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11th September 2026

Ref: A12064-2/260907/L2

Marc Cornelius
PMC Construction & Developments
80a High Street,
Cosham,
Hampshire,
PO6 3FL

By Email only: marc.cornelius@pmcconstruction.co.uk

Dear Marc,

RE: Adur Civic Centre, Ham Road, Shoreham by Sea, West Sussex, BN43 9SA – Garden Validation Inspections

Please find attached Omnia Report A12064-2/260907/L2 detailing the results of the validation works undertaken within areas of soft landscaping of the above site, in support of Adur & Worthing Council planning application Ref. AWDM/1450/21.

If you have any questions, please do not hesitate to contact us.

Yours sincerely,

[redacted]

Maria Shtereva
Graduate Geo-environmental Consultant

[redacted]

Senior Geo-Environmental Consultant

Appendices:

Appendix I: Limitations

Appendix II: Site Figures

Appendix III: Photographs

Appendix IV: Chemical Testing Results

Appendix V: Origin of GAC Values

Appendix VI: Import Certificates

Omnia Environmental Consulting (south) Ltd. Trades as Omnia
Registered Address: 3 Acorn Business Centre, Northarbour Road, Cosham, Portsmouth PO6 3TH. Company Registration No.: 8715583

1.0 OBJECTIVES & TERMS OF REFERENCE

The objective of this report is to confirm the correct installation of the required clean cover system and to provide a Tier 1 human health risk assessment of near-surface soil samples recovered from areas of soft landscaping of the above referenced site in accordance with the RMS (reference: A12064/1.0). Areas of soft landscaping on-site are presented in the site plan provided by the client, reference 22.087-HGP-ZZ-00-D-A-1000.

Validation will be undertaken through on-site observations and chemical testing of soil samples, as set out within the Omnia Remediation Method Statement (RMS) (reference: A12064/1.0).

It should be noted that the site layout presented within the RMS is now understood to be superseded by the latest layout drawing reference 22.087-HGP-ZZ-00-D-A-1000. As such, the latest layout drawing has been used to determine the areas on-site requiring remediation as part of these validation works.

A site location plan is included as Figure 1.0 and the proposed site layout as Figure 2.0 are included within Appendix II.

2.0 BACKGROUND

At present the development at Adur Civic Centre is complete with the final areas of soft landscaping requiring validation being completed during this visit. At the time of the site visit (27/08/2026), the clean cover system had been placed in areas of soft landscaping throughout the whole site.

It is understood that several phases of intrusive investigation have been undertaken previously at the site by Soils Limited, the results of which were summarised within the Omnia RMS (A12064/1.0). Previous investigations indicated the presence of elevated concentrations of Lead and Polycyclic Aromatic Hydrocarbons (PAHs) in near-surface soils across the site as well as elevated concentrations of Asbestos in near surface soils in the vicinity of location WS4 in the southeast of the site.

The RMS stipulated that impacted soils within all areas of proposed soft landscaping were excavated to a minimum depth of 300mm below finished ground level with areas of soft landscaping. Within the vicinity of WS4 soft landscaping should be excavated to a minimum depth of 450mm below finished ground level. Following removal, a clean cover system comprising 300mm of clean, chemically suitable soils should be emplaced and underlain by a marker layer in the form of a high-visibility geotextile membrane. In the areas of soft landscaping in the vicinity of WS4 it was also stipulated that a 150mm thick engineered crush layer be placed below the high-visibility membrane to act as a no-dig layer. Sampling frequency of imported Topsoil was set at 1 per 100m^3 with a minimum of 6no. per source with the sampling frequency of the 6F2 material used for the engineered no-dig layer set at 1 per 500m^3.

This report details the findings of clean cover validation for areas of soft landscaping in the remaining soft landscaping areas of the site which require a 300mm clean cover system.

2.1 Soil Capping System

The agreed RMS (A12064/1.0) stipulated that a clean cover system and high-visibility geotextile should be implemented within all areas of soft landscaping to act as a marker layer and to mitigate the risk from identified contaminants in the underlying soils and to render the pollution pathway inactive. The RMS also stipulated that in areas of soft landscaping surrounding intrusive location WS4 (southeast of the site), a 150mm engineered crush layer should be placed underlying the clean cover system and high-visibility geotextile layers to act as a no-dig layer. However, the areas assessed within this report do not require the engineered crush layer.

The RMS stipulated a cover system thicknesses as described in Table 2-1 below:

Table 2-1 Cover System Details

Material	Minimum Depth (mm bgl)	
	Areas of soft landscaping surrounding location WS4	Areas of soft landscaping in the remainder of the site
Topsoil Growing Medium	300	300
High-Visibility Geotextile Marker	300	300
Engineered No Dig Layer	450	N/A

Tree Pits	900	900

3.0 SCOPE OF WORKS

3.1 Soil Capping System

The scope of works comprised the validation of soft landscaped areas through the advancement of hand excavated pits to minimum depths of 300mm bgl to confirm the removal of impacted soils to the specified depth, placement of high-visibility geotextile and to retrieve samples from the emplaced Topsoil at a frequency of 1 per 1:100m^3 with a minimum of six (6no.) per source across the entire site.

