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VERIFICATION REPORT

FOR

GRASMERE COURT,
PALMERSTON ROAD,
N22 8QR



JOMAS ASSOCIATES LTD
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Report Title: **Verification Report for Grasmere Court, Palmerston Road, N22 8QR**

Report Status: **Final**

Job No: **P3108J2129b/CLP/DJH**

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Quality Control: Revisions

Version	Date	Issued By	Comment

Prepared by: JOMAS ASSOCIATES LTD **For: INDECON BUILDING LIMITED**

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CONTENTS

Page

1 INTRODUCTION 4
1.1 Terms of Reference 4
1.2 Development 4
1.3 Background 4
1.4 Previous Reports 5
1.5 Ground Investigation 6
1.6 Remedial Strategy & Verification Plan 6
1.7 Limitations 6
2 IMPORTED SOIL COVER LAYER VERIFICATION 8
2.2 Verification Test Results 10
2.3 Asbestos 12
2.4 Conclusions 12
3 SITE OBSERVATIONS - OTHERS 13
3.1 Utilities Pipework 13
3.2 Evidence of Previously Uncharacterised Contamination 13
3.3 Waste Disposal 13
4 CONCLUSIONS & OUTSTANDING WORKS 14
4.1 Conclusions 14
5 REFERENCES 15
APPENDICES 16
APPENDIX 1 – FIGURES
APPENDIX 2 – LABORATORY CHEMICAL TEST DATA (TOPSOIL VALIDATION TESTING)

APPENDIX 3 – TRANSFER NOTES FOR WASTE DISPOSAL OFF-SITE

APPENDIX 4 – CLIENT CONFIRMATIONS

1 INTRODUCTION

1.1 Terms of Reference

1.1.1 Indecon Building Limited ("The Client") has commissioned Jomas Associates Ltd ('Jomas'), to produce a verification report for the site at Grasmere Court, Palmerston Road, N22 8QR following redevelopment of the site completion of the require remedial measures.

1.1.2 The site location plan is provided as Figure 1, Appendix 1.

1.2 Development

1.2.1 The site has undergone redevelopment comprising the demolition of the previous car park and domestic garages to facilitate the construction of three terrace residential units up to three storeys high including private gardens. Proposed development plans are presented as Figures 2.

1.3 Background

1.3.1 Development permission has been granted by the London Borough of Haringey with a number of conditions relating to various requirements.

1.3.2 Planning Conditions 4 and 5 of application ref HGY/2024/2098, relate to land contamination matters, as reproduced below

Condition 4:

Before development commences other than for investigative work:

a. *Using the information already submitted on the Desk Study/Preliminary Risk Assessment Report with reference P3108J21291TE prepared by JOMAS Associates Ltd dated 9th December 2020, an intrusive site investigation shall be conducted for the site using information obtained from the desktop study and Conceptual Model. The site investigation must be comprehensive enough to enable; a risk assessment to be undertaken, refinement of the Conceptual Model, and the development of a Method Statement detailing the remediation requirements*

b. *The risk assessment and refined Conceptual Model shall be submitted, along with the site investigation report, to the Local Planning Authority which shall be submitted to, and approved in writing by, the Local Planning Authority prior to that remediation being carried out on site.*

c. *Where remediation of contamination on the site is required, completion of the remediation detailed in the method statement shall be carried out and*

d. *A report that provides verification that the required works have been carried out, shall be submitted to, and approved in writing by the Local Planning Authority before the development is occupied.*

Reason: To ensure the development can be implemented and occupied with adequate regard for environmental and public safety.

Condition 5:

If, during development, contamination not previously identified is found to be present at the site then no further development (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until a remediation strategy detailing how this contamination will be dealt with has been submitted to and approved in writing by the Local Planning Authority. The remediation strategy shall be implemented as approved.

Reasons: To ensure that the development is not put at unacceptable risk from, or adversely affected by, unacceptable levels water pollution from previously unidentified contamination sources at the development site in line with paragraph 189 of the National Planning Policy Framework.

1.3.3 Condition 4 Part a and b have been previously addressed by the referenced Ground Investigation report. A Remediation Strategy report was subsequently prepared to address Condition 4 Part C and set out the remedial works required to bring the site into a condition suitable for the proposed end use.

1.3.4 This Verification Report has been prepared following completion of the remedial works set out within the Remediation Strategy. The purpose of this report is to provide verification of the works undertaken and demonstrate compliance with the requirements of Condition 4 Part C and D and Condition 5.

1.3.5 The planning decision notice is included within Appendix 2.

1.4 Previous Reports

1.4.1 A number of reports have been undertaken for the site by Jomas Associates, in support of discharge of this condition. Table 1.1 details previously issued reports pertaining to the site, which should be read in conjunction with this document:

Table 1.1: Previous Reports

Title	Author	Reference	Date
Remediation Options Appraisal, Strategy & Verification Plan for Grasmere Court, Palmerston Road, London, N22 8QR	Jomas Associates Ltd	P3108J2129b	29th September 2018
Desk Study/Preliminary Risk Assessment Report for Grasmere Court, Palmerston Road, Wood Green, London, N22 8QR	Jomas Associates Ltd	P31808J2129/TE	9th December 2020
Geo-environmental & Geotechnical Assessment Ground Investigation Report for Grasmere Court, Palmerston Road, Wood Green, London, N22 8QR	Jomas Associates Ltd	P31808J2129/TE	21st October 2021
Basic Geotechnical Assessment Report for Grasmere Court, Palmerston Road, N22 8QR	Jomas Associates Ltd	P3108J2129b	10th December 2025

1.5 Ground Investigation

1.5.1 The ground investigation reported concentrations of lead, benzo(a)anthracene, chrysene, benzo(b)fluoranthene benzo(a)pyrene, indeno(1,2,3-cd)pyrene and dibenzo(ah)anthracene in soils in excess of generic assessment criteria for the protection of human health within a residential with plant uptake end-use scenario. No presence of asbestos was detected within soils on site.

1.5.2 The conclusions of the report indicated that remedial works were required to bring the site into a condition that could be considered suitable for the proposed use.

1.6 Remedial Strategy & Verification Plan

1.6.1 The remedial strategy and verification plan was compiled by Jomas following the findings of the ground investigation report and published as referenced in Table 1.1. A summary of the strategy is provided below, although reference should be made to the full document for details.

1.6.2 The remedial strategy and verification plan determined that the following remedial activities were required:

- Encapsulation beneath hardstanding or building footprint.
- Within areas of soft landscaping, a minimum 450mm thickness of certified clean topsoil laid over a geotextile membrane.
- Validation testing on soils imported to site to confirm the suitability of imported soils for use as a clean capping layer.

1.6.3 This report provides the results of the validation visit and chemical analysis of validation samples to determine whether the remedial measures have been complied with.

1.7 Limitations

1.7.1 Jomas Associates Ltd ('Jomas') has prepared this report for the sole use of Indecon Building Limited in accordance with the generally accepted consulting practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon by any other party without the explicit written agreement of Jomas. No other third-party warranty, expressed or implied, is made as to the professional advice included in this report. This report must be used in its entirety.

1.7.2 The records search was limited to information available from public sources; this information is changing continually and frequently incomplete. Unless Jomas has actual knowledge to the contrary, information obtained from public sources or provided to Jomas by site personnel and other information sources, have been assumed to be correct. Jomas does not assume any liability for the misinterpretation

of information or for items not visible, accessible or present on the subject property at the time of this study.

1.7.3 Whilst every effort has been made to ensure the accuracy of the data supplied, and any analysis derived from it, there may be conditions at the site that have not been disclosed by the investigation and could not therefore be taken into account. As with any site, there may be differences in soil conditions between exploratory hole positions. Furthermore, it should be noted that groundwater conditions may vary due to seasonal and other effects and may at times be significantly different from those measured by the investigation. No liability can be accepted for any such variations in these conditions.

2 IMPORTED SOIL COVER LAYER VERIFICATION

2.1.1 On 24th September 2026 a Jomas engineer attended the site to inspect and validate the areas of completed soft landscaping on site.

2.1.2 Five hand pits were completed within the areas of soft landscaping to examine the imported soils and obtain samples for testing.

2.1.3 Pit locations are as identified on Figure 3. Photographs of the validation visit are provided as Figure 4.

2.1.4 Table 2.1 below summarises the observations made.

Table 2.1: Imported Topsoil Observations

Pit ID	Observations
HTP1	GL – 0.59mbgl: Dark brown sandy gravelly clay. Sand is fine to coarse. Gravel consists of fine, sub-angular to sub-rounded flint and rootlets. (MADE GROUND) Membrane observed at 0.60mbgl.
HTP2	GL – 0.62mbgl: Dark brown sandy gravelly clay. Sand is fine to coarse. Gravel consists of fine, sub-angular to sub-rounded flint and rootlets. (MADE GROUND) Membrane observed at 0.63mbgl.
HTP3	GL – 0.58mbgl: Dark brown sandy gravelly clay. Sand is fine to coarse. Gravel consists of fine, sub-angular to sub-rounded flint and rootlets. (MADE GROUND) Membrane observed at 0.59mbgl.
HTP4	GL – 0.60mbgl: Dark brown sandy gravelly clay. Sand is fine to coarse. Gravel consists of fine, sub-angular to sub-rounded flint and rootlets. (MADE GROUND) Membrane observed at 0.61mbgl
HTP5	GL – 0.59mbgl: Dark brown sandy gravelly clay. Sand is fine to coarse. Gravel consists of fine, sub-angular to sub-rounded flint and rootlets. (MADE GROUND) Membrane observed at 0.60mbgl

2.1.5 4No samples were submitted to a UKAS and MCERTS accredited laboratory for testing against a standard suite of common contaminants and asbestos. Details of the basic suite testing are provided below in Table 2.2.

Table 2.2: Basic Suite of Determinands

DETERMINAND	LIMIT OF DETECTION (mg/kg)	UKAS ACCREDITATION	TECHNIQUE
Arsenic	1	Y (MCERTS)	ICPMS
Cadmium	0.2	Y (MCERTS)	ICPMS
Chromium	1	Y (MCERTS)	ICPMS
Chromium (Hexavalent)	4	Y (MCERTS)	Colorimetry
Lead	1	Y (MCERTS)	ICPMS
Mercury	0.3	Y (MCERTS)	ICPMS
Nickel	1	Y (MCERTS)	ICPMS
Selenium	1	Y (MCERTS)	ICPMS
Copper	1	Y (MCERTS)	ICPMS
Zinc	1	Y (MCERTS)	ICPMS
Boron (Water Soluble)	0.2	Y (MCERTS)	ICPMS
pH Value	0.1 units	Y (MCERTS)	Electrometric
Sulphate (Water Soluble)	0.0125g/l	Y (MCERTS)	Ion Chromatography
Total Cyanide	1	Y (MCERTS)	Colorimetry
Speciated/Total PAH	0.05/0.80	Y (MCERTS)	GCFID
Phenols	1	Y (MCERTS)	HPLC
Total Petroleum Hydrocarbons (banded)	-	N Y (MCERTS)	Gas Chromatography

Table 2.2: Basic Suite of Determinands

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Lead	1	Y (MCERTS)	ICPMS
Mercury	0.3	Y (MCERTS)	ICPMS
Nickel	1	Y (MCERTS)	ICPMS
Selenium	1	Y (MCERTS)	ICPMS
Copper	1	Y (MCERTS)	ICPMS
Zinc	1	Y (MCERTS)	ICPMS
Boron (Water Soluble)	0.2	Y (MCERTS)	ICPMS
pH Value	0.1 units	Y (MCERTS)	Electrometric
Sulphate (Water Soluble)	0.0125g/l	Y (MCERTS)	Ion Chromatography
Total Cyanide	1	Y (MCERTS)	Colorimetry
Speciated/Total PAH	0.05/0.80	Y (MCERTS)	GCFID
Phenols	1	Y (MCERTS)	HPLC
Total Petroleum Hydrocarbons (banded)	-	N Y (MCERTS)	Gas Chromatography

2.2 Verification Test Results

2.2.1 The results of the chemical testing are outlined below in Table 2.4 to **Error! Reference source not found.**. The site-specific criteria used to derive the relevant screening criteria are provided in Table 2.3.

2.2.2 Full laboratory test certificates are provided in Appendix 2.

Table 2.3: Site Specific Data

Input Details	Value
Land Use	Residential with home grown produce
Soil Organic Matter	1%

Table 2.4: Soil Laboratory Analysis Results – Metals, Metalloids, Phenol, Cyanide – Imported Topsoil

Determinand	Unit	No. samples tested	Screening Criteria		Min	Max	No. Exceeding
Arsenic	mg/kg	4	37	S4UL	<10	<10	0
Cadmium	mg/kg	4	11	S4UL	1	1	0
Chromium	mg/kg	4	910	S4UL	14	15	0
Lead	mg/kg	4	200	C4SL	25	25	0
Mercury	mg/kg	4	40	S4UL	<2.5	<2.5	0
Nickel	mg/kg	4	180	S4UL	15	16	0
Copper	mg/kg	4	2400	S4UL	22	22	0
Zinc	mg/kg	4	3700	S4UL	57	59	0
Total Cyanide [B]	mg/kg	4	33	CLEA v 1.06	<1	<1	0
Selenium	mg/kg	4	250	S4UL	<8	<8	0
Boron Water Soluble	mg/kg	4	290	S4UL	<2.5	<2.5	0
Phenols	mg/kg	4	120	S4UL	<1	<1	0

Notes: [B] Generic assessment criteria derived for free inorganic cyanide.

Table 2.5: Soil Laboratory Analysis Results – Polycyclic Aromatic Hydrocarbons (PAHs) – Imported Topsoil

Determinand	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
Naphthalene	mg/kg	4	S4UL	2.3	<0.02	<0.02	0
Acenaphthylene	mg/kg	4	S4UL	170	<0.02	<0.02	0
Acenaphthene	mg/kg	4	S4UL	210	<0.02	<0.02	0
Fluorene	mg/kg	4	S4UL	170	<0.02	<0.02	0
Phenanthrene	mg/kg	4	S4UL	95	0.10	0.16	0
Anthracene	mg/kg	4	S4UL	2400	<0.02	0.03	0
Fluoranthene	mg/kg	4	S4UL	280	0.19	0.32	0
Pyrene	mg/kg	4	S4UL	620	0.16	0.28	0
Benzo(a)anthracene	mg/kg	4	S4UL	7.2	0.08	0.14	0
Chrysene	mg/kg	4	S4UL	15	0.08	0.13	0
Benzo(b)fluoranthene	mg/kg	4	S4UL	2.6	0.10	0.17	0
Benzo(k)fluoranthene	mg/kg	4	S4UL	77	0.04	0.07	0
Benzo(a)pyrene	mg/kg	4	S4UL	2.2	0.09	0.15	0
Indeno(123-cd)pyrene	mg/kg	4	S4UL	27	0.06	0.09	0

Determinand	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
Dibenzo(ah)anthracene	mg/kg	4	S4UL	0.24	<0.02	<0.02	0
Benzo(ghi)perylene	mg/kg	4	S4UL	320	0.08	0.12	0
Total PAH	mg/kg	4	-	-	1.1	1.7	-

Table 2.6: Soil Laboratory Analysis Results – Total Petroleum Hydrocarbons (TPH) – Imported Topsoil

TPH Band	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
C_8-C_{10}	mg/kg	4	S4UL	27	<5.0	<5.0	0
>C_{10}-C_{12}	mg/kg	4	S4UL	74	<5.0	<5.0	0
>C_{12}-C_{16}	mg/kg	4	S4UL	140	<5.0	<5.0	0
>C_{16}-C_{21}	mg/kg	4	S4UL	260	18	25	0
>C_{21}-C_{35}	mg/kg	4	S4UL	1100	220	250	0
Total TPH	mg/kg	4	-	-	300	340	-

Note: *The lower value of guidelines for Aromatic/Aliphatics has been selected

2.3 Asbestos

2.3.1 In addition to the suites above, all 4No samples were screened for the presence of asbestos.

2.3.2 No asbestos was detected in any of the samples tested.

2.4 Conclusions

2.4.1 As shown in the tables above, no contaminants included within the scheduled testing suites returned results above the relevant screening criteria.

2.4.2 On this basis the topsoil is considered suitable and safe for use on site within a 'residential with home grown produce' end-use scenario.

3 SITE OBSERVATIONS - OTHERS

3.1 Utilities Pipework

3.1.1 The client has confirmed that utility pipework has been installed in accordance with the supplier's requirements and provided associated documentation (included in Appendix 4).

3.2 Evidence of Previously Uncharacterised Contamination

3.2.1 The client has confirmed that no further evidence of contamination was observed during the construction phase of works on site.

3.2.2 Correspondence to this effect is provided in Appendix 4.

3.3 Waste Disposal

3.3.1 Documentation for the disposal of waste soils removed from site are provided in Appendix 3.

4 CONCLUSIONS & OUTSTANDING WORKS

4.1 Conclusions

4.1.1 On the basis that the imported topsoil has been confirmed to be of suitable quality, and the membranes were all present at depths exceeding the minimum requirement, the cover layer is considered to have been implemented successfully.

4.1.2 Documentary evidence has been providing confirming suitable utility pipework installation, waste disposal, and confirmation that no evidence of uncharacterised contamination was encountered during the construction phase.

4.1.3 No further action is required, and the site is considered suitable for use.

5 REFERENCES

British Standards Institution (2015) BS 3882 Specification for topsoil and requirements for use. BSI, London

British Standards Institution (2011) BS 10175 Code of practice for the investigation of potentially contaminated sites. BSI, London

British Standards Institution (2013) BS 8576 Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOC's), BSI, London

British Standards Institution BS 5930:2015+A1:2020 Code of practice for ground investigations. BSI, London

British Standards Institution (2015) BS 8485:2015 Incorporating corrigendum No.1 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings. BSI, London

CIRIA C665 (2007) Assessing risks posed by hazardous ground gases to buildings. CIRIA, London

CL:AIRE (2020) Professional Guidance: Comparing Soil Contamination Data with a Critical Concentration. CL:AIRE, Buckinghamshire

Environment Agency (2020) Land contamination risk management (LCRM)

Environment Agency, NHBC & CIEH (2008) Guidance for the safe development of housing on land affected by contamination. R & D Publication 66. London: Environment Agency

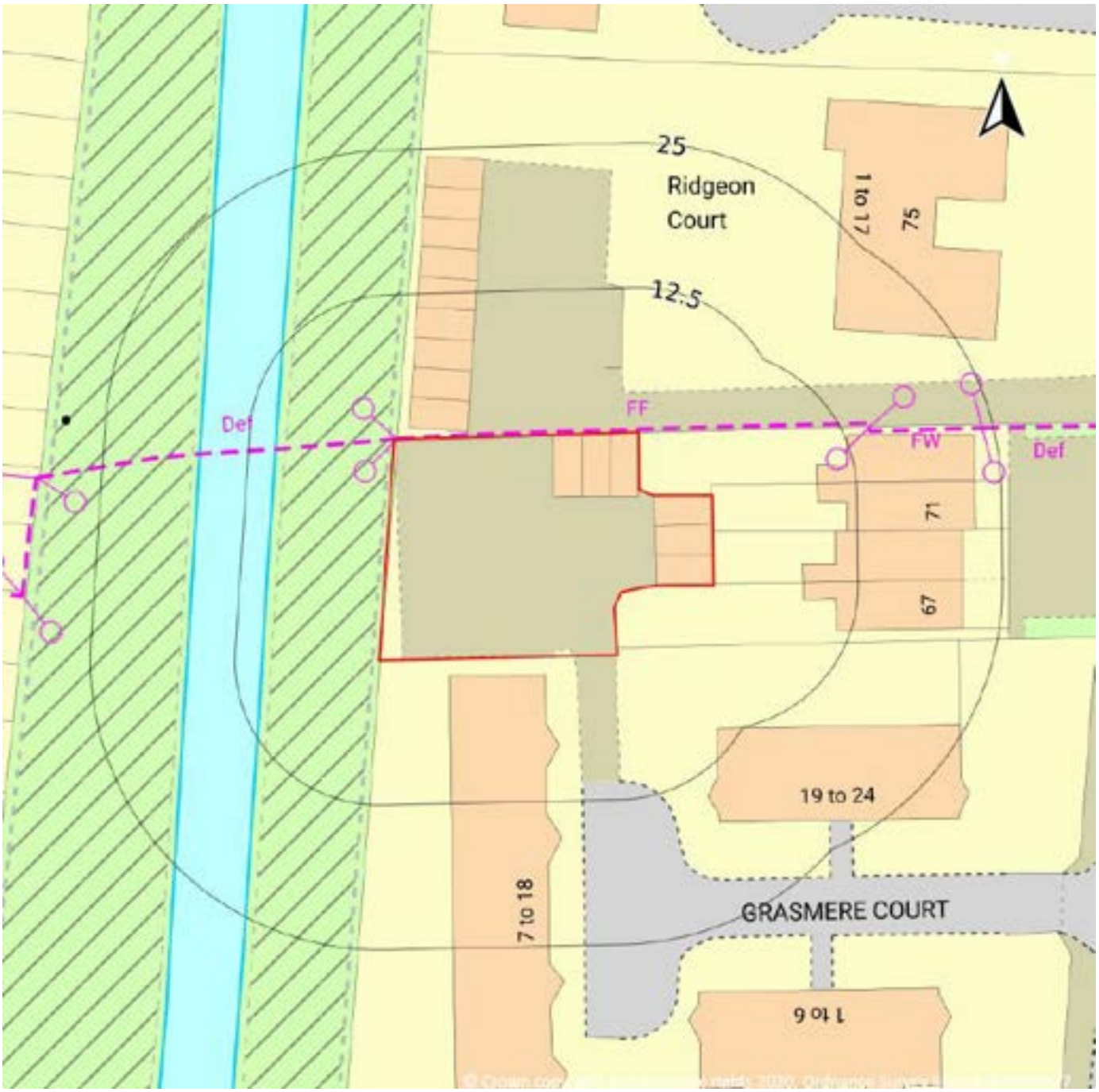
LQM/CIEH S4ULs. LQM, 2014

Ministry of Housing, Communities & Local Government: National Planning Policy Framework. February 2019.

