

Former Burgess Factory Land of Brookfield Road Burbage



CAPPING SUITABILITY (SOILS) ANALYSIS REPORT



Version: 1.0

Project no: BSH2145

Date: February 2024

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QUALITY MANAGEMENT

REPORT NUMBER:	BSH2145	
REPORT STATUS:	FINAL	
REPORT TYPE:	CAPPING SUITABILITY (SOILS) ANALYSIS REPORT	FINAL
REPORT DATE:	FEBRUARY 2024	
SITE:	FORMER BURGESS FACTORY, OFF BROOKFIELD ROAD, BURBAGE	
PREPARED FOR:	PERSIMMON HOMES NORTH MIDLANDS	
PREPARED BY:	STEPHEN HAYES	
BSH REVIEW BY:	BRENDAN SMITH	

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CAPPING SUITABILITY REPORT
for the site known as
FORMER BURGESS FACTORY, OFF BROOKFIELD ROAD, BURBAGE
prepared for
PERSIMMON HOMES NORTH MIDLANDS

1.0	INTRODUCTION.....	1
1.1	Background	1
1.2	Terms of Reference.....	1
1.3	Objectives of the Remediation (Capping System)	1
2.0	FINAL REMEDIATION WORKS (CAPPING SYSTEM)	2
2.1	EPS Remedial Strategy & Implementation Plan Summary.....	2
2.2	BSH Remediation Works (2023) – Placement of Breaker Layer	2
2.3	Donor Sites.....	2
2.4	Materials Management	3
3.0	CAPPING SUITABILITY – LABORATORY TESTING	4
3.1	Stockpile Sampling	4
4.0	CONCLUSIONS.....	7
4.1	Topsoil / Subsoil Suitability	7
4.2	Outstanding Construction Phase Remediation Requirements.....	7

TABLES

Table 3.1	Laboratory Analysis of Nuneaton Stockpiles (Topsoil & Subsoils).....	4
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APPENDICES

APPENDIX A DRAWINGS

Drawing No.	Title	Scale
BSH2145-001	Site Location Plan	Various
BSH2145-002	Break layer within Rear Garden Areas	1:250 @ A1

APPENDIX B MATERIALS MANAGEMENT PLAN DECLARATION

APPENDIX C LABORATORY ANALYSIS

1.0 INTRODUCTION

1.1 Background

BSH Remediation Limited were commissioned by Persimmon Homes North Midlands (the “Client”) to undertake the validation of the capping of gardens and landscaped areas associated with the redevelopment of a site known as Burgess Factory located off Brookfield Road, Burbage. A Site Location Plan BSH2145-001 is presented within Appendix A.

Remediation & Preparatory earthworks have previously been completed by BSH Remediation as per BSH2145 Validation Report, Former Burgess Factory, Land of Brookfield Road, Burbage dated May 2023.

In accordance with the agreed EPS Remedial Strategy & Implementation Plan, Former Burgess Factory, Land off Brookfield Road, Burbage, Report Reference UK21.5659d dated 19th October 2022 Issue 8 the final remediation works to be completed on site is the provision of a capping system within rear gardens and any landscaped areas.

1.2 Terms of Reference

The principal source of information used to inform the provision of the final capping system at the site is as follows:

- Remedial Strategy & Implementation Plan, Former Burgess Factory, Land off Brookfield Road, Burbage (EPS – October 2022) – Document Reference UK21.5659d Issue 8.

1.3 Objectives of the Remediation (Capping System)

The objectives of the capping system were as follows:

- To protect human health receptors and render the garden areas and areas of public open space (POS) suitable for the proposed development; and
- To satisfy the Local Planning Authority (LPA) environmental health department and building warranty provider that the remediated site will provide a site ready and suitable for the proposed development.

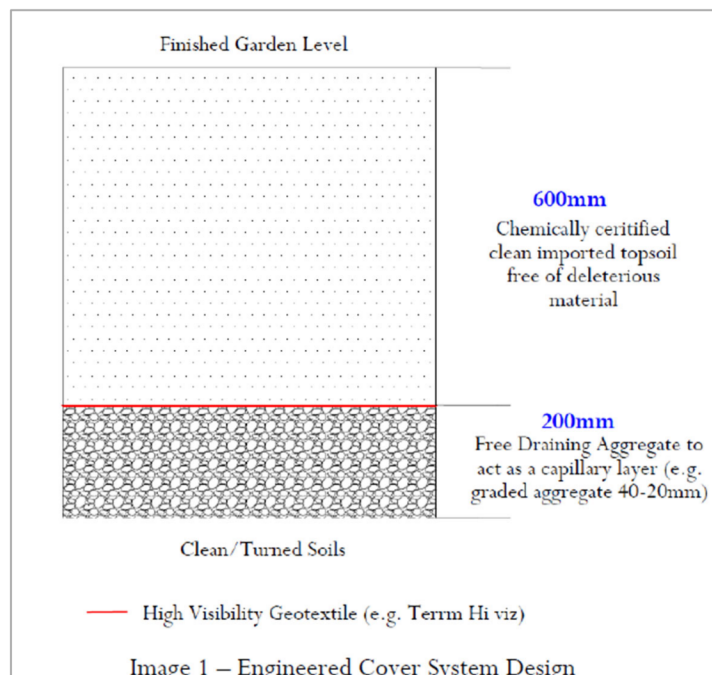
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2.0 FINAL REMEDIATION WORKS (CAPPING SYSTEM)

2.1 EPS Remedial Strategy & Implementation Plan Summary

The environmental consultancy undertaken by EPS concluded that a final site capping system would be required at the site to protect future site users within rear gardens and any landscaped areas.

