

Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 1'.
Sheet: 15

Plot: 8 (Front)
Hole: HP23



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 1'.
Sheet: 16

Plot: 12 (Front)
Hole: HP24



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 1

Hole: HP28



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 2

Hole: HP29



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 3

Hole: HP30



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 4

Hole: HP31



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 5

Hole: HP32



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 6

Hole: HP33



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 7

Hole: HP34



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 8

Hole: HP35



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 9

Hole: HP36



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 10

Hole: HP37



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 11

Hole: HP38



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 12

Hole: HP39



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 13

Hole: HP40



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 14

Hole: HP41



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 15

Hole: HP42



Photographic Record: Capping Layer Depth Validation

Project: Gorton Lane, North, 'Site 2'.
Sheet: 16

Hole: HP43



Photographic Record: Barrier Pipe Installation

Project: Gorton Lane, South.
Sheet: 1



Photographic Record: Barrier Pipe Installation

Project: Gorton Lane, South.
Sheet: 2



Appendix C – Imported Soils Analysis



TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Mr Nathan Birchenall
Tarmac Topscope
Manchester Road
Congleton
Cheshire, CW12 2LU

1st July 2022
Our Ref: TOHA/22/7546/SS
Your Ref: PO 00509067

Dear Sirs

Topsoil Analysis Report: Topscope Topsoil (Crown Farm)

We have completed the analysis of the soil sample recently submitted, referenced *Topscope Topsoil (Crown Farm)*, 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 recently 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 Tarmac Topscope site.

SAMPLE EXAMINATION

The sample was described as a dark brown (Munsell Colour 10YR 3/3), slightly moist, friable, very slightly calcareous LOAMY SAND with a single grain structure*. The sample was slightly stony and contained a moderately high proportion of organic fines and occasional woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed

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

Tim O'Hare Associates LLP
Howbery Park Wallingford Oxfordshire OX10 8BA
T: 01491 822653 E: info@toha.co.uk
www.toha.co.uk

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:

- detailed particle size analysis (% 5 sands, 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

Detailed Particle Size Analysis and Stone Content

The sample fell into the *loamy sand* texture class, with a sand content that exceeded our maximum recommended value of 85%. However, further detailed particle size analysis revealed the sample to have a relatively narrow particle size distribution with a predominance of *fine sand* (0.15-0.25mm) and *medium sand* (0.25-0.50mm). This, along with the organic matter content of the soil, should offset the slightly high sand content and provide a suitable growing medium for general landscape applications.

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

pH and Electrical Conductivity Values

The sample was strongly alkaline in reaction (pH 8.4). This pH value would be considered suitable for general landscape purposes providing 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) fell below the maximum specified value (3300 $\mu\text{S}/\text{cm}$) given in BS3882:2015 – Table 1.

Organic Matter and Fertility Status

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

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

Potential Contaminants

With reference to BS3882:2015 - Table 1: Notes 3 and 4, there is a recommendation 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 home-grown 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 was found at levels that exceeded their guideline values.

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 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*).

From the soil examination and subsequent laboratory analysis, the sample was described as a strongly alkaline, non-saline, very slightly calcareous loamy sand with a single grain structure and low stone content. The sample was well supplied with organic matter and all major plant nutrients. Of the potential contaminants determined, none exceeded their guideline values.

The organic matter level of the sample was found to be moderately high. This may not affect the growth of trees and shrubs; however, it may result in variable settlement across amenity grass areas. As organic matter decomposes, the topsoil volume reduces, leading to an uneven surface which may be undesirable in lawn areas.

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 (low foot-traffic only)), 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 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 a high sand content.

Soil Handling Recommendations

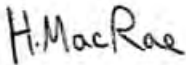
It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, resspreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is reasonably dry and non-plastic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

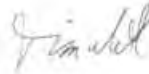
Further details on soil handling are provided in Annex A of BS3882:2015.

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



Harriet MacRae
BSc MSc
Graduate Soil Scientist



Tim White
BSc MSc MSoilSci CSci
Senior Associate

For & on behalf of Tim O'Hare Associates LLP



Client:	Tarmac Topsoil
Project:	Topsoil Analysis - BS3642:2015
Job:	Topsoil Analysis - BS3642:2015
Date:	01/07/2022
Job Ref No:	TOHA/22/7546/BS

Sample Reference		Accreditation
Clay <0.002mm	%	UKAS
Silt <0.002-0.075mm	%	UKAS
Very Fine Sand <0.075-0.15mm	%	UKAS
Fine Sand <0.150-0.25mm	%	UKAS
Medium Sand <0.250-0.5mm	%	UKAS
Coarse Sand <0.50-1.0mm	%	UKAS
Very Coarse Sand <1.0-2.0mm	%	UKAS
Total Sand <0.05-2.0mm	%	UKAS
Texture Class (UK Classification)	---	UKAS
Stones <2-20mm	% DW	GLP
Stones <20-50mm	% DW	GLP
Stones >50mm	% DW	GLP

pH Value (1:2.5 water extract)	units	UKAS
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS
Electrical Conductivity (1:2 CaCl ₂ extract)	uS/cm	UKAS
Exchangeable Sodium Percentage	%	UKAS
Organic Matter (LOI)	%	UKAS
Total Nitrogen (Dumas)	%	UKAS
C : N Ratio	ratio	UKAS
Extractable Phosphorus	mg/L	UKAS
Extractable Potassium	mg/L	UKAS
Extractable Magnesium	mg/L	UKAS

Total Arsenic (As)	mg/kg	MCERTS
Total Cadmium (Cd)	mg/kg	MCERTS
Total Chromium (Cr)	mg/kg	MCERTS
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS
Total Copper (Cu)	mg/kg	MCERTS
Total Lead (Pb)	mg/kg	MCERTS
Total Mercury (Hg)	mg/kg	MCERTS
Total Nickel (Ni)	mg/kg	MCERTS
Total Selenium (Se)	mg/kg	MCERTS
Total Zinc (Zn)	mg/kg	MCERTS
Water Soluble Boron (B)	mg/kg	MCERTS
Total Cyanide (CN)	mg/kg	MCERTS
Total Inorganic Phosphate	mg/kg	MCERTS

Naphthalene	mg/kg	MCERTS
Acenaphthene	mg/kg	MCERTS
Acenaphthylene	mg/kg	MCERTS
Fluorene	mg/kg	MCERTS
Phenanthrene	mg/kg	MCERTS
Anthracene	mg/kg	MCERTS
Fluoranthene	mg/kg	MCERTS
Pyrene	mg/kg	MCERTS
Benzofluoranthene	mg/kg	MCERTS
Chrysene	mg/kg	MCERTS
Benzofluoranthene	mg/kg	MCERTS
Benzofluoranthene	mg/kg	MCERTS
Benzofluoranthene	mg/kg	MCERTS
Indeno 1,2,3-cd pyrene	mg/kg	MCERTS
Dibenzofluoranthene	mg/kg	MCERTS
Benzofluoranthene	mg/kg	MCERTS
Total PAHs (sum USEPA16)	mg/kg	MCERTS

Aliphatic TPH <C5 - C6	mg/kg	MCERTS
Aliphatic TPH <C8 - C8	mg/kg	MCERTS
Aliphatic TPH <C9 - C10	mg/kg	MCERTS
Aliphatic TPH <C10 - C12	mg/kg	MCERTS
Aliphatic TPH <C12 - C16	mg/kg	MCERTS
Aliphatic TPH <C16 - C21	mg/kg	MCERTS
Aliphatic TPH <C21 - C35	mg/kg	MCERTS
Aliphatic TPH <C5 - C35	mg/kg	MCERTS
Aromatic TPH <C9 - C12	mg/kg	MCERTS
Aromatic TPH <C12 - C16	mg/kg	MCERTS
Aromatic TPH <C16 - C21	mg/kg	MCERTS
Aromatic TPH <C21 - C35	mg/kg	MCERTS
Aromatic TPH <C5 - C35	mg/kg	MCERTS

Benzene	mg/kg	MCERTS
Toluene	mg/kg	MCERTS
Ethylbenzene	mg/kg	MCERTS
Xylenes	mg/kg	MCERTS
MIBK (Methyl Tertiary Butyl Ether)	mg/kg	MCERTS

Asbestos	MD/D	ISO 17025
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LS = LOAMY SAND

Visual Examination

The sample was described as a dark brown (Munsell Colour 10YR 5/3), slightly moist, friable, very slightly calcareous LOAMY SAND with a single grain structure. The sample was slightly stony and contained a moderately high proportion of organic fines and occasional woody fragments. No unusual odours, deleterious materials, rocks or shreds of pernicious weeds were observed.

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

The contents of this certificate shall not be reproduced without the express written permission of Tim O'Hare Associates LLP.

Topsoil Topsoil (Crown Farm)

Clay <0.002mm	%	UKAS
Silt <0.002-0.075mm	%	UKAS
Very Fine Sand <0.075-0.15mm	%	UKAS
Fine Sand <0.150-0.25mm	%	UKAS
Medium Sand <0.250-0.5mm	%	UKAS
Coarse Sand <0.50-1.0mm	%	UKAS
Very Coarse Sand <1.0-2.0mm	%	UKAS
Total Sand <0.05-2.0mm	%	UKAS
Texture Class (UK Classification)	---	UKAS
Stones <2-20mm	% DW	GLP
Stones <20-50mm	% DW	GLP
Stones >50mm	% DW	GLP

pH Value (1:2.5 water extract)	units	UKAS
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS
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Exchangeable Sodium Percentage	%	UKAS
Organic Matter (LOI)	%	UKAS
Total Nitrogen (Dumas)	%	UKAS
C : N Ratio	ratio	UKAS
Extractable Phosphorus	mg/L	UKAS
Extractable Potassium	mg/L	UKAS
Extractable Magnesium	mg/L	UKAS

Total Arsenic (As)	mg/kg	MCERTS
Total Cadmium (Cd)	mg/kg	MCERTS
Total Chromium (Cr)	mg/kg	MCERTS
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS
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Total Cyanide (CN)	mg/kg	MCERTS
Total Inorganic Phosphate	mg/kg	MCERTS

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Aliphatic TPH <C8 - C8	mg/kg	MCERTS
Aliphatic TPH <C9 - C10	mg/kg	MCERTS
Aliphatic TPH <C10 - C12	mg/kg	MCERTS
Aliphatic TPH <C12 - C16	mg/kg	MCERTS
Aliphatic TPH <C16 - C21	mg/kg	MCERTS
Aliphatic TPH <C21 - C35	mg/kg	MCERTS
Aliphatic TPH <C5 - C35	mg/kg	MCERTS
Aromatic TPH <C9 - C12	mg/kg	MCERTS
Aromatic TPH <C12 - C16	mg/kg	MCERTS
Aromatic TPH <C16 - C21	mg/kg	MCERTS
Aromatic TPH <C21 - C35	mg/kg	MCERTS
Aromatic TPH <C5 - C35	mg/kg	MCERTS

Benzene	mg/kg	MCERTS
Toluene	mg/kg	MCERTS
Ethylbenzene	mg/kg	MCERTS
Xylenes	mg/kg	MCERTS
MIBK (Methyl Tertiary Butyl Ether)	mg/kg	MCERTS

Asbestos	MD/D	ISO 17025
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H.MacRae