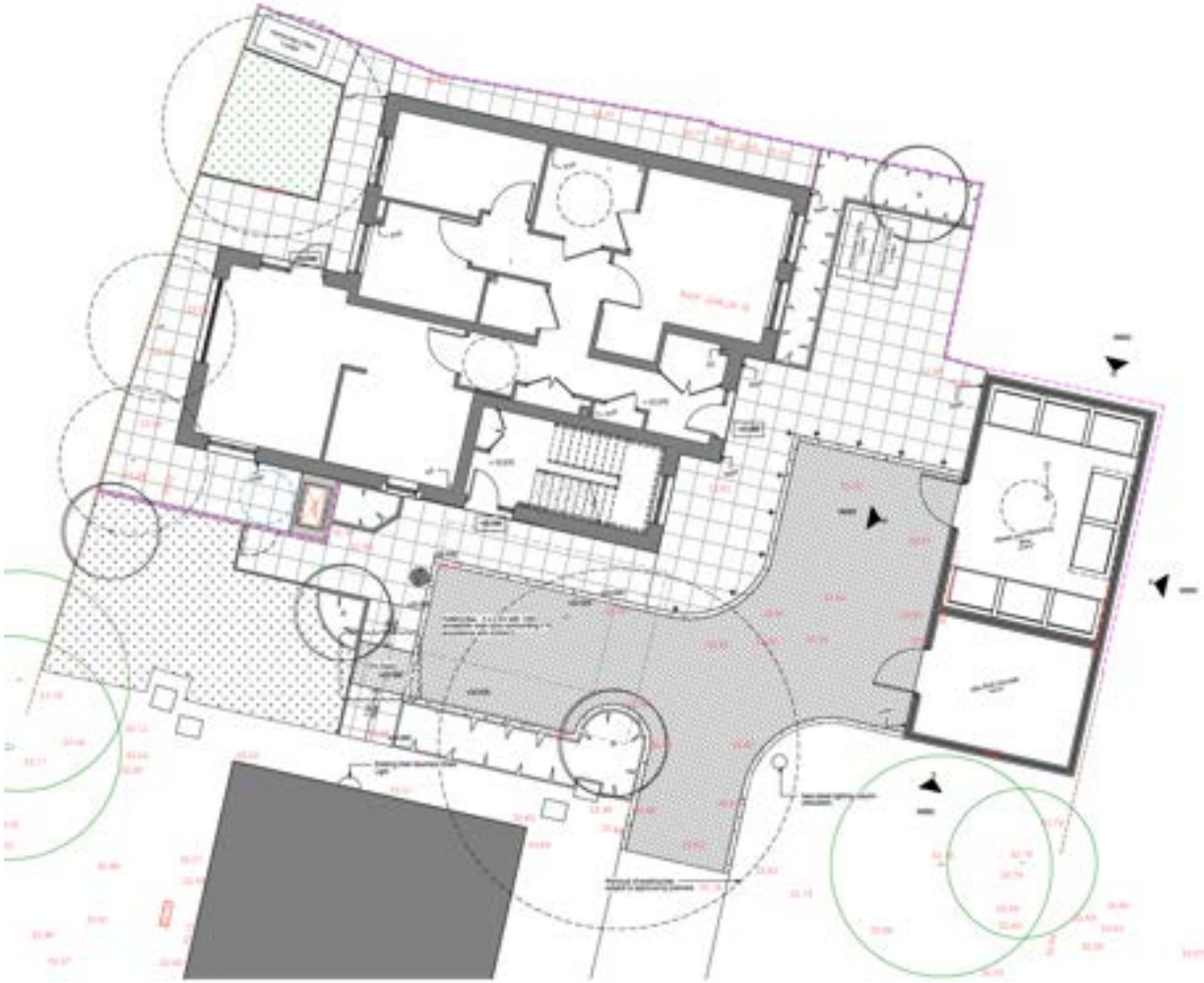
APPENDICES

APPENDIX 1 – FIGURES

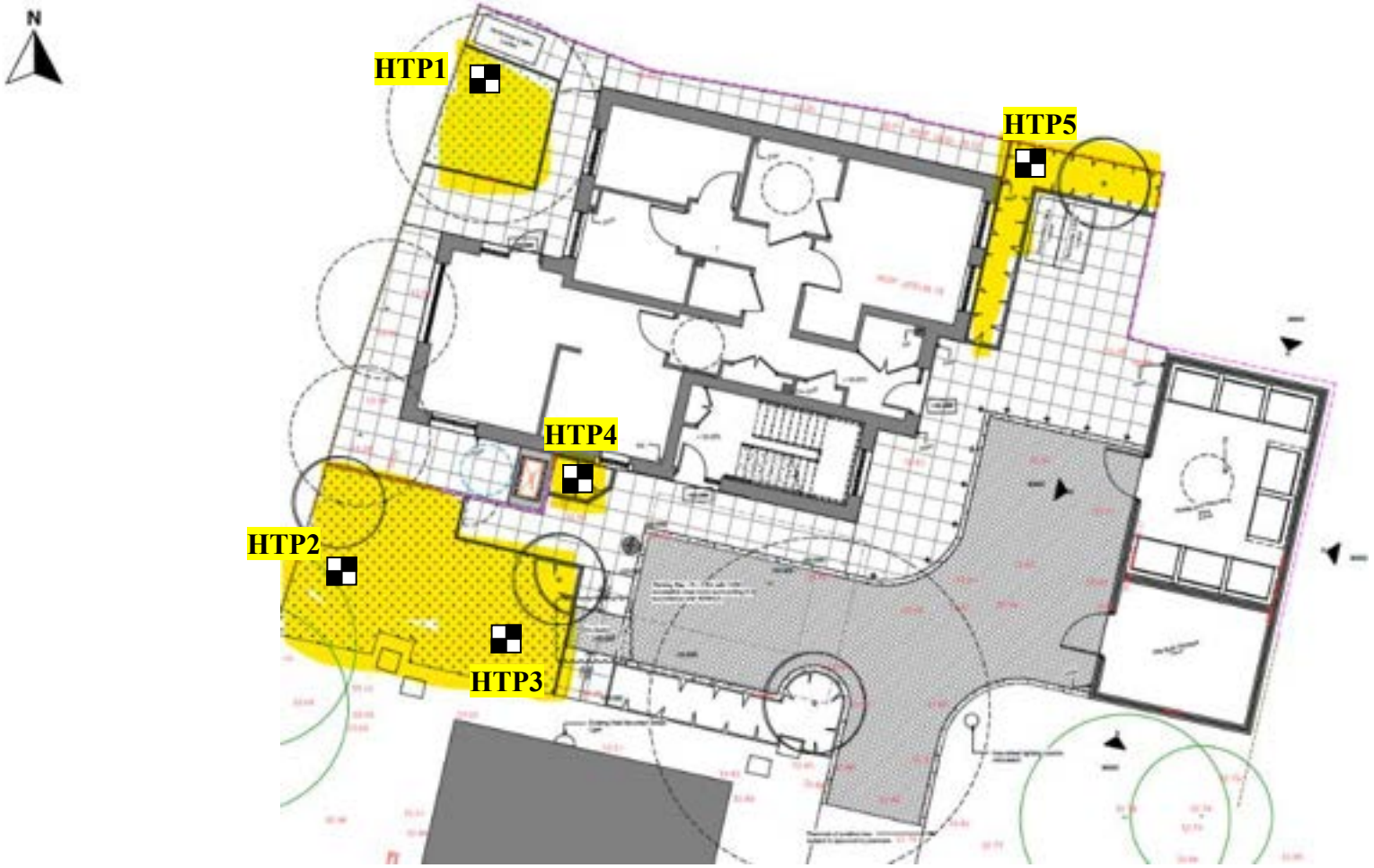
PROJECT NAME	Grasmere Court	**CLIENT**	Indecon Building Limited
TITLE	Site Location Plan	**PROJECT NO.**	P3108J2129b
DATE	October 2025	**FIGURE NO.**	1



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Proposed Development Plan	**PROJECT NO.**	P3108J2129b
DATE	October 2026	**FIGURE NO.**	2



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Plan	**PROJECT NO.**	P3108J2129b
DATE	24/09/2026	**FIGURE NO.**	3



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 1: HTP1



Photo 2: HTP1 depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 3: HTP2



Photo 4: HTP2 Depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 5: HTP3



Photo 6: HTP3 Depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 7: HTP4



Photo 8: HTP4 depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 9: HTP5



Photo 10: HTP5 Depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 11: HTP1 site location



Photo 12: HTP2, HTP3, HTP4 site locations



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 11: HTP5 site location



Photo 12: Site photo



APPENDIX 2 – LABORATORY CHEMICAL TEST DATA (TOPSOIL VALIDATION TESTING)

Analytical Test Report	**E26/12833/JOM/26-43218**	**Tested on Behalf of**
Clients Project Reference	J2129B Grasmere Court, Palmerston Road, N22 8QR	Jomas Associates
Clients Order Number	P3108J2129B.7	Unit 24 Sarum Complex,
Sample(s) Analysed	4	Salisbury Road,
Sample(s) received / instructed	29/09/2026 / 29/09/2026	
Sample(s) Tested	29/09/2026 to 07/10/2026	
Report issued	07/10/2026	UB8 2RZ
Report issue number	1	

Signed



Emily Blissett
Report Manager

Notes:

General

This report shall not be reproduced except in full

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples were supplied by customer, results apply to the samples as received.

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Moisture Content was determined in accordance with ECT method statement MS - CL - Sample Prep, oven dried at <30˚C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with ECT method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Please note: Where further analysis is required, samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and other than the asbestos test(s) these results are not covered by our accreditation.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

U = UKAS Accreditation, M = MCERTS Accreditation, N = Unaccredited, SC = Subcontracted

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference					899378	899379	899380
Client Sample ID					-	-	-
Client Sample Location					HTP1	HTP2	HTP5
Client Sample Type					ES	ES	ES
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					0.3	0.4	0.1
Depth - Bottom (m)					0.3	0.4	0.1
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	**Code**	**Units**	**LOD**	**Accreditation**			
Arsenic	ICPMETS	mg/kg	10	M	< 10	< 10	< 10
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5	< 2.5	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	1.0	1.0	1.0
Chromium (Total)	ICPMETS	mg/kg	1	U	14	15	15
Copper	ICPMETS	mg/kg	2	M	22	22	22
Lead	ICPMETS	mg/kg	1.5	M	25	25	25
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	15	15	15
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	59	57	57
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.20	0.24	0.24
pH	PHS	pH units	1	M	8.1	8.1	8.2
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	630	720	710
Asbestos	ASB	p/a	-	U	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	< 0.02	< 0.02	< 0.02
Anthracene	PAHASRDS	mg/kg	0.02	U	0.03	< 0.02	0.03
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.14	0.08	0.14
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.14	0.09	0.15
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.15	0.10	0.17
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.11	0.08	0.12
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.07	0.04	0.07
Chrysene	PAHASRDS	mg/kg	0.02	M	0.12	0.08	0.13
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Fluoranthene	PAHASRDS	mg/kg	0.02	M	0.32	0.19	0.28
Fluorene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Indeno[1,2,3,-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.09	0.06	0.09
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.16	0.10	0.14
Pyrene	PAHASRDS	mg/kg	0.02	M	0.28	0.16	0.25

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference	**899381**
Client Sample ID	-
Client Sample Location	HTP4
Client Sample Type	ES
Client Sample Number	-
Supplier / Source	-
Client Material	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	-
Time of Sampling	-
Sample Matrix	Clay

Determinant	**Code**	**Units**	**LOD**	**Accreditation**	
Arsenic	ICPMETS	mg/kg	10	M	< 10
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	1.0
Chromium (Total)	ICPMETS	mg/kg	1	U	15
Copper	ICPMETS	mg/kg	2	M	22
Lead	ICPMETS	mg/kg	1.5	M	25
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5
Nickel	ICPMETS	mg/kg	1	M	16
Selenium	ICPMETS	mg/kg	8	N	< 8.0
Zinc	ICPMETS	mg/kg	2	M	59
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.21
pH	PHS	pH units	1	M	8.1
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	670
Asbestos	ASB	p/a	-	U	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	< 0.02
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	< 0.02
Anthracene	PAHASRDS	mg/kg	0.02	U	0.02
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.14
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.14
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.15
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.10
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.07
Chrysene	PAHASRDS	mg/kg	0.02	M	0.13
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	< 0.02
Fluoranthene	PAHASRDS	mg/kg	0.02	M	0.30
Fluorene	PAHASRDS	mg/kg	0.02	M	< 0.02
Indeno[1,2,3,-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.08
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.15
Pyrene	PAHASRDS	mg/kg	0.02	M	0.25

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference					899378	899379	899380
Client Sample ID					-	-	-
Client Sample Location					HTP1	HTP2	HTP5
Client Sample Type					ES	ES	ES
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					0.3	0.4	0.1
Depth - Bottom (m)					0.3	0.4	0.1
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	**Code**	**Units**	**LOD**	**Accreditation**			
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	1.7	1.1	1.7
Petrol or Diesel contamination?	FUELID	-	-	N	Neither Detected	Neither Detected	Neither Detected

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference	**899381**
Client Sample ID	-
Client Sample Location	HTP4
Client Sample Type	ES
Client Sample Number	-
Supplier / Source	-
Client Material	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	-
Time of Sampling	-
Sample Matrix	Clay

Determinant	**Code**	**Units**	**LOD**	**Accreditation**	
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	1.6
Petrol or Diesel contamination?	FUELID	-	-	N	Neither Detected

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - EPHVPHS

Lab Reference					899378	899379	899380
Client Sample ID					-	-	-
Client Sample Location					HTP1	HTP2	HTP5
Client Sample Type					ES	ES	ES
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					0.3	0.4	0.1
Depth - Bottom (m)					0.3	0.4	0.1
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	**Code**	**Units**	**LOD**	**Accreditation**			
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	24	22	18
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	250	250	220
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	48	45	46
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	31	29	25
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	300	290	270
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	330	330	300

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - EPHVPHS

Lab Reference	**899381**
Client Sample ID	-
Client Sample Location	HTP4
Client Sample Type	ES
Client Sample Number	-
Supplier / Source	-
Client Material	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	-
Time of Sampling	-
Sample Matrix	Clay

Determinant	**Code**	**Units**	**LOD**	**Accreditation**	
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	25
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	250
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	51
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	31
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	310
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	340

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
899378	-	HTP1	SOIL	-	Brown sandy silty clay	16	< 0.1	100
899379	-	HTP2	SOIL	-	Brown sandy silty clay	16	< 0.1	100
899380	-	HTP5	SOIL	-	Brown sandy silty clay	18	< 0.1	100
899381	-	HTP4	SOIL	-	Brown sandy silty clay	18	< 0.1	100

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analysis Methodologies - Please refer to sample comments page (if present) for any changes to methods Methods

Site addresses where testing is performed: Leicester - 7-11 Harding Street, Leicester, LE1 4DH
Poole - Unit D11, Admiralty Park, Station Road, Holton Heath, Poole, BH16 6HX and Unit 14 Blackhill Rd W, Poole BH16 6LE

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Site	Accredited Matrices	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Leicester		Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
ASB	MS - AS - Asbestos	-	-	Leicester	SOIL, BULK MATERIAL	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Leicester		Determination of total sulphate in soils by acid extraction followed by ICP analysis
FUELID	Chromatograph	-	-	Leicester		In house review of scheduled hydrocarbon analysis based on chromatographs, results are qualitative and indicative only
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Leicester	SOIL	Determination of metals in soils via ICP
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of Polyaromatic hydrocarbons in soil via GC-MS
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Leicester		Preparation of samples (including determination of moisture content) to allow for subsequent analysis
SKALARCNS	MS - CL - Cyanide by Skalar	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of cyanide (total / free / complex) in soil using a Skalar segmented flow analyser
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Leicester		Determination of hexavalent chromium in soil using Skalar segmented flow analyser
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of total phenols in soil using Skalar segmented flow analyser
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Leicester		Determination of Water soluble Boron in soils via ICP

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided
W - No time of sampling provided
C - Received in inappropriate container
H - Contains headspace
T - Temperature on receipt exceeds storage temperature
R - Sample(s) received outside standard identified timescales for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
899378		HTP1				A
899379		HTP2				A
899380		HTP5				A
899381		HTP4				A

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

HWOL TPH Acronym Index

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Key of Codes	
[1]	EH_1D_TOTAL
[2]	EH_CU_1D_TOTAL
[3]	EH_CU+HS_1D_TOTAL
[4]	EH_1D+HS_MS_TOTAL
[5]	HS_MS_1D_AL
[6]	HS_MS_1D_AR
[7]	HS_MS_1D_TOTAL
[8]	EH_CU_1D_AL
[9]	EH_CU_1D_AR
[10]	EH_2D+HS_1D_TOTAL
[11]	EH_CU_2D+HS_1D_TOTAL
[12]	EH_2D_TOTAL
[13]	EH_2D_AL
[14]	EH_2D_AR
[15]	EH_CU_2D_TOTAL
[16]	EH_CU_2D_AL
[17]	EH_CU_2D_AR

APPENDIX 3 – TRANSFER NOTES FOR WASTE DISPOSAL OFF-SITE

Thames Materials Ltd.
Harvil Road, Skip Lane,
Harefield Uxbridge, Middlesex,
UB9 6RP
Phone: 02088407233

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOCOL

CONSIGNOR CONFIRMS THAT THE WASTE HIERARCHY HAS BEEN APPLIED

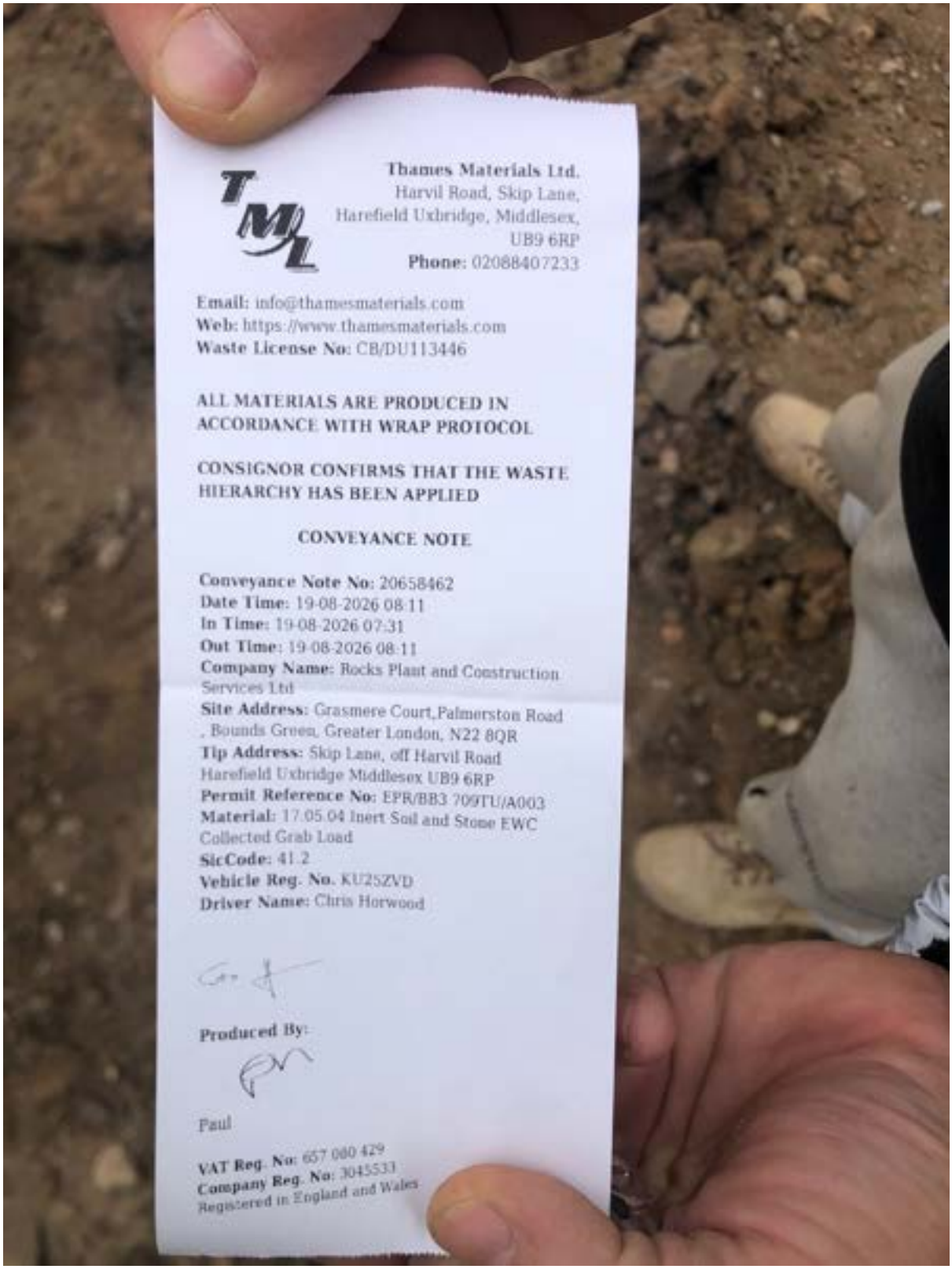
CONVEYANCE NOTE

Conveyance Note No: 20658805
Date Time: 20-08-2026 10:10
In Time: 20-08-2026 09:49
Out Time: 20-08-2026 10:10
Company Name: Rocks Plant and Construction Services Ltd
Site Address: Grasmere Court,Palmerston Road , Bounds Green, Greater London, N22 8QR
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU/A003
Material: 17.05.04 Inert Soil and Stone EWC Collected Grab Load
SicCode: 41.2
Vehicle Reg. No. KU25ZVF
Driver Name: Rob North

Produced By:

liudas

VAT Reg. No: 657 080 429
Company Reg. No: 3045533
Registered in England and Wales



Thames Materials Ltd.
Harvil Road, Skip Lane,
Harefield Uxbridge, Middlesex,
UB9 6RP
Phone: 02088407233

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOCOL

CONSIGNOR CONFIRMS THAT THE WASTE HIERARCHY HAS BEEN APPLIED

CONVEYANCE NOTE

Conveyance Note No: 20658462
Date Time: 19-08-2026 08:11
In Time: 19-08-2026 07:31
Out Time: 19-08-2026 08:11
Company Name: Rocks Plant and Construction Services Ltd
Site Address: Grasmere Court,Palmerston Road , Bounds Green, Greater London, N22 8QR
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU/A003
Material: 17.05.04 Inert Soil and Stone EWC Collected Grab Load
SicCode: 41.2
Vehicle Reg. No. KU25ZVD
Driver Name: Chris Horwood

Produced By:

Paul

VAT Reg. No: 657 080 429
Company Reg. No: 3045533
Registered in England and Wales

APPENDIX 4 – CLIENT CONFIRMATIONS

Dominic Hutchins

From: Ross Fox <ross@indeconlimited.co.uk>
Sent: 13 October 2026 14:06
To: Dominic Hutchins
Cc: Mark Davison; Vasyl Kukurudza; Projects
Subject: RE: P3108J2129b - DJH - Grasmere Court, Palmerston Road, N22 8QR
Attachments: 1826-10754_WHS Service Main Commissioning Report_Grasmere Court Garage Site (Indecon Building Ltd).pdf; 1826-10754_WHS Lab Samples - Grasmere Court Garage Site (Indecon Building Ltd).pdf; 1826-10754_WHS Pressure Test - Grasmere Court Garage Site (Indecon Building Ltd).pdf

Caution: This email originated from outside of the Jomas Associates organisation. Do not open attachments or links unless you recognise the sender and know the content is safe

Hi Dominic,

Please see attached chlorination testing the utility pipework in the site, these documents confirm the pipe type and testing results.
No further contamination was observed during the works.
Waste consignment notes attached.