The capping system approved by Hinckley & Bosworth Council is illustrated below (illustration taken from the EPS Remedial Strategy & Implementation Plan, Former Burgess Factory, Land off Brookfield Road, Burbage (EPS – October 2022) – Document Reference UK21.5659d Issue 8 p18):



2.2 BSH Remediation Works (2023) – Placement of Breaker Layer

The 200mm breaker layer (free draining aggregate) was placed by BSH Remediation during the main remediation works in 2023. An as-built survey showing the depth and extent of site won aggregate placed by BSH remediation is presented on Drawing No. BSH2145-002 within Appendix A. The site wide average of free draining aggregate is 209mm which exceeds the 200mm approved thickness.

2.3 Donor Sites

Due to no suitable topsoil / subsoils present on site for use within the capping system donor sites are required to ensure the capping system soils meet the requirements of the Remediation Strategy. A Persimmon Homes donor site was identified at their nearby development off Higham Lane, Nuneaton, CV11 6BD. The above donor site was visited on two separate occasions (11th January 2024 (topsoil sampling and testing) and 1st February 2024 (subsoil sampling and testing) by BSH's environmental

consultant to sample both stockpiles of topsoil and subsoil which have been identified as suitable for use.



Photo 1 – Nuneaton Topsoil / Subsoil Stockpile

2.4 Materials Management

It is proposed to move soils between Nuneaton and the Former Burgess Factory Site under the DoW CoP framework which enables the direct transfer and reuse of clean naturally occurring soil materials between sites. The materials management plan for the site has been declared with CL:aire and is presented in Appendix B.

3.0 CAPPING SUITABILITY – LABORATORY TESTING

3.1 Stockpile Sampling

Soil samples (20 No. topsoil samples and 20 No. subsoil samples) were recovered from separate stockpiles at the Nuneaton, Higham Lane donor site.

The samples taken were analysed for a range of contaminants in accordance with NHBC Standards Chapter 4.1 'Land Quality – managing ground conditions' and the EPS Remediation Strategy. The soil samples will be analysed for the following parameters: arsenic, cadmium, chromium, copper, nickel, zinc, lead, mercury, selenium, chromium, sulphate, PAHs, phenols, TPH (semi-speciated) and asbestos screen. Selected samples were to undergo additional asbestos quantification if they provided a positive asbestos screen result.

Results of chemical analysis are presented in Appendix C and summarised in Table 3.1.

Table 3.1 Laboratory Analysis of Nuneaton Stockpiles (Topsoil & Subsoils)

Determinand	no. of Samples Analysed	Concentration Range (mg/kg)	Tier 1 Screening Values (mg/kg)	no. Exceeding Threshold
Metals				
Arsenic	40	<1 - 5	37.0 ^b	0
Cadmium	40	<0.5 – 1.0	11.0 ^b	0
Chromium (Total)	40	17 - 56	910.0 ^b	0
Lead	40	6 – 53	200.0 ^a	0
Selenium	40	<1	250.0 ^b	0
Nickel	40	13 – 54	130.0 ^b	0
Copper	40	7 – 24	2400.0 ^b	0
Zinc	40	28 – 144	3700.0 ^b	0
Mercury	40	<0.17	40.0 ^b	0
Organics and Inorganics				
Acenaphthene	40	<0.01	210 ^b	0
Acenaphthylene	40	<0.01	170 ^b	0
Anthracene	40	<0.02	2400 ^b	0
Benzo(a)anthracene	40	<0.04	7.2 ^b	0
Benzo(a)pyrene	40	<0.04 – 0.06	2.2 ^b	0
Benzo(b)fluoranthene	40	<0.07 – 0.07	2.6 ^b	0
Benzo(ghi)perylene	40	<0.05	320 ^b	0
Benzo(k)fluoranthene	40	<0.07	77 ^b	0
Chrysene	40	<0.06	15 ^b	0
Dibenzo(a,h)anthracene	40	<0.04	0.24 ^b	0
Fluoranthene	40	<0.08	280 ^b	0

Determinand	no. of Samples Analysed	Concentration Range (mg/kg)	Tier 1 Screening Values (mg/kg)	no. Exceeding Threshold
Fluorene	40	<0.01	170 ^b	0
Indeno(123-cd)pyrene	40	<0.03	27 ^b	0
Naphthalene	40	<0.03	2.3 ^b	0
Phenanthrene	40	<0.03	95 ^b	0
Pyrene	40	0.04	620 ^b	0
Total PAH-16MS	40	<0.08 – 0.19	50 ^c	0
Total TPH (>C ₆ – C ₄₀)	40	<10 – 64	1000 ^b	0
Asbestos	40	NAD	NAD ^c	0

^a DEFRA C4SL values for a residential end use with gardens / plant uptake;

^b LQM 'S4UL' values (at 1% SOM for organics) for a residential end use with gardens / plant uptake (Copyright Land Quality Management Ltd reproduced with permission; Publication Number S4UL3676 All Rights Reserved);

^c BSH Remediation Ltd general screening level;

^x Values shown in brackets are at, in excess of vapour limits.

* Contaminants all recorded below laboratory limits of detection;

N/A = Not Applicable, NAD = Not Detected, D = Detected; and

Metals

The results recorded, were compared with the Tier 1 Soil Values set in the above referenced document and EPS remediation strategy.

Zootoxic Metals

None of the samples analysed for zootoxic metals recorded concentrations in excess of their respective target. On this basis, no risks have been identified from these determinands at the subject site.