Harriet MacRae
BS: MS
Graduate Soil Scientist



Certificate of Analysis

Originator: SOIL

Lab ID: 35078 - 579898
Sample ID: SB-TOPSOIL
Sample Weight: 836g

Date Received: 21/09/2022
Date Reported: 30/09/2022

BS 3882 : 2015 SPECIFICATION FOR TOPSOIL Multi Purpose Grade

				Compliant with range (Y/N)					
				Multi-P	Acid	Calc	Low-F	Low-F Acid	Low-F Calc
		Unit	Result						
Texture:	Clay	% w/w	11						
	Silt	% w/w	15						
	Sand	% w/w	74						
	Textural Class		Sandy Loam	Y	Y	Y	Y	Y	Y
Organic Matter:		% w/w	3.9	Y	Y	Y	Y	Y	Y
Coarse Fragment Content:	>2 mm	% w/w	0.7	Y	Y	Y	Y	Y	Y
	>20 mm	% w/w	0.0	Y	Y	Y	Y	Y	Y
	>50 mm	% w/w	0.0	Y	Y	Y	Y	Y	Y
Soil pH:			7.7	Y	N	Y	Y	N	Y
Carbonate:		% w/w	<1			N			N
Available Plant Nutrients:	Nitrogen	% w/w	0.184	Y	Y	Y			
	Phosphorus	mg/l	515.0 (1)*	Y	N	N	N	N	N
	Potassium	mg/l	635.6 (5)*	Y	Y	Y			
	Magnesium	mg/l	128.6 (3)*	Y	Y	Y			
Carbon:Nitrogen Ratio:		:1	12.3	Y	Y	Y	Y	Y	Y
Exchangeable Sodium Percentage:		%	9.8						
Phytotoxic Contaminants:	Total Zinc	mg/kg	42.4	Y	Y	Y	Y	Y	Y
	Total Copper	mg/kg	14.0	Y	Y	Y	Y	Y	Y
	Total Nickel	mg/kg	12.0	Y	Y	Y	Y	Y	Y
Visible Contaminants:	> 2mm	% w/w	0.01	Y	Y	Y	Y	Y	Y
	Plastics	% w/w	0.00	Y	Y	Y	Y	Y	Y
	Number of Sharps		0	Y	Y	Y	Y	Y	Y
Additional Analysis:	Available Sodium	mg/l	200.6						
	Available Calcium	mg/l	1073.1						
	Conductivity	uS/cm	2738	Y					
Compliance:				Y	N	N	N	N	N

Results are expressed on a dry matter basis.

* Soil indices from RB209

Released by:

Myles Nicholson

Date: 30/09/2022

DECLARATION:

I certify that this sample has been analysed by NRM in accordance with BS 3882 Specification for Topsoil (2015).

NRM Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
Tel: +44 (0) 1344 886338 Fax: +44 (0) 1344 890972 Email: enquiries@nrm.uk.com www.nrm.uk.com

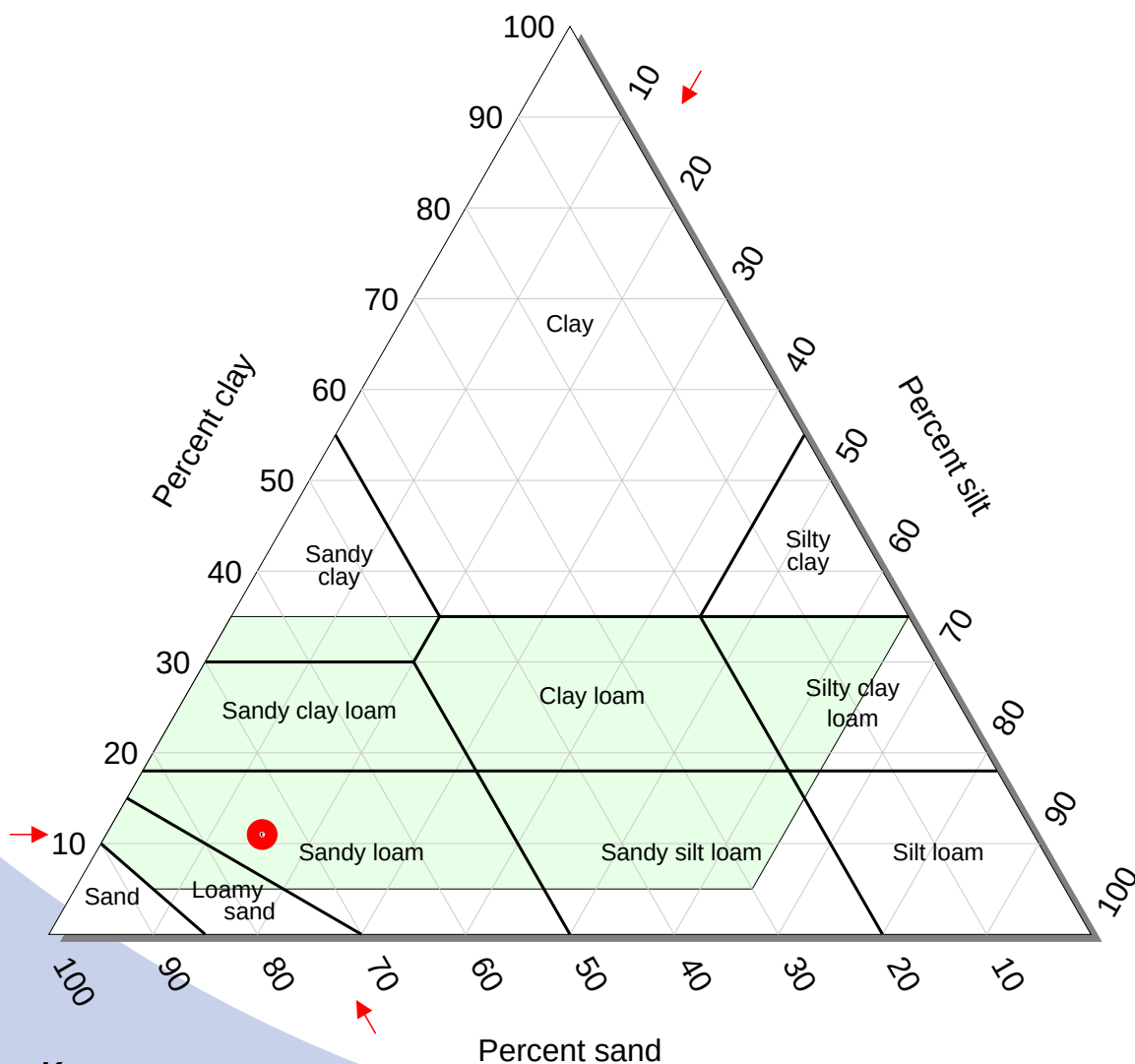


Analytical Report

Lab ID: 35078 - 579898
Sample ID: SB-TOPSOIL
Sample Weight: 836g

Date Received: 21/09/2022
Date Reported: 30/09/2022

Fig. 1. Textural Class: Sandy Loam (compliant)



Key



Area within which texture of topsoil is required to fall.



Certificate of Analysis

Client: STUART BALDWIN
(T283) SED SERVICES LTD
LANDGATE FARM
LANDGATE LANE
BRYN
WIGAN WN4 0EJ

Originator: TOPSOIL
SOIL

Lab ID: 51693 - 603032
Sample ID: TOPSOIL B
Sample Weight: 889g

Date Received: 11/01/2023
Date Reported: 25/01/2023

BS 3882 : 2015 SPECIFICATION FOR TOPSOIL Multipurpose Grade

				Compliant with range (Y/N)					
				Multi-P	Acid	Calc	Low-F	Low-F Acid	Low-F Calc
		Unit	Result						
Texture:	Clay	% w/w	8						
	Silt	% w/w	8						
	Sand	% w/w	84						
	Textural Class		Loamy Sand	Y	Y	Y	Y	Y	Y
Organic Matter:		% w/w	4.5	Y	Y	Y	Y	Y	Y
Coarse Fragment Content:	>2 mm	% w/w	1.6	Y	Y	Y	Y	Y	Y
	>20 mm	% w/w	0.0	Y	Y	Y	Y	Y	Y
	>50 mm	% w/w	0.0	Y	Y	Y	Y	Y	Y
Soil pH:			8.2	Y	N	Y	Y	N	Y
Carbonate:		% w/w	6.2			Y			Y
Available Plant Nutrients:	Nitrogen	% w/w	0.305	Y	Y	Y			
	Phosphorus	mg/l	45.4 (3)*	Y	Y	Y	N	N	N
	Potassium	mg/l	727.1 (5)*	Y	Y	Y			
	Magnesium	mg/l	123.8 (3)*	Y	Y	Y			
Carbon:Nitrogen Ratio:		:1	8.6	Y	Y	Y	Y	Y	Y
Exchangeable Sodium Percentage:		%	6.0						
Phytotoxic Contaminants:	Total Zinc	mg/kg	61.5	Y	Y	Y	Y	Y	Y
	Total Copper	mg/kg	16.7	Y	Y	Y	Y	Y	Y
	Total Nickel	mg/kg	<10	Y	Y	Y	Y	Y	Y
Visible Contaminants:	> 2mm	% w/w	0.03	Y	Y	Y	Y	Y	Y
	Plastics	% w/w	0.00	Y	Y	Y	Y	Y	Y
	Number of Sharps		0	Y	Y	Y	Y	Y	Y
Additional Analysis:	Available Sodium	mg/l	142.0						
	Available Calcium	mg/l	1345.3						
	Conductivity	uS/cm	2899	Y					
Compliance:				Y	N	Y	N	N	N

Results are expressed on a dry matter basis.

* Soil indices from RB209

Released by:

Myles Nicholson

Date: 25/01/2023

DECLARATION:

I certify that this sample has been analysed by NRM in accordance with BS 3882 Specification for Topsoil (2015).

NRM Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
Tel: +44 (0) 1344 886338 **Fax:** +44 (0) 1344 890972 **Email:** enquiries@nrm.uk.com **www:** nrm.uk.com



Analytical Report

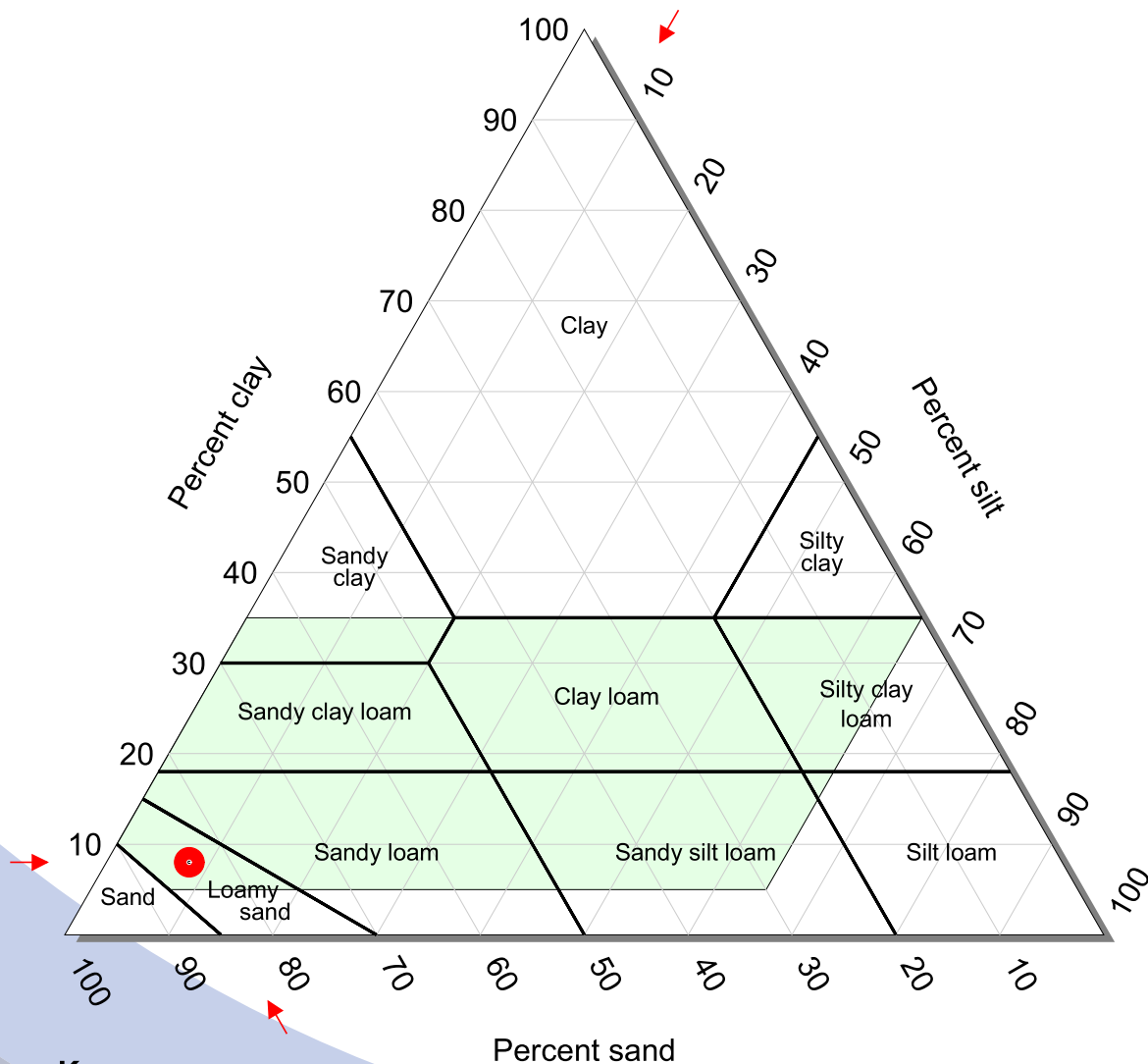
Client: STUART BALDWIN
(T283) SED SERVICES LTD
LANDGATE FARM
LANDGATE LANE
BRYN
WIGAN WN4 0EJ