4.0 SITE WORK AND OBSERVATIONS – SOIL CAPPING SYSTEM

4.1 Site Visit 27/08/2026

A site visit was undertaken on the 27/08/2026 by a consultant from Omnia. At the time of the site visit Topsoil had been placed in areas of soft landscaping as set out within Figure 3.0 (Appendix II). The completed areas had Topsoil placed.

During the site visit four (4no.) hand-excavated pits (HP103, HP104, HP105, HP106) were advanced to a maximum depth of 0.34m bgl. These were utilised to confirm the thickness of the Topsoil and the presence of a high visibility geotextile membrane at the specified depth, as well as to collect Topsoil samples. One (1no.) sample was taken per location with four (4no.) samples sent for chemical laboratory analysis.

Photographs of the areas of soft landscaping inspected during the site visit are included within Appendix III.

4.2 Ground Conditions Encountered

A total of four (4no.) hand-excavated pits (HP103, HP104, HP105, HP106) were advanced to depths of 0.30-0.34m bgl respectively, as shown in Figure 3.0 in Appendix II.

4.2.1 Topsoil

Topsoil was found within all exploratory hole locations advanced on the 27/08/2026 from ground level to a maximum depth of 0.34m bgl. The Topsoil generally comprised brown slightly gravelly slightly silty fine to coarse SAND. Gravel was rounded to subrounded fine and medium sandstone and rare brick.

The Topsoil and geotextile depth for the areas of soft landscaping are summarised in Table 4-1

Table 4-1 Measured Topsoil Thicknesses & Geotextile Membrane Depths

Visit Date	27/08/2026			
Validation Location	HP103	HP104	HP105	HP106
Topsoil Thickness (mm)	340	320	300	300
Geotextile Membrane Depth (mm bgl)	340	320	300	300
Validation Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**

As can be seen from Table 4.1 above, the thicknesses of Topsoil placed, together with the emplacement of the high-visibility geotextile meet or exceed the requirements set out within the RMS.

Supply certificates confirming the suitability of the material brought to site are included as Appendix VI.

A photographic record of the validation pits showing confirmation of the capping system thickness is presented as Appendix III.

4.3 Laboratory Analysis

Selected soil samples were submitted for a range of chemical analysis, with the number of samples from each strata tested indicated within Table 4-2 below.

Table 4-2 Summary of chemical analysis testing

Determinant	Topsoil
Asbestos Fibre Screen	4
CLEA Metals	4
Phenol	4
Total Cyanide	4
Speciated Polycyclic Aromatic Hydrocarbons (PAH)	4
Speciated Total Petroleum Hydrocarbons (CWG)	4
BTEX	4
pH and Sulphate	4

I2 Analytical undertook the analytical work in accordance with UKAS accreditation where applicable and the laboratory analysis certificates are presented as Appendix IV and discussed in Section 4.4.

4.4 Tier 1 Human Health Risk Assessment

The analytical results have been directly compared to the validation criteria set out in Appendix V of the Omnia Remediation Method Statement (ref: A12064/1.0). This comparison is for the four (4no.) samples of Topsoil. The origin of the Tier 1 screening values is presented as Appendix V.

Referring to Appendix IV the Tier 1 risk assessment indicates that there have been no exceedances of the adopted Tier 1 screening criteria.

Laboratory results were also compared to the BS3882:2015 phytotoxic screening criteria and are summarised in
Table 4-3 below.

Table 4-3– BS3882:2015 Chemical Suitability Criteria for Potentially Phytotoxic Elements

Determinant	Units	pH >7.0	No	MC	Assessment
Copper	mg/kg	<300	4	29	No Further Action
Nickel	mg/kg	<200	4	19	No Further Action
Zinc	mg/kg	<110	4	63	No Further Action

With reference to the above, it can be seen that all recorded concentrations comply with the adopted screening level for the protection of Human Health and the phytotoxic suitability criteria. The laboratory results are presented within Appendix IV with the origin of the Tier 1 screening values presented in Appendix V.

4.5 Discussion

Laboratory testing of Topsoil samples collected from emplaced soils within the completed areas of soft landscaping did not show any exceedances of the assessment criteria set out within the agreed RMS (A12064/1.0). The Topsoil is therefore considered to be suitable for use as a clean capping system within areas of communal soft landscaping.

The validation in areas of soft landscaping undertaken by Omnia, as shown in Table 4-1, confirms that the thickness of the installed clean cover system to date complies with Section 4.3 of the agreed RMS (A12064/1.0).

5.0 CONCLUSION

Based on the findings of this clean cover validation, which consisted of verifying Topsoil thickness, the presence of, and depth to, a geotextile membrane, and chemical testing of Topsoil samples it is considered that the Topsoil present within the completed areas of the clean cover system conforms to the specifications established within the agreed RMS (A12063/1.0).

It is therefore considered that areas of soft landscaping where the clean cover system has been completed do not have the potential to present a significant risk to human health and comply with the specifications established within the RMS, and that the areas are suitable for the proposed end use.