Phytotoxic Metals

None of the samples analysed for phytotoxic metals recorded concentrations that were deemed excessive. Phytotoxic metals are not a risk to human health.

Inorganics and Organics

Asbestos

None of the samples analysed for asbestos fibres recorded any positive results. On this basis, no risks have been identified from asbestos fibres at the subject site.

TPH

The samples sent for analysis recorded results that were all considerably lower than the remedial criteria for the site. On this basis, no risks have been identified from these determinands at the donor site.

PAH

The significance of the PAH laboratory results has been assessed using the T1SV for benzo(a)pyrene. This is considered, in terms of toxicity, to present the greatest hazard to human health. The T1SV of 2.2mg/kg was not exceeded in any of the soil samples. On this basis, no risks have been identified from these determinants at the donor site.

Water Soluble Sulphate

None of the samples analysed for sulphate recorded any elevated results. On this basis, no risks have been identified from water soluble sulphate at the subject site.

General Contaminants*Visual, Olfactory and Field Measurements*

No other significant visual or olfactory evidence of any potential contamination was noted within any of the two topsoil or subsoil stockpiles.

The laboratory testing results for both topsoil and natural subsoils confirm that stripped topsoil and subsoil stockpiled at the Nuneaton, Higham Lane donor site for re-use within the Burgess development is considered suitable for re-use to form part of the capping system.

4.0 CONCLUSIONS

4.1 Topsoil / Subsoil Suitability

This document confirms that the topsoil and subsoil identified for the capping system at the Former Burgess Factory site is considered suitable for use as agreed with Hinkley & Bosworth Council and the material from the donor site is considered suitable for use.

The soils are being moved under the DoWCoP framework which has been agreed.

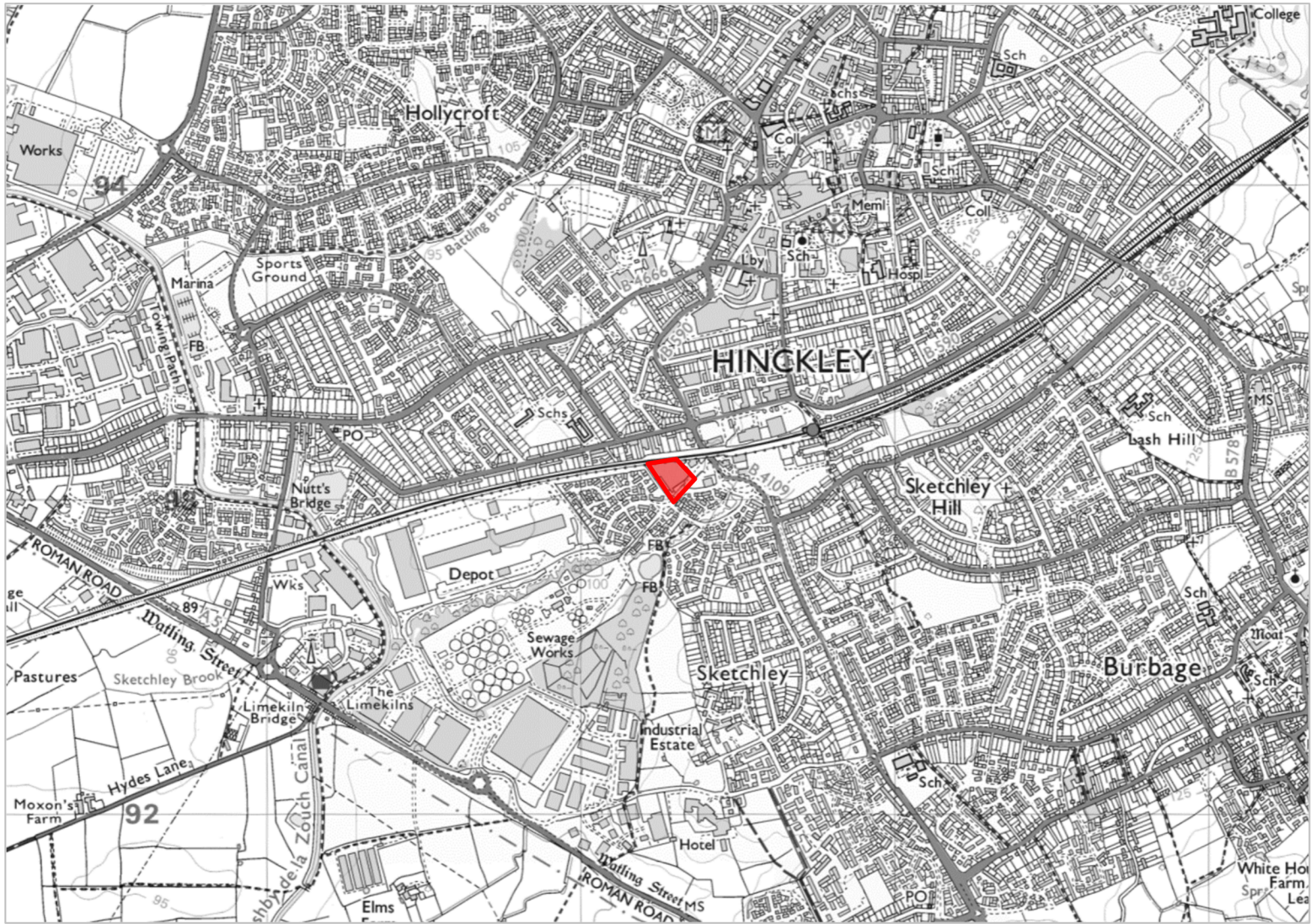
4.2 Outstanding Construction Phase Remediation Requirements

Further Works Required:

- Validation of the installation of the marker/ membrane below the imported subsoil / topsoil by an experienced Environmental Consultant.
- Validation of the clean capping thickness required on a plot-by-plot basis by an Environmental Consultant.