Originator: TOPSOIL
SOIL

Lab ID: 51693 - 603032
Sample ID: TOPSOIL B
Sample Weight: 889g

Date Received: 11/01/2023
Date Reported: 25/01/2023

Fig. 1. Textural Class: Loamy Sand (compliant)



Key



Area within which texture of topsoil is required to fall.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/09259
Issue Number: 1

Date: 25 September, 2023

Client: Curtins Consulting (Manchester)
Merchant Exchange
17-19 Whitworth Street
Manchester
UK
M1 5WG

Project Manager: Jonathan Lord/Lucy Woods/Rebecca Baksh-Jones
Project Name: Gorton Lane
Project Ref: 067694
Order No: 9485
Date Samples Received: 18/09/23
Date Instructions Received: 19/09/23
Date Analysis Completed: 25/09/23

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 23/09259

Client Project Name: Gorton Lane

Client Project Ref: 067694

Lab Sample ID	23/09259/1	23/09259/2	23/09259/3	23/09259/4	23/09259/5	23/09259/6		Units	Limit of Detection	Method ref
Client Sample No	T.S.	S.S.	T.S.	T.S.	S.S.	T.S.				
Client Sample ID	Plot 104 (back)1	Plot 108 (back)	Plot 105 (front)	Plot 8 (back)	Plots 2+3 (front)	Plot 5 (back)				
Depth to Top	0.10	0.30	0.10	0.00	0.25	0.10				
Depth To Bottom	0.20	0.40	0.20	0.10	0.35	0.15				
Date Sampled	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4A	5A	4AE	4A	4A	4AE				
% Moisture at <40C _A	20.7	10.5	21.0	24.9	11.8	22.6		% w/w	0.1	A-T-044
% Stones >10mm _A	1.0	18.4	<0.1	<0.1	5.1	<0.1		% w/w	0.1	A-T-044
pH _D ^{M#}	7.73	8.32	7.80	8.16	7.92	7.76		pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.12	0.02	0.14	0.08	0.08	<0.01		g/l	0.01	A-T-026s
Cyanide (total) _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Organic Matter _D ^{M#}	5.8	0.3	5.7	9.5	1.2	8.6		% w/w	0.1	A-T-032s
Arsenic _D ^{M#}	4	2	3	2	2	3		mg/kg	1	A-T-024s
Boron (water soluble) _D ^{M#}	1.1	<1.0	1.6	1.5	<1.0	<1.0		mg/kg	1	A-T-027s
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#}	18	6	19	24	7	13		mg/kg	1	A-T-024s
Chromium _D ^{M#}	13	10	10	29	7	10		mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Lead _D ^{M#}	33	4	26	30	9	22		mg/kg	1	A-T-024s
Mercury _D	0.23	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	9	11	6	12	6	8		mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc _D ^{M#}	42	13	51	49	13	31		mg/kg	5	A-T-024s

Envirolab Job Number: 23/09259

Client Project Name: Gorton Lane

Client Project Ref: 067694

Lab Sample ID	23/09259/1	23/09259/2	23/09259/3	23/09259/4	23/09259/5	23/09259/6		Units	Limit of Detection	Method ref
Client Sample No	T.S.	S.S.	T.S.	T.S.	S.S.	T.S.				
Client Sample ID	Plot 104 (back) ¹	Plot 108 (back)	Plot 105 (front)	Plot 8 (back)	Plots 2+3 (front)	Plot 5 (back)				
Depth to Top	0.10	0.30	0.10	0.00	0.25	0.10				
Depth To Bottom	0.20	0.40	0.20	0.10	0.35	0.15				
Date Sampled	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4A	5A	4AE	4A	4A	4AE				
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: 23/09259

Client Project Name: Gorton Lane

Client Project Ref: 067694

Lab Sample ID	23/09259/1	23/09259/2	23/09259/3	23/09259/4	23/09259/5	23/09259/6		Units	Limit of Detection	Method ref
Client Sample No	T.S.	S.S.	T.S.	T.S.	S.S.	T.S.				
Client Sample ID	Plot 104 (back) ¹	Plot 108 (back)	Plot 105 (front)	Plot 8 (back)	Plots 2+3 (front)	Plot 5 (back)				
Depth to Top	0.10	0.30	0.10	0.00	0.25	0.10				
Depth To Bottom	0.20	0.40	0.20	0.10	0.35	0.15				
Date Sampled	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4A	5A	4AE	4A	4A	4AE				
PAH-16MS										
Acenaphthene _A ^{M#}	0.02	<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#}	0.05	<0.02	0.04	0.04	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.36	<0.04	0.25	0.28	<0.04	0.17		mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.45	<0.04	0.32	0.32	<0.04	0.14		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.52	<0.05	0.41	0.41	<0.05	0.21		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.34	<0.05	0.28	0.24	<0.05	0.12		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.22	<0.07	0.16	0.17	<0.07	0.10		mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.42	<0.06	0.32	0.35	<0.06	0.18		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	0.06	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.57	<0.08	0.49	0.48	<0.08	0.21		mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.02	<0.01	0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.41	<0.03	0.34	0.29	<0.03	0.17		mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03 ^U	<0.03 ^U	<0.03 ^U	<0.03 ^U	<0.03 ^U	<0.03 ^U		mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.20	<0.03	0.16	0.13	<0.03	0.08		mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.55	<0.07	0.44	0.43	<0.07	0.18		mg/kg	0.07	A-T-019s
Total PAH-16MS _A	4.19	<0.08	3.23	3.14	<0.08	1.56		mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/09259

Client Project Name: Gorton Lane

Client Project Ref: 067694

Lab Sample ID	23/09259/1	23/09259/2	23/09259/3	23/09259/4	23/09259/5	23/09259/6		Units	Limit of Detection	Method ref
Client Sample No	T.S.	S.S.	T.S.	T.S.	S.S.	T.S.				
Client Sample ID	Plot 104 (back) ¹	Plot 108 (back)	Plot 105 (front)	Plot 8 (back)	Plots 2+3 (front)	Plot 5 (back)				
Depth to Top	0.10	0.30	0.10	0.00	0.25	0.10				
Depth To Bottom	0.20	0.40	0.20	0.10	0.35	0.15				
Date Sampled	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23	15-Sep-23				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4A	5A	4AE	4A	4A	4AE				
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	<0.01	<0.01	<0.01	0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	4	<1	4	5	<1	4		mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	51	<1	38	41	6	43		mg/kg	1	A-T-055s
Total Aliphatics _A	55	<1	42	47	6	47		mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	3	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16 _A ^{M#}	5	<1	3	3	<1	3		mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	27	<1	11	12	1	9		mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	75	2	38	36	5	23		mg/kg	1	A-T-055s
Total Aromatics _A	107	2	54	51	6	35		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	162	3	96	97	13	81		mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s

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 **six 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

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Curtins Consulting (Manchester), Merchant Exchange, 17-19 Whitworth Street , Manchester, UK, M1 5WG	Project No:	23/09259
Project:	Gorton Lane	Date Received:	19/09/2023 (am)
Clients Project No:	067694	Cool Box Temperatures (°C):	15.4

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	23/09259/1	23/09259/2	23/09259/3	23/09259/4	23/09259/5	23/09259/6
Client Sample No	T.S.	S.S.	T.S.	T.S.	S.S.	T.S.
Client Sample ID/Depth	Plot 104 (back)1 0.10-0.20m	Plot 108 (back) 0.30-0.40m	Plot 105 (front) 0.10-0.20m	Plot 8 (back) 0.00-0.10m	Plots 2+3 (front) 0.25-0.35m	Plot 5 (back) 0.10-0.15m
Date Sampled	15/09/23	15/09/23	15/09/23	15/09/23	15/09/23	15/09/23
A-T-019s	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
A-T-022s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
A-T-024s	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
A-T-026s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
A-T-027s	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
A-T-031s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
A-T-032s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
A-T-040s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
A-T-042sTCN	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
A-T-044	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
A-T-045	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
A-T-050s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
A-T-055s	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calc-As Recd	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023

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: 23/11412
Issue Number: 1

Date: 27 November, 2023

Client: Curtins Consulting (Manchester)
Merchant Exchange
17-19 Whitworth Street
Manchester
UK
M1 5WG

Project Manager: Jonathan Lord/Lucy Woods/Russell Taylor
Project Name: Gorton Lane, Manchester
Project Ref: 067694
Order No: 10971
Date Samples Received: 17/11/23
Date Instructions Received: 20/11/23
Date Analysis Completed: 27/11/23

Approved by:



Sophie France
Client Manager

Envirolab Job Number: 23/11412

Client Project Name: Gorton Lane, Manchester

Client Project Ref: 067694

Lab Sample ID	23/11412/1	23/11412/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HP29	HP32								
Depth to Top	0.30	0.30								
Depth To Bottom	0.40	0.40								
Date Sampled	16-Nov-23	16-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3A	1A								
% Moisture at <40C _A	13.6	16.1						% w/w	0.1	A-T-044
% Stones >10mm _A	<0.1	<0.1						% w/w	0.1	A-T-044
pH _D ^{M#}	8.42	8.60						pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.01						g/l	0.01	A-T-026s
Cyanide (total) _A ^{M#}	<1	<1						mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Organic Matter _D ^{M#}	0.2	0.1						% w/w	0.1	A-T-032s
Arsenic _D ^{M#}	1	1						mg/kg	1	A-T-024s
Boron (water soluble) _D ^{M#}	<1.0	<1.0						mg/kg	1	A-T-027s
Cadmium _D ^{M#}	<0.5	<0.5						mg/kg	0.5	A-T-024s
Copper _D ^{M#}	10	5						mg/kg	1	A-T-024s
Chromium _D ^{M#}	17	8						mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1						mg/kg	1	A-T-040s
Lead _D ^{M#}	3	2						mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17						mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	15	7						mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1						mg/kg	1	A-T-024s
Zinc _D ^{M#}	23	11						mg/kg	5	A-T-024s

Envirolab Job Number: 23/11412

Client Project Name: Gorton Lane, Manchester

Client Project Ref: 067694

Lab Sample ID	23/11412/1	23/11412/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HP29	HP32								
Depth to Top	0.30	0.30								
Depth To Bottom	0.40	0.40								
Date Sampled	16-Nov-23	16-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3A	1A								
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	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								A-T-045