END OF REPORT

APPENDIX I

LIMITATIONS

1. General

This report has been prepared by Omnia for the sole use of the Client for the specific purposes described within the report. It should not be relied upon by any third party without the prior written agreement of Omnia.

The report must be read as a whole; no reliance should be placed on individual sections or extracts in isolation.

The advice and opinions presented are subject to the scope of works, agreed fee, programme and terms and conditions under which the report was prepared.

2. Basis of Assessment

The findings and opinions presented in this report are based on information obtained from:

- Site investigation works (where undertaken);
- Desk-based information and third-party data;
- Observations made during any site visits.

Due to the nature of ground investigations and environmental assessments, the data available is necessarily limited and conditions may vary spatially and temporally. The report therefore presents an interpretation of conditions at discrete locations and points in time.

Ground conditions between, around and beneath exploratory locations may differ from those identified.

3. Data and Third-Party Information

Omnia has relied upon information provided by third parties, statutory bodies, and the Client. Unless otherwise stated, this information has not been independently verified.

Omnia accepts no responsibility for the accuracy, completeness or omission of such third-party information, and any subsequent changes to that information are not reflected in this report.

4. Scope and Purpose

This report has been prepared for the specific development and purpose described. It should not be used for any other purpose, site layout, or development scenario without prior review and written confirmation by Omnia.

Where recommendations are provided, these are based on the information available at the time of reporting and may require revision should additional information become available.

5. Limitations of Ground Investigation and Environmental Assessment

Where ground investigation has been undertaken, it represents a sampling exercise and does not provide complete coverage of the site.

Accordingly:

- Unrecorded features, obstructions or contamination may be present;
- Groundwater levels and gas regimes may vary with time;
- Soil and made ground properties may differ from those encountered.

Environmental risk assessments and contamination assessments are based on a conceptual model developed from available data and should be updated if new information becomes available.

6. Design and Construction

Any recommendations contained within this report are provided for guidance and should be reviewed by the design team and contractor prior to implementation.

The contractor remains responsible for:

- Verifying ground conditions during construction;
- Implementing appropriate health and safety measures;
- Ensuring compliance with relevant specifications and standards.

Omnia should be consulted if conditions are encountered that differ from those described within this report.

7. Changes in Conditions and Legislation

Ground and environmental conditions may change over time due to:

- Construction activities;
- Changes in groundwater regime;
- Introduction of contaminants;
- Weathering or seasonal effects.

This report reflects conditions at the time of investigation only.
Omnia has no obligation to update this report following its issue unless formally instructed to do so.

8. Liability

This report has been prepared with reasonable skill, care and diligence in accordance with generally accepted industry practice and current UK standards.
Omnia's liability is limited to that defined in its appointment with the Client. No liability is accepted to any third party.

9. Use by Third Parties

Where this report is issued to a third party, no duty of care is extended unless explicitly agreed in writing by Omnia.
Third parties who rely on this report do so at their own risk.

10. Validity and Further Work

Should additional information become available which may affect the findings or recommendations contained within this report, Omnia reserves the right to review and revise the report as necessary. Further investigation, monitoring or assessment may be required as part of the design and construction process.

APPENDIX II

FIGURES

Key

Site Boundary

0 100 200 300 400 m

Scale	Paper Size
1:10,000	A4

Contains © OpenStreetMap contributors

The client must not amend any drawing, design or other intellectual property produced by Omnia without permission in writing from Omnia in advance of any amendments being made.