BSH Remediation Ltd

APPENDIX A – Drawings



DO NOT SCALE

NOTES:



Site Location



www.bshremediation.co.uk

CLIENT:



PROJECT:

Former Burgess Factory,
Brookfield Road, Burbage

TITLE:

Site Location Plan

SCALE@SIZE :

NTS

ISSUE:

Final

DESIGN/DRAWN :

SPH

DATE:

February 2024

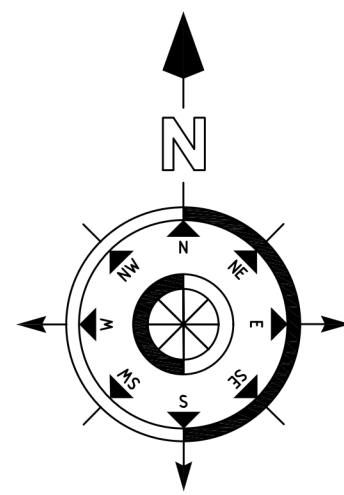
PROJECT No:

BSH2145

DRAWING No:

BSH2145 - 001

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NOTES

+ 101.49 Top of 200mm Thickness 6F2 Aggregate Layer

+ 101.27 Underside of 200mm Thickness 6F2 Aggregate Layer

CLIENT

PERSIMMON HOMES



BSH
remediation

BSH Remediation Limited
66 Lightwoods Hill, Smethwick, B67 5EB
Email: brendan@bshremediation.co.uk

JOB TITLE

BURGESS FACTORY

DRAWING TITLE

BREAK LAYER WITHIN REAR GARDEN AREAS

STATUS		
FINAL		
DRAWN BY	DATE	REVISION
RMP	15/01/2024	A
APPROVED	DATE	PAPER SIZE
SH	15/01/2024	A1
SCALE	DRG No.	
1:250	BSH2145-002	

APPENDIX B - Materials Management Plan Declaration



Definition of Waste Code of Practice Declaration Receipt

This Declaration has been submitted to the Environment Agency under the Definition of Waste Code of Practice (DoW CoP).

You are reminded that if materials are not used in accordance with the Materials Management Plan or risk assessment, or if it is discovered that materials were not suitable for use, were used in excessive quantity or in such a manner as to harm human health or pollute the environment, the Environment Agency may conclude that those materials were discarded and were waste.

You are also reminded that a Verification Report must be prepared on completion of the work as set out in the Remediation Strategy / Design Statement covering the site. This Verification Report must be provided to the Environment Agency upon request.

This receipt relates to the following Declaration -

1. References	
Your Reference for this Declaration	Former Burgess Factory_Burbage, LE10 2LL
Related declaration references	1st declaration - reuse on site of origin - dec time stamp 2022-09-27 13:57:54 16800m3. This declaration relates to donor site 1 located at Highams Lane, Nuneaton where Subsoils (2100m3) & Topsoil (700m3) are available. Total material available at donor 1 = 2800m3.
3. Site of Origin	N/A
4. Direct Transfer	Checked
5. Cluster Project (including use of a fixed Soil Treatment Facility as a Hub site)	N/A
2. Proposed Volumes	
Proposed Volumes in m ³	2800



Additional comments on Proposed Volumes	BSH Remediation Earthworks model BSH PROPOSED FINISHED LEVELS WITH SURFACE FEATURE -300MM dated 22 09 22. A detailed earthworks model has been completed for the site. In summary the earthworks is presented below: Soils to be reused on site are 16,800m3 (to achieve development platforms) Donor Site 1: Subsoils (2100m3) & Topsoil (700m3) – Total Import required 2,800m3 for capping to gardens and POS
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4. Direct Transfer	
4a. Route A: Direct use of clean naturally occurring soils with elevated levels of naturally occurring substances on another development site.	Checked
4b. Route B: Direct use of clean naturally occurring soils on another development site.	N/A
4c. Donor Sites	
Donor Site #1	
Site Address	Higham Lane, Nuneaton Address: Land off Higham Lane, Nuneaton CV11 6BD (approximately centred on NGR 438081, 293940).
Company	Persimmon Homes North Midlands
Developer company address	Davidson House, Meridian Business Park, Leicester, LE19 1WZ
Name	Ross Adamiecki
Email	ross.Adamiecki@persimmonhomes.com
Telephone	0116 281 5696
4d. Receiver Sites	
Receiver Site #1	
Site Address	Former Burgess Factory Land off Brookfield Road, Burbage, LE10 2LL
Company	Persimmon Homes North Midlands



Developer company address	Davidson House, Meridian Business Park, Leicester, LE19 1WZ
Name	Ross Adamiecki
Email	ross.Adamiecki@persimmonhomes.com
Telephone	0116 281 5696

6. Local Authorities / Regulators**6a. Local Authorities****Local Authority #1**

Receiver Site Local Authority	Hinckley and Bosworth Borough Council
Local Authority Address	Hinckley Hub, Rugby Road, Hinckley, Leics LE10 0FR
Lead Contact Name	Giles Rawdon
Lead Contact Role	Environmental Health Officer
Lead Contact Address (if different from above)	As above
Lead Contact Email	giles.rawdon@hinckley-bosworth.gov.uk
Lead Contact Telephone	01455 255684
Receiver Site Agency	Nottingham
Agency Address	Environment Agency Trentside Offices, Scarrington Road, West Bridgford, NG2 5FA Contact: Darren Pell
Contact Telephone	020 8474 7950
Contact Email	RegulatedIndustryDNL@environment- agency.gov.uk

