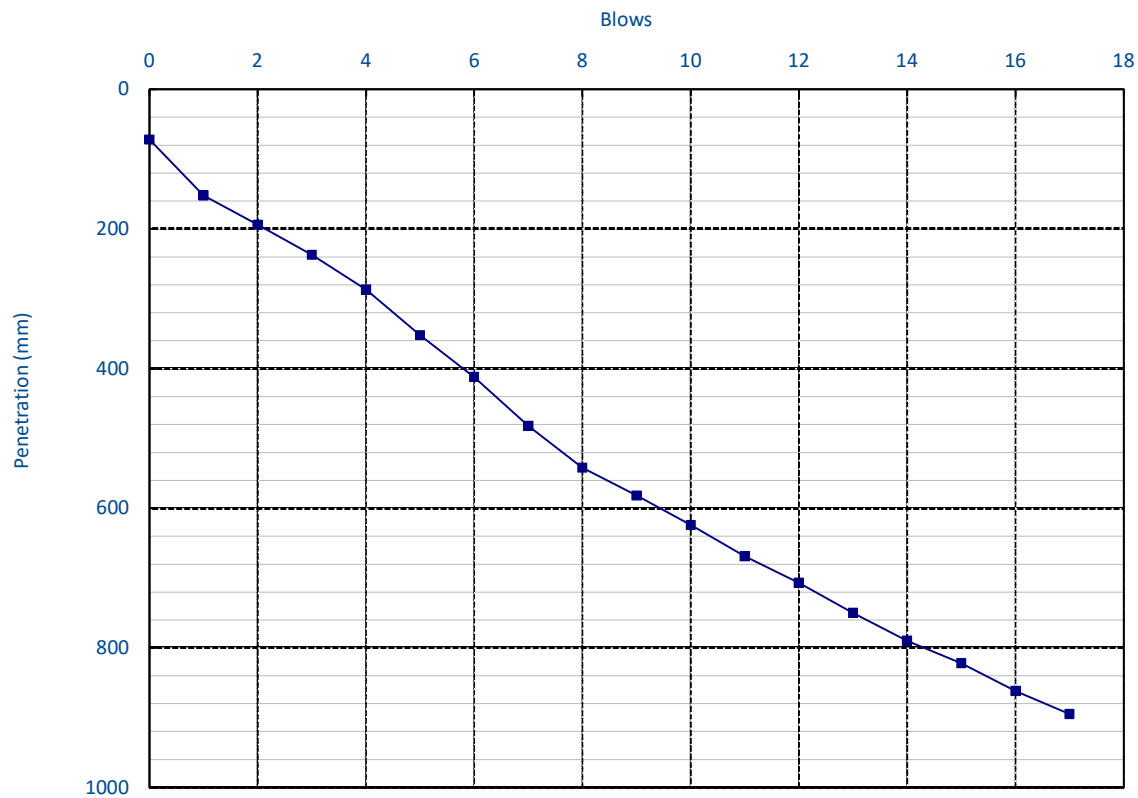


T: 01604 781811

E: mail@jppuk.net

W: www.jppuk.net

Test Location - DCP02



Layer	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Strata
1	56.00	4.3	280	352	Topsoil
2	45.25	5	543	895	Devensian Till

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

DYNAMIC CONE PENETROMETER (DCP) RESULTS

Project Name: Philips High School

Project No: 30447

Client: Labosport

Depth of Test : G.L.

Calcs By : AH

Date : 20 November 2025

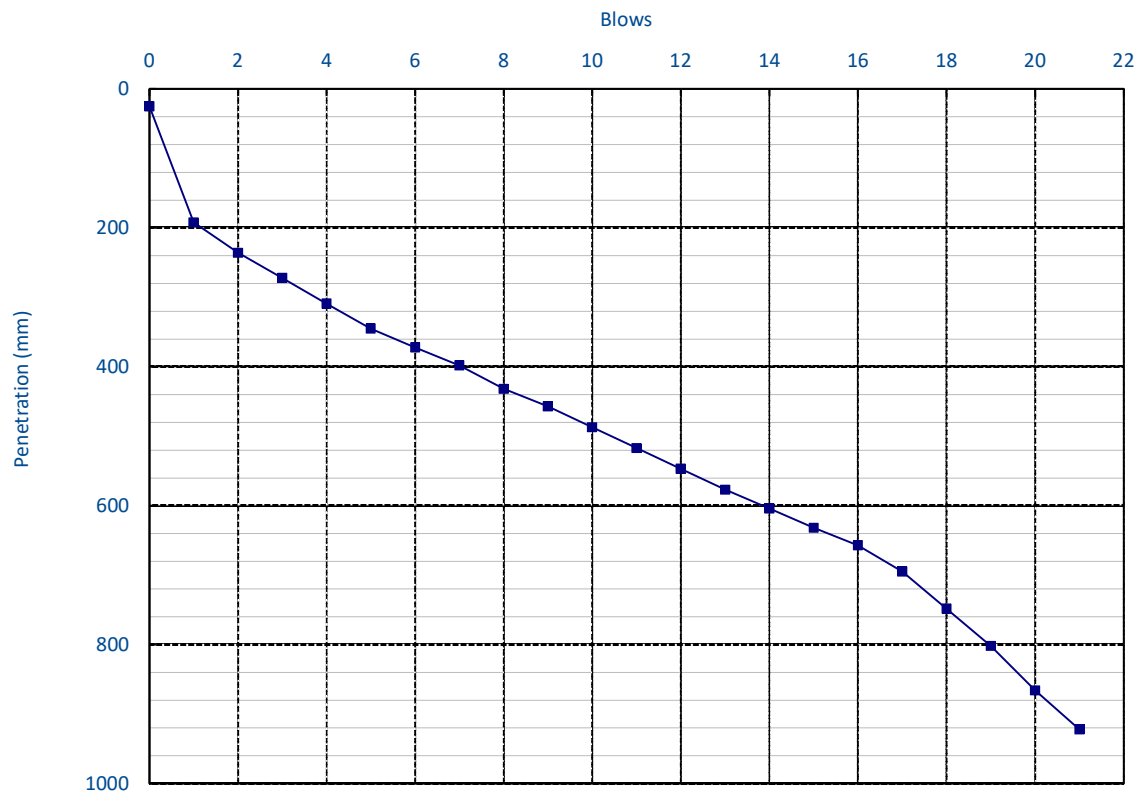


T: 01604 781811

E: mail@jppuk.net

W: www.jppuk.net

Test Location - DCP03



Layer	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Strata
1	167.00	1.4	167	192	Topsoil
2	31.44	8	503	695	Made Ground
3	56.75	4.2	227	922	Made Ground