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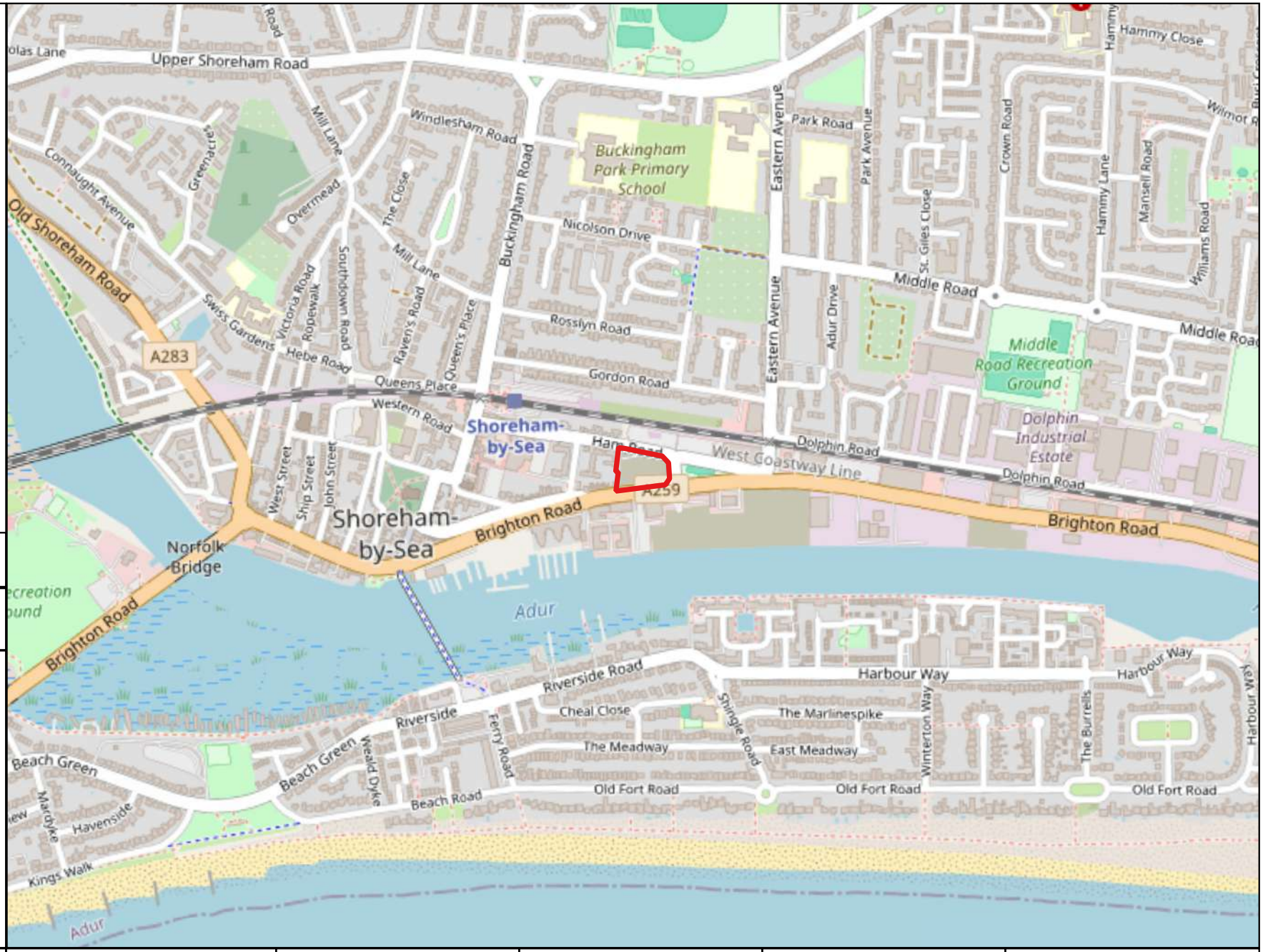

OMNIA	Job Title: Adur Civic Centre	Client: PMC Construction & Developments	Project Number: A12064-2	Date: 27/07/2026	Drawing Title: Figure 1.0 Site Location Map
			Drawn By: J. Wolverton	Authorised By: H. Spurling	

Key

Site Boundary

0 10 20 m

Scale	Paper Size
1:500	A4

Contains HGP Architects drawing ref: 22.087-HGP-ZZ-00-D-A-1000

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OMNIA

Job Title:	Client:	Project Number:	Date:	Drawing Title:
Adur Civic Centre	PMC Construction & Developments	A12064-2	27/07/2026	Figure 2.0 Proposed Development Plan
		Drawn By: J. Wolverton	Authorised By: H. Spurling	

Key

- Site Boundary
- Area of completed Clean Cover System
- Hand Pit

0 10 20 m

Scale	Paper Size
1:500	A4

Contains HGP Architects drawing ref: 22.087-HGP-ZZ-00-D-A-1000

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OMNIA	Job Title: Adur Civic Centre	Client: PMC Construction & Developments	Project Number: A12064-2	Date: 27/07/2026
			Drawn By: J. Wolverton	Authorised By: H. Spurling

Drawing Title: Figure 3.0 Intrusive Location Plan

APPENDIX III

PHOTOGRAPHS

HP103 – Membrane Check and Depth Check
PASS – 340mm bgl



HP104 – Membrane Check and Depth Check
PASS – 320mm bgl



HP105 – Membrane Check and Depth Check
PASS – 300mm bgl



HP106 – Membrane Check and Depth Check
PASS – 300mm bgl



APPENDIX IV

CHEMICAL TESTING RESULTS

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i2 Analytical Ltd.
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Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-047302

Project / Site name:	Adur Civic Centre	**Samples received on:**	28/08/2026
Your job number:	A12064-2	**Samples instructed on/ Analysis started on:**	28/08/2026
Your order number:	PO005445	**Analysis completed by:**	04/09/2026
Report Issue Number:	1	**Report issued on:**	04/09/2026
Samples Analysed:	4 soil samples		

[redacted]

Signed:

Steven Browne
Regional Customer Service Team Lead (South)
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 26-047302
Project / Site name: Adur Civic Centre
Your Order No: PO005445