7. Lines of Evidence

Reference for the Materials Management Plan	8th January 2024 – BSH2145/MMP/01
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Reference for the Risk Assessment	Receiver site: Phase II Geo-Environmental Assessment, Former Burgess Factory EPS Reference Number: UK21.5659 dated 15th December 2021 Report Issue 1; Supplementary Phase II Geo-Environmental Assessment, Former Burgess Factory EPS Reference Number: UK21.5659b dated 8th July 2022. Donor Site 1: Geomatters Consulting Engineers Soil Suitability Letter Reference ML/GML23131/SSL01 dated 11th July 2023.
Reference for either Remediation Strategy or Design Statement	Remedial Strategy & Implementation Plan, Former Burgess Factory, EPS Project Reference: UK21.5659d dated 26th July 2022.
Reference for the Verification Plan	The requirements of the Verification plan as listed in the DoW CoP (3.2.2) are addressed within section 26 of the MMP, ref.8th January 2024 – BSH2145/MMP/01 Note– the Verification Plan requirements are also included within Remedial Strategy & Implementation Plan, Former Burgess Factory, EPS Project Reference: UK21.5659d dated 26th July 2022. UK21.5659d dated 26th July 2022
Company	BSH Remediation
Address	66 Lightwoods Hill, Bearwood, Birmingham, West Midlands, B67 5EB
Name	Stephen Hayes
Email	stephen@bshremediation.co.uk
Telephone	07557385386
Expected production date for the Verification Report.	2025-01-31 00:00:00
7gi. Location plans	Receiver site: Phase II Geo-Environmental Assessment Former Burgess Factory, Burbage EPS Ref: UK21.5659-Figure 1 Site Location Plan Donor site 1: Geomatters Consulting Engineers Soil Suitability Letter Reference ML/GML23131/SSL01 dated 11th July 2023. - Drawing 001 - sampling point layout



7gii. Schematics	Receiver: Persimmon Homes Topographical Survey Drawing No. 38479_T Rev 1 dated 06.11.20 Engineering layout Plan Drawing No. 1707-101 Revision M dated December 2020. BSH Remediation Earthworks model BSH PROPOSED FINISHED LEVELS WITH SURFACE FEATURE -300MM dated 22 09 22. Donor Site 1: Geomatters Consulting Engineers Soil Suitability Letter Reference ML/GML23131/SSL01 dated 11th July 2023.
7giii. Desk Top Study	Receiver site: Included within Phase II Geo-Environmental Assessment, Former Burgess Factory EPS Reference Number: UK21.5659 dated 15th December 2021 Report Issue 1; Donor 1: Contained within Geomatters Consulting Engineers Soil Suitability Letter Reference ML/GML23131/SSL01 dated 11th July 2023. - Drawing 001 - sampling point layout
7giv. Mass balance calculations	Mass balance calculations contained within BSH Remediation Earthworks model BSH PROPOSED FINISHED LEVELS WITH SURFACE FEATURE -300MM dated 22 09 22.
7gv. Contingency arrangements	Contingency measures are covered by points 21a to 21d (incl) of MMP ref: 8th January 2024 – BSH2145/MMP/01
7gvi. Tracking system	8th January 2024 – BSH2145/MMP/01- 22a to 22e (incl.) detail the tracking system that will be implemented
a) The Local Authority	Checked
b) Environment Agency	Checked
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A



Reference the correspondence with the Local Authority	Email referenced: Use of Materials Management Plan - Former Burgess Factory dated 22nd September 2022 from Giles Rawdon (Environmental Health Officer stating "...We have no objection to you using the CL:AIRE Definition of Waste: Code of Practice (DoW CoP)..").
Reference the correspondence with the Environment Agency	Email referenced: Use of Materials Management Plan - Former Burgess Factory, dated 12th August 2022 from Darren Pell (Regulated Industry Single Point of Contact (SPOC) Duty Officer) "...Providing that the DoWCoP is followed in full we have no objections to materials re-use, in accordance with our RPS. Materials not used in accordance with the DoWCoP process in full may be deemed waste and will require a relevant permit for deposit."
I have reviewed the planning consent including planning conditions	Checked
Planning Reference (State either the reference or Not Applicable.)	21/00225/FUL
a) The Local Authority	Checked
b) Environment Agency	Checked
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A
Please list correspondence reviewed above	See 7h.
Planning consent not required	N/A

8. QP Declaration	
8a. QP Name	Simon Morris
8b. QP Number	QP007
8c. I satisfy the Qualified Person requirements set out in Appendix 6 of the Definition of Waste: Development Industry Code of Practice to complete this Declaration.	Checked



8d. I have reviewed the Materials Management Plan for the above project.	Checked
8e. I have reviewed the Risk Assessment.	Checked
8f. I have reviewed the Remediation Strategy/Design Statement covering the above site.	Checked
8g. I have requested correspondence / documentation relating to the development and how that relates to the use of materials.	Checked
8h. The risk assessment assesses human health and environmental risks in relation to the proposed uses of all the materials in the MMP. The risk assessment concludes that the objectives of preventing harm to human health and pollution of the environment will be met if materials are used in the proposed manner	Checked
8i. The Local Authority, the Environment Agency / Natural Resources Wales and other relevant environmental regulatory bodies have not objected to the proposed development / land remediation on the basis that the use of any material is likely to cause harm to human health or pollution of the environment. [This confirmation should be given regardless of whether planning consent is required for the activity. Also see paragraph 3.37 of the CoP.].	Checked
8j. The EA/NRW have not objected to the reuse of materials on the grounds that it a.) constitutes a waste management operation or b.) has had a previous application for an environmental permit for waste recovery refused (on the grounds that the project represents waste disposal).	Checked
8k. The project does not involve land-spreading / agricultural re-profiling.	Checked
8l. The project has not yet commenced; this is not a retrospective application of the DoW CoP.	Checked