Kind regards Ross

Thames Mater
Harvil Road, S
Harefield Uxbridge, M

Phone: 0208

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOC

CONSIGNOR CONFIRMS THAT THE HIERARCHY HAS BEEN APPLIED

CONVEYANCE NOTE

Conveyance Note No: 20658805
Date Time: 20-08-2026 10:10
In Time: 20-08-2026 09:49
Out Time: 20-08-2026 10:10
Company Name: Rocks Plant and Const Services Ltd
Site Address: Grasmere Court,Palmerst , Bounds Green, Greater London, N22 8Q
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU
Material: 17.05.04 Inert Soil and Stone Collected Grab Load
SicCode: 41.2



Thames Materials L
Harvil Road, Skip La
Harefield Uxbridge, Middles
UB9 6
Phone: 020884071

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOCOL

CONSIGNOR CONFIRMS THAT THE WAST HIERARCHY HAS BEEN APPLIED

CONVEYANCE NOTE

Conveyance Note No: 20658462
Date Time: 19-08-2026 08:11
In Time: 19-08-2026 07:31
Out Time: 19-08-2026 08:11
Company Name: Rocks Plant and Constructio Services Ltd
Site Address: Grasmere Court,Palmerston Roa , Bounds Green, Greater London, N22 8QR
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU/A00

Ross Fox BSc (Hons) MCIOB
Director

Indecon Building Limited | South Hanningfield Road, Wickford, SS11 7PF
Tel : 01268 711117 Mob : 07714 136812



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From: Dominic Hutchins <djh@jomasassociates.com>
Sent: 13 October 2026 11:52
To: Ross Fox <ross@indeconlimited.co.uk>
Cc: Mark Davison <Mark@indeconlimited.co.uk>; Vasyl Kukurudza <Vasyl@indeconlimited.co.uk>; Projects <projects@jomasassociates.com>
Subject: RE: P3108J2129b - DJH - Grasmere Court, Palmerston Road, N22 8QR

Good morning Ross,

I just need a few things from yourself to finish off getting the verification report through the door.

1. Could you confirm that the utility pipework has been installed in accordance with the supplier's requirements and provide any associated documentation for the pipework.
2. Could you confirm that no further evidence of contamination was observed during the construction phase of works on site.
3. Please can you provide the waste consignment notes of the soils removed from site.

Kind regards,

Dominic John Hutchins
BEng (Hons), FGS
Geotechnical Engineer

T: 07936 698 438
E: djh@jomasassociates.com
www.jomasassociates.com

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NEW SERVICE MAIN COMMISSIONING REPORT







WATER MAINS DISINFECTION

Commissioning Procedure

Your mains water supply pipe has recently been commissioned. This involves various processes such as swabbing, pressure testing, flushing and chlorination.

A pressure test to the latest version of the WIS 4-01-03:2024 may have been performed utilizing a data logging pressure gauge. This information is provided in a separate document.

The chlorination procedure involves the introduction of around 50 ppm of free chlorine from sodium hypochlorite and allowing it to stand for a minimum of 1 hour. This is the standard set out by most Water Authorities and is documented in the PD855468:2015.

The chlorine within the pipe is tested after the standing time to ensure that the chlorine levels have remained at or above the target strength for the whole period.

Once the chlorine has stood for the allotted time the chlorine is purged from the system. Where it is necessary to neutralise any active chlorine to prevent environmental damage this is done through the use of liquid sodium thiosulphate to react with the chlorine and render it safe.

Chlorine measurements are once more taken from the system to ensure that all chlorine has been removed and that levels are identical to those present in the supply water.

Once chlorine levels are normal the system is sampled for microbiology and it is then capped/closed to prevent any ingress of dirt, and a chlorination certificate is completed detailing all facts and figures of the chlorination. All samples are sent away for analysis by a UKAS accredited laboratory.

What Now?

Your chlorination has now been carried out and you have your certificate of chlorination. This section details what to do next.

The Water Authority will require the completed new mains commissioning report below along with the pressure test certificate and laboratory sample analysis report. Do not send just the chlorination certificate as it is not adequate alone. Store the commissioning report, pressure test and laboratory sample analysis report together for future reference.

Please note that a commissioning report and laboratory analysis report is generally valid for a limited time and connections must be carried out within the time period determined by your Water Authority. Failure to do so may render the chlorination certificate invalid. This time period can vary but is generally between 7-10 days from date of sampling. Failure to connect within this time frame will result in further works being required from a flush and resample to a full re-chlorination.

Once connection is approved it may be necessary to perform a flush and connection validation sample to ensure that no contamination entered the pipe work during connection. Water Hygiene Solutions can provide this further service if required.

Job **Ref:** 1826 - 10754 **Job Start Date:** 13/08/2026	**Lead Engineer** **Name:** Danny Stevens **EUSR Number:** 459742
Client Indecon Building Ltd South Hanningfield Road Wickford Essex SS11 7PF	**Site** Grasmere Court Garage Site Palmerston Road London United Kingdom N22 8QR

Certificate of Commissioning

This is to certify that new mains detailed in the breakdown below at **Grasmere Court Garage Site**, have been commissioned in line with BS8558/PD855468 on **13/08/2026**

Description	Pipe OD	Length
15m of 63mm	63 mm	15 m

Lead Engineer: Danny Stevens

Engineer Signature:

Certificate of Commissioning

This certification is only valid with the attached work report **1826 - 10754** which provides details on disinfectant type/strength and contact time and proves adherence to the above standards. If you have any concerns over the validity of this certificate please contact Water Hygiene Solutions Ltd directly.

Contents

Certificate of Commissioning 4
Job Details 6
Parent Supply Flushing Information 6
Pipe Details 7
Swabbing 8
Swab Record 8
Pressure Test 9
Pressure Test Details 9
Pre-Chlorination Flushing 10
Flushing Information 10
Chlorination Phase 11
Chlorination Start Details 11
Chlorination Equipment In-Situ 11
Chlorination Details 11
Chlorination Levels 12
Post Chlorination Phase 13
Post Chlorination Flushing 13
Water Quality Sampling 14
Samples Taken 14
Job Photographs 15
Method Statement 16
General 16
Commissioning Procedure 18

Water Mains Commissioning Report
In Line With BS8558/PD855468

Job Details

Start Date	13/08/2026
GPS Location	51.60814450215716,-0.11494585827856765
Site Photo	

Parent Supply Flushing Information

Parent Supply	Main supply	**Flow rate**	12 L/min
			
Meter Reading Start	0.0	**Meter Reading End**	300
Volume Flushed	300.0 L	**Turbidity**	0.01 NTU

Pipe Details

Location	Material	SDR	Diameter	Length	Volume
15m of 63mm	MDPE	SDR 11	63 mm	15 m	31.0 L
Total Pipe Volume	31 L				

Swabbing

			
Meter Reading Start	300	**Meter Reading End**	400
Water Volume Used	100 L		

Swab Record

Type	**Size**	**Run Number**	**Clear**
Soft	72mm	1	Yes
51.60813274118856,-0.11501723024054687		51.608227546575975,-0.11503689253280559	
From Description		**To Description**	
Pipe start		Pipe end	
Swab Photograph			



Pressure Test

Pressure Test Performed	Yes

Pressure Test Details

Pressure Test Type	Hydrostatic Test to WIS 4-01-03:2024
Test Coordinates	51.608294205876525,-0.11502530076768344
Test Photograph	
Pass or Fail	Pass

Pre-Chlorination Flushing

Flushing Information

			
Meter Reading Start	400	**Meter Reading End**	500
Volume Flushed	100 L		

Chlorination Phase

Chlorination Start Details

Disinfection Chemical	Sodium Hypochlorite

Chlorination Equipment In-Situ



Chlorination Details





Meter Reading Start	500	**Meter Reading End**	590
Volume Flushed	90 L		

Chlorination Levels

Location	Free Cl_2 Start (mgL^{-1})	Free Chlorine Start Photo	Start Chlorine Time	Free Cl_2 End (mgL^{-1})	Free Chlorine End Photo	End Chlorine Time	Chlorine Contact Time
Pipe End	56.50		11:00	56.00		12:00	60

Post Chlorination Phase

Post Chlorination Flushing

			
Meter Reading Start	600	**Meter Reading End**	950
Volume Flushed	350 L		
Pipe Sealed	Yes	**Pipe Left Pressurised**	Unable To Due to Fitting of End Caps
WHS End Caps Used	1		

Water Quality Sampling

Samples Taken

All sample locations have been sampled to meet the requirements of . All samples have been analysed by a UKAS accredited laboratory.

Location	Suite	Free Cl_2 (mgL^{-1})	Total Cl_2 (mgL^{-1})	Turbidity (NTU)	pH	EC (µS)	Onsite Odour	Onsite Taste	Time
Main supply 51.60813993228486,-0.1149445383546848	Thames	0.43	0.56	0.01	7.85	603	No discernible odour	No discernible taste	08:40
Pipe end 51.6083559242576,-0.11501801997823648	Thames	0.45	0.57	0.01	7.85	597	No discernible odour	No discernible taste	12:20

Job Photographs



Pipe Run



Pipe end



Start of pipe

Method Statement

Commissioning Of Mains Supplies & New Lay Mains Pipe Work to PD855468:2015 Utilising a Mains Supply Feed

General

The following disinfection procedure is designed to commission new mains pipe work to PD855468:2015. It covers all aspects of commissioning including swabbing, pressure testing, flushing, chlorination and sampling and all steps should be performed at some point to effectively commission a new service main.

When pressure testing it is important to be aware of the pressures and end loads involved and areas should be barriered off and an exclusion zone set (especially in a direct line from the ends of pipes). Where necessary end fittings should be braced and checks should be made to ensure correct thrust blocks are in place at required locations.

It is important to ensure that when chlorinating mains water systems that all precautions are taken to ensure no backflow of chlorinated water can occur and contaminate the mains supply. It is also important to ensure that people working within the area fed by the water system are informed and cannot accidently come into contact with chemically treated water.

Equipment Used

1. WHS battery powered proportional chlorination machine
2. Clean double check valve hydrant standpipe (2 ½")
3. Hydrant standpipe 2 ½" quick couple fittings and adapters
4. 2" food grade/potable water hoses (cam lock fitting blue)
5. Drain hoses
6. MDPE compression adaptors or stainless steel flange plates
7. Stainless steel couplings 2"
8. Hand tools
9. Warning signs
10. Palintest 7100
11. Turbidity meter
12. PDA

Chemicals Used

1. Sodium hypochlorite (Liquid)
2. Sodium thiosulphate (Liquid)

PPE

1. See End Sheet

Commissioning Procedure

1. Sign into site, attend any induction and obtain necessary permits to work.
2. Perform full dynamic risk assessment of the site and area around the system to be disinfected and note pipe diameter, length and produce a rough diagram of the system.
3. Before any disinfection procedure begins place warning boards in good view. Inform relevant site staff, particularly if the water supply is to be disrupted and ensure all staff fully understand the length of service loss and relevant consequences.
4. Ensure that all outlets are clearly labeled with warning signs quoting “COMMISSIONING IN PROGRESS DO NOT USE WATER”. This will ensure complete safety of all people in the area during the works.
5. Locate the supply hydrant outlet and connect appropriate standpipe to the hydrant head after cleaning and disinfecting the hydrant base.
6. Flush the supply water, at a rate not likely to increase flushing velocities in the supply pipe above 0.5 m/s, to drain or a safe location, flushing at least 1000 L. This must be done before every chlorination starts with no exceptions (consider the requirement for de-chlorination by passing water through the proportional dosing box and dosing with sodium thiosulphate). Whilst flushing measure flow rate in L/min and measure turbidity using Palintest Turbidimeter. If results are above 2.0 NTU continue to flush until turbidity is lower than 2 NTU.
7. Locate pipe end or hydrant fill point and attach relevant adaptors/stand pipe to allow fitting of clean hoses. All hoses used must be clean, previously disinfected and free from damage. Ensure double check valves are in place to prevent backflow.
8. Swab each leg of the pipe work by placing an appropriately sized foam swab into the pipe work and propelling it through the system with water (consider the requirement for de-chlorination by passing water through the proportional dosing box and dosing with sodium thiosulphate if swabbing volumes are large). Remove the foam swab inspect and photograph onto the report. If contamination is evident on the swab repeat until swabs present clean and with no discernible odour.
9. Once swabbing is completed connect Keller pressure logger onto manifold and attach to the lowest part of pipe work.
10. Barrier off ends and place warning signs “Hydrostatic Pressure Testing in Progress”.
11. Charge main and bring to mains pressure and ensure pipe work is sound and holds pressure.
12. De-pressurise slowly from the highest end until pressure is static.
13. Fill clean reservoir with clean water and connect pressurization pump along with flow meter to manifold, choose pump based on discharge and system volume to ideally raise pressure to required test pressure within 3 minutes but taking no less time than 1 minute.

14. Set pressure relief valve to 2 bar above required test pressure and prime pump and pressure hose line. Ensure when running engines that fumes cannot enter trenches and the area is well ventilated.
15. Connect pressure hose to manifold and open valve allowing pipe to reach required test pressure.
16. Start pump and open outlet valve to allow water to begin entering the main and raise pressure in a constant manner to the required test pressure.
17. Close inlet valve and turn off pump. Check pipe length for leaks and weeps, being aware of end loads and pressures in the event of a failure.
18. If no visible leaks are present and the pressure test appears sound with the expected pressure curves then disconnect all hoses and drain reservoir, pack kit away so as to ensure work are remains tidy.
19. Calculate air volume based on expected vs actual input volume and ensure air volume is 4% or less. If greater than 4% then repeat swabbing procedure to remove further air and repeat pressure test.
20. Allow pressure to stand within the pipe work for 20 x rise the rise time + rise time * 0.4 or a minimum of 1 hour, whichever is the longest.
21. Depressurise the pipe slowly from the highest end.
22. Once complete remove datalogger and analyse data to ensure a pass. If the pipe has failed then hand back to client and/or determine are of issue through further testing.
23. Once pressure test has passed flush pipe with a minimum of 2 volumes of water to remove any taste and odour issues. Ensure water meter is placed in line and before flushing and after flushing photographs are taken (consider the requirement for de-chlorination by passing water through the proportional dosing box and dosing with sodium thiosulphate if flushing volumes are high).
24. Attach hoses from incoming hydrant supply into inlet side of chlorination equipment. Test flow is present through the system.
25. Attach hose from outlet side of chlorination equipment into feed side of the pipe work to be disinfected.
26. Place the pickup pipe of the chlorination equipment dosing pump into sodium hypochlorite solution and switch on the chlorination equipment. Ensure the pump is primed with chemical.
27. Ensure hose connections are tight and open the supply water valve slowly.
28. Open the system outlets in sequence and pull water through to all outlets until chlorine is detected at the level required by the PD855468:2015. Continue until chlorine is measured at all outlets.
29. Measure free chlorine content at pipe end or nearest and furthest outlets on each leg of pipe work with the Palintest 7100 set to “chlorine 250” setting to gain an accurate reading

of free chlorine level and enter the results into the PDA, a level of around 50 mg/L should be achieved.

30. Once adequate free chlorine levels have been achieved at all outlets turn off the supply water and all other valves within the system. Turn off the chlorination equipment.
31. Allow the chlorine solution to stand within the pipe work for a minimum of 1 hour or as required by the PD855468:2015
32. Once the stand time is completed turn back on the mains hydrant supply valve.
33. Measure free chlorine content at pipe end or nearest and furthest outlets on each leg of pipe work with the Palintest 7100 set to “chlorine 250” setting to gain an accurate reading of free chlorine level and ensure that chlorine levels have not fallen more than 10% of the initial levels. If so the enter the results into the PDA but if not then return to section 9 and re-start chlorination procedure.
34. Connect the proportional dosing equipment to the discharge outlet of the pipe work.
35. Prime pump with sodium thiosulphate and turn on proportional dosing to fully neutralise the chlorine in the discharge water. Regular 10 minute checks should be made to ensure all chlorine is neutralised.
36. Open the system outlets in sequence, moving the de-chlorination equipment as necessary and draw water through the system to remove chlorinated water. De-chlorination of the water must be undertaken.
37. Continue to flush outlets until all outlets are showing identical free chlorine levels to that of the incoming mains water, tested pre de-chlorination.
38. Test the water for free chlorine and total chlorine levels utilising the Palintest 7100 set to “chlorine free” with “follow on”. Test turbidity of the water utilising the electronic turbidity meter. Record all results in PDA.
39. Check water for appearance, odour and taste and note results in the PDA.
40. Leave main to stand for 1 hour.
41. Connect bridge hose to clean standpipes and charge the system for sampling.
42. Ensure outlets and standpipes are disinfected and flushed and that samples are taken in a hygienic manner with adequate chlorine spray use to remove bacteria from sampling taps etc.
43. Take the required number of water samples for microbiological analysis ensuring the samples are labelled with Job reference, location and site name of the job. Place samples in the van fridge set at 4°C.
44. If required perform further chemistry/odour & taste samples and note all results.
45. Shut off mains hydrant water supply and disconnect chlorination equipment. Take care to minimise loss of water from the system.
46. Fit any non-closed pipe ends with disinfected end caps.

47. Remove hydrant standpipe, replace plastic dust cap if present and replace all metal covers securely and flush with the surrounding land.
48. Complete all relevant section on the PDA and sync job to office
49. Clear away tools and ensure the site is left in a safe manner, replacing any barriers or covers.
50. Remove lock offs and signs, sign off certificate, inform site staff and sign off any work permits. Sign out of site.
51. Ensure any microbiological water samples are kept in the van fridge and delivered directly to the laboratory or fridges drop off point on the same day.

HEALTH & SAFETY PPE REQUIREMENTS

GENERAL WORKS



CHEMICAL HANDLING



SITE SPECIFIC AS REQUIRED



ABOUT WATER HYGIENE SOLUTIONS LTD

Water Hygiene Solutions Ltd are a specialist technical water hygiene company providing services including cleaning and chlorination work, water hygiene consultancy, water treatment chemicals and equipment.

We have an excellent reputation nationwide both for the quality of work we undertake and the expertise and experience of our staff. Our can do attitude ensures that our clients obtain the work they require when they require it, particularly important when deadlines are looming.

With a commitment to staff development and with significant health and safety budget you can be assured of a quality service every time.

OUR SERVICES INCLUDE



Water Tank Cleaning - Regardless of the type of water system it is important that water hygiene is maintained. Water storage tanks especially require regular cleaning to remove debris and bacteria build up and maintain hygiene. Even new water tanks should be chlorinated prior to use to maintain potable water quality. Our specialist teams and equipment can provide cleaning and chlorination of all types and sizes of domestic and industrial water tanks including underground rain water harvesting tanks.



Legionella Management - It is vital to ensure that systems do not pose a risk of Legionnaires Disease and operate within the HSE guidelines. By carrying out bespoke water hygiene risk assessments we are able to determine the risks and provide advice on how to reduce these. It also allows us to design a Legionella control program based on current legislation. Our trained hygiene engineers can provide testing and monitoring of your site to ensure Legionella risk is managed at all times. A site specific log book for records ensures legislative compliance.



Chlorine Dioxide Water Treatment – Chlorine dioxide is an ideal water treatment option to reduce bacteria numbers and maintain water hygiene. It has applications both in potable water supplies for the control of Legionella and general water hygiene and also in process systems such as food manufacturing where bacterial control is important. We provide safe generation and dosage of chlorine dioxide in all applications with chemical supply and routine service.



Boiler Water Treatment - Correct steam boiler management is essential as the lack of, or failure, of a water treatment regime will rapidly lead to increased fuel costs and maintenance bills and will, over time, damage steam plant. Through a full analysis of your water conditions and steam process systems we offer a tailored boiler water treatment program to include pre-treatment plant and chemical water conditioning. Routine analysis by our experienced water treatment engineers ensures continued efficiencies.



Cooling Tower Management - The correct management of cooling towers and evaporative condensers is essential to ensure long life, efficiency and to prevent health hazards from Legionella growth. Our water treatment engineers use in depth water analysis to develop bespoke chemical treatment programs. Service contracts provide routine analysis, monitoring and cleaning to ensure that your cooling tower remains efficient and safe and you remain compliant with HSE guidance.

WATER HYGIENE
SOLUTIONS

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www.alsenvironmental.co.uk

Dr Watts
Water Hygiene Solutions Ltd
Unit 1
Low Mills Lane industrial Estate
Ravensthorpe WF13 3LN

18 August 2026

Test Report: WAK/3130875/2026

Dear Dr Watts

Analysis of your sample(s) submitted on 14 August 2026 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0) 2476 421213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, or to arrange container delivery or sample collection or information on our drop-off locations please contact Customer Services.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: J. Thompson

Title: Inorganic Chemistry Manager

UKAS TESTING 1314
bsi ISO 14001 Environmental Management CERTIFIED EMS675527 ISO 45001 Occupational Health and Safety Management CERTIFIED OHS 542058
CERTS

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No.02391955.
Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU.

Report Summary

ANALYSED BY

1314

Dr Simon Watts
Water Hygiene Solutions Ltd
Unit 1
Low Mills Lane industrial Estate
Ravensthorpe
WF13 3LN

Date of Issue: **18 August 2026**

Report Number: **WAK/3130875/2026** Issue **1**

This issue replaces all previous issues

Job Description: Master Quotation

Job Location: 1826-10754 - GRASMERE COURT GARAGE SITE

Number of Samples included in this report **2**

Job Received: **14 August 2026**

Number of Test Results included in this report **14**

Analysis Commenced: **14 August 2026**

Signed:

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled. Information supplied by the customer may affect the validity of results.
Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.
This test report is not a statement of conformity to any specification or standard.

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No. 02391955. Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU. (c) ALS Laboratories (UK) Limited 2026. All rights reserved. We, ALS Laboratories (UK) Limited, are the owner of all copyright in this report. You must not copy, reproduce, amend or adapt this report, its contents or any format in which it is delivered without our prior written agreement. If you copy, reproduce, amend, or adapt this report in any way without our agreement you will be liable for any damage or loss to us. In the event of a dispute the copy of the report held by us shall be the reference copy.