Lab Sample Number				1030530	1030531	1030532	1030533
Sample Reference				HP103	HP104	HP105	HP106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.00-0.34	0.00-0.32	0.00-0.30	0.00-0.30
Date Sampled				27/08/2026	27/08/2026	27/08/2026	27/08/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	11	8.2	18
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9
Asbestos							
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	PNI	PNI	WBR	WBR
Analysis completed	N/A	N/A	N/A	01/09/2026	01/09/2026	01/09/2026	01/09/2026
General Inorganics							
pH (L099)	pH Units	N/A	MCERTS	7.8	7.4	7.8	7.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	98	93	210	100
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	48.8	46.7	103	51.4
Organic Matter (automated)	%	0.1	MCERTS	5.3	4.9	4.6	4.8
Total Phenols							
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs							
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.26	0.11	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.07	0.72	0.32	0.09
Pyrene	mg/kg	0.05	MCERTS	0.06	0.66	0.28	0.07
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.36	0.2	0.06
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.33	0.23	0.07
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.37	0.31	0.08
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.2	0.13	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.32	0.25	0.08
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.15	0.11	0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.15	0.13	0.06
Total PAH							
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	3.64	2.09	< 0.80

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 26-047302
Project / Site name: Adur Civic Centre
Your Order No: PO005445

Lab Sample Number				1030530	1030531	1030532	1030533
Sample Reference				HP103	HP104	HP105	HP106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.00-0.34	0.00-0.32	0.00-0.30	0.00-0.30
Date Sampled				27/08/2026	27/08/2026	27/08/2026	27/08/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.4	6.1	7.8	7.1
Boron (water soluble)	mg/kg	0.2	MCERTS	2.7	3	1.2	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S *U/S g	U/S *U/S g	U/S *U/S g	U/S *U/S g
Chromium (III)	mg/kg	1	NONE	U/S *U/S g	U/S *U/S g	U/S *U/S g	U/S *U/S g
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	< 1.80	< 1.80	< 1.80	< 1.80
Chromium (III) by IC	mg/kg	1	NONE	19	18	17	20
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	18	17	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	23	20	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	16	24	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	17	16	19
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	50	47	54	63
Petroleum Hydrocarbons							
TPHCWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	13
TPHCWG - Aromatic >EC5 - EC35 $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10	< 10	< 10	13
VOCs							
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

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

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 26-047302
Project / Site name: Adur Civic Centre

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1030530	HP103	None Supplied	0.00-0.34	Brown sand with gravel
1030531	HP104	None Supplied	0.00-0.32	Brown sand with gravel and vegetation
1030532	HP105	None Supplied	0.00-0.30	Brown sand with gravel and vegetation
1030533	HP106	None Supplied	0.00-0.30	Brown sand with gravel and vegetation

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Analytical Report Number : 26-047302
Project / Site name: Adur Civic Centre

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

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Analytical Report Number : 26-047302
Project / Site name: Adur Civic Centre

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Where coal tar is reported as "indicative/not indicative", PAH source attribution has been assessed using the ratio of parent PAHs to alkylated PAHs to indicate a likely pyrogenic (coal tar–related) or petrogenic (bitumen-related) origin. This assessment is independent of total residue and/or benzo(a)pyrene concentrations and is provided for indicative purposes only; it represents a single line of evidence and does not, in isolation, constitute confirmation or classification as hazardous under WM3 guidance.

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

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

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APPENDIX V

ORIGIN OF GAC VALUES

OMNIA	Doc Ref	Document Name
	TECH11106	Tier 1 Screen for Imported Soils

Determinant	Unit	GAC	Exposure Pathway	Origin of Risk Assessment Value
Metals				
Arsenic	mg/kg	37	1	LQM CIEH Suitable for Use Levels (S4UL) 2015- Inorganic Arsenic
Beryllium	mg/kg	1.7	1	LQM CIEH Suitable for Use Levels (S4UL) 2015
Boron	mg/kg	290	1	
Cadmium	mg/kg	11	2	
Chromium (III)	mg/kg	910	1	
Chromium (VI)	mg/kg	6	2	
Copper	mg/kg	2,400	2	
Lead	mg/kg	200	1	Category 4 Screening Level (C4SL) utilising exposure parameters from CLEA SR3 Report
Mercury	mg/kg	40	1	LQM CIEH Suitable for Use Levels (S4UL) 2015- Inorganic Mercury
Nickel	mg/kg	180	1,2	LQM CIEH Suitable for Use Levels (S4UL) 2015
Selenium	mg/kg	250	1,2	
Vanadium	mg/kg	410	2	
Zinc	mg/kg	3,700	2	
General Inorganics				
Total Cyanide[1]	mg/kg	50	1	Dutch Intervention Values 2010
Asbestos	%	0.001% Chrysotile	6	Omnia Derived Value based on ICRCL
General Organics				
Phenol	mg/kg	280	2	LQM CIEH Suitable for Use Levels (S4UL) 2015 1%SOM
PAHs				
Naphthalene	mg/kg	2.3	2	LQM CIEH Suitable for Use Levels (S4UL) 2015 based on a sandy loam as defined in SR3 (EA 2009) 1% SOM
Acenaphthylene	mg/kg	170	2	
Acenaphthene	mg/kg	210	2	
Fluorene	mg/kg	170	2	
Phenanthrene	mg/kg	95	2	
Anthracene	mg/kg	Footnote 3	2	
Fluoranthene	mg/kg	280	1,2	
Pyrene	mg/kg	620	1,2	
Benzo(a)Anthracene[	mg/kg	7.2	1	
Chrysene	mg/kg	15	1	
Benzo(b)Fluoranthene	mg/kg	2.6	1	
Benzo(k)Fluoranthene	mg/kg	77	1	
Benzo(a)Pyrene	mg/kg	2.2	1	
Indeno(123-cd)Pyrene	mg/kg	27	1	
Dibenzo(a,h)Anthracene	mg/kg	0.24	1	
Benzo(ghi)Perylene	mg/kg	320	1	
Total PAH[2]	mg/kg	<1,000	N/A	To prevent the import of hazardous PAH containing material.
BTEX & MTBE				
Benzene	mg/kg	0.087	4	LQM CIEH Suitable for Use Levels (S4UL) 2015 1%SOM
Toluene	mg/kg	130	2,4	
Ethylbenzene	mg/kg	47	2,4	
Xylenes	mg/kg	56	2,4	LQM CIEH Suitable for Use Levels (S4UL) 2015 1% SOM o-Xylene
MTBE	mg/kg	49	4	Soil Generic Assessment Criteria for Human Health Risk Assessment (2010)
TPH-CWG				
Aliphatic				LQM CIEH Suitable for Use Levels (S4UL) 2015 based on a sandy loam as defined in SR3 (EA 2009) 1% SOM
Aliphatic EC 5-6	mg/kg	42	4	
Aliphatic EC >6-8	mg/kg	100	4	
Aliphatic EC >8-10	mg/kg	27	4	
Aliphatic EC >10-12	mg/kg	130(vap)	4	