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

DYNAMIC CONE PENETROMETER (DCP) RESULTS

Project Name: Philips High School

Project No: 30447

Client: Labosport

Depth of Test : G.L.

Calcs By : AH

Date : 20 November 2025

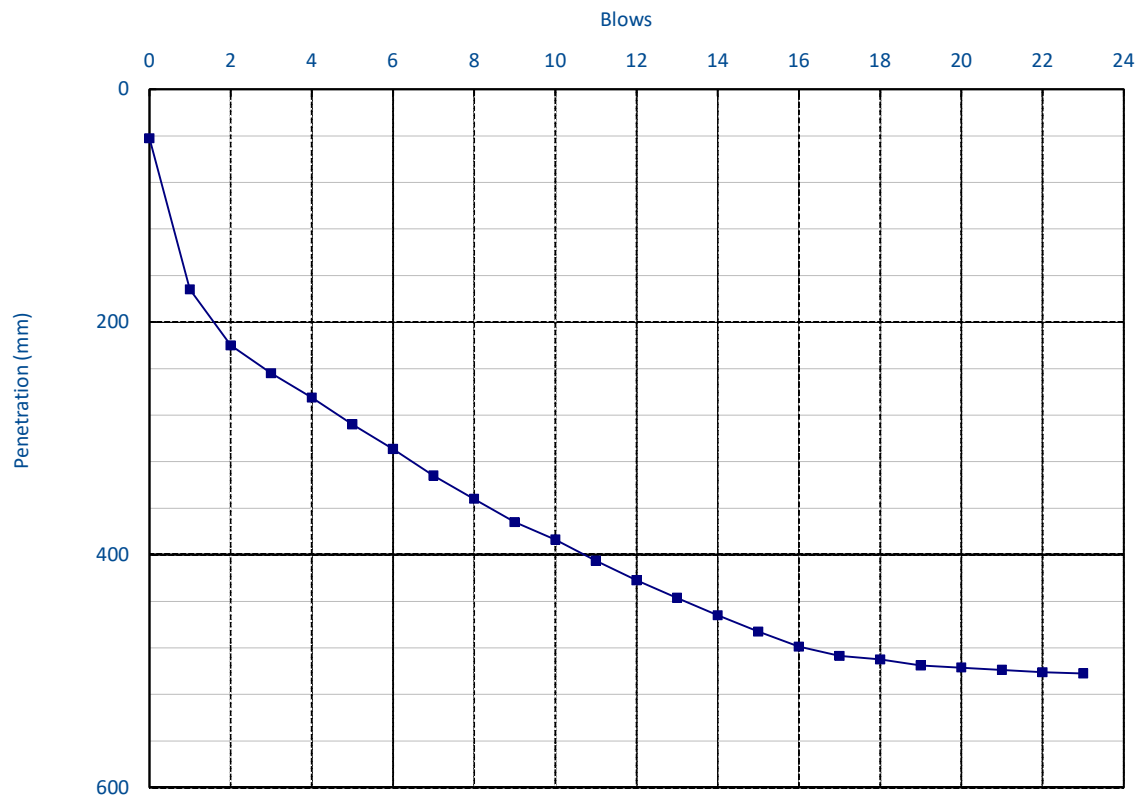


T: 01604 781811

E: mail@jppuk.net

W: www.jppuk.net

Test Location - DCP04



Layer	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Strata
1	130.00	1.8	130	172	Topsoil
2	20.47	12	307	479	Devensian Till
3	3.29	86	23	502	Devensian Till

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

DYNAMIC CONE PENETROMETER (DCP) RESULTS

Project Name: Philips High School

Project No: 30447

Client: Labosport

Depth of Test : G.L.