APPENDIX C- Laboratory Analysis

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/00344
Issue Number: 1

Date: 29 January, 2024

Client: Elemental GI Ltd
38 Silverburn Drive
Oakwood
Derby
Derby
UK
DE21 2JJ

Project Manager: James Regan
Project Name: Persimmon Site, Nuneaton
Project Ref: BSH2145
Order No: BSH2145
Date Samples Received: 15/01/24
Date Instructions Received: 15/01/24
Date Analysis Completed: 29/01/24

Approved by:



Sophie France
Client Manager

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/1	24/00344/2	24/00344/3	24/00344/4	24/00344/5	24/00344/6	24/00344/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS01	TS02	TS03	TS04	TS05	TS06	TS07			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6	6E	6E	6	6	6	6E			
% Stones >10mm _A	<0.1	5.1	<0.1	<0.1	<0.1	<0.1	2.8	% w/w	0.1	A-T-044
pH _D ^{M#}	7.51	7.30	7.18	7.20	7.14	7.10	7.05	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	g/l	0.01	A-T-026s
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	1.79	1.86	2.16	1.73	1.50	1.99	1.67	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	5	5	4	3	3	4	5	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	22	24	22	22	20	22	21	mg/kg	1	A-T-024s
Chromium _D ^{M#}	34	34	35	39	38	39	35	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	39	53	49	33	32	36	37	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	32	30	33	34	33	35	33	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	83	144	78	83	73	79	75	mg/kg	5	A-T-024s
TPH total (>C6-C40) _A ^{M#}	22	53	40	46	34	36	36	mg/kg	10	A-T-007s

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/1	24/00344/2	24/00344/3	24/00344/4	24/00344/5	24/00344/6	24/00344/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS01	TS02	TS03	TS04	TS05	TS06	TS07			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6	6E	6E	6	6	6	6E			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/1	24/00344/2	24/00344/3	24/00344/4	24/00344/5	24/00344/6	24/00344/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS01	TS02	TS03	TS04	TS05	TS06	TS07			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6	6E	6E	6	6	6	6E			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/8	24/00344/9	24/00344/10	24/00344/11	24/00344/12	24/00344/13	24/00344/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS08	TS09	TS10	TS11	TS12	TS13	TS14			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6E	6E	6E	6E	6AE	6AE			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	3.0	% w/w	0.1	A-T-044
pH _D ^{M#}	7.16	7.08	7.30	7.27	6.67	6.84	7.03	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	g/l	0.01	A-T-026s
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	1.85	1.96	1.32	0.98	2.00	2.16	1.71	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	4	4	4	4	4	2	4	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	22	24	20	18	19	20	20	mg/kg	1	A-T-024s
Chromium _D ^{M#}	31	32	35	49	30	32	32	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	39	43	29	22	36	30	36	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	28	29	33	42	25	25	28	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	82	87	74	75	70	63	73	mg/kg	5	A-T-024s
TPH total (>C6-C40) _A ^{M#}	64	55	36	37	41	58	31	mg/kg	10	A-T-007s

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/8	24/00344/9	24/00344/10	24/00344/11	24/00344/12	24/00344/13	24/00344/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS08	TS09	TS10	TS11	TS12	TS13	TS14			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6E	6E	6E	6E	6AE	6AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/8	24/00344/9	24/00344/10	24/00344/11	24/00344/12	24/00344/13	24/00344/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS08	TS09	TS10	TS11	TS12	TS13	TS14			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6E	6E	6E	6E	6AE	6AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.06	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A	<0.08	0.12	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/15	24/00344/16	24/00344/17	24/00344/18	24/00344/19	24/00344/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS15	TS16	TS17	TS18	TS19	TS20				
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10				
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24				
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	6E	6E	6A	6A	6AE	6AE				
% Stones >10mm _A	<0.1	<0.1	<0.1	4.9	<0.1	<0.1		% w/w	0.1	A-T-044
pH _D ^{M#}	7.02	7.17	7.07	7.05	6.54	6.88		pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.01	0.01	<0.01	0.04	0.01		g/l	0.01	A-T-026s
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	2.47	1.99	2.05	1.80	2.14	2.18		% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	5	5	5	4	4	4		mg/kg	1	A-T-024s
Cadmium _D ^{M#}	1.0	<0.5	<0.5	<0.5	<0.5	<0.5		mg/kg	0.5	A-T-024s
Copper _D ^{M#}	23	22	22	20	20	21		mg/kg	1	A-T-024s
Chromium _D ^{M#}	39	38	33	32	32	30		mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Lead _D ^{M#}	36	36	38	37	39	44		mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	35	32	29	28	26	26		mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc _D ^{M#}	108	79	76	74	72	75		mg/kg	5	A-T-024s
TPH total (>C6-C40) _A ^{M#}	38	20	17	51	39	41		mg/kg	10	A-T-007s

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/15	24/00344/16	24/00344/17	24/00344/18	24/00344/19	24/00344/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS15	TS16	TS17	TS18	TS19	TS20				
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10				
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24				
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	6E	6E	6A	6A	6AE	6AE				
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 24/00344