Certificate of Analysis

ANALYSED BY

1314

Report Number:	**WAK/3130875/2026**	Issue	1
Laboratory Number:	**26505909**	Sample	1 of 2

Sample Source:	**Water Hygiene Solutions Ltd**
Sample Point Description:	**Public Limits**
Sample Description:	**MAIN SUPPLY**
Sample Matrix:	**Drinking Water**
Sample Date/Time:	**13 August 2026** **12:00**
Sample Received:	**14 August 2026**
Analysis Complete:	**18 August 2026**

Test Description	Result	Units	Completed	Accreditation		Method
TVC 37C 2 day	122	cfu/ml	17/08/2026	Y	Cov	W1
TVC 22C 3 day	106	cfu/ml	18/08/2026	Y	Cov	W1
Total Coliform presump	0	cfu/100ml	15/08/2026	Y	Cov	W10
Total Coliforms confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
E.coli presumptive	0	cfu/100ml	15/08/2026	Y	Cov	W10
Escherichia coli confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
Turbidity	<0.11	NTU	14/08/2026	Y	Wak	WPC6

Analyst Comments for 26505909: High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

Certificate of Analysis

ANALYSED BY

1314

Report Number: **WAK/3130875/2026**
Laboratory Number: **26505910**

Issue 1
Sample 2 of 2

Sample Source: **Water Hygiene Solutions Ltd**
Sample Point Description: **Public Limits**
Sample Description: **PIPE END**
Sample Matrix: **Drinking Water**
Sample Date/Time: **13 August 2026** **12:20**
Sample Received: **14 August 2026**
Analysis Complete: **18 August 2026**

Test Description	Result	Units	Completed	Accreditation		Method
TVC 37C 2 day	132	cfu/ml	16/08/2026	Y	Cov	W1
TVC 22C 3 day	123	cfu/ml	18/08/2026	Y	Cov	W1
Total Coliform presump	0	cfu/100ml	15/08/2026	Y	Cov	W10
Total Coliforms confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
E.coli presumptive	0	cfu/100ml	15/08/2026	Y	Cov	W10
Escherichia coli confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
Turbidity	<0.11	NTU	14/08/2026	Y	Wak	WPC6

Analyst Comments for 26505910: High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **J. Thompson** Date: **18 August 2026**

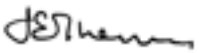
Title: **Inorganic Chemistry Manager**

ANALYST COMMENTS FOR REPORT WAK/3130875/2026 Issue 1

This issue replaces all previous issues

Date of Issue: **18 August 2026**

Sample No	Analysis Comments
26505909	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.
26505910	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

Signed: 

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

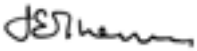
DETERMINAND COMMENTS FOR REPORT WAK/3130875/2026

ISSUE 1

This issue replaces all previous issues

Date of Issue: 18 August 2026

Sample No	Description	Determinand	Comments
26505909	MAIN SUPPLY	Total Coliform presump	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.
26505910	PIPE END	Total Coliform presump	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

Signed: 

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

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WATER HYGIENE SOLUTIONS

WATER HYGIENE · CHLORINATION · WATER TREATMENT · LEGIONELLA CONTROL

PRESSURE TEST CERTIFICATE

PE PIPE TO WIS 4-01-03:2024







Date: 13 August 2026
Client: Indecon

Pressure Test Certificate

PASS

n2/n1 0.75-1.25
n3/n1 0.75-1.25

Job Details

Site Address:	Grasmere Court Garden Site Palmerston Road London N22 8QR
GPS Location:	51.608294, -0.115025
Client:	Indecon
Job Number:	1826-10754
Engineer:	Danny Stevens
Engineer EUSR:	459742
Date:	13 August 2026
Logger Type:	Leo Record
Data Logger Serial:	17283
Calibration Cert:	1826-7029
Required Test Pressure (Bar):	12
Pipe Material:	PE
Installation Method:	Open Cut
Pipe Surround:	Open

Pipe Details

Run Name	SDR	OD	Length (m)	Volume (L)
15m of 63mm	11	63	15	31

Calculated Pipe Volume (L):	31
Min Input Volume - 0% Air (L):	0.33
Max Input Volume - 4% Air (L):	1.66
Actual Input Volume (L):	0.50
Air Content %:	0.51

PT Cert Version 1.2.256

Job Information

WATER HYGIENE SOLUTIONS

Pressure Test Certificate

PASS | **n2/n1 0.75-1.25** | **n3/n1 0.75-1.25**

Time/Pressure Data

Static Head Pressure (bar):	1.633
Start Pressurisation Time:	9:30:44 AM
End Pressurisation Time:	9:31:34 AM
Pressurising time (Tp):	12:00:50 AM
Max Pressure Obtained (Bar)	12.697
Raised Pressure:	11.064

Time/Pressure Point	Hours/Mins/ Sec	Minutes (decimal)	Raised Pressure (PA -P0)	Corrected Time (tp + (0.4 x tp)
tc1 / P1	12:00:50 AM	0.83	9.94	1.17
tc2 (8 tp) / P2	12:06:40 AM	6.67	8.56	7.00
tc3 (20 tp / P3	12:16:40 AM	16.67	7.95	17.00
tc4 (1 hour end)	1:00:00 AM	60.00	7.14	60.33

Log Analysis

Time

	Log 10 Time
Log tc1 (tl)	0.067
Logtc2 (8 tl)	0.845
Log tc3 (20 tl)	1.230
Log tc4 (60 mins)	1.781

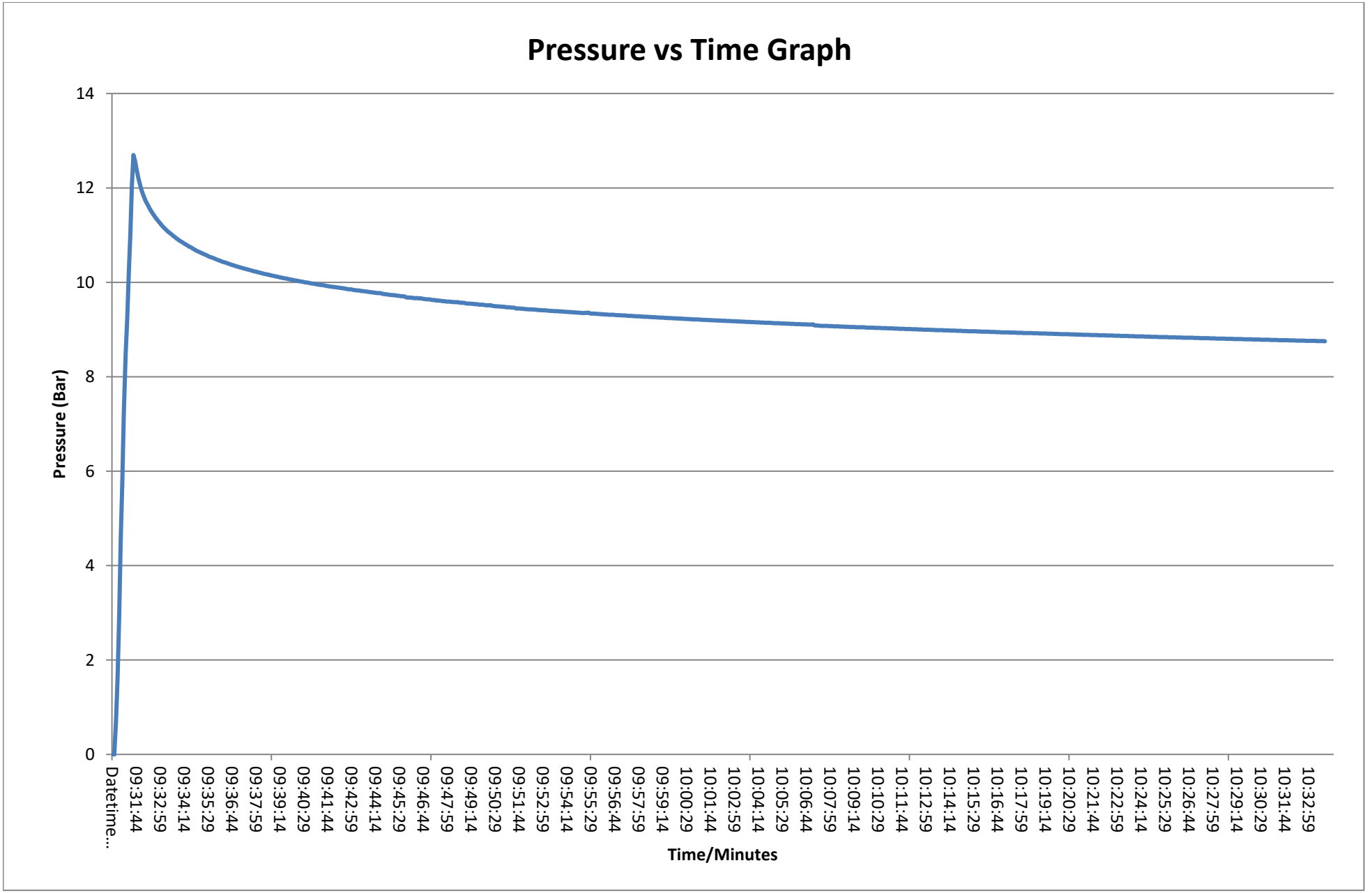
Pressure

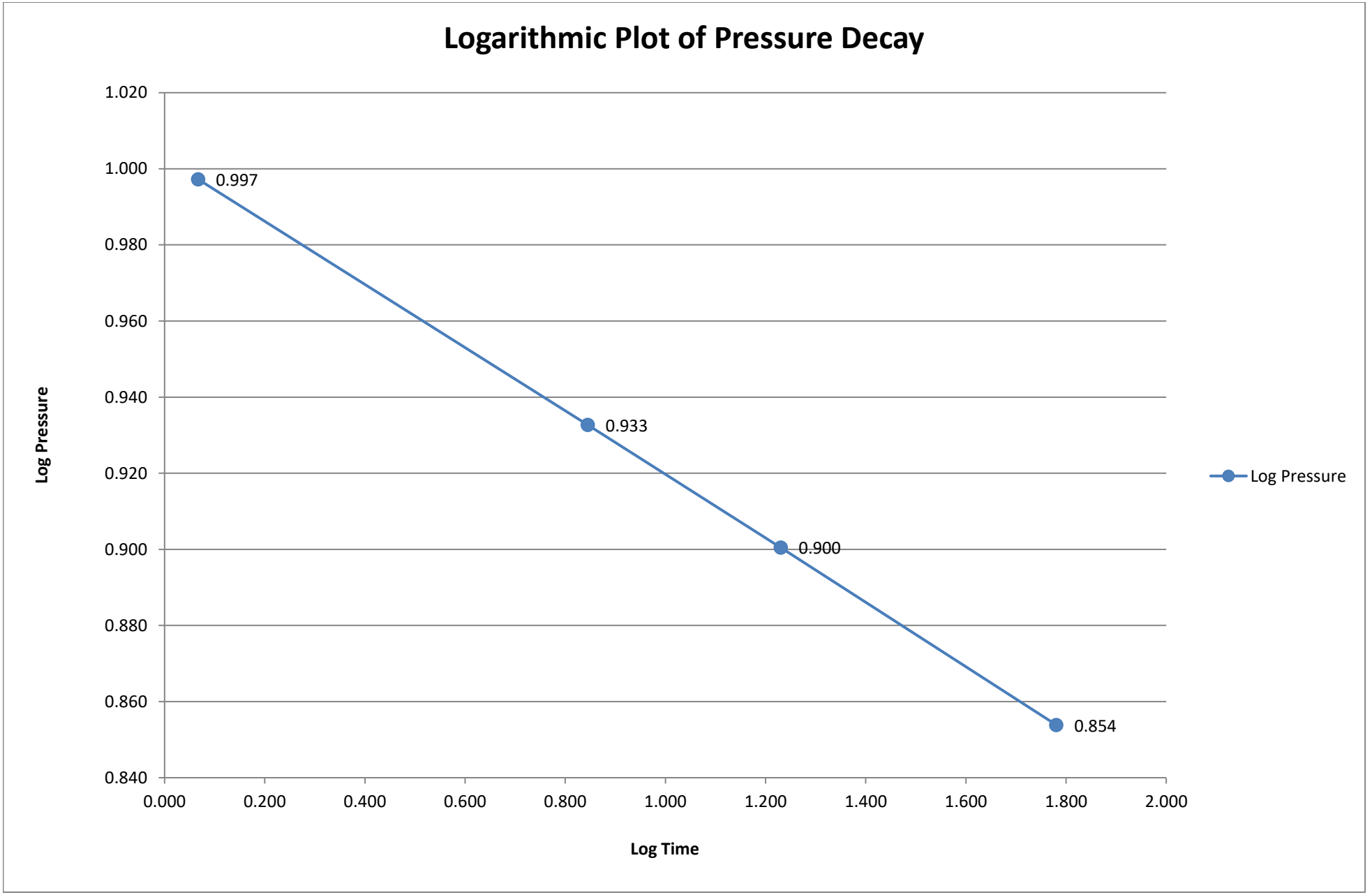
	Log 10 Pressure
Log PA1	0.997
Log PA2	0.933
Log PA3	0.900
Log PA4	0.854

Pressure decay curve analysis

between t1 and t2	n1=(logP1-logP2)/(logtc2-logtc1)
n1=	**0.083**
between t2 and t3	n2=(logP2-logP3)/(logtc3-logtc2)
n2=	**0.084**
between t3 & t4	n3=(logP3-logP4/(logtc4-logtc3)
n3=	**0.085**

n2/n1:	**1.008**	**PASS (n2/n1 between 0.75 to 1.25)**
n3/n1:	**1.022**	**PASS (n3/n1 between 0.75 to 1.25)**


Pressure vs Time Graph
Pressure (Bar)
14
12
10
8
6
4
2
0
Datetime...
09:31:44
09:32:59
09:34:14
09:35:29
09:36:44
09:37:59
09:39:14
09:40:29
09:41:44
09:42:59
09:44:14
09:45:29
09:46:44
09:47:59
09:49:14
09:50:29
09:51:44
09:52:59
09:54:14
09:55:29
09:56:44
09:57:59
09:59:14
10:00:29
10:01:44
10:02:59
10:04:14
10:05:29
10:06:44
10:07:59
10:09:14
10:10:29
10:11:44
10:12:59
10:14:14
10:15:29
10:16:44
10:17:59
10:19:14
10:20:29
10:21:44
10:22:59
10:24:14
10:25:29
10:26:44
10:27:59
10:29:14
10:30:29
10:31:44
10:32:59
Time/Minutes


Logarithmic Plot of Pressure Decay
1.020
1.000
0.980
0.960
0.940
0.920
0.900
0.880
0.860
0.840
Log Pressure
0.997
0.933
0.900
0.854
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
1.600
1.800
2.000
Log Time
Log Pressure

Raw Logger Data

Device name:	**WHS Data Logger**
Serial number:	17283
Device type:	LEO Record (10.2)
Record name:	REC 10.2 2026.08.13 08-

No	Datetime [local time]	Datetime [UTC]	P1 [bar]
1	09:30:34	Thursday, August 13, 2026	-0.008967876
2	09:30:39	Thursday, August 13, 2026	0.72052002
3	09:30:44	Thursday, August 13, 2026	1.632995605
4	09:30:49	Thursday, August 13, 2026	2.901428223
5	09:30:54	Thursday, August 13, 2026	4.546020508
6	09:30:59	Thursday, August 13, 2026	5.739257813
7	09:31:04	Thursday, August 13, 2026	7.244262695
8	09:31:09	Thursday, August 13, 2026	8.467529297
9	09:31:14	Thursday, August 13, 2026	9.210449219
10	09:31:19	Thursday, August 13, 2026	10.16918945
11	09:31:24	Thursday, August 13, 2026	10.99975586
12	09:31:29	Thursday, August 13, 2026	12.04541016
13	09:31:34	Thursday, August 13, 2026	12.69677734
14	09:31:39	Thursday, August 13, 2026	12.57568359
15	09:31:44	Thursday, August 13, 2026	12.36669922
16	09:31:49	Thursday, August 13, 2026	12.21166992
17	09:31:54	Thursday, August 13, 2026	12.07885742
18	09:31:59	Thursday, August 13, 2026	11.95532227
19	09:32:04	Thursday, August 13, 2026	11.8605957
20	09:32:09	Thursday, August 13, 2026	11.77685547
21	09:32:14	Thursday, August 13, 2026	11.70239258
22	09:32:19	Thursday, August 13, 2026	11.6340332
23	09:32:24	Thursday, August 13, 2026	11.56958008
24	09:32:29	Thursday, August 13, 2026	11.51342773
25	09:32:34	Thursday, August 13, 2026	11.46044922
26	09:32:39	Thursday, August 13, 2026	11.41064453
27	09:32:44	Thursday, August 13, 2026	11.36303711
28	09:32:49	Thursday, August 13, 2026	11.32104492
29	09:32:54	Thursday, August 13, 2026	11.27539063
30	09:32:59	Thursday, August 13, 2026	11.23779297
31	09:33:04	Thursday, August 13, 2026	11.19458008
32	09:33:09	Thursday, August 13, 2026	11.16162109
33	09:33:14	Thursday, August 13, 2026	11.13012695
34	09:33:19	Thursday, August 13, 2026	11.09790039
35	09:33:24	Thursday, August 13, 2026	11.06738281
36	09:33:29	Thursday, August 13, 2026	11.03833008
37	09:33:34	Thursday, August 13, 2026	11.01000977
38	09:33:39	Thursday, August 13, 2026	10.98217773
39	09:33:44	Thursday, August 13, 2026	10.95703125
40	09:33:49	Thursday, August 13, 2026	10.93041992
41	09:33:54	Thursday, August 13, 2026	10.90722656

42	09:33:59	Thursday, August 13, 2026	10.88452148
43	09:34:04	Thursday, August 13, 2026	10.86083984
44	09:34:09	Thursday, August 13, 2026	10.83886719
45	09:34:14	Thursday, August 13, 2026	10.81762695
46	09:34:19	Thursday, August 13, 2026	10.79760742
47	09:34:24	Thursday, August 13, 2026	10.77758789
48	09:34:29	Thursday, August 13, 2026	10.75683594
49	09:34:34	Thursday, August 13, 2026	10.73950195
50	09:34:39	Thursday, August 13, 2026	10.71875
51	09:34:44	Thursday, August 13, 2026	10.69873047
52	09:34:49	Thursday, August 13, 2026	10.67993164
53	09:34:54	Thursday, August 13, 2026	10.66308594
54	09:34:59	Thursday, August 13, 2026	10.64770508
55	09:35:04	Thursday, August 13, 2026	10.63085938
56	09:35:09	Thursday, August 13, 2026	10.61474609
57	09:35:14	Thursday, August 13, 2026	10.60058594
58	09:35:19	Thursday, August 13, 2026	10.58422852
59	09:35:24	Thursday, August 13, 2026	10.56884766
60	09:35:29	Thursday, August 13, 2026	10.55395508
61	09:35:34	Thursday, August 13, 2026	10.5378418
62	09:35:39	Thursday, August 13, 2026	10.52612305
63	09:35:44	Thursday, August 13, 2026	10.51245117
64	09:35:49	Thursday, August 13, 2026	10.49829102
65	09:35:54	Thursday, August 13, 2026	10.48535156
66	09:35:59	Thursday, August 13, 2026	10.47241211
67	09:36:04	Thursday, August 13, 2026	10.46020508
68	09:36:09	Thursday, August 13, 2026	10.44726563
69	09:36:14	Thursday, August 13, 2026	10.4362793
70	09:36:19	Thursday, August 13, 2026	10.42333984
71	09:36:24	Thursday, August 13, 2026	10.4128418
72	09:36:29	Thursday, August 13, 2026	10.40063477
73	09:36:34	Thursday, August 13, 2026	10.38964844
74	09:36:39	Thursday, August 13, 2026	10.37866211
75	09:36:44	Thursday, August 13, 2026	10.36767578
76	09:36:49	Thursday, August 13, 2026	10.35717773
77	09:36:54	Thursday, August 13, 2026	10.34619141
78	09:36:59	Thursday, August 13, 2026	10.3359375
79	09:37:04	Thursday, August 13, 2026	10.32543945
80	09:37:09	Thursday, August 13, 2026	10.31518555
81	09:37:14	Thursday, August 13, 2026	10.3046875
82	09:37:19	Thursday, August 13, 2026	10.2956543
83	09:37:24	Thursday, August 13, 2026	10.28588867
84	09:37:29	Thursday, August 13, 2026	10.27685547
85	09:37:34	Thursday, August 13, 2026	10.26782227
86	09:37:39	Thursday, August 13, 2026	10.25805664
87	09:37:44	Thursday, August 13, 2026	10.24975586
88	09:37:49	Thursday, August 13, 2026	10.24047852
89	09:37:54	Thursday, August 13, 2026	10.23144531
90	09:37:59	Thursday, August 13, 2026	10.22387695
91	09:38:04	Thursday, August 13, 2026	10.21411133

92	09:38:09	Thursday, August 13, 2026	10.20483398
93	09:38:14	Thursday, August 13, 2026	10.19726563
94	09:38:19	Thursday, August 13, 2026	10.18945313
95	09:38:24	Thursday, August 13, 2026	10.1809082
96	09:38:29	Thursday, August 13, 2026	10.17382813
97	09:38:34	Thursday, August 13, 2026	10.16601563
98	09:38:39	Thursday, August 13, 2026	10.1574707
99	09:38:44	Thursday, August 13, 2026	10.14990234
100	09:38:49	Thursday, August 13, 2026	10.14208984
101	09:38:54	Thursday, August 13, 2026	10.13500977
102	09:38:59	Thursday, August 13, 2026	10.12719727
103	09:39:04	Thursday, August 13, 2026	10.12011719
104	09:39:09	Thursday, August 13, 2026	10.11230469
105	09:39:14	Thursday, August 13, 2026	10.10522461
106	09:39:19	Thursday, August 13, 2026	10.09741211
107	09:39:24	Thursday, August 13, 2026	10.09082031
108	09:39:29	Thursday, August 13, 2026	10.08374023
109	09:39:34	Thursday, August 13, 2026	10.07739258
110	09:39:39	Thursday, August 13, 2026	10.0703125
111	09:39:44	Thursday, August 13, 2026	10.06323242
112	09:39:49	Thursday, August 13, 2026	10.05664063
113	09:39:54	Thursday, August 13, 2026	10.05078125
114	09:39:59	Thursday, August 13, 2026	10.04370117
115	09:40:04	Thursday, August 13, 2026	10.03662109
116	09:40:09	Thursday, August 13, 2026	10.03149414
117	09:40:14	Thursday, August 13, 2026	10.02490234
118	09:40:19	Thursday, August 13, 2026	10.01782227
119	09:40:24	Thursday, August 13, 2026	10.01196289
120	09:40:29	Thursday, August 13, 2026	10.00610352
121	09:40:34	Thursday, August 13, 2026	10.00024414
122	09:40:39	Thursday, August 13, 2026	9.993164063
123	09:40:44	Thursday, August 13, 2026	9.988037109
124	09:40:49	Thursday, August 13, 2026	9.982177734
125	09:40:54	Thursday, August 13, 2026	9.975830078
126	09:40:59	Thursday, August 13, 2026	9.970458984
127	09:41:04	Thursday, August 13, 2026	9.964111328
128	09:41:09	Thursday, August 13, 2026	9.958740234
129	09:41:14	Thursday, August 13, 2026	9.953125
130	09:41:19	Thursday, August 13, 2026	9.947265625
131	09:41:24	Thursday, August 13, 2026	9.942138672
132	09:41:29	Thursday, August 13, 2026	9.936279297
133	09:41:34	Thursday, August 13, 2026	9.931640625
134	09:41:39	Thursday, August 13, 2026	9.925292969
135	09:41:44	Thursday, August 13, 2026	9.919433594
136	09:41:49	Thursday, August 13, 2026	9.915039063
137	09:41:54	Thursday, August 13, 2026	9.909912109
138	09:41:59	Thursday, August 13, 2026	9.904785156
139	09:42:04	Thursday, August 13, 2026	9.900146484
140	09:42:09	Thursday, August 13, 2026	9.893798828
141	09:42:14	Thursday, August 13, 2026	9.889160156