Calcs By : AH

Date : 20 November 2025

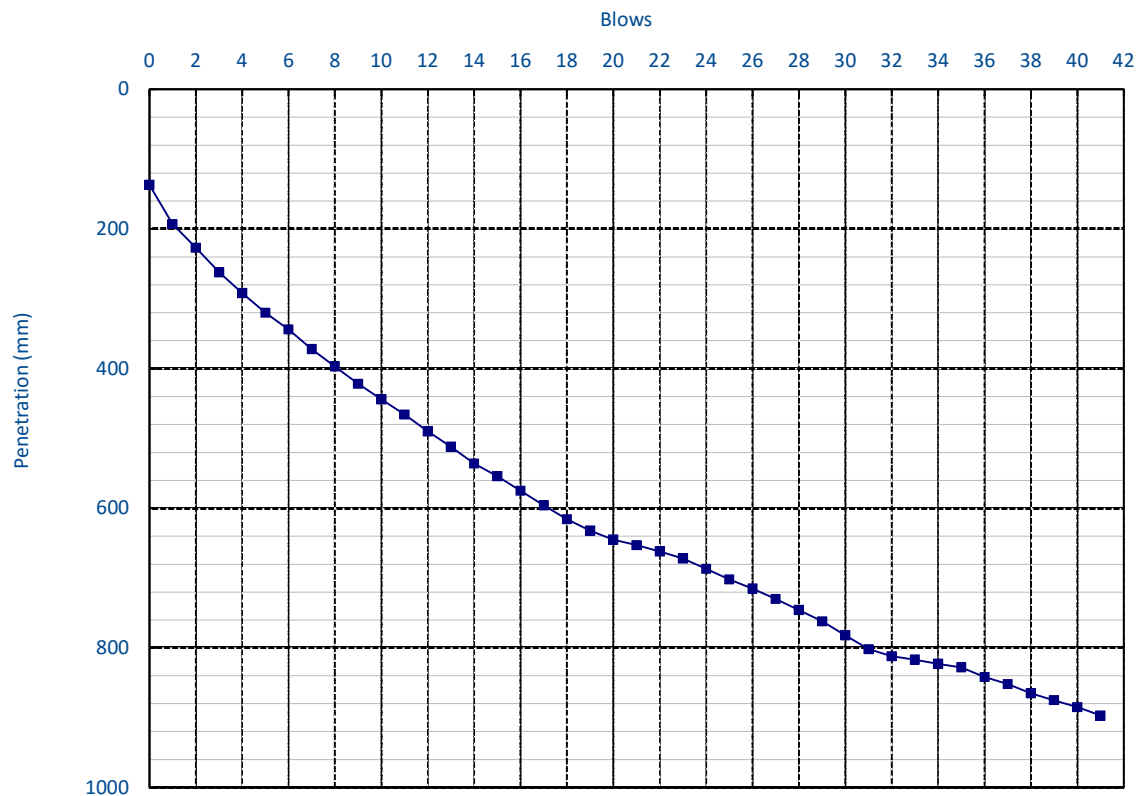


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E: mail@jppuk.net

W: www.jppuk.net

Test Location - DCP05



Layer	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Strata
1	45.00	5	90	227	Topsoil
2	19.83	13	575	802	Devensian Till
3	9.50	28	95	897	Devensian Till

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Appendix C

Laboratory Testing and Analysis



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022,
cl 5.3, 6



4041

Client: JPP
Client Address: Grand Union Works, Whilton Locks,
Daventry, NN11 2NH

Contact: Amy Hesketh
Site Address: Philips High School

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

Client Reference: 30447
Job Number: 25-064408-1
Date Sampled: 20/11/2025
Date Received: 28/11/2025
Date Tested: 05/12/2025
Sampled By: Not Given

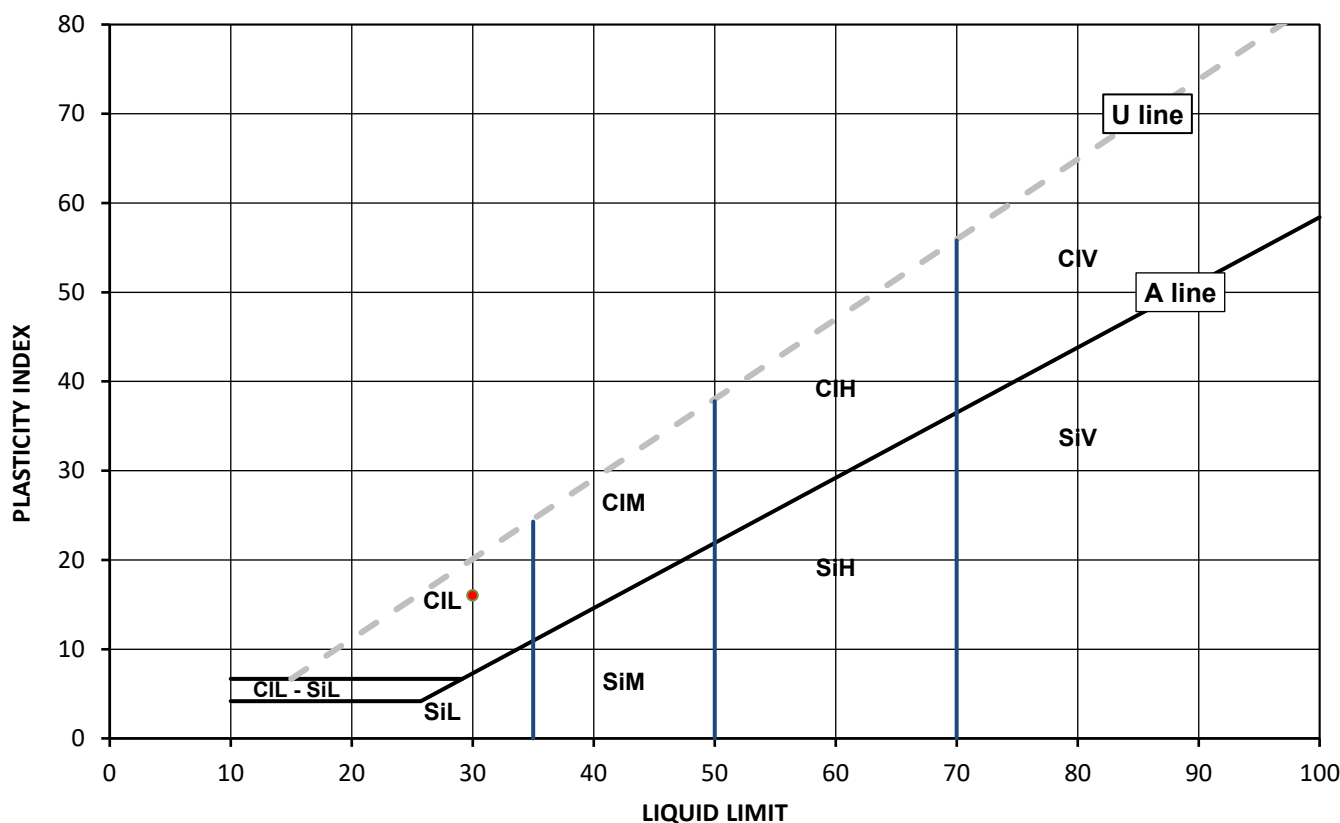
Test Results:

Laboratory Reference: 764728
Hole No.: WS06
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.60
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
16.9	30	1.016	14	16	0.19	0.81	87



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

Plasticity		Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
		50 to 70
		exceeding 70
O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

Remarks:

Signed:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Katarzyna Koziel

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

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022,
cl 5.3, 6

4041

Client: JPP
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Contact: Amy Hesketh
Site Address: Philips High School

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

Client Reference: 30447
Job Number: 25-064408-1
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Date Tested: 05/12/2025
Sampled By: Not Given

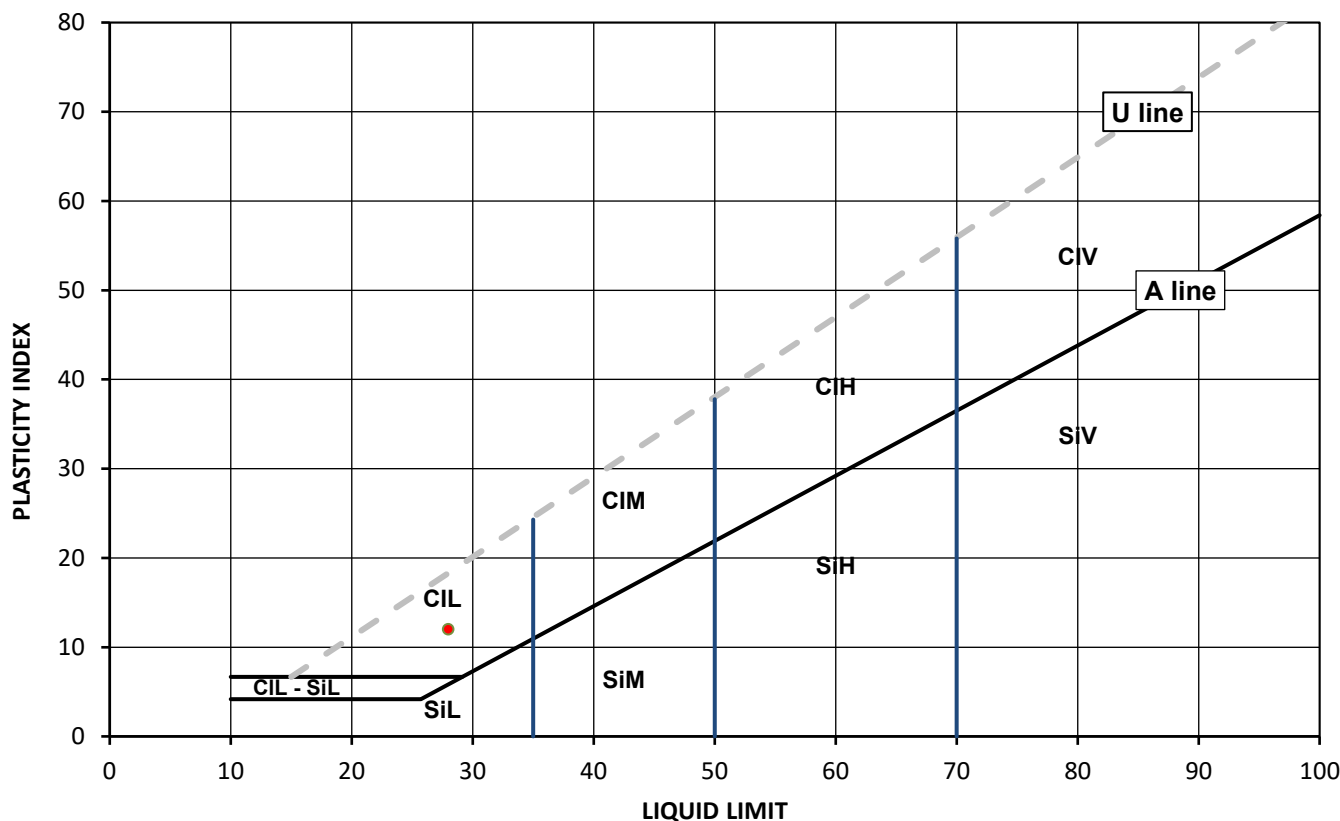
Test Results:

Laboratory Reference: 764729
Hole No.: WS03
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.70
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
25.3	28	0.971	16	12	0.75	0.25	91



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

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
		50 to 70
		exceeding 70
		append to classification for organic material (eg ClHO)

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

Remarks:

Signed:

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Geotechnical Reporting Team Leader
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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022,
cl 5.3, 6

4041

Client: JPP
Client Address: Grand Union Works, Whilton Locks,
Daventry, NN11 2NH

Contact: Amy Hesketh
Site Address: Philips High School

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

Client Reference: 30447
Job Number: 25-064408-1
Date Sampled: 20/11/2025
Date Received: 28/11/2025
Date Tested: 05/12/2025
Sampled By: Not Given