Envirolab Job Number: 23/11412

Client Project Name: Gorton Lane, Manchester

Client Project Ref: 067694

Lab Sample ID	23/11412/1	23/11412/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HP29	HP32								
Depth to Top	0.30	0.30								
Depth To Bottom	0.40	0.40								
Date Sampled	16-Nov-23	16-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3A	1A								
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01						mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01						mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02						mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04						mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04						mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05						mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05						mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07						mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06						mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04						mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08						mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01						mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03						mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03						mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03						mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07						mg/kg	0.07	A-T-019s
Total PAH-16MS _A	<0.08	<0.08						mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/11412

Client Project Name: Gorton Lane, Manchester

Client Project Ref: 067694

Lab Sample ID	23/11412/1	23/11412/2								
Client Sample No										
Client Sample ID	HP29	HP32								
Depth to Top	0.30	0.30								
Depth To Bottom	0.40	0.40								
Date Sampled	16-Nov-23	16-Nov-23								
Sample Type	SOIL - ES	SOIL - ES								
Sample Matrix Code	3A	1A								
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01						mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	<0.01	<0.01						mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1						mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1						mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1						mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1						mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	<1	<1						mg/kg	1	A-T-055s
Total Aliphatics _A	<1	<1						mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1						mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1						mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1						mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	<1						mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	<1						mg/kg	1	A-T-055s
Total Aromatics _A	<1	<1						mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	<1	<1						mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s

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 **six 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

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Curtins Consulting (Manchester), Merchant Exchange, 17-19 Whitworth Street , Manchester, UK, M1 5WG	Project No:	23/11412
Project:	Gorton Lane, Manchester	Date Received:	20/11/2023 (am)
Clients Project No:	067694	Cool Box Temperatures (°C):	12.9

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	23/11412/1	23/11412/2
Client Sample No		
Client Sample ID/Depth	HP29 0.30-0.40m	HP32 0.30-0.40m
Date Sampled	16/11/23	16/11/23
A-T-019s	22/11/2023	22/11/2023
A-T-022s	22/11/2023	22/11/2023
A-T-024s	24/11/2023	24/11/2023
A-T-026s	23/11/2023	23/11/2023
A-T-027s	27/11/2023	27/11/2023
A-T-031s	23/11/2023	23/11/2023
A-T-032s	23/11/2023	23/11/2023
A-T-040s	23/11/2023	23/11/2023
A-T-042sTCN	22/11/2023	22/11/2023
A-T-044	23/11/2023	23/11/2023
A-T-045	21/11/2023	21/11/2023
A-T-050s	23/11/2023	23/11/2023
A-T-055s	22/11/2023	22/11/2023
Calc-As Recd	22/11/2023	22/11/2023

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

Appendix D – Generic Assessment Criteria

Adopted Soil Generic Assessment Criteria
Sandy loam with 6% SOM



Contaminants	Residential <u>with</u> home grown produce	Residential <u>without</u> home grown produce	Allotments	Commercial	Public open space near residential housing POS _{resi}	Public park POS _{park}
Metals						
Beryllium	1.7	1.7	35	12	2.2	63
Boron	290	11,000	45	240,000	21,000	46,000
Cadmium	10 ⁽¹³⁾ <u>22</u>	85 ⁽¹³⁾ <u>150</u>	1.8 <u>3.9</u>	230 <u>410</u>	120 <u>220</u>	560 <u>880</u>
Chromium III	910	910	18,000	8,600	1,500	33,000
Chromium VI	6 <u>21</u>	6 <u>21</u>	1.8 <u>170</u>	33 <u>49</u>	7.7 <u>21</u>	220 <u>250</u>
Lead	<u>200</u>	<u>310</u>	<u>80</u>	<u>2,300</u>	<u>630</u>	<u>1,300</u>
Mercury (<i>elemental</i>)	1	1	26	26	16	26 ⁽⁸⁾ [30]
Mercury (<i>inorganic</i>)	170	240	80	3600	120	240
Nickel	130 ⁽¹⁰⁾	180 ⁽¹⁰⁾	53 ⁽¹¹⁾	980 ⁽¹⁰⁾	230	800
Vanadium	410	1200	91	9000	2000	5000
Copper	2400	7100	520	68000	12000	44000
Zinc	3700	40000	620	730000	81000	170000
Semi-Metals and non-metals						
Arsenic	32 ⁽¹²⁾ <u>37</u>	35 ⁽¹²⁾ <u>40</u>	43 ⁽¹²⁾ <u>49</u>	640 ⁽¹²⁾ <u>640</u>	79 <u>79</u>	170 <u>170</u>
Antimony		550		7500	1500	3300
Selenium	350	600	120	13000	1100	1800
Inorganic chemicals						
Cyanide	34	34	34	34	34	34
Organic contaminants						
Aliphatic risk banded hydrocarbons - TPHCWG method						
EC ₅₋₅ - EC ₆	160	160	3900	12000	600000	180000
EC ₅₋₆ - EC ₈	530	530	13000	40000	620000	320000
EC ₅₋₈ - EC ₁₀	150	150	1700	11000	13000	21000
EC ₁₀₋₁₀ - EC ₁₂	760	770	7300	47000	13000	24000
EC ₁₂₋₁₂ - EC ₁₆	4300	4400	13000	90000	13000	26000
EC ₅₋₁₆ - EC ₃₅	110000	110000	270000	1800000	250000	490000
EC ₃₅₋₃₅ - EC ₄₄	110000	110000	270000	1800000	250000	490000
Aromatic risk banded hydrocarbons - TPHCWG method						
EC ₅₋₅ - EC ₇	300	1400	57	86000	56000	92000
EC ₅₋₇ - EC ₈	660	3900	120	180000	56000	100000
EC ₅₋₈ - EC ₁₀	190	270	51	17000	5000	9300
EC ₁₀₋₁₀ - EC ₁₂	380	1200	74	34000	5000	10000
EC ₁₂₋₁₂ - EC ₁₆	660	2500	130	38000	5000	10000
EC ₅₋₁₆ - EC ₂₁	930	1900	260	28000	3800	7800
EC ₂₁₋₂₁ - EC ₃₅	1700	1900	1600	28000	3800	7900
EC ₃₅₋₃₅ - EC ₄₄	1700	1900	1600	28000	3800	7900
Aliph + Arom EC >44-70	1900	1900	3000	28000	3800	7900
Aromatic						
Benzene	0.33 <u>0.87</u>	1.0 <u>3.3</u>	0.07 <u>0.18</u>	95 <u>98</u>	73 <u>140</u>	110 <u>230</u>
Ethyl benzene	350	840	90	2800 ⁽⁸⁾ [66000]	2800 ⁽⁸⁾ [25000]	2800 ⁽⁸⁾ [27000]
Toluene	610	2700	120	4400 ⁽⁸⁾ [190000]	4400 ⁽⁸⁾ [56000]	4400 ⁽⁸⁾ [100000]
Xylene ⁽⁹⁾	230	290	160	2600 ⁽⁸⁾ [32000]	2600 ⁽⁸⁾ [43000]	2600 ⁽⁸⁾ [31000]
Phenol	420	520	280	3200 ⁽¹⁴⁾ (38000)	3200 ⁽¹⁴⁾ (10000)	3200 ⁽¹⁴⁾ (9300)
Polycyclic Aromatic Hydrocarbons (PAH)						
Naphthalene	13	13	24	1100	4900	3000
Acenaphthylene	920	6000	160	100000	15000	30000
Acenaphthene	1100	6000	200	100000	15000	30000
Fluorene	860	4500	160	71000	9900	20000
Phenanthrene	440	1500	90	23000	3100	6300
Anthracene	11000	37000	2200	540000	74000	150000
Fluoranthene	890	1600	290	23000	3100	6400
Pyrene	2000	3800	620	54000	7400	15000
Benz(a)anthracene	13	15	13	180	29	62
Chrysene	27	32	19	350	57	120
Benzo(b)fluoranthene	3.7	4.0	3.9	45	7.2	16.0
Benzo(k)fluoranthene	100	110	130	1200	190	440
Benzo(a)pyrene	3.0 <u>5.0</u>	3.2 <u>5.3</u>	3.5 <u>5.7</u>	36 <u>77</u>	5.7 <u>10</u>	13 <u>21</u>
Indeno(123cd)pyrene	41	46	39	510	82	180
Dibenzo(ah)anthracene	0.3	0.32	0.43	3.6	0.58	1.4
Benzo(ghi)perylene	350	360	640	4000	640	1600
Chlorinated Aliphatic Hydrocarbons						
Vinyl chloride	0.0014	0.0015	0.0018	0.12	3.5	5.4
Trichloroethene (TCE)	0.075	0.08	0.21	5.7	120	120
1,1,1,2 Tetrachlorethane	6.4	8.2	4.4	560	1400	2100
Tetrachlorethane (PCE)	0.90	0.92	3.6	95	1400	1500
1,1,1 Trichlorethane	39	40	240	3000	140000	100000

Notes

- All values above are in mg/kg
- Numbers in bold are SGVs or GAC that are derived based on SGV report input parameters, numbers in italics are SAULs, numbers in bold-italics are based on EIC/AGS/CL:AIRE numbers & input parameters and underlined numbers are C4SLs
- Soil organic matter (SOM) is assumed to be 6% - DEFAULT VALUE
- Soil type is assumed to be sandy loam - DEFAULT SOIL TYPE
- For residential, the building type is conservatively assumed to be a small terrace house where the development includes bungalows change to more conservative bungalow setting in computer model
- For commercial, the building type is conservatively assumed to be a pre 1970s office building, where the proposed development comprises houses, flat with living spaces changes setting in model accordingly
- For classrooms consider increasing the dust loading factor in the 'Soil and Building Data' of the CLEA 1.04 model from 50 to 100µg m⁻³
- Based on vapour saturation limit as suggested by EA / [] model value
- Lowest of o-, m- and p-xylene
- Based on comparison of inhalation exposure with inhalation TDI
- Based on comparison of oral, dermal, and inhalation exposure with the oral TDI
- Based on a comparison of oral and dermal soil exposure with oral Index Dose only
- Averaged over and based on lifetime exposure
- Based on critical concentration for skin irritation in humans arising from contact with phenol in aqueous solution (number in brackets based on health effects following long term exposure for illustration)
- NA: Not applicable