OMNIA	Doc Ref	Document Name
	TECH11106	Tier 1 Screen for Imported Soils

Determinant	Unit	GAC	Exposure Pathway	Origin of Risk Assessment Value
Aliphatic EC > 12-16[3]	mg/kg	Footnote 3	4	
Aliphatic EC > 16-35[3]	mg/kg	Footnote 3	1	
Aliphatic EC >35-44[3]	mg/kg	Footnote 3	1	
Aromatic				LQM CIEH Suitable for Use Levels (S4UL) 2015 based on a sandy loam as defined in SR3 (EA 2009) 1% SOM
Aromatic EC 5-7	mg/kg	70	4	
Aromatic EC>7-8	mg/kg	130	4	
Aromatic EC> 8-10	mg/kg	34	4	
Aromatic EC> 10-12	mg/kg	74	2	
Aromatic EC> 12-16	mg/kg	140	2	
Aromatic EC> 16-21	mg/kg	260	2	
Aromatic EC> 21-35[3]	mg/kg	Footnote 3	1	
Aromatic EC> 35-44[3]	mg/kg	Footnote 3	1	
Banded TPH				
TPH EC 5-6[3]	mg/kg	42	4	LQM CIEH Suitable for Use Levels (S4UL) 2015 based on a sandy loam as defined in SR3 (EA 2009) 1% SOM, utilising the most conservative of the Ali/Aro chain lengths
TPH EC >6-8[3]	mg/kg	100	4	
TPH EC >8-10[3]	mg/kg	27	4	
TPH EC> 10-12[3]	mg/kg	74	2	
TPH EC> 12-16[3]	mg/kg	140	2	
TPH EC> 16-21[3]	mg/kg	260	1	
TPH EC> 21-35[3, 4]	mg/kg	Footnote 4	1	
TPH EC> 35-44[3, 4]	mg/kg	Footnote 4	1	
TPH EC> 35-44[3, 4]	mg/kg	Footnote 4	1	
Total TPH (EC>5-44)	mg/kg	<1,000	N/A	To prevent the import of hazardous TPH containing material.

Notes
Abbreviations: GAC = General Assessment Criteria, n = number of samples, MC = Maximum Concentration; Loc of Ex = Location of Exceedance.

Main Exposure Pathways: 1 = Ingestion of Soil & Indoor Dust, 2 = Consumption of Homegrown Produce & Attached Soil; 3 = Dermal Contact (Indoor & Outdoor); 4 = Inhalation of Vapour (Indoor & Outdoor); 5 = Inhalation of Dust (Indoor & Outdoor), 6 = Inhalation of Fibres

(1) Total cyanide Tier 1 GAC is taken from the Dutch Intervention Value (2010) for complex cyanide.
(2) The S4UL screenig value for individual compounds exceeds 1,000mg/kg and therefore the Total PAH limit of <1,000mg/kg must be adhered to in order to prevent hazardous PAH containing material from being imported to site
(3) The Tier 1 GAC for the banded hydrocarbon fraction is derived from the CIEH/S4UL assessment for petroleum hydrocarbons Criteria Working Group (CWG) for both aliphatic and aromatic compounds. OEC has utilised the lowest of the aliphatic and aromatic chain lengths in order to adopt a conservative approach, which is considered satisfactory for the protection of human health.
(4) The S4UL screenig value for individual compounds exceeds 1,000mg/kg and therefore the TotalTPH (EC>5-44) limit of <1,000mg/kg must be adhered to in order to prevent hazardous PAH containing material from being imported to site
(sol) – GAC presented exceeds the solubility saturation limit.