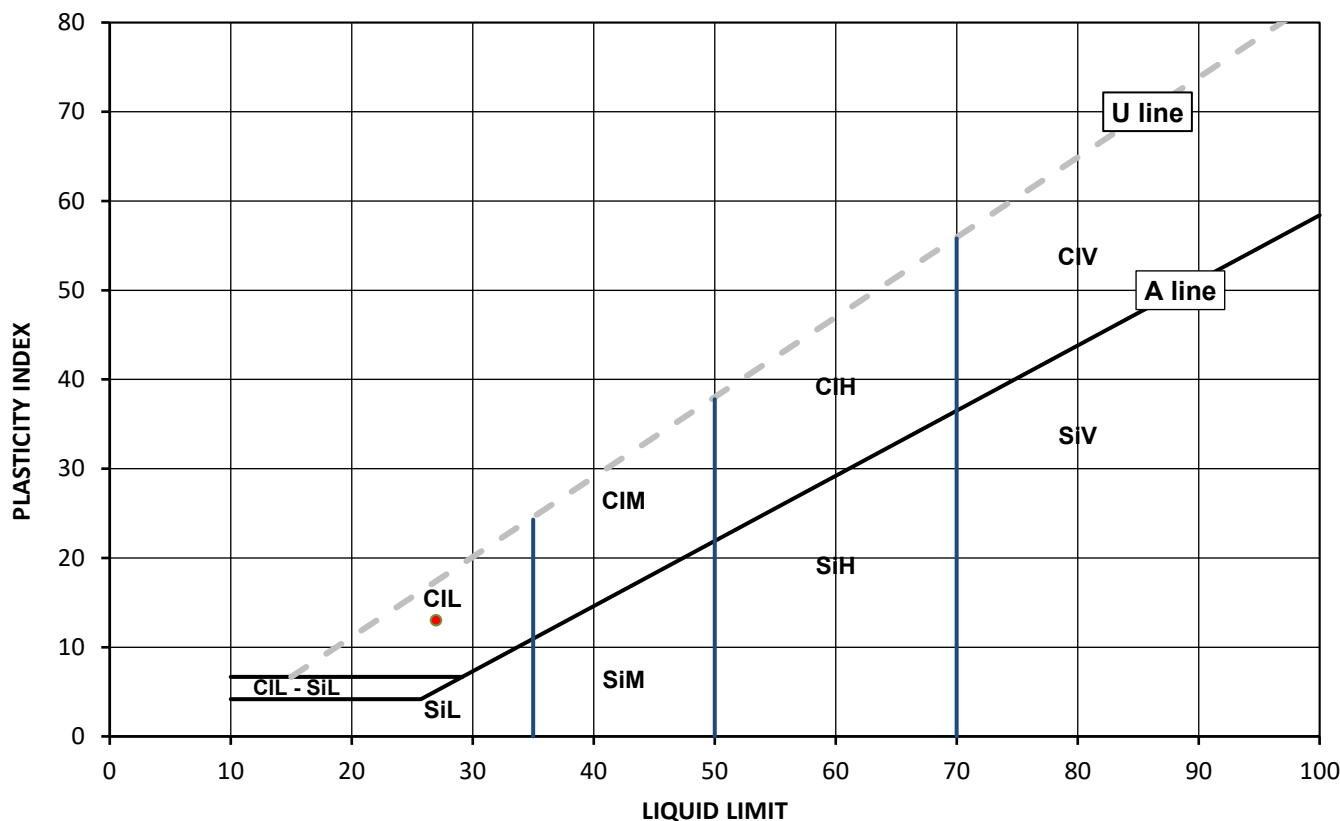
Test Results:

Laboratory Reference: 764730
Hole No.: WS05
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.40
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >0.425 mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
15.7	27	1.015	14	13	0.15	0.85	90



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

Remarks:

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS



Tested in Accordance with:

4041

Client: JPP
Client Address: Grand Union Works, Whilton Locks,
Daventry, NN11 2NH

BS EN ISO 17892-12:2018+A2:2022, cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022, cl 5.3, 6. Correlation Factor by Clayton C.R.I and Jukes A.W (1978). W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: 30447
Job Number: 25-064408-1
Date Sampled: 20/11/2025
Date Received: 28/11/2025
Date Tested: 05/12/2025
Sampled By: Not Given

Contact: Amy Hesketh
Site Address: Philips High School

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	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD	
			m	m															Mg/m3
764728	WS06	Not Given	1.60	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	16.9	87	30	1.016	14	16	80g/30 deg	R				
764729	WS03	Not Given	0.70	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	25.3	91	28	0.971	16	12	80g/30 deg	R				
764730	WS05	Not Given	0.40	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	15.7	90	27	1.015	14	13	80g/30 deg	WR				

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; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Katarzyna Koziel

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

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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



Client: JPP
Client Address: Grand Union Works, Whilton Locks,
Daventry, NN11 2NH

Contact: Amy Hesketh
Site Address: Philips High School

Client Reference: 30447
Job Number: 25-064408-1
Date Sampled: 20/11/2025
Date Received: 28/11/2025
Date Tested: 05/12/2025
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															
764728	WS06	Not Given	1.60	Not Given	D	Brown slightly gravelly very sandy CLAY		16.9												
764729	WS03	Not Given	0.70	Not Given	D	Brown slightly gravelly very sandy CLAY		25.3												
764730	WS05	Not Given	0.40	Not Given	D	Brown slightly gravelly very sandy CLAY		15.7												

Comments:

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

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Analytical Report Number : 25-064472

Project / Site name:	Philips High School	Samples received on:	28/11/2025
Your job number:	30447	Samples instructed on/ Analysis started on:	28/11/2025
Your order number:		Analysis completed by:	05/12/2025
Report Issue Number:	1	Report issued on:	05/12/2025
Samples Analysed:	3 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-064472
Project / Site name: Philips High School

Lab Sample Number	765104	765105	765106
Sample Reference	WS06	WS05	WS04
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	0.60	0.80	0.50
Date Sampled	20/11/2025	20/11/2025	20/11/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	10	16
Total mass of sample received	kg	0.1	NONE	1.8	1.6	1.2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	5.4	5.9	6.8
Total Sulphate as SO ₄	%	0.005	MCERTS	0.017	0.021	0.023
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	43	49	15
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	21.7	24.6	7.24
Total Sulphur	mg/kg	50	MCERTS	140	680	190
Total Sulphur	%	0.005	MCERTS	0.014	0.068	0.019

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-064472
Project / Site name: Philips High School

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
765104	WS06	None Supplied	0.6	Brown clay and sand
765105	WS05	None Supplied	0.8	Brown clay and sand with gravel
765106	WS04	None Supplied	0.5	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-064472
Project / Site name: Philips High School

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 25-064469

Project / Site name:	Phillips High School	Samples received on:	28/11/2025
Your job number:	30447	Samples instructed on/ Analysis started on:	28/11/2025
Your order number:		Analysis completed by:	09/12/2025
Report Issue Number:	1	Report issued on:	09/12/2025
Samples Analysed:	1 soil sample		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