Adopted Soil Generic Assessment Criteria
Sandy loam with 2.5% SOM



Contaminants	Residential <u>with</u> home grown produce	Residential <u>without</u> home grown produce	Allotments	Commercial	Public open space near residential housing POS _{resi}	Public park POS _{park}
Metals						
Beryllium	1.7	1.7	35	12	2.2	63
Boron	290	11,000	45	240,000	21,000	46,000
Cadmium	10⁽¹³⁾ 22	85⁽¹³⁾ 150	1.8 3.9	230 410	120 220	560 880
Chromium III	910	910	18,000	8,600	1,500	33,000
Chromium VI	6 21	6 21	1.8 170	33 49	7.7 21	220 250
Lead	200	310	80	2,300	630	1,300
Mercury (<i>elemental</i>)	1	1	26	26	16	26⁽⁸⁾ [30]
Mercury (<i>inorganic</i>)	170	240	80	3600	120	240
Nickel	130⁽¹⁰⁾	180⁽¹⁰⁾	53⁽¹¹⁾	980⁽¹⁰⁾	230	800
Vanadium	410	1200	91	9000	2000	5000
Copper	2400	7100	520	68000	12000	44000
Zinc	3700	40000	620	730000	81000	170000
Semi-Metals and non-metals						
Arsenic	32⁽¹²⁾ 37	35⁽¹²⁾ 40	43⁽¹²⁾ 49	640⁽¹²⁾ 640	79 79	170 170
Antimony		550		7500	1500	3300
Selenium	350	600	120	13000	1100	1800
Inorganic chemicals						
Cyanide	34	34	34	34	34	34
Organic contaminants						
Aliphatic risk banded hydrocarbons - TPHCWG method						
EC ₅ - EC ₆	78	78	1700	5900	590000	130000
EC ₆ - EC ₈	230	230	5600	17000	610000	220000
EC ₈ - EC ₁₀	65	65	770	4800	13000	18000
EC ₁₀ - EC ₁₂	330	330	4400	23000	13000	23000
EC ₁₂ - EC ₁₆	2400	2400	13000	82000	13000	25000
EC ₁₆ - EC ₃₅	92000	92000	270000	1700000	250000	480000
EC ₃₅ - EC ₄₄	92000	92000	270000	1700000	250000	480000
Aromatic risk banded hydrocarbons - TPHCWG method						
EC ₅ - EC ₇	140	690	27	46000	56000	84000
EC ₇ - EC ₈	290	1800	51	110000	56000	95000
EC ₈ - EC ₁₀	83	110	21	8100	5000	8500
EC ₁₀ - EC ₁₂	180	590	31	28000	5000	9700
EC ₁₂ - EC ₁₆	330	2300	57	37000	5100	10000
EC ₁₆ - EC ₂₁	540	1900	110	28000	3800	7700
EC ₂₁ - EC ₃₅	1500	1900	820	28000	3800	7800
EC ₃₅ - EC ₄₄	1500	1900	820	28000	3800	7800
Aliph + Arom EC >44-70	1800	1900	2100	28000	3800	7800
Aromatic						
Benzene	0.16	0.49	0.035	50	72	100
Ethyl benzene	150	380	39	1200⁽⁸⁾ [35000]	1200⁽⁸⁾ [24000]	1200⁽⁸⁾ [22000]
Toluene	270	1300	51	1900⁽⁸⁾ [110000]	1900⁽⁸⁾ [56000]	1900⁽⁸⁾ [95000]
Xylene ⁽⁹⁾	98	120	70	1200⁽⁸⁾ [14000]	1200⁽⁸⁾ [42000]	1200⁽⁸⁾ [23000]
Phenol	290	420	140	1500⁽¹⁴⁾ (35000)	1500⁽¹⁴⁾ (10000)	1500⁽¹⁴⁾ (8300)
Polycyclic Aromatic Hydrocarbons (PAH)						
Naphthalene	5.6	5.6	10	460	4900	1900
Acenaphthylene	420	4600	69	97000	15000	30000
Acenaphthene	510	4700	85	97000	15000	30000
Fluorene	400	3800	67	68000	9900	20000
Phenanthrene	220	1500	38	22000	3100	6200
Anthracene	5400	35000	950	540000	74000	150000
Fluoranthene	560	1600	130	23000	3100	6300
Pyrene	1200	3800	270	54000	7400	15000
Benz(a)anthracene	11	14	6.5	170	29	56
Chrysene	22	31	9.4	350	57	110
Benzo(b)fluoranthene	3.3	4.0	2.1	44	7.2	15
Benzo(k)fluoranthene	93	110	75	1200	190	410
Benzo(a)pyrene	2.7	3.2	2	35	5.7	12
Indeno(123cd)pyrene	36	46	21	510	82	170
Dibenzo(ah)anthracene	0.28	0.32	0.27	3.6	0.57	1.3
Benzo(ghi)perylene	340	360	470	4000	640	1500
Chlorinated Aliphatic Hydrocarbons						
Vinyl chloride	0.00087	0.001	0.001	0.077	3.5	5
Trichloroethene (TCE)	0.034	0.036	0.091	2.6	120	91
1,1,1,2 Tetrachlorethane	2.8	3.5	1.9	250	1400	1800
Tetrachlorethane (PCE)	0.39	0.4	1.5	42	1400	1100
1,1,1 Trichlorethane	18	18	110	1300	140000	76000

Notes

- All values above are in mg/kg
- Numbers in bold are SGVs or GAC that are derived based on SGV report input parameters, numbers in *italics* are S4ULs, numbers in *bold-italics* are based on EIC/AGS/CL:AIRE numbers & input parameters and underlined numbers are C4SLs
- Soil organic matter (SOM) is assumed to be 2.5% - DEFAULT VALUE
- Soil type is assumed to be sandy loam - DEFAULT SOIL TYPE
- For residential, the building type is conservatively assumed to be a small terrace house where the development includes bungalows change to more conservative bungalow setting in computer model
- For commercial, the building type is conservatively assumed to be a pre 1970s office building, where the proposed development comprises houses, flat with living spaces changes setting in model accordingly
- For classrooms consider increasing the dust loading factor in the 'Soil and Building Data' of the CLEA 1.04 model from 50 to 100µg m⁻³
- Based on vapour saturation limit as suggested by EA / [] model value
- Lowest of o-, m- and p-xylene
- Based on comparison of inhalation exposure with inhalation TDI
- Based on comparison of oral, dermal, and inhalation exposure with the oral TDI
- Based on a comparison of oral and dermal soil exposure with oral Index Dose only
- Averaged over and based on lifetime exposure
- Based on critical concentration for skin irritation in humans arising from contact with phenol in aqueous solution (number in brackets based on health effects following long term exposure for illustration)
- NA: Not applicable

Adopted Soil Generic Assessment Criteria
Sandy loam with 1% SOM



Contaminants	Residential <u>with</u> home grown produce	Residential <u>without</u> home grown produce	Allotments	Commercial	Public open space near residential housing POS _{resi}	Public park POS _{park}
Metals						
Beryllium	1.7	1.7	35	12	2.2	63
Boron	290	11,000	45	240,000	21,000	46,000
Cadmium	10⁽¹³⁾ 22	85⁽¹³⁾ 150	1.8 3.9	230 410	120 220	560 880
Chromium III	910	910	18,000	8,600	1,500	33,000
Chromium VI	6 21	6 21	1.8 170	33 49	7.7 21	220 250
Lead	200	310	80	2,300	630	1,300
Mercury (<i>elemental</i>)	1	1	26	26	16	26⁽⁸⁾ [30]
Mercury (<i>inorganic</i>)	170	240	80	3600	120	240
Nickel	130⁽¹⁰⁾	180⁽¹⁰⁾	53⁽¹¹⁾	980⁽¹⁰⁾	230	800
Vanadium	410	1200	91	9000	2000	5000
Copper	2400	7100	520	68000	12000	44000
Zinc	3700	40000	620	730000	81000	170000
Semi-Metals and non-metals						
Arsenic	32⁽¹²⁾ 37	35⁽¹²⁾ 40	43⁽¹²⁾ 49	640⁽¹²⁾ 640	79 79	170 170
Antimony		550		7500	1500	3300
Selenium	350	600	120	13000	1100	1800
Inorganic chemicals						
Cyanide	34	34	34	34	34	34
Organic contaminants						
Aliphatic risk banded hydrocarbons - TPHCWG method						
EC ₅ - EC ₆	42	42	730	3200	570000	95000
EC ₆ - EC ₈	100	100	2300	7800	600000	150000
EC ₈ - EC ₁₀	27	27	320	2000	13000	14000
EC ₁₀ - EC ₁₂	130	130	2200	9700	13000	21000
EC ₁₂ - EC ₁₆	1100	1100	11000	59000	13000	25000
EC ₁₆ - EC ₃₅	65000	65000	260000	1600000	250000	450000
EC ₃₅ - EC ₄₄	65000	65000	260000	1600000	250000	450000
Aromatic risk banded hydrocarbons - TPHCWG method						
EC ₅ - EC ₇	70	370	13	26000	56000	76000
EC ₇ - EC ₈	130	860	22	56000	56000	87000
EC ₈ - EC ₁₀	34	47	8.6	3500	5000	7200
EC ₁₀ - EC ₁₂	74	250	13	16000	5000	9200
EC ₁₂ - EC ₁₆	140	1800	23	36000	5100	10000
EC ₁₆ - EC ₂₁	260	1900	46	28000	3800	7600
EC ₂₁ - EC ₃₅	1100	1900	370	28000	3800	7800
EC ₃₅ - EC ₄₄	1100	1900	370	28000	3800	7800
Aliph + Arom EC >44-70	1600	1900	1200	28000	3800	7800
Aromatic						
Benzene	0.08	0.3	0.017	28	72	90
Ethyl benzene	65	170	16	520⁽⁸⁾ [17000]	520⁽⁸⁾ [24000]	520⁽⁸⁾ [17000]
Toluene	120	610	22	860⁽⁸⁾ [59000]	860⁽⁸⁾ [56000]	860⁽⁸⁾ [87000]
Xylene ⁽⁹⁾	41	53	28	480⁽⁸⁾ [69000]	480⁽⁸⁾ [41000]	480⁽⁸⁾ [17000]
Phenol	180	310	66	760⁽¹⁴⁾ (31000)	760⁽¹⁴⁾ (10000)	760⁽¹⁴⁾ (7600)
Polycyclic Aromatic Hydrocarbons (PAH)						
Naphthalene	2.3	2.3	4.1	190	4900	1200
Acenaphthylene	170	2900	28	83000	15000	29000
Acenaphthene	210	3000	34	84000	15000	29000
Fluorene	170	2800	27	63000	9900	20000
Phenanthrene	95	1300	15	22000	3100	6200
Anthracene	2400	31000	380	520000	74000	150000
Fluoranthene	280	1500	52	23000	3100	6300
Pyrene	620	3700	110	54000	7400	15000
Benz(a)anthracene	7.2	11	2.9	170	29	49
Chrysene	15	30	4.1	350	57	93
Benzo(b)fluoranthene	2.6	3.9	0.99	44	7.1	13
Benzo(k)fluoranthene	77	110	37	1200	190	370
Benzo(a)pyrene	2.2	3.2	0.97	35	5.7	11
Indeno(123cd)pyrene	27	45	9.5	500	82	150
Dibenzo(ah)anthracene	0.24	0.31	0.14	3.5	0.57	1.1
Benzo(ghi)perylene	320	360	290	3900	640	1400
Chlorinated Aliphatic Hydrocarbons						
Vinyl chloride	0.00064	0.00077	0.00055	0.059	3.5	4.8
Trichloroethene (TCE)	0.016	0.017	0.041	1.2	120	70
1,1,1,2 Tetrachlorethane	1.2	1.5	0.79	110	1400	1500
Tetrachlorethane (PCE)	0.18	0.18	0.65	19	1400	810
1,1,1 Trichlorethane	8.8	9	48	660	140000	57000

Notes

- All values above are in mg/kg
- Numbers in bold are SGVs or GAC that are derived based on SGV report input parameters, numbers in italics are SAULs, numbers in bold-italics are based on EIC/AGS/CL:AIRE numbers & input parameters and underlined numbers are C4SLs
- Soil organic matter (SOM) is assumed to be 1% - DEFAULT VALUE
- Soil type is assumed to be sandy loam - DEFAULT SOIL TYPE
- For residential, the building type is conservatively assumed to be a small terrace house where the development includes bungalows change to more conservative bungalow setting in computer model
- For commercial, the building type is conservatively assumed to be a pre 1970s office building, where the proposed development comprises houses, flat with living spaces changes setting in model accordingly
- For classrooms consider increasing the dust loading factor in the 'Soil and Building Data' of the CLEA 1.04 model from 50 to 100µg m⁻³
- Based on vapour saturation limit as suggested by EA / [] model value
- Lowest of o-, m- and p-xylene
- Based on comparison of inhalation exposure with inhalation TDI
- Based on comparison of oral, dermal, and inhalation exposure with the oral TDI
- Based on a comparison of oral and dermal soil exposure with oral Index Dose only
- Averaged over and based on lifetime exposure
- Based on critical concentration for skin irritation in humans arising from contact with phenol in aqueous solution (number in brackets based on health effects following long term exposure for illustration)
- NA: Not applicable

Appendix E – Geotextile Specification

FASTRACK Orange

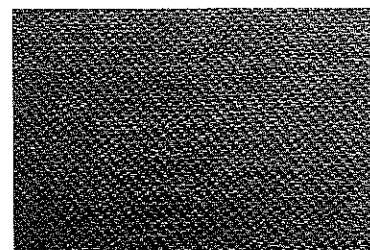
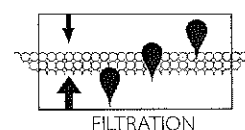
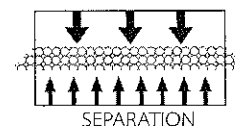
Standard Grade (SG) woven geotextile

Based on our popular 609 geotextile, FASTRACK Orange prevents the intermixing of contaminated and uncontaminated soils and its bright colour also alerts users and future users to the potential danger of further excavation. It is designed and manufactured to conform to the old Department of Transport & Highways specification for road and earthworks separation.