APPENDIX VI

IMPORT CERTIFICATES

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Mike Jupp
The Woodhorn Group
Woodhorn Business Centre
Woodhorn Lane
Oving
Chichester
West Sussex PO20 2BX

8th June 2026
Our Ref: TOHA/26/7279/SS
Your Ref: PO 47541

Dear Sirs

Topsoil Analysis Report: Tangmere Composting Site, Chichester – Batch E7

We have completed the analysis of the soil sample recently submitted, referenced *Batch E7 BS3882 Topsoil,* and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil)*.

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification or validation testing or waste designation purposes, especially after the topsoil has left the Woodhorn Group site.

SAMPLE EXAMINATION

The sample was described as a dark yellowish brown (Munsell Colour 10YR 4/4), slightly moist, friable, slightly calcareous SANDY LOAM with a weakly developed, fine to medium granular structure*. The sample was virtually stone-free and contained a moderate proportion of organic fines and frequent woody fragments. No unusual odours or deleterious materials were observed.

*This appraisal of soil structure was made from examination of a disturbed sample. Structure is a key soil characteristic that may only be accurately assessed by examination in an in-situ state.

The Woodhorn Group

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- particle size analysis (sand, silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;
- heavy metals (As, B, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX);
- asbestos screen.

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Particle Size Analysis and Stone Content

The sample fell into the *sandy loam* texture class, which is usually considered suitable for general landscape applications, provided the physical condition of the soil is satisfactory.

The sample was virtually stone-free and, as such, stones should not restrict the use of the soil for general landscape purposes.

pH and Electrical Conductivity Values

The sample was alkaline in reaction (pH 7.5). This pH value would be considered suitable for general landscape purposes, provided species with a wide pH tolerance or those known to prefer alkaline soils are selected for planting, turfing and seeding.

The electrical conductivity (salinity) value (water extract) was moderate, which indicates that soluble salts should not be present at levels that would be harmful to plants.

The electrical conductivity value by $CaSO_4$ extract (*BS3882* requirement) of the sample fell below the maximum specified value (3300 µS/cm) given in *BS3882:2015 – Table 1*.

Organic Matter and Fertility Status

The sample was adequate to well supplied with organic matter and all major plant nutrients.

The level of extractable potassium in the sample (1524 mg/l) slightly exceeded the maximum specified value (1500 mg/l) given in *BS3882:2015 – Table 1*.

The C:N ratio of the sample was acceptable for general landscape purposes.

The Woodhorn Group

Potential Contaminants

With reference to *BS3882:2015 - Table 1*: Notes 3 and 4, there is a requirement to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the *residential with homegrown produce* land use in the Suitable For Use Levels (S4ULs) presented in *The LQM/CIEH S4ULs for Human Health Risk Assessment* (2015) and the DEFRA SP1010: *Development of Category 4 Screening Levels* (C4SLs) *for Assessment of Land Affected by Contamination – Policy Companion Document* (2014).

Of the potential contaminants determined, none exceeded their respective guideline values.

Note: Due to the dark colour of the sample, the colorimetry analysis of hexavalent chromium could not be performed in this instance (noted as U/S - Unsuitable Sample on the certificate). Instead, the laboratory has provided additional unaccredited testing for hexavalent chromium in this sample by ion chromatography, which was reported to be less than the limit of detection (<1.80 mg/kg).

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in *BS3882:2015 – Table 1.*

CONCLUSION

The purpose of the analysis was to determine the suitability of the topsoil sample for general landscape purposes. The analysis has also been undertaken to determine the sample's compliance with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).*

From the soil examination and subsequent laboratory analysis, the sample was described as an alkaline, non-saline, slightly calcareous *sandy loam* with a weakly developed structure and very low stone content. The sample was adequate to well supplied with organic matter and all major plant nutrients; the extractable potassium content was slightly high. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided species with a wide pH tolerance or those known to prefer alkaline soils are selected and the physical condition of the soil is satisfactory. The slightly elevated potassium level should reduce over time through wetting by irrigation and / or rainfall. As such, this level would not be considered detrimental to plant growth.

The sample was largely compliant with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil)* with the exception of the slightly elevated level of extractable potassium. On this occasion, this non-compliance is considered minor when reviewed in the context of all the other results.

Soil Handling Recommendations

It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, spreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is reasonably dry and non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to any planting, turfing or seeding.

Further details on soil handling are provided in Annex A of *BS3882:2015.*

The Woodhorn Group

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully

[redacted]

Harriet MacRae
BSc MSc
Soil Scientist

[redacted]

Rebecca Roberts
BSc MSc MISoilSci
Senior Soil Scientist

For & on behalf of Tim O'Hare Associates LLP

The Woodhorn Group

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Client:	**The Woodhorn Group**
Project:	**Tangmere Compost Site - Chichester**
Job:	**Topsoil Analysis - BS3882:2015**
Date:	**08/06/2026**
Job Ref No:	**TOHA/26/7279/SS**