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leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
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Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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Watford, WD18 8YS

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Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Fail BS 3882							client	
Report No:	25-064469						JPP		
Location	Phillips High School								
Lab Reference (Sample Number)	765100								
Sampling Date	20/11/2025								
Sample ID	TS Comp								
Depth (m)	0.05			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	LOAMY SAND	N	N	N	N	N	N
Maximum coarse fragment content:	>2mm	%m/m	7.10	Y	Y	Y	Y	Y	Y
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	7.60						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	6.10	Y	N	N	Y	N	N
Carbonate:		%m/m	3.80	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.24	Y	Y	Y	-	-	-
	Extractable Phosphate (as P)	mg/l	12.00	N	N	N	Y	Y	Y
	Extractable Potassium	mg/l	62.10	N	N	N	-	-	-
	Extractable Magnesium	mg/l	58.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	18.66	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	1700.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	99.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	51.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	20.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Fail	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation

** = MCERTS accredited

Analytical Report Number : 25-064469
Project / Site name: Phillips High School

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
765100	TS Comp	B	0.05-0.20	Brown loam and sand with gravel and vegetation

Analytical Report Number : 25-064469
Project / Site name: Phillips High School

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Coarse Fragment and Contaminant Analysis	Determination of >2mm contaminants	BS3882:2007 & BS8601:2013 & PAS 100:2005	L019B	D	NONE
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Conductivity (BS 3882/BS 8601)	Determination of the conductivity of soil in accordance with BS 3882:2007 methodology CaSO ₄ extract	BS 3882:2007 & BS 8601:2013	L031B	D	NONE
Carbonate (Topsoil - BS 3882)	Determination of Carbonate as per BS 3882:2015	Method based on BS 3882:2015	L034-PL	D	NONE
Extractable/Available Metals (BS 3882/BS 8601)	Determination of the extractable metals in soil, in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L038B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Carbon to Nitrogen Ratio (Topsoil - BS3882:2015)	Carbon to Nitrogen ratio (:1) calculated using Loss on Ignition	BS3882:2015	L047-PL/L087B	W	NONE
Mass loss on ignition (Topsoil - BS 3882)	Determination of Loss on Ignition as per BS 3882:2015	Method based on BS 3882:2015	L047-PL	D	NONE
Phosphorus as PO ₄ (BS 3882/BS 8601)	Determination of the extractable phosphorus in soil, in accordance with BS 3882:2007 methodology	Method based on BS 3882:2015 & BS 8601:2013	L048B	D	NONE
Kjeldahl nitrogen in soil	Determination of total nitrogen using the Kjeldahl-digestion method and ion selective electrode	In-house method based on BS 7755-3.7:1995	L087B	D	NONE
pH (BS 3882/BS 8601)	Determination of the pH of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L099-PL	D	NONE
Topsoil (BS 3882:2015)	Specification for topsoil	BS 3882:2015	PL		NONE
Textural Classification Diagram (BS 3882:2015)	BS 3882:2015	BS 3882:2015	PL		NONE
Geotechnical Testing	See attached geotechnical report	See attached geotechnical report	PL		NONE

Analytical Report Number : 25-064469
Project / Site name: Phillips High School

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015



Client: JPP
Client Address: Grand Union Works, Whilton Locks,
Daventry, NN11 2NH

Contact: Amy Hesketh
Site Address: Phillips High School

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

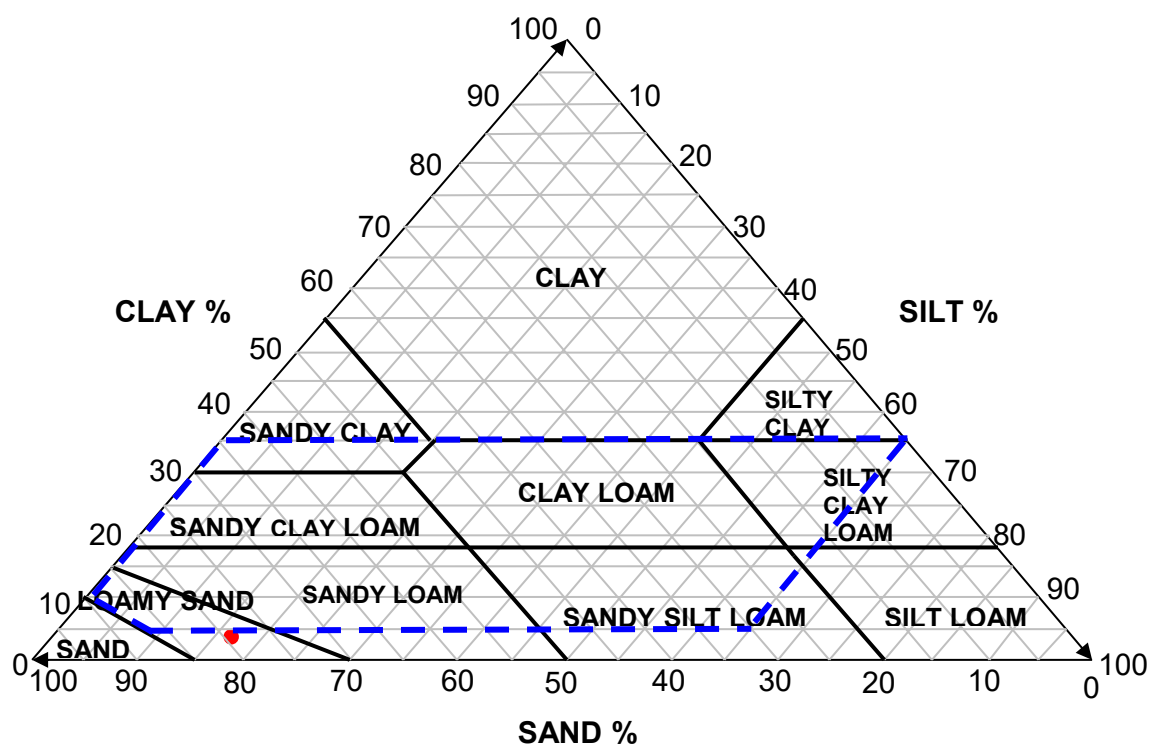
Client Reference: 30447
Job Number: 25-064469-1
Date Sampled: 20/11/2025
Date Received: 28/11/2025
Date Tested: 05/12/2025
Sampled By: Not Given