Applications for FASTRACK Orange:

- Highly visible 'Warning layer'
- Separating/Strengthening - layer under access roads and areas of hard standing
- Separation - layers under stone foundations for new buildings
- Separation - layers under new roads, car parks & industrial areas
- Separation - granular fill from sub soils and other fill types

Mechanical properties	Test	Units	FASTRACK Orange
Tensile strength - MD	EN ISO 10319	kN/m	16
Tensile strength - XD	EN ISO 10319	kN/m	11.5
Elongation at break - MD	EN ISO 10319	%	18.5
Elongation at break - XD	EN ISO 10319	%	18.5
CBR puncture resistance	EN ISO 12236	N	1500
Hydraulic properties			
Water flow normal to the plane	EN ISO 11058	l/m ² /s	17
Characteristic opening (pore) size	EN ISO 12956	µm	250
Physical properties			
Thickness under 2 kPa	EN ISO 9863-1	mm	0.4
Weight	EN ISO 9864	g/m ²	75
Roll width		cm	450
Roll length		m	100



1. Wrekin Products Ltd reserves the right to alter product specifications without prior notice.
2. It is the responsibility of all users to satisfy themselves that the above data is current.
3. The above figures are average values obtained in testing to current EN geotextiles test standards. Although not guaranteed these results do, to the best of our knowledge, offer a true and accurate record of the product's performance.
4. Polypropylene is the constituent polymer used in the production of Fastrack Orange.
5. Wrekin cannot be held responsible for the performance of these products as conditions of use are beyond our control.
6. Installation details are available on request.

Other grades of geotextiles within the Wrekin range include:
High Flow and High Strength woven fabrics and Thermal-bonded & Needle Punched non-wovens.

Appendix F – E-mail Correspondence

RE: [External] Gorton Lane - Garden Plot Validation

robert.lynch@equans.com <robert.lynch@equans.com>

Thu 16/11/23 12:22

To: Jonathan Lord <Jonathan.Lord@curtins.com>; Lucy Woods <Lucy.Woods@curtins.com>

Cc: oliver.bennison@equans.com <oliver.bennison@equans.com>; kenzo.iluobe@equans.com <kenzo.iluobe@equans.com>; rachel.eatson@equans.com <rachel.eatson@equans.com>; lee.jones@equans.com <lee.jones@equans.com>; Jordan.SLATTERY@equans.com <Jordan.SLATTERY@equans.com>; Russell Taylor <Russell.Taylor@curtins.com>; Niall Farnworth <Niall.Farnworth@curtins.com>

Good Afternoon Jonathan

Just to clarify the following;

‘Whilst the ground works were being carried out that there was no further contamination was found during the works’.

Can you please confirm what further/outstanding information you require for Remediation/Validation?

1st soil validation visit was carried to site 2 today.
Final visit booked for 23/11/23.

Kind Regards

Rob

**ROB LYNCH MCIOB**

Operations Manager

Places and Communities

UK & IRELAND

M 07583 097 722

THE Lighthouse, Salford Quays
Salford.M50 3BF

www.equans.co.uk

Please consider the environment before printing this message

From: Jonathan Lord <Jonathan.Lord@curtins.com>

Sent: Friday, November 10, 2023 9:53 AM

To: LYNCH Robert (EQUANS UK) <robert.lynch@equans.com>; Lucy Woods <Lucy.Woods@curtins.com>

Cc: BENNISON Oliver (EQUANS UK) <oliver.bennison@equans.com>; ILUOBE Kenzo (EQUANS UK) <kenzo.iluobe@equans.com>; EATSON Rachel (EQUANS UK) <rachel.eatson@equans.com>; JONES Lee (EQUANS UK) <lee.jones@equans.com>; SLATTERY Jordan (EQUANS UK) <Jordan.SLATTERY@equans.com>; Russell Taylor <Russell.Taylor@curtins.com>; Niall Farnworth <Niall.Farnworth@curtins.com>

Subject: RE: [External] Gorton Lane - Garden Plot Validation

RE: [External] Gorton Lane - Garden Plot Validation

robert.lynch@equans.com <robert.lynch@equans.com>

Thu 23/11/23 11:40

To:Jonathan Lord <Jonathan.Lord@curtins.com>;Lucy Woods <Lucy.Woods@curtins.com>

Cc:oliver.bennison@equans.com <oliver.bennison@equans.com>;lee.jones@equans.com <lee.jones@equans.com>

 2 attachments (1 MB)

Asbestos Management Process.pdf; Asbestos Management Plan.docx;

Good Morning Jonathan

Further to previous emails and correspondence with regards Asbestos Management etc.

- Besides asbestos that was noted in the SI report, and remediated accordingly(evidence provided previously),no further or additional asbestos was discovered during the ground works and piling works.
- I have attached for your information a copy of our generic Asbestos Management Process and Asbestos Management Plan which would utilised should any additional asbestos be discovered during the works.
- All Equans Site Management receive regular Asbestos Awareness training as part of Company policy and procedure, this is to ensure that they recognise asbestos if discovered and what to actions to be taken if this is the case.
- On this site, due to asbestos being noted in the SI report-the Site Management team also received specific Asbestos in soils training.
- All operatives who attended site during the Groundworks phase, were also made aware as part of the induction process that there was potential asbestos on site and what they must do should they discover asbestos or suspected asbestos(i.e. Stop work immediately, cordon off the area and report to their site supervisor who would then notify Equans Management -who would then implement asbestos management process and plan -in conjunction with in house SHEQ team.
- Groundworkers supervisor and staff also receive asbestos awareness training to ensure that they know what to do in the event of discovering asbestos(as noted above).

I hope that this is sufficient for you to close out this item, please advise if you require further.

Kind Regards

Rob



ROB LYNCH MCIOB

Operations Manager

Places and Communities

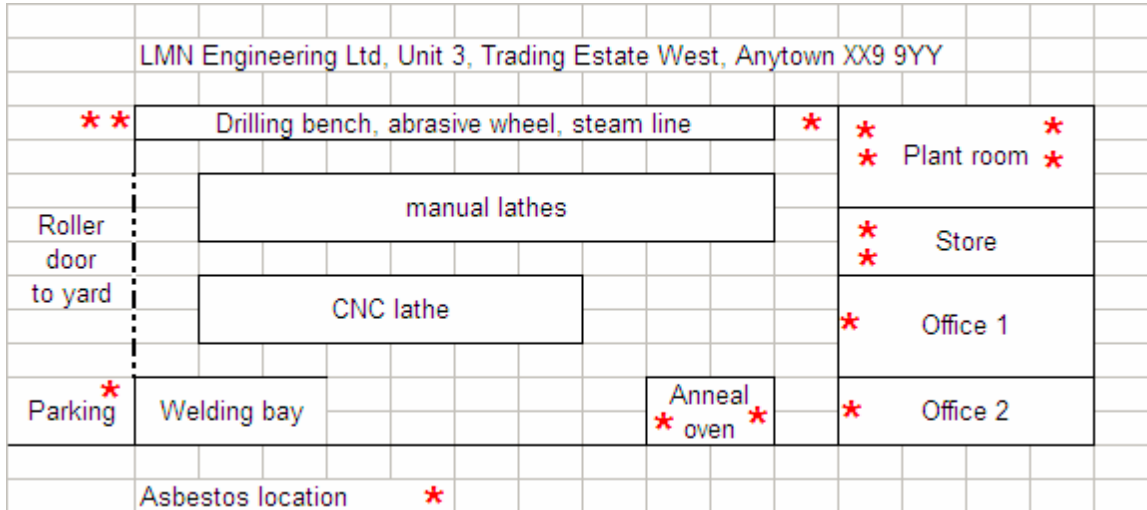
From: Jonathan Lord <Jonathan.Lord@curtins.com>

Sent: Thursday, October 26, 2023 11:02 AM

Appendix G – Documentation

Asbestos Management Plan

Site Plan



These areas contain or may contain asbestos.

- Roof
- Downpipes
- Van brakes
- Plant Room – boiler, flue, steam pipe insulation, electric switch-box
- Work Room – steam pipe insulation, oven insulation, heat-proof gloves
- Store – floor tiles, ceiling tiles
- Office 1 – fire door
- Office 2 – board screwed to fire door

Asbestos Management Plan

Asbestos Register

Insert Asbestos Register here

Asbestos Management Plan

Asbestos Action Plan

Where	Product	Action	By When	By Whom

Responsible Person		Date		Monitoring Date	
--------------------	--	------	--	-----------------	--

Asbestos Management Plan

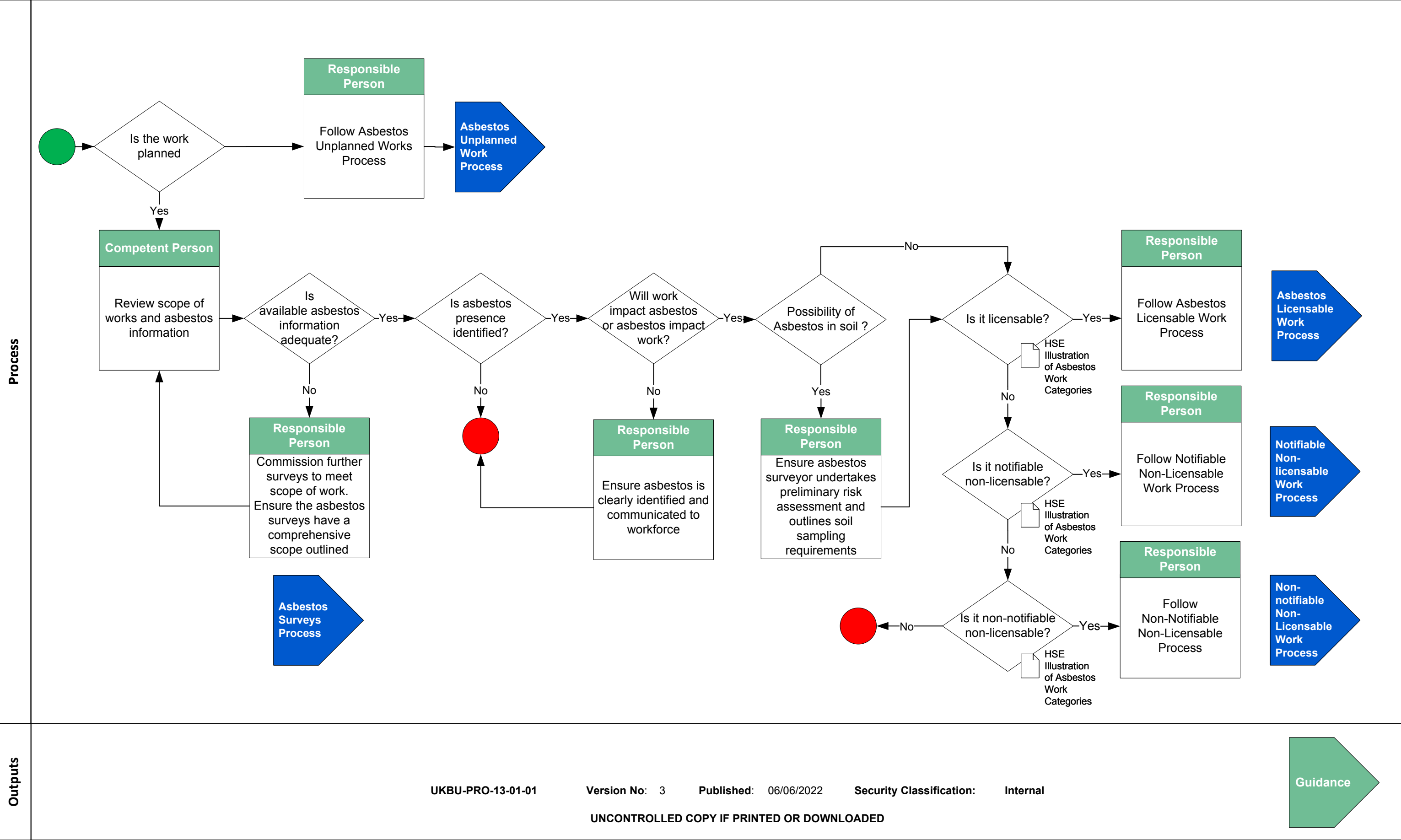
Communication Plan

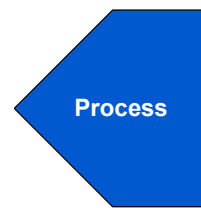
- 1 Stickers
- 2 Staff
- 3 Maintenance
- 4 Contractors
- 5 Others

All Asbestos works must be undertaken by an asbestos competent contractor.
Under no circumstances should this work be carried out by EQUANS employees as we are not insured for this type of work.