Client Project Name: Persimmon Site, Nuneaton

Client Project Ref: BSH2145

Lab Sample ID	24/00344/15	24/00344/16	24/00344/17	24/00344/18	24/00344/19	24/00344/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TS15	TS16	TS17	TS18	TS19	TS20				
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10				
Depth To Bottom										
Date Sampled	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24	11-Jan-24				
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	6E	6E	6A	6A	6AE	6AE				
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.06	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.06	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.07	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS _A	0.19	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.01	A-T-019s

Report Notes

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
 The results reported herein relate only to the material supplied to the laboratory.
 The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
 Analytical results reflect the quality of the sample at the time of analysis only.
 Opinions and Interpretations expressed are outside our scope of accreditation.
 The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
 A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "A"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
 Stones etc. are not removed from the sample prior to analysis
 Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).
 For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
 For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
 All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
 Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.
 Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Elemental GI Ltd, 38 Silverburn Drive, Oakwood, Derby, Derby, UK, DE21 2JJ	Project No:	24/00344
Project:	Persimmon Site, Nuneaton	Date Received:	15/01/2024 (am)
Clients Project No:	BSH2145	Cool Box Temperatures (°C):	5.2, 5.0, 4.8, 4.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/00344/1	24/00344/2	24/00344/3	24/00344/4	24/00344/5	24/00344/6	24/00344/7	24/00344/8	24/00344/9	24/00344/10	24/00344/11	24/00344/12
Client Sample No												
Client Sample ID/Depth	TS01 0.10m	TS02 0.10m	TS03 0.10m	TS04 0.10m	TS05 0.10m	TS06 0.10m	TS07 0.10m	TS08 0.10m	TS09 0.10m	TS10 0.10m	TS11 0.10m	TS12 0.10m
Date Sampled	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
A-T-007s	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024
A-T-019s	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024
A-T-024s	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
A-T-026s	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024
A-T-031s	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
A-T-032s	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024
A-T-040s	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024
A-T-044	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024
A-T-045	16/01/2024	16/01/2024	16/01/2024	16/01/2024	16/01/2024	16/01/2024	16/01/2024	16/01/2024	16/01/2024	16/01/2024	17/01/2024	17/01/2024
A-T-050s	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024

Lab Sample ID	24/00344/13	24/00344/14	24/00344/15	24/00344/16	24/00344/17	24/00344/18	24/00344/19	24/00344/20
Client Sample No								
Client Sample ID/Depth	TS13 0.10m	TS14 0.10m	TS15 0.10m	TS16 0.10m	TS17 0.10m	TS18 0.10m	TS19 0.10m	TS20 0.10m
Date Sampled	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
A-T-007s	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024
A-T-019s	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024	18/01/2024
A-T-024s	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024	25/01/2024	25/01/2024
A-T-026s	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024
A-T-031s	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
A-T-032s	23/01/2024	23/01/2024	23/01/2024	23/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
A-T-040s	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024	23/01/2024
A-T-044	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024	22/01/2024
A-T-045	17/01/2024	17/01/2024	17/01/2024	17/01/2024	17/01/2024	17/01/2024	17/01/2024	17/01/2024
A-T-050s	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

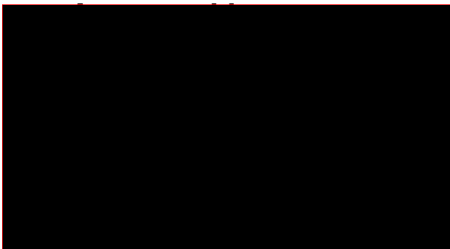
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/01121
Issue Number: 1

Date: 20 February, 2024

Client: Elemental GI Ltd
38 Silverburn Drive
Oakwood
Derby
Derby
UK
DE21 2JJ

Project Manager: James Regan
Project Name: PERSIMMON SITE, NUNEATON
Project Ref: BSH2145
Order No: BSH2145
Date Samples Received: 05/02/24
Date Instructions Received: 05/02/24
Date Analysis Completed: 20/02/24



Gemma Densford
Deputy Client Services Supervisor

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/1	24/01121/2	24/01121/3	24/01121/4	24/01121/5	24/01121/6	24/01121/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS201	SS202	SS203	SS204	SS205	SS206	SS207			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	5AE	5A	3A	3AE	5A	5A	3AE			
% Stones >10mm _A	3.4	0.5	<0.1	2.2	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	6.84	6.77	7.02	7.02	6.95	6.84	7.02	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.05	<0.01	0.03	0.07	0.04	0.01	g/l	0.01	A-T-026s
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	0.30	0.18	0.32	0.30	0.33	0.24	0.26	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	2	2	<1	2	3	2	<1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	12	11	20	14	17	11	22	mg/kg	1	A-T-024s
Chromium _D ^{M#}	28	21	45	40	44	24	45	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	7	9	9	10	11	8	7	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	20	17	40	36	37	16	40	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	38	33	62	57	62	34	60	mg/kg	5	A-T-024s
TPH total (>C6-C40) _A ^{M#}	<10	<10	<10	<10	<10	<10	<10	mg/kg	10	A-T-007s