142	09:42:19	Thursday, August 13, 2026	9.884033203
143	09:42:24	Thursday, August 13, 2026	9.879394531
144	09:42:29	Thursday, August 13, 2026	9.874511719
145	09:42:34	Thursday, August 13, 2026	9.869140625
146	09:42:39	Thursday, August 13, 2026	9.865966797
147	09:42:44	Thursday, August 13, 2026	9.859375
148	09:42:49	Thursday, August 13, 2026	9.854248047
149	09:42:54	Thursday, August 13, 2026	9.850585938
150	09:42:59	Thursday, August 13, 2026	9.845458984
151	09:43:04	Thursday, August 13, 2026	9.840087891
152	09:43:09	Thursday, August 13, 2026	9.835693359
153	09:43:14	Thursday, August 13, 2026	9.831054688
154	09:43:19	Thursday, August 13, 2026	9.826660156
155	09:43:24	Thursday, August 13, 2026	9.822021484
156	09:43:29	Thursday, August 13, 2026	9.816894531
157	09:43:34	Thursday, August 13, 2026	9.812988281
158	09:43:39	Thursday, August 13, 2026	9.809082031
159	09:43:44	Thursday, August 13, 2026	9.804199219
160	09:43:49	Thursday, August 13, 2026	9.799560547
161	09:43:54	Thursday, August 13, 2026	9.795166016
162	09:43:59	Thursday, August 13, 2026	9.791259766
163	09:44:04	Thursday, August 13, 2026	9.786621094
164	09:44:09	Thursday, August 13, 2026	9.782226563
165	09:44:14	Thursday, August 13, 2026	9.777832031
166	09:44:19	Thursday, August 13, 2026	9.773193359
167	09:44:24	Thursday, August 13, 2026	9.770019531
168	09:44:29	Thursday, August 13, 2026	9.770507813
169	09:44:34	Thursday, August 13, 2026	9.755859375
170	09:44:39	Thursday, August 13, 2026	9.753173828
171	09:44:44	Thursday, August 13, 2026	9.747314453
172	09:44:49	Thursday, August 13, 2026	9.742919922
173	09:44:54	Thursday, August 13, 2026	9.740234375
174	09:44:59	Thursday, August 13, 2026	9.736572266
175	09:45:04	Thursday, August 13, 2026	9.731933594
176	09:45:09	Thursday, August 13, 2026	9.729980469
177	09:45:14	Thursday, August 13, 2026	9.724853516
178	09:45:19	Thursday, August 13, 2026	9.719726563
179	09:45:24	Thursday, August 13, 2026	9.717773438
180	09:45:29	Thursday, August 13, 2026	9.712646484
181	09:45:34	Thursday, August 13, 2026	9.706787109
182	09:45:39	Thursday, August 13, 2026	9.703613281
183	09:45:44	Thursday, August 13, 2026	9.701171875
184	09:45:49	Thursday, August 13, 2026	9.680664063
185	09:45:54	Thursday, August 13, 2026	9.676757813
186	09:45:59	Thursday, August 13, 2026	9.676757813
187	09:46:04	Thursday, August 13, 2026	9.676025391
188	09:46:09	Thursday, August 13, 2026	9.666503906
189	09:46:14	Thursday, August 13, 2026	9.669189453
190	09:46:19	Thursday, August 13, 2026	9.662109375
191	09:46:24	Thursday, August 13, 2026	9.667236328

192	09:46:29	Thursday, August 13, 2026	9.660888672
193	09:46:34	Thursday, August 13, 2026	9.663330078
194	09:46:39	Thursday, August 13, 2026	9.65234375
195	09:46:44	Thursday, August 13, 2026	9.651123047
196	09:46:49	Thursday, August 13, 2026	9.643310547
197	09:46:54	Thursday, August 13, 2026	9.640136719
198	09:46:59	Thursday, August 13, 2026	9.639404297
199	09:47:04	Thursday, August 13, 2026	9.638183594
200	09:47:09	Thursday, August 13, 2026	9.627929688
201	09:47:14	Thursday, August 13, 2026	9.626708984
202	09:47:19	Thursday, August 13, 2026	9.623291016
203	09:47:24	Thursday, August 13, 2026	9.611328125
204	09:47:29	Thursday, August 13, 2026	9.614501953
205	09:47:34	Thursday, August 13, 2026	9.611816406
206	09:47:39	Thursday, August 13, 2026	9.608154297
207	09:47:44	Thursday, August 13, 2026	9.604248047
208	09:47:49	Thursday, August 13, 2026	9.603515625
209	09:47:54	Thursday, August 13, 2026	9.594482422
210	09:47:59	Thursday, August 13, 2026	9.594482422
211	09:48:04	Thursday, August 13, 2026	9.591308594
212	09:48:09	Thursday, August 13, 2026	9.587402344
213	09:48:14	Thursday, August 13, 2026	9.584960938
214	09:48:19	Thursday, August 13, 2026	9.581787109
215	09:48:24	Thursday, August 13, 2026	9.579101563
216	09:48:29	Thursday, August 13, 2026	9.583496094
217	09:48:34	Thursday, August 13, 2026	9.573242188
218	09:48:39	Thursday, August 13, 2026	9.566894531
219	09:48:44	Thursday, August 13, 2026	9.568115234
220	09:48:49	Thursday, August 13, 2026	9.564941406
221	09:48:54	Thursday, August 13, 2026	9.559326172
222	09:48:59	Thursday, August 13, 2026	9.552246094
223	09:49:04	Thursday, August 13, 2026	9.549072266
224	09:49:09	Thursday, August 13, 2026	9.55078125
225	09:49:14	Thursday, August 13, 2026	9.545654297
226	09:49:19	Thursday, August 13, 2026	9.543212891
227	09:49:24	Thursday, August 13, 2026	9.538085938
228	09:49:29	Thursday, August 13, 2026	9.539794922
229	09:49:34	Thursday, August 13, 2026	9.532226563
230	09:49:39	Thursday, August 13, 2026	9.527099609
231	09:49:44	Thursday, August 13, 2026	9.525878906
232	09:49:49	Thursday, August 13, 2026	9.524414063
233	09:49:54	Thursday, August 13, 2026	9.520019531
234	09:49:59	Thursday, August 13, 2026	9.513671875
235	09:50:04	Thursday, August 13, 2026	9.514892578
236	09:50:09	Thursday, August 13, 2026	9.51171875
237	09:50:14	Thursday, August 13, 2026	9.516113281
238	09:50:19	Thursday, August 13, 2026	9.500976563
239	09:50:24	Thursday, August 13, 2026	9.496337891
240	09:50:29	Thursday, August 13, 2026	9.494384766
241	09:50:34	Thursday, August 13, 2026	9.491943359

242	09:50:39	Thursday, August 13, 2026	9.489257813
243	09:50:44	Thursday, August 13, 2026	9.486816406
244	09:50:49	Thursday, August 13, 2026	9.483642578
245	09:50:54	Thursday, August 13, 2026	9.482910156
246	09:50:59	Thursday, August 13, 2026	9.479003906
247	09:51:04	Thursday, August 13, 2026	9.471923828
248	09:51:09	Thursday, August 13, 2026	9.475830078
249	09:51:14	Thursday, August 13, 2026	9.469482422
250	09:51:19	Thursday, August 13, 2026	9.466064453
251	09:51:24	Thursday, August 13, 2026	9.463623047
252	09:51:29	Thursday, August 13, 2026	9.461669922
253	09:51:34	Thursday, August 13, 2026	9.448242188
254	09:51:39	Thursday, August 13, 2026	9.446289063
255	09:51:44	Thursday, August 13, 2026	9.443847656
256	09:51:49	Thursday, August 13, 2026	9.441650391
257	09:51:54	Thursday, August 13, 2026	9.439208984
258	09:51:59	Thursday, August 13, 2026	9.437255859
259	09:52:04	Thursday, August 13, 2026	9.434082031
260	09:52:09	Thursday, August 13, 2026	9.432128906
261	09:52:14	Thursday, August 13, 2026	9.428955078
262	09:52:19	Thursday, August 13, 2026	9.427001953
263	09:52:24	Thursday, August 13, 2026	9.425048828
264	09:52:29	Thursday, August 13, 2026	9.421875
265	09:52:34	Thursday, August 13, 2026	9.420166016
266	09:52:39	Thursday, August 13, 2026	9.417480469
267	09:52:44	Thursday, August 13, 2026	9.414794922
268	09:52:49	Thursday, August 13, 2026	9.412353516
269	09:52:54	Thursday, August 13, 2026	9.410400391
270	09:52:59	Thursday, August 13, 2026	9.407958984
271	09:53:04	Thursday, August 13, 2026	9.406005859
272	09:53:09	Thursday, August 13, 2026	9.403320313
273	09:53:14	Thursday, August 13, 2026	9.400634766
274	09:53:19	Thursday, August 13, 2026	9.398925781
275	09:53:24	Thursday, August 13, 2026	9.396240234
276	09:53:29	Thursday, August 13, 2026	9.394287109
277	09:53:34	Thursday, August 13, 2026	9.391113281
278	09:53:39	Thursday, August 13, 2026	9.389892578
279	09:53:44	Thursday, August 13, 2026	9.387939453
280	09:53:49	Thursday, August 13, 2026	9.385986328
281	09:53:54	Thursday, August 13, 2026	9.382324219
282	09:53:59	Thursday, August 13, 2026	9.380126953
283	09:54:04	Thursday, August 13, 2026	9.377685547
284	09:54:09	Thursday, August 13, 2026	9.375732422
285	09:54:14	Thursday, August 13, 2026	9.373779297
286	09:54:19	Thursday, August 13, 2026	9.371337891
287	09:54:24	Thursday, August 13, 2026	9.368652344
288	09:54:29	Thursday, August 13, 2026	9.366699219
289	09:54:34	Thursday, August 13, 2026	9.364746094
290	09:54:39	Thursday, August 13, 2026	9.361572266
291	09:54:44	Thursday, August 13, 2026	9.359130859

292	09:54:49	Thursday, August 13, 2026	9.358398438
293	09:54:54	Thursday, August 13, 2026	9.358398438
294	09:54:59	Thursday, August 13, 2026	9.353271484
295	09:55:04	Thursday, August 13, 2026	9.351318359
296	09:55:09	Thursday, August 13, 2026	9.350097656
297	09:55:14	Thursday, August 13, 2026	9.352783203
298	09:55:19	Thursday, August 13, 2026	9.359130859
299	09:55:24	Thursday, August 13, 2026	9.347412109
300	09:55:29	Thursday, August 13, 2026	9.339111328
301	09:55:34	Thursday, August 13, 2026	9.337890625
302	09:55:39	Thursday, August 13, 2026	9.3359375
303	09:55:44	Thursday, August 13, 2026	9.333496094
304	09:55:49	Thursday, August 13, 2026	9.331542969
305	09:55:54	Thursday, August 13, 2026	9.329589844
306	09:55:59	Thursday, August 13, 2026	9.325683594
307	09:56:04	Thursday, August 13, 2026	9.323242188
308	09:56:09	Thursday, August 13, 2026	9.321289063
309	09:56:14	Thursday, August 13, 2026	9.319335938
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311	09:56:24	Thursday, August 13, 2026	9.315673828
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650	10:24:39	Thursday, August 13, 2026	8.848876953
651	10:24:44	Thursday, August 13, 2026	8.84765625
652	10:24:49	Thursday, August 13, 2026	8.847167969
653	10:24:54	Thursday, August 13, 2026	8.846435547
654	10:24:59	Thursday, August 13, 2026	8.844970703
655	10:25:04	Thursday, August 13, 2026	8.844482422
656	10:25:09	Thursday, August 13, 2026	8.843017578
657	10:25:14	Thursday, August 13, 2026	8.842529297
658	10:25:19	Thursday, August 13, 2026	8.841796875
659	10:25:24	Thursday, August 13, 2026	8.840576172
660	10:25:29	Thursday, August 13, 2026	8.839111328
661	10:25:34	Thursday, August 13, 2026	8.838623047
662	10:25:39	Thursday, August 13, 2026	8.837890625
663	10:25:44	Thursday, August 13, 2026	8.837158203
664	10:25:49	Thursday, August 13, 2026	8.8359375
665	10:25:54	Thursday, August 13, 2026	8.835449219
666	10:25:59	Thursday, August 13, 2026	8.834716797
667	10:26:04	Thursday, August 13, 2026	8.832763672
668	10:26:09	Thursday, August 13, 2026	8.83203125
669	10:26:14	Thursday, August 13, 2026	8.830810547
670	10:26:19	Thursday, August 13, 2026	8.830078125
671	10:26:24	Thursday, August 13, 2026	8.828857422
672	10:26:29	Thursday, August 13, 2026	8.828369141
673	10:26:34	Thursday, August 13, 2026	8.826904297
674	10:26:39	Thursday, August 13, 2026	8.826904297
675	10:26:44	Thursday, August 13, 2026	8.826416016
676	10:26:49	Thursday, August 13, 2026	8.825683594
677	10:26:54	Thursday, August 13, 2026	8.824462891
678	10:26:59	Thursday, August 13, 2026	8.822998047
679	10:27:04	Thursday, August 13, 2026	8.821777344
680	10:27:09	Thursday, August 13, 2026	8.821044922
681	10:27:14	Thursday, August 13, 2026	8.819824219
682	10:27:19	Thursday, August 13, 2026	8.819335938
683	10:27:24	Thursday, August 13, 2026	8.818603516
684	10:27:29	Thursday, August 13, 2026	8.817138672
685	10:27:34	Thursday, August 13, 2026	8.816650391
686	10:27:39	Thursday, August 13, 2026	8.815917969
687	10:27:44	Thursday, August 13, 2026	8.815185547
688	10:27:49	Thursday, August 13, 2026	8.813964844
689	10:27:54	Thursday, August 13, 2026	8.813476563
690	10:27:59	Thursday, August 13, 2026	8.812255859
691	10:28:04	Thursday, August 13, 2026	8.811523438

692	10:28:09	Thursday, August 13, 2026	8.810058594
693	10:28:14	Thursday, August 13, 2026	8.809570313
694	10:28:19	Thursday, August 13, 2026	8.808349609
695	10:28:24	Thursday, August 13, 2026	8.807617188
696	10:28:29	Thursday, August 13, 2026	8.806396484
697	10:28:34	Thursday, August 13, 2026	8.805664063
698	10:28:39	Thursday, August 13, 2026	8.804931641
699	10:28:44	Thursday, August 13, 2026	8.803710938
700	10:28:49	Thursday, August 13, 2026	8.803222656
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704	10:29:09	Thursday, August 13, 2026	8.799804688
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706	10:29:19	Thursday, August 13, 2026	8.797851563
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711	10:29:44	Thursday, August 13, 2026	8.793457031
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715	10:30:04	Thursday, August 13, 2026	8.790283203
716	10:30:09	Thursday, August 13, 2026	8.789550781
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728	10:31:09	Thursday, August 13, 2026	8.779541016
729	10:31:14	Thursday, August 13, 2026	8.778808594
730	10:31:19	Thursday, August 13, 2026	8.778076172
731	10:31:24	Thursday, August 13, 2026	8.776855469
732	10:31:29	Thursday, August 13, 2026	8.776123047
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734	10:31:39	Thursday, August 13, 2026	8.774169922
735	10:31:44	Thursday, August 13, 2026	8.773681641
736	10:31:49	Thursday, August 13, 2026	8.772949219
737	10:31:54	Thursday, August 13, 2026	8.772460938
738	10:31:59	Thursday, August 13, 2026	8.770996094
739	10:32:04	Thursday, August 13, 2026	8.769775391
740	10:32:09	Thursday, August 13, 2026	8.769775391
741	10:32:14	Thursday, August 13, 2026	8.768554688

742	10:32:19	Thursday, August 13, 2026	8.767333984
743	10:32:24	Thursday, August 13, 2026	8.766601563
744	10:32:29	Thursday, August 13, 2026	8.765869141
745	10:32:34	Thursday, August 13, 2026	8.765380859
746	10:32:39	Thursday, August 13, 2026	8.764160156
747	10:32:44	Thursday, August 13, 2026	8.763427734
748	10:32:49	Thursday, August 13, 2026	8.762695313
749	10:32:54	Thursday, August 13, 2026	8.762207031
750	10:32:59	Thursday, August 13, 2026	8.760742188
751	10:33:04	Thursday, August 13, 2026	8.760253906
752	10:33:09	Thursday, August 13, 2026	8.759521484
753	10:33:14	Thursday, August 13, 2026	8.759033203
754	10:33:19	Thursday, August 13, 2026	8.758300781
755	10:33:24	Thursday, August 13, 2026	8.757080078
756	10:33:29	Thursday, August 13, 2026	8.756347656
757	10:33:34	Thursday, August 13, 2026	8.755615234
758	10:33:39	Thursday, August 13, 2026	8.755126953
759	10:33:44	Thursday, August 13, 2026	8.754394531
760	10:33:49	Thursday, August 13, 2026	8.753173828

Raw Data

Raw Data

Raw Data

Raw Data

Raw Data

Raw Data

Raw Data

Raw Data

Raw Data

ABOUT WATER HYGIENE SOLUTIONS LTD

Water Hygiene Solutions Ltd is a specialist technical water hygiene company providing services including new main commissioning including pressure testing and chlorination. Tank cleaning and chlorination work, water hygiene consultancy, water treatment chemicals and equipment.

We have an excellent reputation nationwide both for the quality of work we undertake and the expertise and experience of our staff. Our can do attitude ensures that our clients obtain the work they require when they require it, particularly important when deadlines are looming.

With a commitment to staff development and with significant health and safety budget you can be assured of a quality service every time.

OUR SERVICES INCLUDE



New Main Commissioning – Swabbing, pressure testing and disinfection of new mains pipe work is essential to ensure compliance with Water Authority requirements. We can provide fully data logged pressure testing to the IGN04-01:2015 standard as well as fully traceable chlorination to the IGN and British Standards. We are able to commission large lengths of pipe (upwards of 1000m) of large bore in both PE and ductile.



Building Disinfection – New buildings, refurbishments and alterations to building water systems require disinfection to meet the British Standard BS EN 806, BS8558:2015 and PD855468. We can provide fully compliant disinfection and certification for all building types. We can also provide disinfection of contaminated water systems to the same high standards and can also provide full UKAS microbiological certification to ensure compliance.



Water Tank Cleaning - Regardless of the type of water system it is important that water hygiene is maintained. Water storage tanks especially require regular cleaning to remove debris and bacteria build up and maintain hygiene. Even new water tanks should be chlorinated prior to use to maintain potable water quality. Our specialist teams and equipment can provide cleaning and chlorination of all types and sizes of domestic and industrial water tanks including underground rain water harvesting tanks.



Legionella Management - It is vital to ensure that systems do not pose a risk of Legionnaires Disease and operate within the HSE guidelines. By carrying out bespoke water hygiene risk assessments we are able to determine the risks and provide advice on how to reduce these. It also allows us to design a Legionella control program based on current legislation. Our trained hygiene engineers can provide testing and monitoring of your site to ensure Legionella risk is managed at all times. A site specific log book for records ensures legislative compliance.



Chlorine Dioxide Water Treatment – Chlorine dioxide is an ideal water treatment option to reduce bacteria numbers and maintain water hygiene. It has applications both in potable water supplies for the control of Legionella and general water hygiene and also in process systems such as food manufacturing where bacterial control is important. We provide safe generation and dosage of chlorine dioxide in all applications with chemical supply and routine service.

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The Geological Society

IEMA – Transforming the world to sustainability

JOMAS ASSOCIATES LTD

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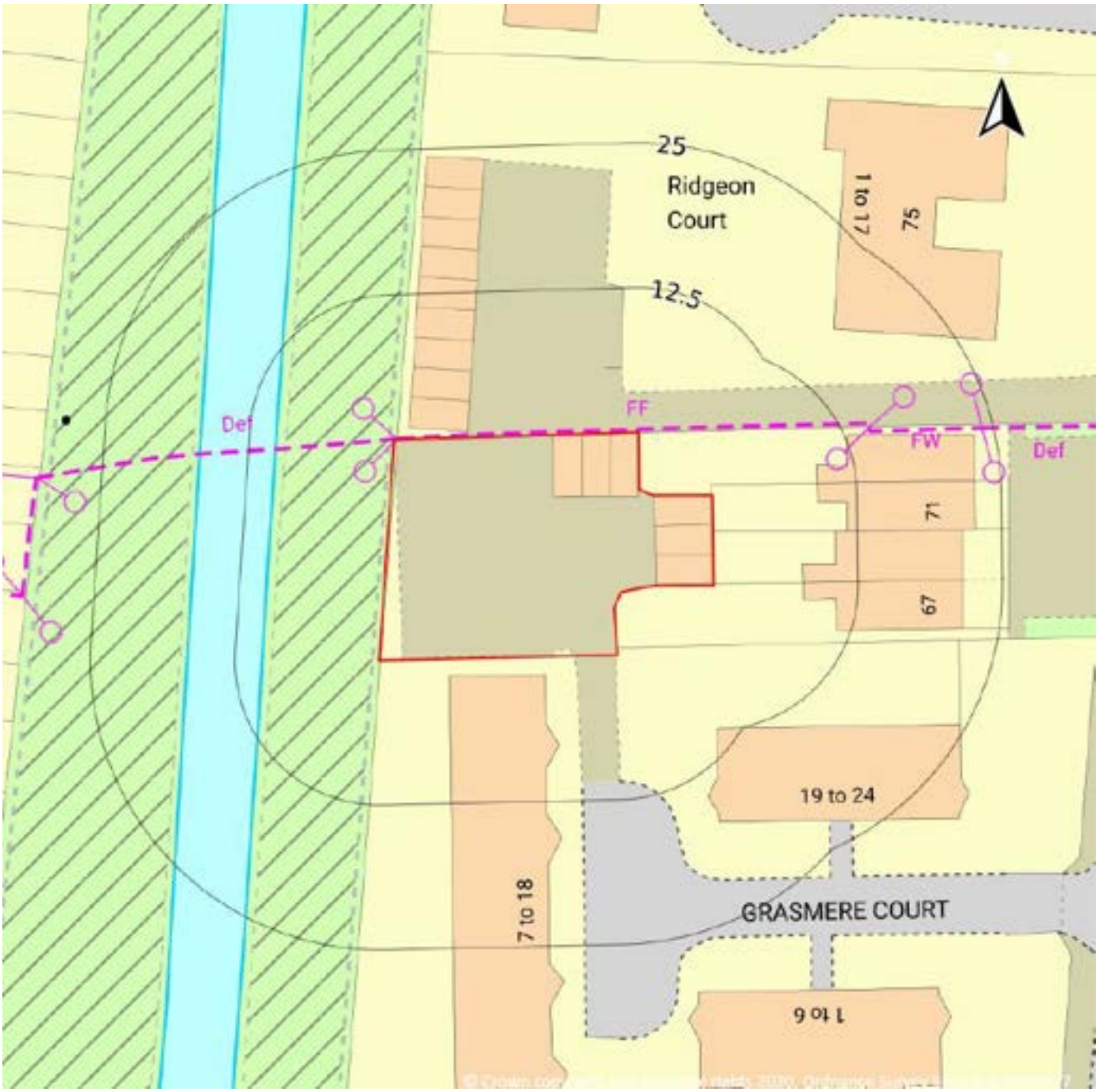
Tel: 0333 305 9054