Asbestos Management Process





Asbestos Management Process Guidance

No	Process Step	Guidance Notes	Who	Deliverables
1	Review scope and asbestos information.	- Review if built or refurbished before 2000 – assume asbestos present - Review Asbestos Register - Review Asbestos Survey – management or R&D or archetype (10% minimum) is permitted where there has been samples taken. - If post 2000 we just need a statement in the H&S file to confirm this.	Responsible Person	
2	Is available asbestos information adequate ?	Where available information is inadequate commission further surveys to meet the scope of works. Ensure the scope of the asbestos survey is clearly outlined to the asbestos surveyor. Ensure it is agreed with the Client who is responsible for payment of surveys.	Responsible Person	
3	Will asbestos impact on works or work impact on asbestos ?	- If no : ensure asbestos is clearly identified and communicated to the workforce. - If yes : follow yes arrow.	Responsible Person	
4	Possibility of asbestos in soil ?	Ensure asbestos surveyor undertakes preliminary risk assessment and outlines soil sampling requirements and asbestos risks and appropriate control measures.	Responsible Person	
5	Follow Asbestos Licensable Work Process.	- Where there is known potential of asbestos exposure refer to the Asbestos Licensable Work Process. - For example Loose or damaged Asbestos Insulation Board	Responsible Person	
6	Follow Notifiable Non-Licensable Work Process.	- Ensure that Notifiable Non-Licensable Work Process is followed. - For example short duration works on Asbestos Insulation Board	Responsible Person	
7	Follow Non-notifiable Non-licensable Work Process.	- Ensure that the Non-notifiable Non-licensable Work Asbestos Process is followed. - For example maintenance works, low fibre release, good condition asbestos cement	Responsible Person	

RISK ASSESSMENT

Workplace	[LOCATION]				Assessment Number	X 2617		
Task / Activity	Contaminated land							
Date Conducted:	04.01.21			Review by Date:	On commencement		Date Reviewed	
Assessment Team	M.Mcstravik -Kellys Groundworks Contracts Manager -Risk Assessment for hazardous/contaminated ground							
1 Hazard (something with the potential to cause harm, how will it be realised and what is the potential injury?)	2 At Risk	Risk			6 Control Measures	Risk		
		3 Severity	4 Probability	5 Risk		7 Severity	8 Probability	9 Risk
Unknown contaminant, Unsafe access/Egress and Inadequate hygiene facilities, major/minor illness or fatality	A	5	3	15	- Contamination report - Must have safe access and egress for plant - Adequate hygiene facilities must be provided			
Untrained operatives, Inadequate PPE, mobile plane and waste disposal. Serious injuries or illness	A	4	3	12	- Trained and competent operatives - Banksman for plant reversing - Waste disposal notes in place - Licensed tip used - Correct PPE provided and worn			
Disposal of waste Waste contaminating land	A	5	3	15	- Waste must be disposed of in bins/skips whilst on site - Waste is to be segregated before being placed into skips on site - The skips must be taken to a licenced waste disposal site by a licenced contractor - Any waste taken back to our depot must be done so by a licenced carrier - Any waste taken back to our depot must be then disposed of responsibly - When transferring waste consignment notices must be collected and kept on file - Any employees found fly-tipping will be reported to the police	5	1	5
Purchase of materials Causing unnecessary pollution	A	5	3	15	- Materials must always be purchased from suppliers who can prove that their products are environmentally friendly - Suppliers must be chosen with regard to their environmental credentials - Suppliers must inform us of any changes in their recycling policy	5	1	5
Further Actions	(Further control measures that could be implemented to improve safety)						Action by who & date	

At Risk (column 2)	Severity (column 3 and 7)	Probability (column 4 and 8)	Risk Rating (column 5 and 9)		
E - Employees	1 No Injury, property damage	1 Very Unlikely	Severity X Probability = 1 to 5	Low	Y – acceptable risk, work can start
C - Contractors	2 Minor Injury	2 Unlikely			
V - Visitors	3 +7 Day Absence	3 Likely	Severity X Probability = 6 to 14	Med	Y or N – may need further consideration
P - Public	4 Specified Injury	4 Very Likely			
A - All	5 Death	5 Virtually Certain	Severity X Probability = 15 to 25	High	N – Unacceptable risk Do not start work

RISK ASSESSMENT

Workplace	[LOCATION]	Assessment Number	X 2617
Task / Activity	Contaminated land		
Additional Comments	(Actions identified by personnel on site to make the task safer)		
Authorised by The Responsible Manager	Name: D.Summers Signature: Position:Project Manager		Dated:

At Risk (column 2)	Severity (column 3 and 7)	Probability (column 4 and 8)	Risk Rating (column 5 and 9)		
E - Employees	1 No Injury, property damage	1 Very Unlikely	Severity X Probability = 1 to 5	Low	Y – acceptable risk, work can start
C - Contractors	2 Minor Injury	2 Unlikely	Severity X Probability = 6 to 14	Med	Y or N – may need further consideration
V - Visitors	3 +7 Day Absence	3 Likely			
P - Public	4 Specified Injury	4 Very Likely	Severity X Probability = 15 to 25	High	N – Unacceptable risk Do not start work
A - All	5 Death	5 Virtually Certain			



FNW1369832

Supplied by : Bolton C&L

Tel: 01204 862222

A Trading Brand of Huws Gray Limited

ADVANCE/DELIVERY NOTE

COPY

Invoice To:
KELLY CONTRACTING LIMITED
Alvanley Industrial Estate
Stockport Road East
Bredbury
STOCKPORT
SK6 2DJ
Phone: 0161 406 6228

Deliver To:
KELLY CONTRACTING LIMITED
Gorton Lane
Gorton
Manchester
Lee 07818595731
M12 5HD
Mobile: 0161 406 6228

Order No : FNW/369832/ 2
Page : 1
Doc Date : 15/06/2023 10:18
Deliver On : 16/06/2023
Driver :
Vehicle Reg :
Type Of Sale: Credit Delivered
Customer Acc: OLL0063/ 0

Oper Customer Ref 1/2
TH12 293/AM

Special Message/Comment

ORDERED	PRODUCT NO	DESCRIPTION	THIS DELIVERY	BALANCE TO FOLLOW
25	2310042	ACO RAINRAIN & GALV STEEL GRATING A15 1.M 47000	25	0
6	2394502	MATRIX UU SPEC BOUNDARY BOX 25MM E8951	6	0
12	2394062	PROTECTA-LINE 25MM X 3/4IN M/I END CONN 44151608	12	0
1	2340257	POLYGUARD 25MM END CAP PGP40925	1	0
2	3410146	PROSOLAE PETRO TAPE 75MMX10M	2	0
2	P027179	POLYGUARD PIPE 25MM X 50M COIL PGP2550	2	0

Goods Received By

Printed:

Signed:

IT IS THE CUSTOMER'S RESPONSIBILITY TO OBTAIN ANY PERMITS
AND SUPPLY ANY RELEVANT EQUIPMENT REQUIRED TO ENABLE
MATERIALS TO BE LEFT ON THE HIGHWAY. TERMS AND CONDITIONS
AVAILABLE AT WWW.HUWSGRAY.CO.UK/TERMSANDCONDITIONS

Head Office, Llangeini Industrial Estate, Llangeini, Anglesey, LL777JH. Reg in England No. 2506633. VAT Reg No. GB 713607454

OFFICE COPY



FNW1370142

Supplied by : Bolton C&L
A Trading Brand of Huws Gray Limited

Tel: 01204 862222

ADVICE/DELIVERY NOTE

Invoice To:
KELLY CONTRACTING LIMITED
Alvanley Industrial Estate
Stockport Road East
Bredbury
STOCKPORT
SK6 2DJ
Phone: 0161 406 6228

Deliver To:
KELLY CONTRACTING LIMITED
Gorton Lane
Gorton
Manchester
Lee 07818595731
M12 5HD
Mobile: 0161 406 6228

Order No : FNW/370142/ 1
Page : 1
Doc Date : 20/06/2023 14:39
Deliver On : 21/06/2023
Driver :
Vehicle Reg :
Type Of Sale: Credit Delivered
Customer Acc: OLL0063/ 0

Special Message/Comment

Oper Customer Ref 1 2
TH12 293 AM

THIS DELIVERY BALANCE TO FOLLOW

ORDERED PRODUCT NO DESCRIPTION

6 4906229 TELE BARRIER M.BOX 1/4T MATRIX LID 3/4 MBS1100FC

6

0

Goods Received By

Printed:

Frederic Brown

Signed:

IT IS THE CUSTOMER'S RESPONSIBILITY TO OBTAIN ANY PERMITS
AND SUPPLY ANY RELEVANT EQUIPMENT REQUIRED TO ENABLE
MATERIALS TO BE LEFT ON THE HIGHWAY. TERMS AND CONDITIONS
AVAILABLE AT WWW.HUMSGRAY.CO.UK/TERMSANDCONDITIONS

Head Office, Alvanley Industrial Estate, Alvanley, Anglesey, LL779JA. Reg in England No. 2506611. VAT Reg No. GB 713607454

OFFICE COPY

CERTIFICATE OF COMPLIANCE

White copy: Customer

Blue copy: Water Company

Green copy: retain for records

NEW SUPPLY

Yes ☒

No ☐

Internal ☒

External ☒

Water Company

Application/Reference Number:

Member's

Name:

ANDREW MITCHELL

Membership

No:

CW 6253

Company

Name:

KELLY CONTRACTING LTD

Membership

Expiry Date:

03/07/23

Telephone

Number:

07973 164 397

Email

address:

AWM@KELLYCONTRACTING.CO.UK

Address where work carried out (please include plot numbers where applicable):

EQUANS - SITE 2 - GORTON LANE W12 5AD

Plot No:

Plot No:

Plot No:

Plot No:

Plot No:

Plot No:

104

109

Name and address of the person who commissioned the work (the customer):

EQUANS NEWCASTLE UPON TYNE NE12 8BU

Telephone

Number:

07989 214 733

Email

address:

JORDAN.SLATTERY@EQUANS.CO.UK

Please give a brief description of the work completed and its location within the premises:

NEW 25mm BARRIER PIPE LAID FROM UNDER KITCHEN SINK TO EXTERNAL APLAS BOX THEN TO REAR OF FOOT PATH (INSULATED UNDER FLOOR 750mm COVER TO PIPE)

I confirm that the work carried out complies with the Water Supply (Water Fittings) Regulations 1999, Water Supply (Water Fittings) (Scotland) Byelaws 2014 or Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.