Test Results:

Laboratory Reference: 765100
Hole No.: TS Comp
Sample Reference: B
Sample Description: LOAMY SAND

Depth Top [m]: 0.05
Depth Base [m]: 0.20
Sample Type: D

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	79.9
Silt	15.4
Clay	4.7

Texture within acceptable area (Y/N)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Katarzyna Banys

Katarzyna Banys
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Grand Union Works
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Analytical Report Number : 25-064468

Project / Site name:	Phillips High School	Samples received on:	28/11/2025
Your job number:	30447	Samples instructed on/ Analysis started on:	28/11/2025
Your order number:		Analysis completed by:	09/12/2025
Report Issue Number:	1	Report issued on:	09/12/2025
Samples Analysed:	2 soil samples - 1 leachate sample		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-064468
Project / Site name: Phillips High School

Lab Sample Number				765098	765099
Sample Reference				TS Comp	MG Comp
Sample Number				ES	ES
Water Matrix				N/A	N/A
Depth (m)				0.05-0.20	0.30-0.70
Date Sampled				20/11/2025	20/11/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	24	12
Total mass of sample received	kg	0.1	NONE	0.6	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WIK	WIK
Analysis completed	N/A	N/A	N/A	06/12/2025	06/12/2025

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	7.2
pH (L099)	pH Units	N/A	MCERTS	5.5	5.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	920	280
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	48	12
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	24	6.18
Organic Matter (automated)	%	0.1	MCERTS	7.4	2.4
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	1.4
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	3.8
Acid Neutralisation Capacity	mmol/kg	+/- 9999	NONE	-	1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.52	0.1
Anthracene	mg/kg	0.05	MCERTS	0.12	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.4	0.17
Pyrene	mg/kg	0.05	MCERTS	1.3	0.19
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.67	0.1
Chrysene	mg/kg	0.05	MCERTS	0.76	0.12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.84	0.11
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.45	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.74	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.34	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.34	< 0.05
Coronene	mg/kg	0.05	NONE	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.62	0.9
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	0.9

Analytical Report Number: 25-064468
Project / Site name: Phillips High School

Lab Sample Number				765098	765099
Sample Reference				TS Comp	MG Comp
Sample Number				ES	ES
Water Matrix				N/A	N/A
Depth (m)				0.05-0.20	0.30-0.70
Date Sampled				20/11/2025	20/11/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	11
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S ^{U/S} g	U/S ^{U/S} g
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	< 1.80	< 1.80
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	39	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	72	65
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	74	59

Petroleum Hydrocarbons

Mineral Oil (EC10 - EC40) _{EH_CU_10_AL}	mg/kg	10	NONE	-	< 10
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VOCs

Benzene	µg/kg	5	MCERTS	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	-	< 5.0

Total BTEX	µg/kg	10	MCERTS	-	< 10
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PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	-	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	-	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	-	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	-	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	-	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	-	< 0.001

Total PCBs	mg/kg	0.007	MCERTS	-	< 0.007
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-064468
Project / Site name: Phillips High School

Lab Sample Number					765099
Sample Reference					MG Comp
Sample Number					ES
Water Matrix					N/A
Depth (m)					0.30-0.70
Date Sampled					20/11/2025
Time Taken					None Supplied
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

10:1 WAC Leachate

Arsenic	mg/l	0.001	ISO 17025	0.00382
Barium	mg/l	0.00005	ISO 17025	0.00734
Cadmium	mg/l	0.0001	ISO 17025	0.000127
Chromium	mg/l	0.0004	ISO 17025	< 0.00040
Copper	mg/l	0.0007	ISO 17025	0.014
Mercury	mg/l	0.0005	ISO 17025	< 0.000500
Molybdenum	mg/l	0.0004	ISO 17025	< 0.000400
Nickel	mg/l	0.0003	ISO 17025	< 0.00030
Lead	mg/l	0.001	ISO 17025	< 0.0010
Antimony	mg/l	0.0017	ISO 17025	< 0.0017
Selenium	mg/l	0.004	ISO 17025	< 0.0040
Zinc	mg/l	0.0004	ISO 17025	0.007
Chloride	mg/l	0.15	ISO 17025	1
Fluoride	mg/l	0.05	ISO 17025	0.22
Sulphate	mg/l	0.045	ISO 17025	1.5
Total dissolved solids	mg/l	6	ISO 17025	12
Total monohydric phenols	mg/l	0.01	ISO 17025	< 0.010
Dissolved organic carbon	mg/l	0.1	NONE	8.72

10:1 WAC Leachate

Arsenic	mg/kg	0.01	NONE	0.0382
Barium	mg/kg	0.0005	NONE	0.0734
Cadmium	mg/kg	0.001	NONE	0.00127
Chromium	mg/kg	0.004	NONE	< 0.0040
Copper	mg/kg	0.007	NONE	0.14
Mercury	mg/kg	0.005	NONE	< 0.00500
Molybdenum	mg/kg	0.004	NONE	< 0.00400
Nickel	mg/kg	0.003	NONE	< 0.0030
Lead	mg/kg	0.01	NONE	< 0.010
Antimony	mg/kg	0.017	NONE	< 0.017
Selenium	mg/kg	0.04	NONE	< 0.040
Zinc	mg/kg	0.004	NONE	0.07
Chloride	mg/kg	1.5	NONE	10
Fluoride	mg/kg	0.5	NONE	2.2
Sulphate	mg/kg	0.45	NONE	15
Total dissolved solids	mg/kg	60	NONE	120
Total monohydric phenols	mg/kg	0.1	NONE	< 0.10
Dissolved organic carbon	mg/kg	1	NONE	87.2