Email: info@jomasassociates.com

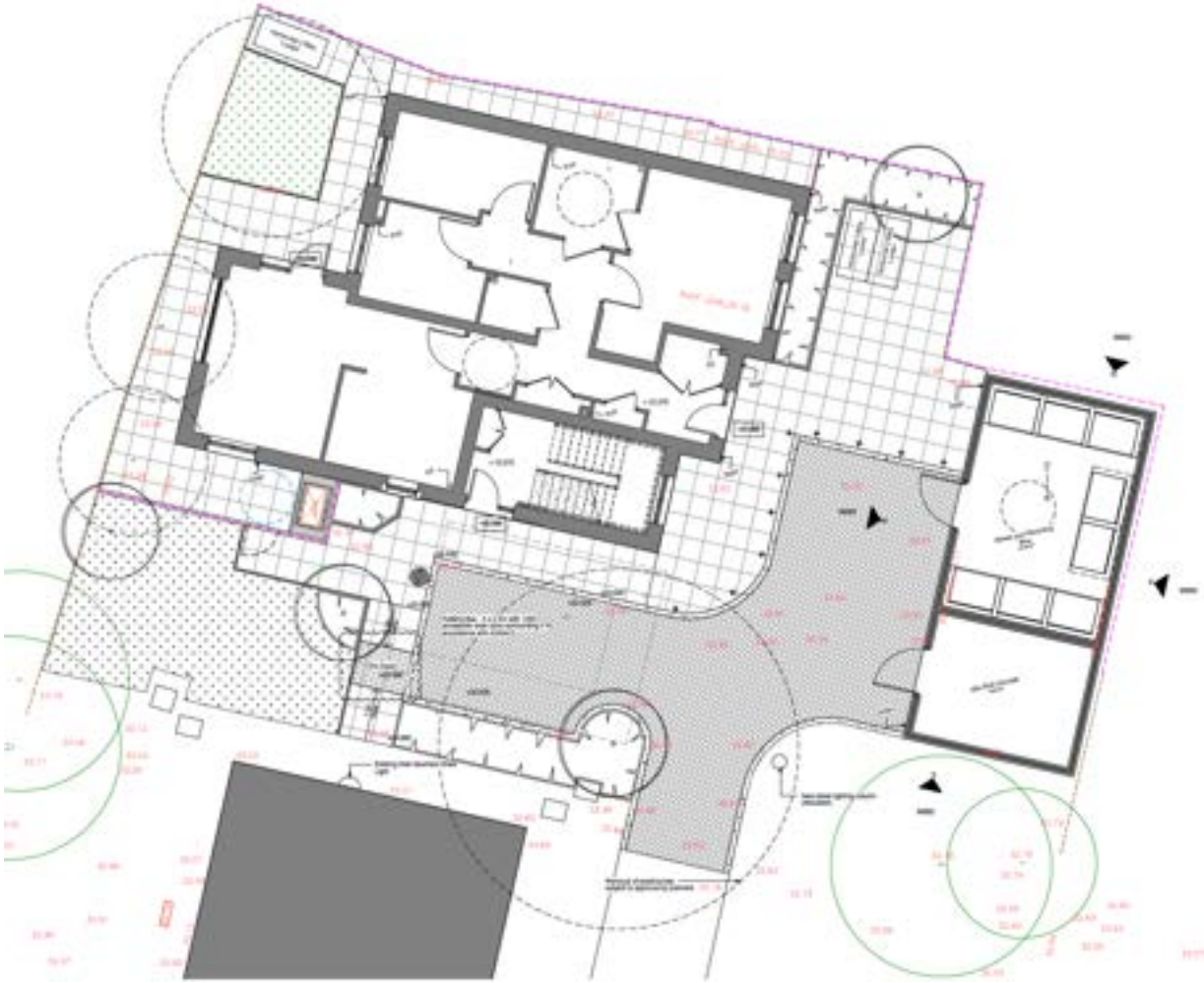
APPENDICES

APPENDIX 1 – FIGURES

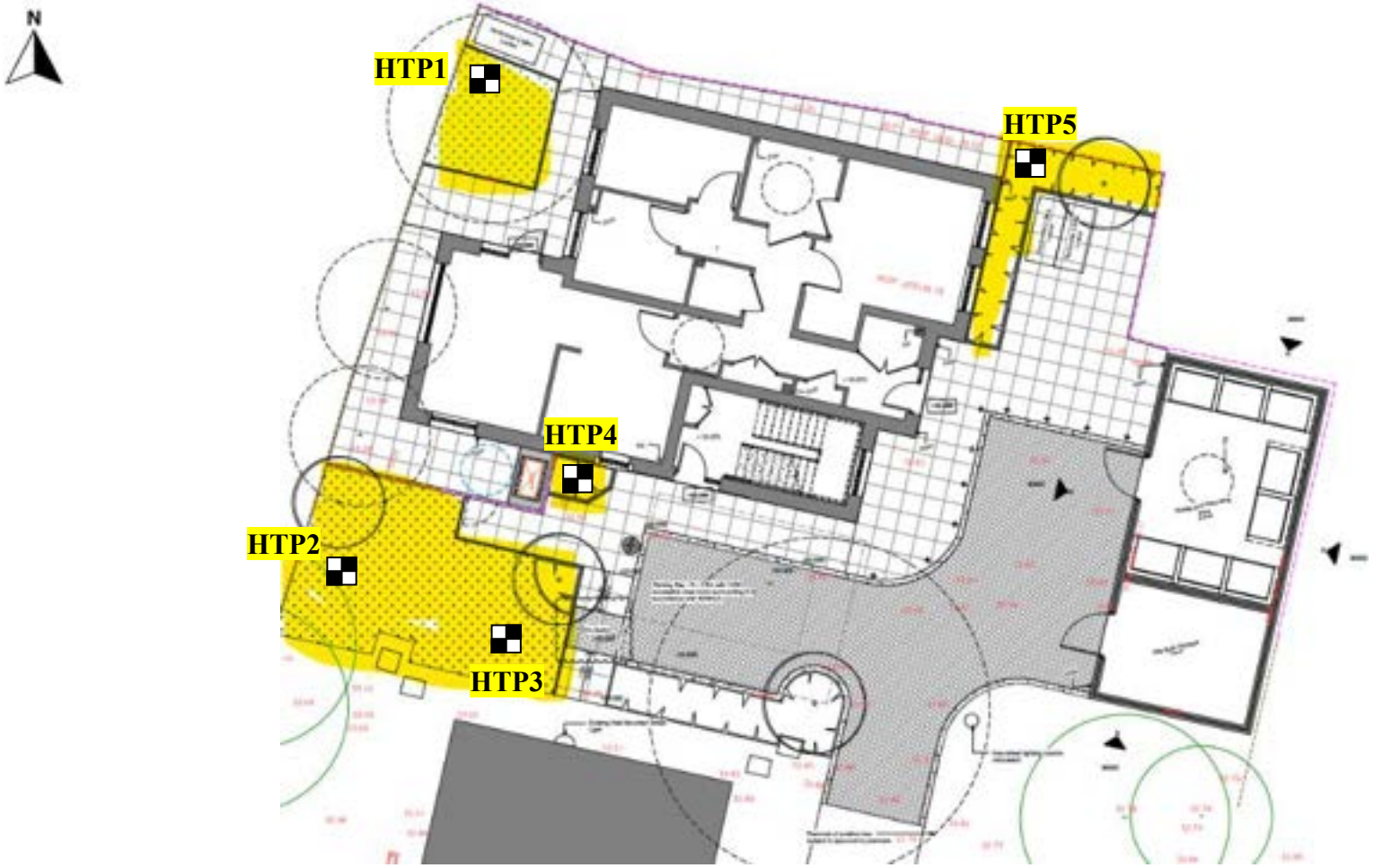
PROJECT NAME	Grasmere Court	**CLIENT**	Indecon Building Limited
TITLE	Site Location Plan	**PROJECT NO.**	P3108J2129b
DATE	October 2025	**FIGURE NO.**	1



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Proposed Development Plan	**PROJECT NO.**	P3108J2129b
DATE	October 2026	**FIGURE NO.**	2



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Plan	**PROJECT NO.**	P3108J2129b
DATE	24/09/2026	**FIGURE NO.**	3



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 1: HTP1



Photo 2: HTP1 depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 3: HTP2



Photo 4: HTP2 Depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 5: HTP3



Photo 6: HTP3 Depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 7: HTP4



Photo 8: HTP4 depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 9: HTP5



Photo 10: HTP5 Depth



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 11: HTP1 site location



Photo 12: HTP2, HTP3, HTP4 site locations



PROJECT NAME	Grasmere Court, Palmerston Road, N22 8QR	**CLIENT**	Indecon Building Limited
TITLE	Topsoil Validation Technote	**FIGURE**	4

Photo 11: HTP5 site location



Photo 12: Site photo



APPENDIX 2 – LABORATORY CHEMICAL TEST DATA (TOPSOIL VALIDATION TESTING)

Analytical Test Report	**E26/12833/JOM/26-43218**	**Tested on Behalf of**
Clients Project Reference	J2129B Grasmere Court, Palmerston Road, N22 8QR	Jomas Associates
Clients Order Number	P3108J2129B.7	Unit 24 Sarum Complex,
Sample(s) Analysed	4	Salisbury Road,
Sample(s) received / instructed	29/09/2026 / 29/09/2026	
Sample(s) Tested	29/09/2026 to 07/10/2026	
Report issued	07/10/2026	UB8 2RZ
Report issue number	1	

Signed



Emily Blissett
Report Manager

Notes:

General

This report shall not be reproduced except in full

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples were supplied by customer, results apply to the samples as received.

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Moisture Content was determined in accordance with ECT method statement MS - CL - Sample Prep, oven dried at <30˚C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with ECT method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Please note: Where further analysis is required, samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and other than the asbestos test(s) these results are not covered by our accreditation.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

U = UKAS Accreditation, M = MCERTS Accreditation, N = Unaccredited, SC = Subcontracted

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference					899378	899379	899380
Client Sample ID					-	-	-
Client Sample Location					HTP1	HTP2	HTP5
Client Sample Type					ES	ES	ES
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					0.3	0.4	0.1
Depth - Bottom (m)					0.3	0.4	0.1
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	**Code**	**Units**	**LOD**	**Accreditation**			
Arsenic	ICPMETS	mg/kg	10	M	< 10	< 10	< 10
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5	< 2.5	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	1.0	1.0	1.0
Chromium (Total)	ICPMETS	mg/kg	1	U	14	15	15
Copper	ICPMETS	mg/kg	2	M	22	22	22
Lead	ICPMETS	mg/kg	1.5	M	25	25	25
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	15	15	15
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	59	57	57
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.20	0.24	0.24
pH	PHS	pH units	1	M	8.1	8.1	8.2
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	630	720	710
Asbestos	ASB	p/a	-	U	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	< 0.02	< 0.02	< 0.02
Anthracene	PAHASRDS	mg/kg	0.02	U	0.03	< 0.02	0.03
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.14	0.08	0.14
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.14	0.09	0.15
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.15	0.10	0.17
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.11	0.08	0.12
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.07	0.04	0.07
Chrysene	PAHASRDS	mg/kg	0.02	M	0.12	0.08	0.13
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Fluoranthene	PAHASRDS	mg/kg	0.02	M	0.32	0.19	0.28
Fluorene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Indeno[1,2,3,-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.09	0.06	0.09
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02	< 0.02
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.16	0.10	0.14
Pyrene	PAHASRDS	mg/kg	0.02	M	0.28	0.16	0.25

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference	**899381**
Client Sample ID	-
Client Sample Location	HTP4
Client Sample Type	ES
Client Sample Number	-
Supplier / Source	-
Client Material	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	-
Time of Sampling	-
Sample Matrix	Clay

Determinant	**Code**	**Units**	**LOD**	**Accreditation**	
Arsenic	ICPMETS	mg/kg	10	M	< 10
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	1.0
Chromium (Total)	ICPMETS	mg/kg	1	U	15
Copper	ICPMETS	mg/kg	2	M	22
Lead	ICPMETS	mg/kg	1.5	M	25
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5
Nickel	ICPMETS	mg/kg	1	M	16
Selenium	ICPMETS	mg/kg	8	N	< 8.0
Zinc	ICPMETS	mg/kg	2	M	59
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.21
pH	PHS	pH units	1	M	8.1
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	670
Asbestos	ASB	p/a	-	U	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	< 0.02
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	< 0.02
Anthracene	PAHASRDS	mg/kg	0.02	U	0.02
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.14
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.14
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.15
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.10
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.07
Chrysene	PAHASRDS	mg/kg	0.02	M	0.13
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	< 0.02
Fluoranthene	PAHASRDS	mg/kg	0.02	M	0.30
Fluorene	PAHASRDS	mg/kg	0.02	M	< 0.02
Indeno[1,2,3,-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.08
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.15
Pyrene	PAHASRDS	mg/kg	0.02	M	0.25

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference					899378	899379	899380
Client Sample ID					-	-	-
Client Sample Location					HTP1	HTP2	HTP5
Client Sample Type					ES	ES	ES
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					0.3	0.4	0.1
Depth - Bottom (m)					0.3	0.4	0.1
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	**Code**	**Units**	**LOD**	**Accreditation**			
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	1.7	1.1	1.7
Petrol or Diesel contamination?	FUELID	-	-	N	Neither Detected	Neither Detected	Neither Detected

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - ENV Analysis Solids

Lab Reference	**899381**
Client Sample ID	-
Client Sample Location	HTP4
Client Sample Type	ES
Client Sample Number	-
Supplier / Source	-
Client Material	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	-
Time of Sampling	-
Sample Matrix	Clay

Determinant	**Code**	**Units**	**LOD**	**Accreditation**	
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	1.6
Petrol or Diesel contamination?	FUELID	-	-	N	Neither Detected

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - EPHVPHS

Lab Reference					899378	899379	899380
Client Sample ID					-	-	-
Client Sample Location					HTP1	HTP2	HTP5
Client Sample Type					ES	ES	ES
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					0.3	0.4	0.1
Depth - Bottom (m)					0.3	0.4	0.1
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	**Code**	**Units**	**LOD**	**Accreditation**			
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	24	22	18
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	250	250	220
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	48	45	46
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	31	29	25
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	300	290	270
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	330	330	300

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analytical Test Results - EPHVPHS

Lab Reference	**899381**
Client Sample ID	-
Client Sample Location	HTP4
Client Sample Type	ES
Client Sample Number	-
Supplier / Source	-
Client Material	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	-
Time of Sampling	-
Sample Matrix	Clay

Determinant	**Code**	**Units**	**LOD**	**Accreditation**	
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	25
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	250
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	51
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	31
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	310
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	340

***For details on the specific matrices covered by the determinant please consult the methods p**

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
899378	-	HTP1	SOIL	-	Brown sandy silty clay	16	< 0.1	100
899379	-	HTP2	SOIL	-	Brown sandy silty clay	16	< 0.1	100
899380	-	HTP5	SOIL	-	Brown sandy silty clay	18	< 0.1	100
899381	-	HTP4	SOIL	-	Brown sandy silty clay	18	< 0.1	100

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Analysis Methodologies - Please refer to sample comments page (if present) for any changes to methods Methods

Site addresses where testing is performed: Leicester - 7-11 Harding Street, Leicester, LE1 4DH
Poole - Unit D11, Admiralty Park, Station Road, Holton Heath, Poole, BH16 6HX and Unit 14 Blackhill Rd W, Poole BH16 6LE

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Site	Accredited Matrices	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Leicester		Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
ASB	MS - AS - Asbestos	-	-	Leicester	SOIL, BULK MATERIAL	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Leicester		Determination of total sulphate in soils by acid extraction followed by ICP analysis
FUELID	Chromatograph	-	-	Leicester		In house review of scheduled hydrocarbon analysis based on chromatographs, results are qualitative and indicative only
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Leicester	SOIL	Determination of metals in soils via ICP
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of Polyaromatic hydrocarbons in soil via GC-MS
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Leicester		Preparation of samples (including determination of moisture content) to allow for subsequent analysis
SKALARCNS	MS - CL - Cyanide by Skalar	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of cyanide (total / free / complex) in soil using a Skalar segmented flow analyser
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Leicester		Determination of hexavalent chromium in soil using Skalar segmented flow analyser
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of total phenols in soil using Skalar segmented flow analyser
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Leicester		Determination of Water soluble Boron in soils via ICP

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided
W - No time of sampling provided
C - Received in inappropriate container
H - Contains headspace
T - Temperature on receipt exceeds storage temperature
R - Sample(s) received outside standard identified timescales for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
899378		HTP1				A
899379		HTP2				A
899380		HTP5				A
899381		HTP4				A

E26/12833/JOM/26-43218

J2129B Grasmere Court, Palmerston Road, N22 8QR

HWOL TPH Acronym Index

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Key of Codes	
[1]	EH_1D_TOTAL
[2]	EH_CU_1D_TOTAL
[3]	EH_CU+HS_1D_TOTAL
[4]	EH_1D+HS_MS_TOTAL
[5]	HS_MS_1D_AL
[6]	HS_MS_1D_AR
[7]	HS_MS_1D_TOTAL
[8]	EH_CU_1D_AL
[9]	EH_CU_1D_AR
[10]	EH_2D+HS_1D_TOTAL
[11]	EH_CU_2D+HS_1D_TOTAL
[12]	EH_2D_TOTAL
[13]	EH_2D_AL
[14]	EH_2D_AR
[15]	EH_CU_2D_TOTAL
[16]	EH_CU_2D_AL
[17]	EH_CU_2D_AR

APPENDIX 3 – TRANSFER NOTES FOR WASTE DISPOSAL OFF-SITE

Thames Materials Ltd.
Harvil Road, Skip Lane,
Harefield Uxbridge, Middlesex,
UB9 6RP
Phone: 02088407233

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOCOL

CONSIGNOR CONFIRMS THAT THE WASTE HIERARCHY HAS BEEN APPLIED

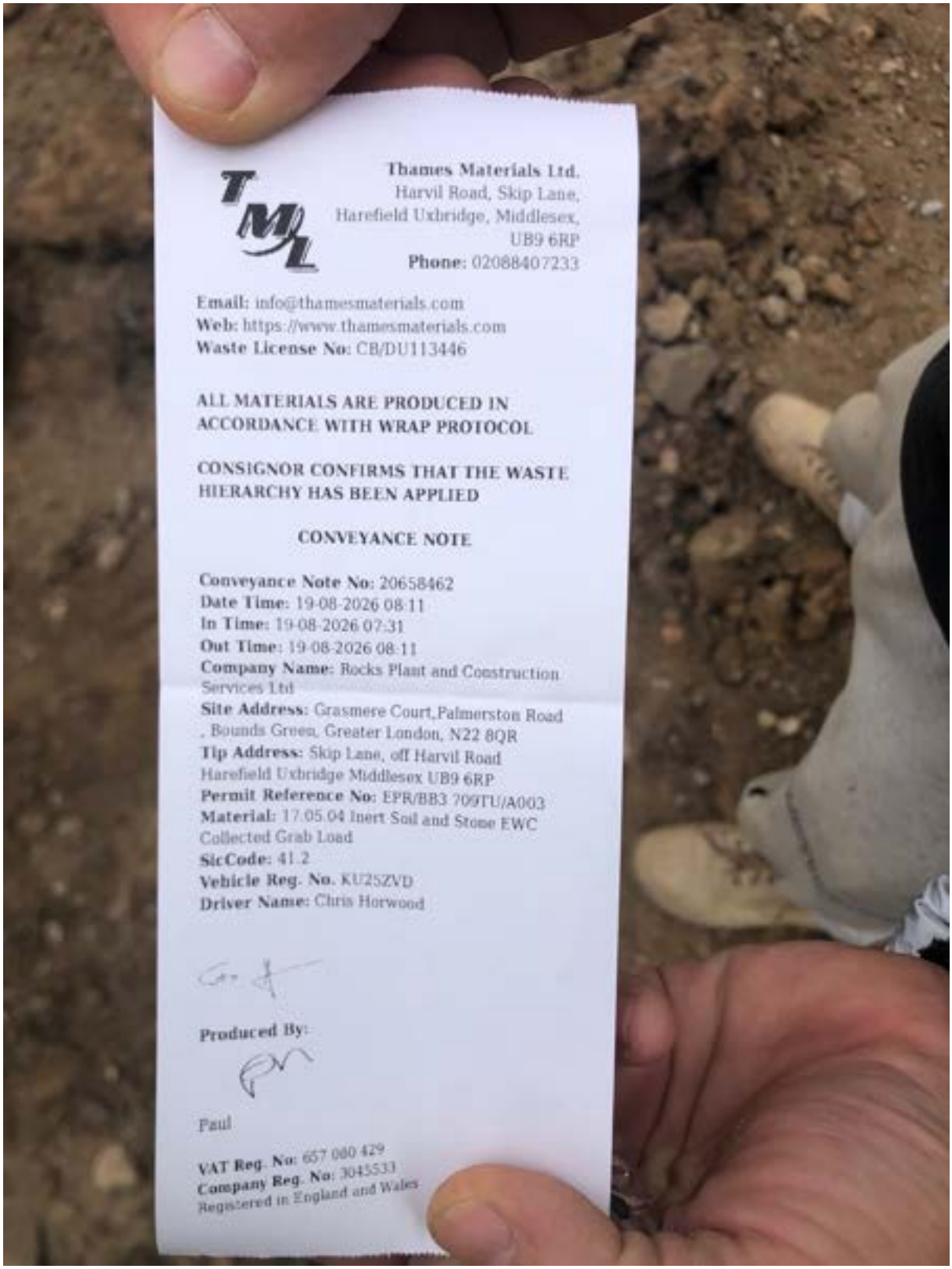
CONVEYANCE NOTE

Conveyance Note No: 20658805
Date Time: 20-08-2026 10:10
In Time: 20-08-2026 09:49
Out Time: 20-08-2026 10:10
Company Name: Rocks Plant and Construction Services Ltd
Site Address: Grasmere Court,Palmerston Road , Bounds Green, Greater London, N22 8QR
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU/A003
Material: 17.05.04 Inert Soil and Stone EWC Collected Grab Load
SicCode: 41.2
Vehicle Reg. No. KU25ZVF
Driver Name: Rob North

Produced By:

liudas

VAT Reg. No: 657 080 429
Company Reg. No: 3045533
Registered in England and Wales



Thames Materials Ltd.
Harvil Road, Skip Lane,
Harefield Uxbridge, Middlesex,
UB9 6RP
Phone: 02088407233

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOCOL

CONSIGNOR CONFIRMS THAT THE WASTE HIERARCHY HAS BEEN APPLIED

CONVEYANCE NOTE

Conveyance Note No: 20658462
Date Time: 19-08-2026 08:11
In Time: 19-08-2026 07:31
Out Time: 19-08-2026 08:11
Company Name: Rocks Plant and Construction Services Ltd
Site Address: Grasmere Court,Palmerston Road , Bounds Green, Greater London, N22 8QR
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU/A003
Material: 17.05.04 Inert Soil and Stone EWC Collected Grab Load
SicCode: 41.2
Vehicle Reg. No. KU25ZVD
Driver Name: Chris Horwood

Produced By:

Paul

VAT Reg. No: 657 080 429
Company Reg. No: 3045533
Registered in England and Wales

APPENDIX 4 – CLIENT CONFIRMATIONS

Dominic Hutchins

From: Ross Fox <ross@indeconlimited.co.uk>
Sent: 13 October 2026 14:06
To: Dominic Hutchins
Cc: Mark Davison; Vasyl Kukurudza; Projects
Subject: RE: P3108J2129b - DJH - Grasmere Court, Palmerston Road, N22 8QR
Attachments: 1826-10754_WHS Service Main Commissioning Report_Grasmere Court Garage Site (Indecon Building Ltd).pdf; 1826-10754_WHS Lab Samples - Grasmere Court Garage Site (Indecon Building Ltd).pdf; 1826-10754_WHS Pressure Test - Grasmere Court Garage Site (Indecon Building Ltd).pdf

Caution: This email originated from outside of the Jomas Associates organisation. Do not open attachments or links unless you recognise the sender and know the content is safe

Hi Dominic,

Please see attached chlorination testing the utility pipework in the site, these documents confirm the pipe type and testing results.
No further contamination was observed during the works.
Waste consignment notes attached.