Sample Reference			**Batch E7 BS3882 Topsoil**
		Accreditation	
Clay (<0.002mm)	%	UKAS	12
Silt (0.002-0.05mm)	%	UKAS	13
Sand (0.05-2.0mm)	%	UKAS	75
Texture Class (UK Classification)	--	UKAS	SL
Stones (2-20mm)	% DW	GLP	1
Stones (20-50mm)	% DW	GLP	0
Stones (>50mm)	% DW	GLP	0
pH Value (1:2.5 water extract)	units	UKAS	7.5
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS	963
Electrical Conductivity (1:2 $CaSO_4$ extract)	uS/cm	UKAS	2961
Exchangeable Sodium Percentage	%	UKAS	5.2
Organic Matter (LOI)	%	UKAS	5.8
Total Nitrogen (Dumas)	%	UKAS	0.32
C : N Ratio	ratio	UKAS	11
Extractable Phosphorus	mg/l	UKAS	34
Extractable Potassium	mg/l	UKAS	1524
Extractable Magnesium	mg/l	UKAS	271
Total Arsenic (As)	mg/kg	MCERTS	6
Total Cadmium (Cd)	mg/kg	MCERTS	< 0.2
Total Chromium (Cr)	mg/kg	MCERTS	19
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS	U/S
Total Copper (Cu)	mg/kg	MCERTS	19
Total Lead (Pb)	mg/kg	MCERTS	14
Total Mercury (Hg)	mg/kg	MCERTS	< 0.3
Total Nickel (Ni)	mg/kg	MCERTS	20
Total Selenium (Se)	mg/kg	MCERTS	< 1.0
Total Zinc (Zn)	mg/kg	MCERTS	47
Water Soluble Boron (B)	mg/kg	MCERTS	2.6
Total Cyanide (CN)	mg/kg	MCERTS	< 1.0
Total (mono) Phenols	mg/kg	MCERTS	< 1.0
Naphthalene	mg/kg	MCERTS	< 0.05
Acenaphthylene	mg/kg	MCERTS	< 0.05
Acenaphthene	mg/kg	MCERTS	< 0.05
Fluorene	mg/kg	MCERTS	< 0.05
Phenanthrene	mg/kg	MCERTS	0.07
Anthracene	mg/kg	MCERTS	< 0.05
Fluoranthene	mg/kg	MCERTS	0.15
Pyrene	mg/kg	MCERTS	0.14
Benz(a)anthracene	mg/kg	MCERTS	0.07
Chrysene	mg/kg	MCERTS	0.07
Benzo(b)fluoranthene	mg/kg	MCERTS	0.10
Benzo(k)fluoranthene	mg/kg	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	MCERTS	0.05
Indeno(1,2,3-cd)pyrene	mg/kg	MCERTS	< 0.05
Dibenzo(a,h)anthracene	mg/kg	MCERTS	< 0.05
Benzo(g,h,i)perylene	mg/kg	MCERTS	< 0.05
Total PAHs (sum USEPA16)	mg/kg	MCERTS	< 0.80
Aliphatic TPH >C5 - C6	mg/kg	MCERTS	< 0.010
Aliphatic TPH >C6 - C8	mg/kg	MCERTS	< 0.010
Aliphatic TPH >C8 - C10	mg/kg	MCERTS	< 0.010
Aliphatic TPH >C10 - C12	mg/kg	MCERTS	< 1.0
Aliphatic TPH >C12 - C16	mg/kg	MCERTS	< 2.0
Aliphatic TPH >C16 - C21	mg/kg	MCERTS	< 8.0
Aliphatic TPH >C21 - C35	mg/kg	MCERTS	12.00
Aliphatic TPH (C5 - C35)	mg/kg	MCERTS	12.00
Aromatic TPH >C5 - C7	mg/kg	MCERTS	< 0.010
Aromatic TPH >C7 - C8	mg/kg	MCERTS	< 0.010
Aromatic TPH >C8 - C10	mg/kg	MCERTS	< 0.020
Aromatic TPH >C10 - C12	mg/kg	MCERTS	< 1.0
Aromatic TPH >C12 - C16	mg/kg	MCERTS	< 2.0
Aromatic TPH >C16 - C21	mg/kg	MCERTS	< 10
Aromatic TPH >C21 - C35	mg/kg	MCERTS	< 10
Aromatic TPH (C5 - C35)	mg/kg	MCERTS	< 10
Benzene	mg/kg	MCERTS	< 0.005
Toluene	mg/kg	MCERTS	< 0.005
Ethylbenzene	mg/kg	MCERTS	< 0.005
p & m-xylene	mg/kg	MCERTS	< 0.008
o-xylene	mg/kg	MCERTS	< 0.005
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	MCERTS	< 0.005
Asbestos Screen	ND/D	ISO 17025	Not-detected

SL = SANDY LOAM
U/S = Unsuitable Sample

Visual Examination

The sample was described as a dark yellowish brown (Munsell Colour 10YR 4/4), slightly moist, friable, slightly calcareous SANDY LOAM with a weakly developed, fine to medium granular structure. The sample was virtually stone-free and contained a moderate proportion of organic fines and frequent woody fragments. No unusual odours or deleterious materials were observed.

[redacted]

Harriet MacRae
BSc MSc
Soil Scientist

Results of analysis should be read in conjunction with the report they were issued with

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TOHA Woodhorn Group