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

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Waste Acceptance Criteria Analytical Results

Report No:		25-064468					
					Client: JPP		
Location		Phillips High School					
Lab Reference (Sample Number)		765099			Landfill Waste Acceptance Criteria		
Sampling Date		20/11/2025			Limits		
Sample ID		MG Comp ES			Inert Waste Landfill	Stable Non- reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Depth (m)		0.30-0.70					
Solid Waste Analysis							
TOC (%)**		1.4			3%	5%	6%
Loss on Ignition (%) **		3.8			--	--	10%
BTEX (µg/kg) **		< 10			6000	--	--
Sum of PCBs (mg/kg) **		< 0.007			1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL		< 10			500	--	--
Total PAH (WAC-17) (mg/kg)		0.9			100	--	--
pH (units)**		7.2			--	>6	--
Acid Neutralisation Capacity (mmol / kg)		1			--	To be evaluated	To be evaluated
Eluate Analysis		10:1		10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)		mg/l			using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
		mg/kg					
Arsenic *		0.00382		0.0382	0.5	2	25
Barium *		0.00734		0.0734	20	100	300
Cadmium *		0.000127		0.00127	0.04	1	5
Chromium *		< 0.00040		< 0.0040	0.5	10	70
Copper *		0.014		0.14	2	50	100
Mercury *		< 0.000500		< 0.00500	0.01	0.2	2
Molybdenum *		< 0.000400		< 0.00400	0.5	10	30
Nickel *		< 0.00030		< 0.0030	0.4	10	40
Lead *		< 0.0010		< 0.010	0.5	10	50
Antimony *		< 0.0017		< 0.017	0.06	0.7	5
Selenium *		< 0.0040		< 0.040	0.1	0.5	7
Zinc *		0.007		0.07	4	50	200
Chloride *		1		10	800	15000	25000
Fluoride*		0.22		2.2	10	150	500
Sulphate *		1.5		15	1000	20000	50000
TDS*		12		120	4000	60000	100000
Phenol Index (Monohydric Phenols) *		< 0.010		< 0.10	1	-	-
DOC		8.72		87.2	500	800	1000
Leach Test Information							
Stone Content (%)		< 0.1					
Sample Mass (kg)		0.6					
Dry Matter (%)		88					
Moisture (%)		12					

Analytical Report Number : 25-064468
Project / Site name: Phillips High School

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
765098	TS Comp	ES	0.05-0.20	Brown loam and sand with gravel and vegetation
765099	MG Comp	ES	0.30-0.70	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-064468
Project / Site name: Phillips High School

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS

Analytical Report Number : 25-064468
Project / Site name: Phillips High School

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
One stage WAC 10:1 leachate preparation	One stage batch test at a liquid to solid ratio of 10 L/kg	BS EN 12457-2-2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	NONE
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

Analytical Report Number : 25-064468

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This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
MG Comp	ES	L	765099	b	One stage WAC 10:1 leachate preparation	L043B	b
MG Comp	ES	S	765099	b	BTEX and/or Volatile organic compounds in soil	L073B	b

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



EQURD-I0O24-V18J3

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in **pale yellow**.

Report is invalid if pages are removed.

Job name

30447 - Philips High School

Description/Comments

Project

Site

Manchester

Classified by

Name: **Libby Rogers**
Date: **12 Jan 2026 08:37 GMT**
Telephone: **01604 781811**
Company: **JPP Geotechnical & Environmental Ltd**
Grand Union Works
Whilton Locks
Daventry
NN11 2NH

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification

Date

04 Dec 2025

Next 3 year Refresher due by Dec 2028

Purpose of classification

2 - Material Characterisation

Address of the waste

Higher Ln, Whitefield, Mancheste

Post Code **M45 7PH**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Development of playing field

Description of the specific process, sub-process and/or activity that created the waste

Waste created during construction of proposed AGP pitch

Description of the waste

Topsoil



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TS Comp	0.05-0.2	Non Hazardous		3

Related documents

#	Name	Description
1	Example worst case waste stream template: 17 05 04 or 17 05 03 *	waste stream template used to create this Job

Report

Created by: Libby Rogers

Created date: 12 Jan 2026 08:37 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	5
Appendix B: Rationale for selection of metal species	6
Appendix C: Version	6

Classification of sample: TS Comp

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TS Comp	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.05-0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
24%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				17 mg/kg	1.895	32.207	mg/kg	0.00322 %		
	033-005-00-1										
2	cadmium { cadmium sulfate }				0.6 mg/kg	1.855	1.113	mg/kg	0.000111 %		
	048-009-00-9	233-331-6	10124-36-4								
3	chromium in Cr(III) compounds { dichromium tris(chromate); chromium III chromate; chromic chromate }				<1.8 mg/kg	4.346	<7.823	mg/kg	<0.000782 %		<LOD
	024-010-00-X	246-356-2	24613-89-6								
4	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				21 mg/kg	2.27	47.67	mg/kg	0.00477 %		
	024-017-00-8										
5	copper { copper sulphate pentahydrate }				39 mg/kg	3.929	153.233	mg/kg	0.0153 %		
	029-023-00-4	231-847-6	7758-99-8								
6	lead { lead chromate }			1	72 mg/kg	1.56	112.307	mg/kg	0.0072 %		
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel dibromate }				13 mg/kg	5.358	69.658	mg/kg	0.00697 %		
	028-053-00-5	238-596-1	14550-87-9								
9	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
10	zinc { zinc chromate }				74 mg/kg	2.774	205.287	mg/kg	0.0205 %		
	024-007-00-3	236-878-9	13530-65-9								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5										
12	pH				5.5 pH		5.5	pH	5.5 pH		
13	naphthalene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3								