Kind regards Ross

Thames Mater
Harvil Road, S
Harefield Uxbridge, M

Phone: 0208

Email: info@thamesmaterials.com
Web: https://www.thamesmaterials.com
Waste License No: CB/DU113446

ALL MATERIALS ARE PRODUCED IN ACCORDANCE WITH WRAP PROTOC

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Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU
Material: 17.05.04 Inert Soil and Stone Collected Grab Load
SicCode: 41.2



Thames Materials L
Harvil Road, Skip La
Harefield Uxbridge, Middles
UB9 6
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Waste License No: CB/DU113446

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CONSIGNOR CONFIRMS THAT THE WAST HIERARCHY HAS BEEN APPLIED

CONVEYANCE NOTE

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Date Time: 19-08-2026 08:11
In Time: 19-08-2026 07:31
Out Time: 19-08-2026 08:11
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Site Address: Grasmere Court,Palmerston Roa , Bounds Green, Greater London, N22 8QR
Tip Address: Skip Lane, off Harvil Road Harefield Uxbridge Middlesex UB9 6RP
Permit Reference No: EPR/BB3 709TU/A00

Ross Fox BSc (Hons) MCIOB
Director

Indecon Building Limited | South Hanningfield Road, Wickford, SS11 7PF
Tel : 01268 711117 Mob : 07714 136812



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From: Dominic Hutchins <djh@jomasassociates.com>
Sent: 13 October 2026 11:52
To: Ross Fox <ross@indeconlimited.co.uk>
Cc: Mark Davison <Mark@indeconlimited.co.uk>; Vasyl Kukurudza <Vasyl@indeconlimited.co.uk>; Projects <projects@jomasassociates.com>
Subject: RE: P3108J2129b - DJH - Grasmere Court, Palmerston Road, N22 8QR

Good morning Ross,

I just need a few things from yourself to finish off getting the verification report through the door.

1. Could you confirm that the utility pipework has been installed in accordance with the supplier's requirements and provide any associated documentation for the pipework.
2. Could you confirm that no further evidence of contamination was observed during the construction phase of works on site.
3. Please can you provide the waste consignment notes of the soils removed from site.

Kind regards,

Dominic John Hutchins
BEng (Hons), FGS
Geotechnical Engineer

T: 07936 698 438
E: djh@jomasassociates.com
www.jomasassociates.com

WATER HYGIENE
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NEW SERVICE MAIN COMMISSIONING REPORT







WATER MAINS DISINFECTION

Commissioning Procedure

Your mains water supply pipe has recently been commissioned. This involves various processes such as swabbing, pressure testing, flushing and chlorination.

A pressure test to the latest version of the WIS 4-01-03:2024 may have been performed utilizing a data logging pressure gauge. This information is provided in a separate document.

The chlorination procedure involves the introduction of around 50 ppm of free chlorine from sodium hypochlorite and allowing it to stand for a minimum of 1 hour. This is the standard set out by most Water Authorities and is documented in the PD855468:2015.

The chlorine within the pipe is tested after the standing time to ensure that the chlorine levels have remained at or above the target strength for the whole period.

Once the chlorine has stood for the allotted time the chlorine is purged from the system. Where it is necessary to neutralise any active chlorine to prevent environmental damage this is done through the use of liquid sodium thiosulphate to react with the chlorine and render it safe.

Chlorine measurements are once more taken from the system to ensure that all chlorine has been removed and that levels are identical to those present in the supply water.

Once chlorine levels are normal the system is sampled for microbiology and it is then capped/closed to prevent any ingress of dirt, and a chlorination certificate is completed detailing all facts and figures of the chlorination. All samples are sent away for analysis by a UKAS accredited laboratory.

What Now?

Your chlorination has now been carried out and you have your certificate of chlorination. This section details what to do next.

The Water Authority will require the completed new mains commissioning report below along with the pressure test certificate and laboratory sample analysis report. Do not send just the chlorination certificate as it is not adequate alone. Store the commissioning report, pressure test and laboratory sample analysis report together for future reference.

Please note that a commissioning report and laboratory analysis report is generally valid for a limited time and connections must be carried out within the time period determined by your Water Authority. Failure to do so may render the chlorination certificate invalid. This time period can vary but is generally between 7-10 days from date of sampling. Failure to connect within this time frame will result in further works being required from a flush and resample to a full re-chlorination.

Once connection is approved it may be necessary to perform a flush and connection validation sample to ensure that no contamination entered the pipe work during connection. Water Hygiene Solutions can provide this further service if required.

Job **Ref:** 1826 - 10754 **Job Start Date:** 13/08/2026	**Lead Engineer** **Name:** Danny Stevens **EUSR Number:** 459742
Client Indecon Building Ltd South Hanningfield Road Wickford Essex SS11 7PF	**Site** Grasmere Court Garage Site Palmerston Road London United Kingdom N22 8QR

Certificate of Commissioning

This is to certify that new mains detailed in the breakdown below at **Grasmere Court Garage Site**, have been commissioned in line with BS8558/PD855468 on **13/08/2026**

Description	Pipe OD	Length
15m of 63mm	63 mm	15 m

Lead Engineer: Danny Stevens

Engineer Signature:

Certificate of Commissioning

This certification is only valid with the attached work report **1826 - 10754** which provides details on disinfectant type/strength and contact time and proves adherence to the above standards. If you have any concerns over the validity of this certificate please contact Water Hygiene Solutions Ltd directly.

Contents

Certificate of Commissioning 4
Job Details 6
Parent Supply Flushing Information 6
Pipe Details 7
Swabbing 8
Swab Record 8
Pressure Test 9
Pressure Test Details 9
Pre-Chlorination Flushing 10
Flushing Information 10
Chlorination Phase 11
Chlorination Start Details 11
Chlorination Equipment In-Situ 11
Chlorination Details 11
Chlorination Levels 12
Post Chlorination Phase 13
Post Chlorination Flushing 13
Water Quality Sampling 14
Samples Taken 14
Job Photographs 15
Method Statement 16
General 16
Commissioning Procedure 18

Water Mains Commissioning Report
In Line With BS8558/PD855468

Job Details

Start Date	13/08/2026
GPS Location	51.60814450215716,-0.11494585827856765
Site Photo	

Parent Supply Flushing Information

Parent Supply	Main supply	**Flow rate**	12 L/min
			
Meter Reading Start	0.0	**Meter Reading End**	300
Volume Flushed	300.0 L	**Turbidity**	0.01 NTU

Pipe Details

Location	Material	SDR	Diameter	Length	Volume
15m of 63mm	MDPE	SDR 11	63 mm	15 m	31.0 L
Total Pipe Volume	31 L				

Swabbing

			
Meter Reading Start	300	**Meter Reading End**	400
Water Volume Used	100 L		

Swab Record

Type	**Size**	**Run Number**	**Clear**
Soft	72mm	1	Yes
51.60813274118856,-0.11501723024054687		51.608227546575975,-0.11503689253280559	
From Description		**To Description**	
Pipe start		Pipe end	
Swab Photograph			



Pressure Test

Pressure Test Performed	Yes

Pressure Test Details

Pressure Test Type	Hydrostatic Test to WIS 4-01-03:2024
Test Coordinates	51.608294205876525,-0.11502530076768344
Test Photograph	
Pass or Fail	Pass

Pre-Chlorination Flushing

Flushing Information

			
Meter Reading Start	400	**Meter Reading End**	500
Volume Flushed	100 L		

Chlorination Phase

Chlorination Start Details

Disinfection Chemical	Sodium Hypochlorite

Chlorination Equipment In-Situ



Chlorination Details





Meter Reading Start	500	**Meter Reading End**	590
Volume Flushed	90 L		

Chlorination Levels

Location	Free Cl_2 Start (mgL^{-1})	Free Chlorine Start Photo	Start Chlorine Time	Free Cl_2 End (mgL^{-1})	Free Chlorine End Photo	End Chlorine Time	Chlorine Contact Time
Pipe End	56.50		11:00	56.00		12:00	60

Post Chlorination Phase

Post Chlorination Flushing

			
Meter Reading Start	600	**Meter Reading End**	950
Volume Flushed	350 L		
Pipe Sealed	Yes	**Pipe Left Pressurised**	Unable To Due to Fitting of End Caps
WHS End Caps Used	1		

Water Quality Sampling

Samples Taken

All sample locations have been sampled to meet the requirements of . All samples have been analysed by a UKAS accredited laboratory.

Location	Suite	Free Cl_2 (mgL^{-1})	Total Cl_2 (mgL^{-1})	Turbidity (NTU)	pH	EC (µS)	Onsite Odour	Onsite Taste	Time
Main supply 51.60813993228486,-0.1149445383546848	Thames	0.43	0.56	0.01	7.85	603	No discernible odour	No discernible taste	08:40
Pipe end 51.6083559242576,-0.11501801997823648	Thames	0.45	0.57	0.01	7.85	597	No discernible odour	No discernible taste	12:20

Job Photographs



Pipe Run



Pipe end



Start of pipe

Method Statement

Commissioning Of Mains Supplies & New Lay Mains Pipe Work to PD855468:2015 Utilising a Mains Supply Feed

General

The following disinfection procedure is designed to commission new mains pipe work to PD855468:2015. It covers all aspects of commissioning including swabbing, pressure testing, flushing, chlorination and sampling and all steps should be performed at some point to effectively commission a new service main.

When pressure testing it is important to be aware of the pressures and end loads involved and areas should be barriered off and an exclusion zone set (especially in a direct line from the ends of pipes). Where necessary end fittings should be braced and checks should be made to ensure correct thrust blocks are in place at required locations.

It is important to ensure that when chlorinating mains water systems that all precautions are taken to ensure no backflow of chlorinated water can occur and contaminate the mains supply. It is also important to ensure that people working within the area fed by the water system are informed and cannot accidently come into contact with chemically treated water.

Equipment Used

1. WHS battery powered proportional chlorination machine
2. Clean double check valve hydrant standpipe (2 ½")
3. Hydrant standpipe 2 ½" quick couple fittings and adapters
4. 2" food grade/potable water hoses (cam lock fitting blue)
5. Drain hoses
6. MDPE compression adaptors or stainless steel flange plates
7. Stainless steel couplings 2"
8. Hand tools
9. Warning signs
10. Palintest 7100
11. Turbidity meter
12. PDA

Chemicals Used

1. Sodium hypochlorite (Liquid)
2. Sodium thiosulphate (Liquid)

PPE

1. See End Sheet

Commissioning Procedure

1. Sign into site, attend any induction and obtain necessary permits to work.
2. Perform full dynamic risk assessment of the site and area around the system to be disinfected and note pipe diameter, length and produce a rough diagram of the system.
3. Before any disinfection procedure begins place warning boards in good view. Inform relevant site staff, particularly if the water supply is to be disrupted and ensure all staff fully understand the length of service loss and relevant consequences.
4. Ensure that all outlets are clearly labeled with warning signs quoting “COMMISSIONING IN PROGRESS DO NOT USE WATER”. This will ensure complete safety of all people in the area during the works.
5. Locate the supply hydrant outlet and connect appropriate standpipe to the hydrant head after cleaning and disinfecting the hydrant base.
6. Flush the supply water, at a rate not likely to increase flushing velocities in the supply pipe above 0.5 m/s, to drain or a safe location, flushing at least 1000 L. This must be done before every chlorination starts with no exceptions (consider the requirement for de-chlorination by passing water through the proportional dosing box and dosing with sodium thiosulphate). Whilst flushing measure flow rate in L/min and measure turbidity using Palintest Turbidimeter. If results are above 2.0 NTU continue to flush until turbidity is lower than 2 NTU.
7. Locate pipe end or hydrant fill point and attach relevant adaptors/stand pipe to allow fitting of clean hoses. All hoses used must be clean, previously disinfected and free from damage. Ensure double check valves are in place to prevent backflow.
8. Swab each leg of the pipe work by placing an appropriately sized foam swab into the pipe work and propelling it through the system with water (consider the requirement for de-chlorination by passing water through the proportional dosing box and dosing with sodium thiosulphate if swabbing volumes are large). Remove the foam swab inspect and photograph onto the report. If contamination is evident on the swab repeat until swabs present clean and with no discernible odour.
9. Once swabbing is completed connect Keller pressure logger onto manifold and attach to the lowest part of pipe work.
10. Barrier off ends and place warning signs “Hydrostatic Pressure Testing in Progress”.
11. Charge main and bring to mains pressure and ensure pipe work is sound and holds pressure.
12. De-pressurise slowly from the highest end until pressure is static.
13. Fill clean reservoir with clean water and connect pressurization pump along with flow meter to manifold, choose pump based on discharge and system volume to ideally raise pressure to required test pressure within 3 minutes but taking no less time than 1 minute.

14. Set pressure relief valve to 2 bar above required test pressure and prime pump and pressure hose line. Ensure when running engines that fumes cannot enter trenches and the area is well ventilated.
15. Connect pressure hose to manifold and open valve allowing pipe to reach required test pressure.
16. Start pump and open outlet valve to allow water to begin entering the main and raise pressure in a constant manner to the required test pressure.
17. Close inlet valve and turn off pump. Check pipe length for leaks and weeps, being aware of end loads and pressures in the event of a failure.
18. If no visible leaks are present and the pressure test appears sound with the expected pressure curves then disconnect all hoses and drain reservoir, pack kit away so as to ensure work are remains tidy.
19. Calculate air volume based on expected vs actual input volume and ensure air volume is 4% or less. If greater than 4% then repeat swabbing procedure to remove further air and repeat pressure test.
20. Allow pressure to stand within the pipe work for 20 x rise the rise time + rise time * 0.4 or a minimum of 1 hour, whichever is the longest.
21. Depressurise the pipe slowly from the highest end.
22. Once complete remove datalogger and analyse data to ensure a pass. If the pipe has failed then hand back to client and/or determine are of issue through further testing.
23. Once pressure test has passed flush pipe with a minimum of 2 volumes of water to remove any taste and odour issues. Ensure water meter is placed in line and before flushing and after flushing photographs are taken (consider the requirement for de-chlorination by passing water through the proportional dosing box and dosing with sodium thiosulphate if flushing volumes are high).
24. Attach hoses from incoming hydrant supply into inlet side of chlorination equipment. Test flow is present through the system.
25. Attach hose from outlet side of chlorination equipment into feed side of the pipe work to be disinfected.
26. Place the pickup pipe of the chlorination equipment dosing pump into sodium hypochlorite solution and switch on the chlorination equipment. Ensure the pump is primed with chemical.
27. Ensure hose connections are tight and open the supply water valve slowly.
28. Open the system outlets in sequence and pull water through to all outlets until chlorine is detected at the level required by the PD855468:2015. Continue until chlorine is measured at all outlets.
29. Measure free chlorine content at pipe end or nearest and furthest outlets on each leg of pipe work with the Palintest 7100 set to “chlorine 250” setting to gain an accurate reading

of free chlorine level and enter the results into the PDA, a level of around 50 mg/L should be achieved.

30. Once adequate free chlorine levels have been achieved at all outlets turn off the supply water and all other valves within the system. Turn off the chlorination equipment.
31. Allow the chlorine solution to stand within the pipe work for a minimum of 1 hour or as required by the PD855468:2015
32. Once the stand time is completed turn back on the mains hydrant supply valve.
33. Measure free chlorine content at pipe end or nearest and furthest outlets on each leg of pipe work with the Palintest 7100 set to “chlorine 250” setting to gain an accurate reading of free chlorine level and ensure that chlorine levels have not fallen more than 10% of the initial levels. If so the enter the results into the PDA but if not then return to section 9 and re-start chlorination procedure.
34. Connect the proportional dosing equipment to the discharge outlet of the pipe work.
35. Prime pump with sodium thiosulphate and turn on proportional dosing to fully neutralise the chlorine in the discharge water. Regular 10 minute checks should be made to ensure all chlorine is neutralised.
36. Open the system outlets in sequence, moving the de-chlorination equipment as necessary and draw water through the system to remove chlorinated water. De-chlorination of the water must be undertaken.
37. Continue to flush outlets until all outlets are showing identical free chlorine levels to that of the incoming mains water, tested pre de-chlorination.
38. Test the water for free chlorine and total chlorine levels utilising the Palintest 7100 set to “chlorine free” with “follow on”. Test turbidity of the water utilising the electronic turbidity meter. Record all results in PDA.
39. Check water for appearance, odour and taste and note results in the PDA.
40. Leave main to stand for 1 hour.
41. Connect bridge hose to clean standpipes and charge the system for sampling.
42. Ensure outlets and standpipes are disinfected and flushed and that samples are taken in a hygienic manner with adequate chlorine spray use to remove bacteria from sampling taps etc.
43. Take the required number of water samples for microbiological analysis ensuring the samples are labelled with Job reference, location and site name of the job. Place samples in the van fridge set at 4°C.
44. If required perform further chemistry/odour & taste samples and note all results.
45. Shut off mains hydrant water supply and disconnect chlorination equipment. Take care to minimise loss of water from the system.
46. Fit any non-closed pipe ends with disinfected end caps.

47. Remove hydrant standpipe, replace plastic dust cap if present and replace all metal covers securely and flush with the surrounding land.
48. Complete all relevant section on the PDA and sync job to office
49. Clear away tools and ensure the site is left in a safe manner, replacing any barriers or covers.
50. Remove lock offs and signs, sign off certificate, inform site staff and sign off any work permits. Sign out of site.
51. Ensure any microbiological water samples are kept in the van fridge and delivered directly to the laboratory or fridges drop off point on the same day.

HEALTH & SAFETY PPE REQUIREMENTS

GENERAL WORKS



CHEMICAL HANDLING



SITE SPECIFIC AS REQUIRED



ABOUT WATER HYGIENE SOLUTIONS LTD

Water Hygiene Solutions Ltd are a specialist technical water hygiene company providing services including cleaning and chlorination work, water hygiene consultancy, water treatment chemicals and equipment.

We have an excellent reputation nationwide both for the quality of work we undertake and the expertise and experience of our staff. Our can do attitude ensures that our clients obtain the work they require when they require it, particularly important when deadlines are looming.

With a commitment to staff development and with significant health and safety budget you can be assured of a quality service every time.

OUR SERVICES INCLUDE



Water Tank Cleaning - Regardless of the type of water system it is important that water hygiene is maintained. Water storage tanks especially require regular cleaning to remove debris and bacteria build up and maintain hygiene. Even new water tanks should be chlorinated prior to use to maintain potable water quality. Our specialist teams and equipment can provide cleaning and chlorination of all types and sizes of domestic and industrial water tanks including underground rain water harvesting tanks.



Legionella Management - It is vital to ensure that systems do not pose a risk of Legionnaires Disease and operate within the HSE guidelines. By carrying out bespoke water hygiene risk assessments we are able to determine the risks and provide advice on how to reduce these. It also allows us to design a Legionella control program based on current legislation. Our trained hygiene engineers can provide testing and monitoring of your site to ensure Legionella risk is managed at all times. A site specific log book for records ensures legislative compliance.



Chlorine Dioxide Water Treatment – Chlorine dioxide is an ideal water treatment option to reduce bacteria numbers and maintain water hygiene. It has applications both in potable water supplies for the control of Legionella and general water hygiene and also in process systems such as food manufacturing where bacterial control is important. We provide safe generation and dosage of chlorine dioxide in all applications with chemical supply and routine service.



Boiler Water Treatment - Correct steam boiler management is essential as the lack of, or failure, of a water treatment regime will rapidly lead to increased fuel costs and maintenance bills and will, over time, damage steam plant. Through a full analysis of your water conditions and steam process systems we offer a tailored boiler water treatment program to include pre-treatment plant and chemical water conditioning. Routine analysis by our experienced water treatment engineers ensures continued efficiencies.



Cooling Tower Management - The correct management of cooling towers and evaporative condensers is essential to ensure long life, efficiency and to prevent health hazards from Legionella growth. Our water treatment engineers use in depth water analysis to develop bespoke chemical treatment programs. Service contracts provide routine analysis, monitoring and cleaning to ensure that your cooling tower remains efficient and safe and you remain compliant with HSE guidance.

WATER HYGIENE
SOLUTIONS

Head Office

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West Yorkshire WF13 3LN

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ALS Laboratories (UK) Limited
Unit 11
Silkwood Park
Janes Hill
Off Albert Drive
Wakefield
WF5 9TG

T: +44 (0)1924 818100
www.alsenvironmental.co.uk

Dr Watts
Water Hygiene Solutions Ltd
Unit 1
Low Mills Lane industrial Estate
Ravensthorpe WF13 3LN

18 August 2026

Test Report: WAK/3130875/2026

Dear Dr Watts

Analysis of your sample(s) submitted on 14 August 2026 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0) 2476 421213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, or to arrange container delivery or sample collection or information on our drop-off locations please contact Customer Services.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: J. Thompson

Title: Inorganic Chemistry Manager

UKAS TESTING 1314
bsi ISO 14001 Environmental Management CERTIFIED EMS675527 ISO 45001 Occupational Health and Safety Management CERTIFIED OHS 542058
CERTS

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No.02391955.
Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU.

Report Summary

ANALYSED BY

1314

Dr Simon Watts
Water Hygiene Solutions Ltd
Unit 1
Low Mills Lane industrial Estate
Ravensthorpe
WF13 3LN

Date of Issue: **18 August 2026**

Report Number: **WAK/3130875/2026** Issue **1**

This issue replaces all previous issues

Job Description: Master Quotation

Job Location: 1826-10754 - GRASMERE COURT GARAGE SITE

Number of Samples included in this report **2**

Job Received: **14 August 2026**

Number of Test Results included in this report **14**

Analysis Commenced: **14 August 2026**

Signed:

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled. Information supplied by the customer may affect the validity of results.
Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.
This test report is not a statement of conformity to any specification or standard.