Signed:

Date:

26/6/23

Print:

A MITCHELL

Certificate No:

P 360154

CERTIFICATE OF COMPLIANCE

White copy: Customer

Blue copy: Water Company

Green copy: retain for records

NEW SUPPLY

Yes



No



Internal



External



Water Company

Application/Reference Number:

Member's

Name:

ANDREW MITCHELL

Membership

No:

CL 6253

Company

Name:

KELLY CONTRACTING LTD

Membership

Expiry Date:

31/7/24

Telephone

Number:

07973 164 397

Email

address:

ANDREW@KELLYCONTRACTING-

CO.UK

Address where work carried out (please include plot numbers where applicable):

EQUANS SITE 2 POLSWORTH CLOSE GORTON
M12 5HD

Plot No:

Plot No:

Plot No:

Plot No:

Plot No:

Plot No:

105	106	107	108		
-----	-----	-----	-----	--	--

Name and address of the person who commissioned the work (the customer):

EQUANS NEWCASTLE UPON TYNE NE12 8BU

Telephone

Number:

07989 214 733

Email

address:

JORDAN@EQUANS

.COM

Please give a brief description of the work completed and its location within the premises:

NBLD 25mm BARRIER PIPE Laid FROM UNDER SINK TO EXTERNAL APLAS BOX THEN TO REAR OF FOOTPATH (INSULATED UNDER FLOOR) 750mm COVER.

I confirm that the work carried out complies with the Water Supply (Water Fittings) Regulations 1999, Water Supply (Water Fittings) (Scotland) Byelaws 2014 or Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.

Signed:



Date:

7/8/23.

Print:

A MITCHELL

Certificate No:

P 360157

CERTIFICATE OF
COMPLIANCE

White copy: Customer

Blue copy: Water Company

Green copy: retain for records

NEW SUPPLY Yes ☒ No ☐Internal ☒ External ☒

Water Company

Application/Reference Number:

Member's
Name:

ANDREW MITCHELL

Membership
No:

GW 6283

Company
Name:

KELLY CONTRACTING LTD

Membership
Expiry Date:

03/07/23

Telephone
Number:

07973 164 397

Email
address:

ANDREW@KELLYCONTRACTING.CO.UK

Address where work carried out (please include plot numbers where applicable):

EQUANS - SITE 1 - GORTON LANE M12 5DF

Plot No:

7

Plot No:

8

Plot No:

9

Plot No:

10

Plot No:

11

Plot No:

12

Name and address of the person who commissioned the work (the customer):

EQUANS NEWCASTLE UPON TYNE NE12 8BU

Telephone
Number:

07989 214 733

Email
address:

GORTON.SLATTERY@EQUANS.COM

Please give a brief description of the work completed and its location within the premises:

NEW 25mm BARRIER PIPE LAID FROM UNDER KITCHEN
SINK TO EXTERNAL APPLS BOX THEN TO REAR OF
FOOTPATH - INSULATED UNDER FLOOR.
750mm COVER TO PIPES.

I confirm that the work carried out complies with the Water Supply (Water Fittings) Regulations 1999, Water Supply (Water Fittings) (Scotland) Byelaws 2014 or Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.

Signed:

A MITCHELL

Date:

5/6/23

Print:

A MITCHELL

Certificate No:

P 360153

CERTIFICATE OF
COMPLIANCE

White copy: Customer

Blue copy: Water Company

Green copy: retain for records

NEW SUPPLY Yes ☒ No ☐Internal ☒ External ☒

Water Company

Application/Reference Number:

Member's
Name:

ANDREW MITCHELL

Membership
No:

6283 GW

Company
Name:

KELLY CONTRACTING LTD

Membership
Expiry Date:

03/07/23

Telephone
Number:

07973 164 397

Email
address:

ANDREW@KELLYCONTRACTING.CO.UK

Address where work carried out (please include plot numbers where applicable):

EQUANS - SITE 1 GORTON LANE M12 5DF

Plot No:

1

Plot No:

2

Plot No:

3

Plot No:

4

Plot No:

5

Plot No:

6

Name and address of the person who commissioned the work (the customer):

EQUANS NEWCASTLE UPON TYNE NE12 8BU

Telephone
Number:

07989 214 733

Email
address:

GORTON.SLATTERY@EQUANS.COM

Please give a brief description of the work completed and its location within the premises:

NEW 25mm BARRIER PIPE LAID FROM UNDER KITCHEN
SINK TO EXTERNAL APPLS BOX THEN TO REAR OF
FOOTPATH ON GORTON LANE. INSULATED UNDER FLOOR
750mm COVER TO PIPES.

I confirm that the work carried out complies with the Water Supply (Water Fittings) Regulations 1999, Water Supply (Water Fittings) (Scotland) Byelaws 2014 or Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.

Signed:

A MITCHELL

Date:

5/6/23

Print:

A MITCHELL

Certificate No:

P 360152

Appendix H –Waste Consignment Tickets



SITE TRANSACTION TICKET CONTROLLED WASTE TRANSFER NOTE

OUR ORDER NO : WML0N88148
CUSTOMER ORDER NO :

Veolia ES (UK) Ltd
210 Pentonville Road
London, N1 9JY
Tel: 020 7812 5000 Fax: 020 7812 5001

Consumer confirms that the waste hierarchy has been applied.
Whitemoss Landfill Site, White Moss Road South, , WMO 9TH, 01695 559948
DP3639LM

VAT Registration No: GB 530 0088 93

Ticket No.

SIC Code : 43.12

MRMML 27352

Con. No.

First Weight

1:0047046

29.300 t

Con. No.

Second Weight

1:0047051

13.600 t

Cust Ref:

Net Weight

Cust Account No.

15.700 t

Material: Soil - Haz

A tallyroll copy of this transaction is available for inspection for six months.

EMC Code: 170505

EMC Description: HQZ construction materials containing asbestos

Driver's Name (Block Capitals) and Signature

Sean Davenport

Load Date : 09/04/2021 11:26

Checked by: BRIAN MCDONIGLE

Customer : W. Maher & Sons Ltd.

Vehicle : MK21BXZ

Address : W. Maher & Sons Ltd.

: Soapstone Way

: Off Fairhills Road

: Ir11a

: Manchester

: M44 6RA

Carrier : W. Maher & Sons Ltd.

Kelly Contracting Ltd

Gorton Lane

Manchester

M12 5MF

CBDU90617

Weighted By: DAVE ROUTLEDGE

Changed By: DAVE ROUTLEDGE

Weightbridge Operator's Name and Signature

DAVE ROUTLEDGE

Dave Routledge

Maher

CN 221823

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer:

Asphalt

Date: *9/12/21*

Loaded at:

Grange L

Delivered to:

Warrington West Street

Driver:

James

Vehicle Reg: *WV12 123*

Tick

☒ 1 x 8 wh. load: Off Site

Material

Asphalt

Tick

☐ 1 x 8 wh. load: Delivered

Material

Asphalt

Daywork / Sitework	Hours Worked	Travel Time	Total Hours

Foreman or Agent's
Signature

James

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAHOD/16 V.06 04/19

Maher

W. Maher & Sons Ltd.
Civil Engineering Contractors

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T : 0161 776 2200 F: 0161 848 7357

E : enquiries@wmaherandsons.com

W : www.wmaherandsons.com

Waste Transfer Note

SECTION A - DESCRIPTION OF WASTE (To be completed by Holder/Producer of the waste)

EWC Code (Tick one box only)

☐	17:01:01	Concrete	☒	17:05:04	Naturally occurring sub-soil and crushed stone
☐	17:01:02	Bricks	☐	17:09:04	Mixed construction and demolition waste
☐	17:01:07	Concrete, brick and tile	☐		Other: Insert EWC and describe below

How is the waste Contained

8 Wheel Tipper ☒

Acid < 0.001%

SECTION B - HOLDER / PRODUCER OF THE WASTE

SIC

Holder / Producer: _____

Location/address of the Collection Point: _____

Declaration (by Holder)

I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011.

Name: _____

Signature: _____

SECTION C - PERSON COLLECTING THE WASTE (CARRIER)

SIC

4

9

4

1

0

Carrier: W Maher & Sons Ltd

Carrier Address: Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

Carrier Registration No.: CBDU90617

Expiry Date: 25/03/2022

Issued by: Environment Agency

Date of Transfer: 25-3-22 (for multiple consignments state duration, max 12 months)

Name: M. Forshaw

Signature: _____

SECTION D - DISPOSAL / RECOVERY FACILITY (Indicate facility used)

Facility Operator: Churchill Enviro Ltd

Facility Address: ☒ Fletcher Bank, Ramsbottom, BL0 0HD

☐ Hutchbank, Haslingden, BB4 4PB

Facility Permit No.: EPR/GP3733 FE

EPR/BB 3702 HL

Date of Transfer: 25-3-23 (for multiple consignments, state duration, max 12 months)

Name: M. Malone

Signature: _____

IF WASTE IS SENT DIRECTLY TO LANDFILL SITE IN ENGLAND OR WALES THE FOLLOWING DECLARATION MUST BE SIGNED (BY CARRIER)

I/We confirm that the waste delivered by the above named company has been treated as highlighted below.

The material has gone through a physical, thermal, chemical or biological process including: sorting characteristics of the waste have been changed/volume has been reduced/ hazardous nature has been reduced/handling has been facilitated/recovery has been enhanced. (Delete as required)

Name: _____

Signature: _____

DISTRIBUTION:

WHITE-HOLDER

YELLOW-OFFICE

BLUE-FACILITY OPERATOR

THIS DOCUMENT MUST BE RETAINED UNTIL 2 YEARS AFTER LAST TRANSFER DATE SHOWN IN SECTION D



SITE 2



SITE TRANSACTION TICKET CONTROLLED WASTE TRANSFER NOTE

Veolia ES (UK) Ltd
210 Pentonville Road
London, N1 9JY
Tel: 020 7812 5000 Fax: 020 7812 5001

OUR ORDER NO : WMLDN88148
CUSTOMER ORDER NO :

Consignor confirms that the waste hierarchy has been applied.
Whitewoss Landfill Site, White Moss Road South, , WNB 9TH. 01635 559948

093639LM

WAT Registration No: GB 530 0088 93		Ticket No.		SIC Code : 43.12		Load Date : 09/04/2021 11:26		Checked by: BRIAN WOSNIGLE	
Con. No.		Date	Time	First Weight		Customer : M. Maher & Sons Ltd.		Vehicle : M21BX2	
I:0047046		09/04/2021	11:26	29.300 t		Address : M. Maher & Sons Ltd.		Kelly Contracting Ltd	
Con. No.		Date	Time	Second Weight		: Soapstone Way		Gorton Lane	
I:0047051		09/04/2021	11:38	13.600 t		: Off Fairhills Road		Manchester	
Cust Ref:				Net Weight		: M44 6RA		M12 SWF	
Cust Account No. 0237MM				15.700 t		Carrier : M. Maher & Sons Ltd.		CR0190617	
Material: Soil - Haz									
A tallyroll copy of this transaction is available for inspection for six months.									
EMC Code:		170605		Weighed By: DAVE ROUTLEDGE		Changed By: DAVE ROUTLEDGE			
EMC Description: HAZ construction materials containing asbestos				Weightbridge Operator's Name and Signature					
Driver's Name (Block Capitals) and Signature				DAVE ROUTLEDGE					
Sean Davenport									

VS343 3074



Maher**CN 221823**W. MAHER & SONS LTD.
Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**

Customer: <i>Ashted</i>		Date: <i>27/12/1</i>	
Loaded at: <i>Croft</i>			
Delivered to: <i>Leith Hill West Street</i>			
Driver: <i>Tomas</i>		Veh. Reg. <i>WY12 JBN</i>	
Tick ☒ 1 x 8 wh. load: Off Site	Material <i>Waste</i>		
Tick ☐ 1 x 8 wh. load: Delivered	Material		
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature <i>Tomas</i>			

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.
All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE Form MAH/QD718 V.08 04/19