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/1	24/01121/2	24/01121/3	24/01121/4	24/01121/5	24/01121/6	24/01121/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS201	SS202	SS203	SS204	SS205	SS206	SS207			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	5AE	5A	3A	3AE	5A	5A	3AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/1	24/01121/2	24/01121/3	24/01121/4	24/01121/5	24/01121/6	24/01121/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS201	SS202	SS203	SS204	SS205	SS206	SS207			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	5AE	5A	3A	3AE	5A	5A	3AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/8	24/01121/9	24/01121/10	24/01121/11	24/01121/12	24/01121/13	24/01121/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS208	SS209	SS210	SS301	SS302	SS303	SS304			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	3AE	3A	3A	3A	5AE	3A	3A			
% Stones >10mm _A	1.0	<0.1	2.5	<0.1	<0.1	4.2	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	7.14	7.12	6.95	6.94	6.76	6.56	6.44	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.03	0.04	0.03	0.03	0.09	<0.05	<0.05	g/l	0.01	A-T-026s
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	0.27	0.23	0.31	0.65	0.31	0.31	0.39	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	<1	<1	<1	2	3	<1	1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	21	18	18	11	16	17	17	mg/kg	1	A-T-024s
Chromium _D ^{M#}	46	41	41	22	44	41	43	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	8	7	9	15	11	10	9	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	49	38	48	17	40	39	38	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	60	57	61	38	59	60	57	mg/kg	5	A-T-024s
TPH total (>C6-C40) _A ^{M#}	<10	<10	<10	<10	<10	<10	<10	mg/kg	10	A-T-007s

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/8	24/01121/9	24/01121/10	24/01121/11	24/01121/12	24/01121/13	24/01121/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS208	SS209	SS210	SS301	SS302	SS303	SS304			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	3AE	3A	3A	3A	5AE	3A	3A			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/8	24/01121/9	24/01121/10	24/01121/11	24/01121/12	24/01121/13	24/01121/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS208	SS209	SS210	SS301	SS302	SS303	SS304			
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	3AE	3A	3A	3A	5AE	3A	3A			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/15	24/01121/16	24/01121/17	24/01121/18	24/01121/19	24/01121/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS305	SS306	SS307	SS308	SS309	SS310				
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10				
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24				
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	5A	3A	3A	3AE	3AE	3AE				
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH _D ^{M#}	7.03	6.99	6.92	6.75	6.87	6.71		pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.05	0.02	0.07	0.04	0.08	0.04		g/l	0.01	A-T-026s
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	0.19	0.25	0.25	0.22	0.17	0.28		% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	2	1	2	3	2	2		mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		mg/kg	0.5	A-T-024s
Copper _D ^{M#}	7	17	13	21	10	20		mg/kg	1	A-T-024s
Chromium _D ^{M#}	17	48	36	56	30	48		mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Lead _D ^{M#}	7	7	8	8	6	9		mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	13	52	35	54	25	53		mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc _D ^{M#}	28	61	50	66	34	62		mg/kg	5	A-T-024s
TPH total (>C6-C40) _A ^{M#}	<10	<10	<10	<10	<10	<10		mg/kg	10	A-T-007s

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/15	24/01121/16	24/01121/17	24/01121/18	24/01121/19	24/01121/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS305	SS306	SS307	SS308	SS309	SS310				
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10				
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24				
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	5A	3A	3A	3AE	3AE	3AE				
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 24/01121

Client Project Name: PERSIMMON SITE, NUNEATON

Client Project Ref: BSH2145

Lab Sample ID	24/01121/15	24/01121/16	24/01121/17	24/01121/18	24/01121/19	24/01121/20		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SS305	SS306	SS307	SS308	SS309	SS310				
Depth to Top	0.10	0.10	0.10	0.10	0.10	0.10				
Depth To Bottom										
Date Sampled	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24				
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Matrix Code	5A	3A	3A	3AE	3AE	3AE				
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS _A	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.01	A-T-019s

Report Notes

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
 The results reported herein relate only to the material supplied to the laboratory.
 The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
 Analytical results reflect the quality of the sample at the time of analysis only.
 Opinions and Interpretations expressed are outside our scope of accreditation.
 The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
 A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "A"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
 Stones etc. are not removed from the sample prior to analysis
 Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).
 For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
 For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
 All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
 Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.
 Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Elemental GI Ltd, 38 Silverburn Drive, Oakwood, Derby, Derby, UK, DE21 2JJ	Project No:	24/01121
Project:	PERSIMMON SITE, NUNEATON	Date Received:	05/02/2024 (am)
Clients Project No:	BSH2145	Cool Box Temperatures (°C):	10.0-10.5

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/01121/1	24/01121/2	24/01121/3	24/01121/4	24/01121/5	24/01121/6	24/01121/7	24/01121/8	24/01121/9	24/01121/10	24/01121/11	24/01121/12
Client Sample No												
Client Sample ID/Depth	SS201 0.10m	SS202 0.10m	SS203 0.10m	SS204 0.10m	SS205 0.10m	SS206 0.10m	SS207 0.10m	SS208 0.10m	SS209 0.10m	SS210 0.10m	SS301 0.10m	SS302 0.10m
Date Sampled	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24
A-T-007s	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
A-T-019s	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
A-T-024s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-026s	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024
A-T-031s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-032s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-040s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-044	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
A-T-045	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024
A-T-050s	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024

Lab Sample ID	24/01121/13	24/01121/14	24/01121/15	24/01121/16	24/01121/17	24/01121/18	24/01121/19	24/01121/20
Client Sample No								
Client Sample ID/Depth	SS303 0.10m	SS304 0.10m	SS305 0.10m	SS306 0.10m	SS307 0.10m	SS308 0.10m	SS309 0.10m	SS310 0.10m
Date Sampled	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24	01/02/24
A-T-007s	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024	16/02/2024
A-T-019s	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
A-T-024s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-026s	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024	20/02/2024
A-T-031s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-032s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-040s	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024	19/02/2024
A-T-044	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
A-T-045	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024
A-T-050s	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report