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No. 02391955. Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU. (c) ALS Laboratories (UK) Limited 2026. All rights reserved. We, ALS Laboratories (UK) Limited, are the owner of all copyright in this report. You must not copy, reproduce, amend or adapt this report, its contents or any format in which it is delivered without our prior written agreement. If you copy, reproduce, amend, or adapt this report in any way without our agreement you will be liable for any damage or loss to us. In the event of a dispute the copy of the report held by us shall be the reference copy.

Certificate of Analysis

ANALYSED BY

1314

Report Number:	**WAK/3130875/2026**	Issue	1
Laboratory Number:	**26505909**	Sample	1 of 2

Sample Source:	**Water Hygiene Solutions Ltd**
Sample Point Description:	**Public Limits**
Sample Description:	**MAIN SUPPLY**
Sample Matrix:	**Drinking Water**
Sample Date/Time:	**13 August 2026** **12:00**
Sample Received:	**14 August 2026**
Analysis Complete:	**18 August 2026**

Test Description	Result	Units	Completed	Accreditation		Method
TVC 37C 2 day	122	cfu/ml	17/08/2026	Y	Cov	W1
TVC 22C 3 day	106	cfu/ml	18/08/2026	Y	Cov	W1
Total Coliform presump	0	cfu/100ml	15/08/2026	Y	Cov	W10
Total Coliforms confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
E.coli presumptive	0	cfu/100ml	15/08/2026	Y	Cov	W10
Escherichia coli confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
Turbidity	<0.11	NTU	14/08/2026	Y	Wak	WPC6

Analyst Comments for 26505909: High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

Certificate of Analysis

ANALYSED BY

1314

Report Number: **WAK/3130875/2026**
Laboratory Number: **26505910**

Issue 1
Sample 2 of 2

Sample Source: **Water Hygiene Solutions Ltd**
Sample Point Description: **Public Limits**
Sample Description: **PIPE END**
Sample Matrix: **Drinking Water**
Sample Date/Time: **13 August 2026** **12:20**
Sample Received: **14 August 2026**
Analysis Complete: **18 August 2026**

Test Description	Result	Units	Completed	Accreditation		Method
TVC 37C 2 day	132	cfu/ml	16/08/2026	Y	Cov	W1
TVC 22C 3 day	123	cfu/ml	18/08/2026	Y	Cov	W1
Total Coliform presump	0	cfu/100ml	15/08/2026	Y	Cov	W10
Total Coliforms confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
E.coli presumptive	0	cfu/100ml	15/08/2026	Y	Cov	W10
Escherichia coli confirmed	0	cfu/100ml	15/08/2026	Y	Cov	W10
Turbidity	<0.11	NTU	14/08/2026	Y	Wak	WPC6

Analyst Comments for 26505910: High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **J. Thompson** Date: **18 August 2026**

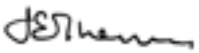
Title: **Inorganic Chemistry Manager**

ANALYST COMMENTS FOR REPORT WAK/3130875/2026 Issue 1

This issue replaces all previous issues

Date of Issue: **18 August 2026**

Sample No	Analysis Comments
26505909	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.
26505910	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised. High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

Signed: 

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

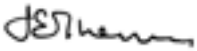
DETERMINAND COMMENTS FOR REPORT WAK/3130875/2026

ISSUE 1

This issue replaces all previous issues

Date of Issue: 18 August 2026

Sample No	Description	Determinand	Comments
26505909	MAIN SUPPLY	Total Coliform presump	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.
26505910	PIPE END	Total Coliform presump	High levels of non-target bacteria may have suppressed the growth of Coliforms and E.coli, the result may be compromised.

Signed: 

Name: **J. Thompson** Date: **18 August 2026**

Title: **Inorganic Chemistry Manager**

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WATER HYGIENE SOLUTIONS

WATER HYGIENE · CHLORINATION · WATER TREATMENT · LEGIONELLA CONTROL

PRESSURE TEST CERTIFICATE

PE PIPE TO WIS 4-01-03:2024







Date: 13 August 2026
Client: Indecon

Pressure Test Certificate

PASS

n2/n1 0.75-1.25
n3/n1 0.75-1.25

Job Details

Site Address:	Grasmere Court Garden Site Palmerston Road London N22 8QR
GPS Location:	51.608294, -0.115025
Client:	Indecon
Job Number:	1826-10754
Engineer:	Danny Stevens
Engineer EUSR:	459742
Date:	13 August 2026
Logger Type:	Leo Record
Data Logger Serial:	17283
Calibration Cert:	1826-7029
Required Test Pressure (Bar):	12
Pipe Material:	PE
Installation Method:	Open Cut
Pipe Surround:	Open

Pipe Details

Run Name	SDR	OD	Length (m)	Volume (L)
15m of 63mm	11	63	15	31

Calculated Pipe Volume (L):	31
Min Input Volume - 0% Air (L):	0.33
Max Input Volume - 4% Air (L):	1.66
Actual Input Volume (L):	0.50
Air Content %:	0.51

PT Cert Version 1.2.256

Job Information

WATER HYGIENE SOLUTIONS

Pressure Test Certificate

PASS | **n2/n1 0.75-1.25** | **n3/n1 0.75-1.25**

Time/Pressure Data

Static Head Pressure (bar):	1.633
Start Pressurisation Time:	9:30:44 AM
End Pressurisation Time:	9:31:34 AM
Pressurising time (Tp):	12:00:50 AM
Max Pressure Obtained (Bar)	12.697
Raised Pressure:	11.064

Time/Pressure Point	Hours/Mins/ Sec	Minutes (decimal)	Raised Pressure (PA -P0)	Corrected Time (tp + (0.4 x tp)
tc1 / P1	12:00:50 AM	0.83	9.94	1.17
tc2 (8 tp) / P2	12:06:40 AM	6.67	8.56	7.00
tc3 (20 tp / P3	12:16:40 AM	16.67	7.95	17.00
tc4 (1 hour end)	1:00:00 AM	60.00	7.14	60.33

Log Analysis

Time

	Log 10 Time
Log tc1 (tl)	0.067
Logtc2 (8 tl)	0.845
Log tc3 (20 tl)	1.230
Log tc4 (60 mins)	1.781

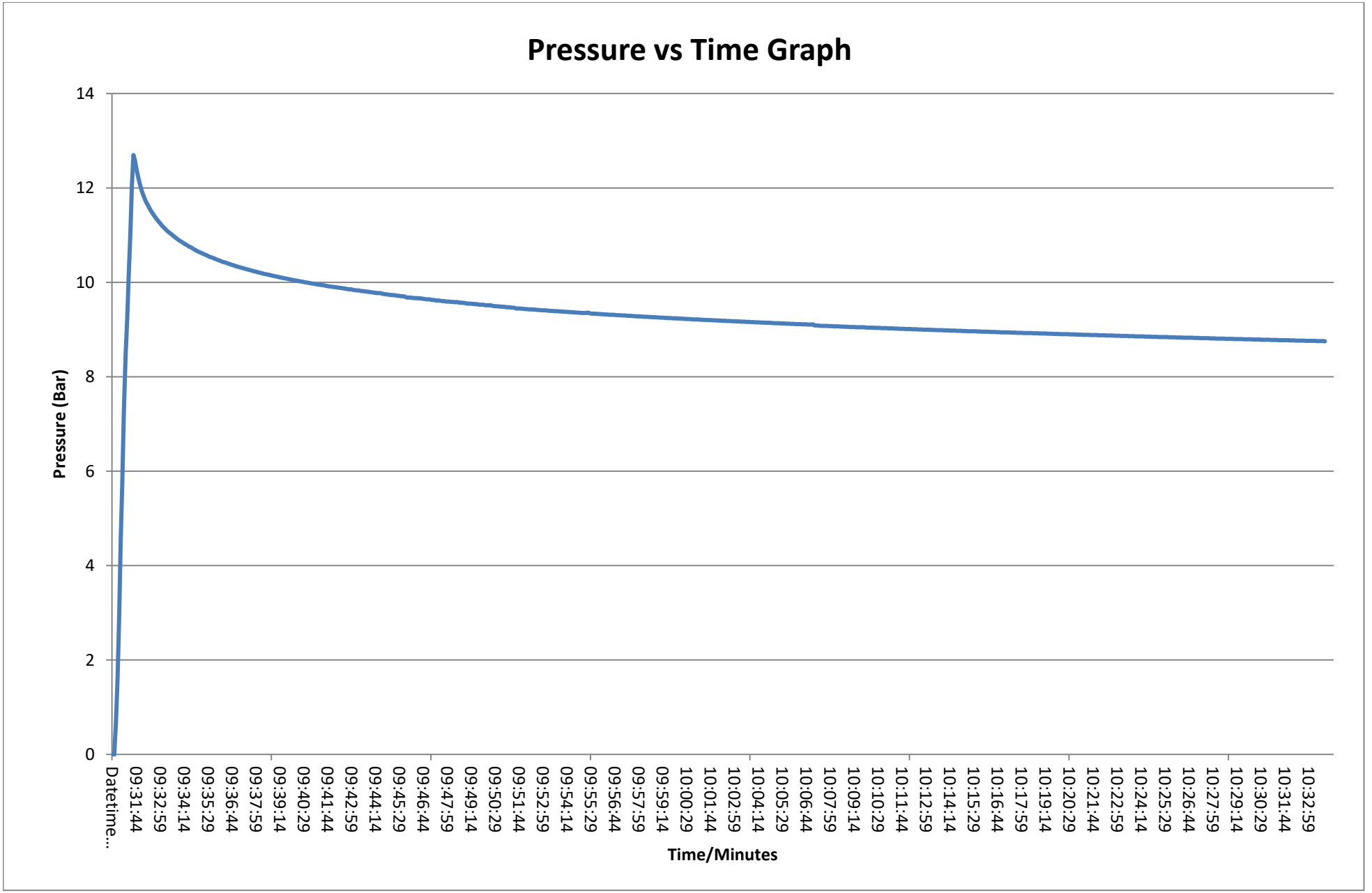
Pressure

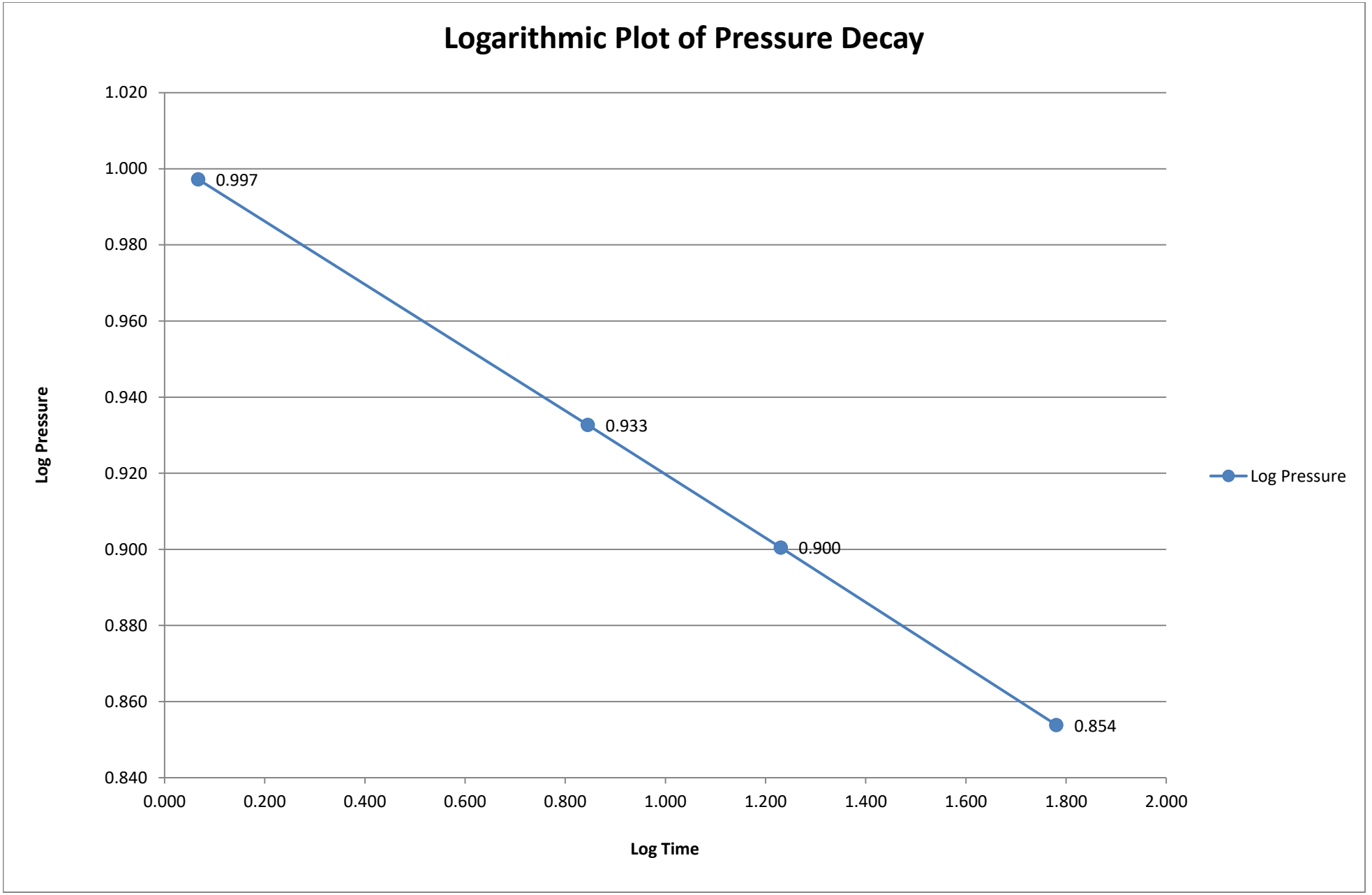
	Log 10 Pressure
Log PA1	0.997
Log PA2	0.933
Log PA3	0.900
Log PA4	0.854

Pressure decay curve analysis

between t1 and t2	n1=(logP1-logP2)/(logtc2-logtc1)
n1=	**0.083**
between t2 and t3	n2=(logP2-logP3)/(logtc3-logtc2)
n2=	**0.084**
between t3 & t4	n3=(logP3-logP4/(logtc4-logtc3)
n3=	**0.085**

n2/n1:	**1.008**	**PASS (n2/n1 between 0.75 to 1.25)**
n3/n1:	**1.022**	**PASS (n3/n1 between 0.75 to 1.25)**


Pressure vs Time Graph
Pressure (Bar)
14
12
10
8
6
4
2
0
Datetime...
09:31:44
09:32:59
09:34:14
09:35:29
09:36:44
09:37:59
09:39:14
09:40:29
09:41:44
09:42:59
09:44:14
09:45:29
09:46:44
09:47:59
09:49:14
09:50:29
09:51:44
09:52:59
09:54:14
09:55:29
09:56:44
09:57:59
09:59:14
10:00:29
10:01:44
10:02:59
10:04:14
10:05:29
10:06:44
10:07:59
10:09:14
10:10:29
10:11:44
10:12:59
10:14:14
10:15:29
10:16:44
10:17:59
10:19:14
10:20:29
10:21:44
10:22:59
10:24:14
10:25:29
10:26:44
10:27:59
10:29:14
10:30:29
10:31:44
10:32:59
Time/Minutes


Logarithmic Plot of Pressure Decay
1.020
1.000
0.980
0.960
0.940
0.920
0.900
0.880
0.860
0.840
Log Pressure
0.997
0.933
0.900
0.854
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
1.600
1.800
2.000
Log Time
Log Pressure

Raw Logger Data

Device name:	**WHS Data Logger**
Serial number:	17283
Device type:	LEO Record (10.2)
Record name:	REC 10.2 2026.08.13 08-

No	Datetime [local time]	Datetime [UTC]	P1 [bar]
1	09:30:34	Thursday, August 13, 2026	-0.008967876
2	09:30:39	Thursday, August 13, 2026	0.72052002
3	09:30:44	Thursday, August 13, 2026	1.632995605
4	09:30:49	Thursday, August 13, 2026	2.901428223
5	09:30:54	Thursday, August 13, 2026	4.546020508
6	09:30:59	Thursday, August 13, 2026	5.739257813
7	09:31:04	Thursday, August 13, 2026	7.244262695
8	09:31:09	Thursday, August 13, 2026	8.467529297
9	09:31:14	Thursday, August 13, 2026	9.210449219
10	09:31:19	Thursday, August 13, 2026	10.16918945
11	09:31:24	Thursday, August 13, 2026	10.99975586
12	09:31:29	Thursday, August 13, 2026	12.04541016
13	09:31:34	Thursday, August 13, 2026	12.69677734
14	09:31:39	Thursday, August 13, 2026	12.57568359
15	09:31:44	Thursday, August 13, 2026	12.36669922
16	09:31:49	Thursday, August 13, 2026	12.21166992
17	09:31:54	Thursday, August 13, 2026	12.07885742
18	09:31:59	Thursday, August 13, 2026	11.95532227
19	09:32:04	Thursday, August 13, 2026	11.8605957
20	09:32:09	Thursday, August 13, 2026	11.77685547
21	09:32:14	Thursday, August 13, 2026	11.70239258
22	09:32:19	Thursday, August 13, 2026	11.6340332
23	09:32:24	Thursday, August 13, 2026	11.56958008
24	09:32:29	Thursday, August 13, 2026	11.51342773
25	09:32:34	Thursday, August 13, 2026	11.46044922
26	09:32:39	Thursday, August 13, 2026	11.41064453
27	09:32:44	Thursday, August 13, 2026	11.36303711
28	09:32:49	Thursday, August 13, 2026	11.32104492
29	09:32:54	Thursday, August 13, 2026	11.27539063
30	09:32:59	Thursday, August 13, 2026	11.23779297
31	09:33:04	Thursday, August 13, 2026	11.19458008
32	09:33:09	Thursday, August 13, 2026	11.16162109
33	09:33:14	Thursday, August 13, 2026	11.13012695
34	09:33:19	Thursday, August 13, 2026	11.09790039
35	09:33:24	Thursday, August 13, 2026	11.06738281
36	09:33:29	Thursday, August 13, 2026	11.03833008
37	09:33:34	Thursday, August 13, 2026	11.01000977
38	09:33:39	Thursday, August 13, 2026	10.98217773
39	09:33:44	Thursday, August 13, 2026	10.95703125
40	09:33:49	Thursday, August 13, 2026	10.93041992
41	09:33:54	Thursday, August 13, 2026	10.90722656

42	09:33:59	Thursday, August 13, 2026	10.88452148
43	09:34:04	Thursday, August 13, 2026	10.86083984
44	09:34:09	Thursday, August 13, 2026	10.83886719
45	09:34:14	Thursday, August 13, 2026	10.81762695
46	09:34:19	Thursday, August 13, 2026	10.79760742
47	09:34:24	Thursday, August 13, 2026	10.77758789
48	09:34:29	Thursday, August 13, 2026	10.75683594
49	09:34:34	Thursday, August 13, 2026	10.73950195
50	09:34:39	Thursday, August 13, 2026	10.71875
51	09:34:44	Thursday, August 13, 2026	10.69873047
52	09:34:49	Thursday, August 13, 2026	10.67993164
53	09:34:54	Thursday, August 13, 2026	10.66308594
54	09:34:59	Thursday, August 13, 2026	10.64770508
55	09:35:04	Thursday, August 13, 2026	10.63085938
56	09:35:09	Thursday, August 13, 2026	10.61474609
57	09:35:14	Thursday, August 13, 2026	10.60058594
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739	10:32:04	Thursday, August 13, 2026	8.769775391
740	10:32:09	Thursday, August 13, 2026	8.769775391
741	10:32:14	Thursday, August 13, 2026	8.768554688

742	10:32:19	Thursday, August 13, 2026	8.767333984
743	10:32:24	Thursday, August 13, 2026	8.766601563
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745	10:32:34	Thursday, August 13, 2026	8.765380859
746	10:32:39	Thursday, August 13, 2026	8.764160156
747	10:32:44	Thursday, August 13, 2026	8.763427734
748	10:32:49	Thursday, August 13, 2026	8.762695313
749	10:32:54	Thursday, August 13, 2026	8.762207031
750	10:32:59	Thursday, August 13, 2026	8.760742188
751	10:33:04	Thursday, August 13, 2026	8.760253906
752	10:33:09	Thursday, August 13, 2026	8.759521484
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755	10:33:24	Thursday, August 13, 2026	8.757080078
756	10:33:29	Thursday, August 13, 2026	8.756347656
757	10:33:34	Thursday, August 13, 2026	8.755615234
758	10:33:39	Thursday, August 13, 2026	8.755126953
759	10:33:44	Thursday, August 13, 2026	8.754394531
760	10:33:49	Thursday, August 13, 2026	8.753173828

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ABOUT WATER HYGIENE SOLUTIONS LTD

Water Hygiene Solutions Ltd is a specialist technical water hygiene company providing services including new main commissioning including pressure testing and chlorination. Tank cleaning and chlorination work, water hygiene consultancy, water treatment chemicals and equipment.

We have an excellent reputation nationwide both for the quality of work we undertake and the expertise and experience of our staff. Our can do attitude ensures that our clients obtain the work they require when they require it, particularly important when deadlines are looming.

With a commitment to staff development and with significant health and safety budget you can be assured of a quality service every time.

OUR SERVICES INCLUDE



New Main Commissioning – Swabbing, pressure testing and disinfection of new mains pipe work is essential to ensure compliance with Water Authority requirements. We can provide fully data logged pressure testing to the IGN04-01:2015 standard as well as fully traceable chlorination to the IGN and British Standards. We are able to commission large lengths of pipe (upwards of 1000m) of large bore in both PE and ductile.



Building Disinfection – New buildings, refurbishments and alterations to building water systems require disinfection to meet the British Standard BS EN 806, BS8558:2015 and PD855468. We can provide fully compliant disinfection and certification for all building types. We can also provide disinfection of contaminated water systems to the same high standards and can also provide full UKAS microbiological certification to ensure compliance.



Water Tank Cleaning - Regardless of the type of water system it is important that water hygiene is maintained. Water storage tanks especially require regular cleaning to remove debris and bacteria build up and maintain hygiene. Even new water tanks should be chlorinated prior to use to maintain potable water quality. Our specialist teams and equipment can provide cleaning and chlorination of all types and sizes of domestic and industrial water tanks including underground rain water harvesting tanks.



Legionella Management - It is vital to ensure that systems do not pose a risk of Legionnaires Disease and operate within the HSE guidelines. By carrying out bespoke water hygiene risk assessments we are able to determine the risks and provide advice on how to reduce these. It also allows us to design a Legionella control program based on current legislation. Our trained hygiene engineers can provide testing and monitoring of your site to ensure Legionella risk is managed at all times. A site specific log book for records ensures legislative compliance.



Chlorine Dioxide Water Treatment – Chlorine dioxide is an ideal water treatment option to reduce bacteria numbers and maintain water hygiene. It has applications both in potable water supplies for the control of Legionella and general water hygiene and also in process systems such as food manufacturing where bacterial control is important. We provide safe generation and dosage of chlorine dioxide in all applications with chemical supply and routine service.

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SOLUTIONS

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