

CCG-C-21-12647

**PHASE IV VALIDATION / COMPLETION REPORT
FOR LAND OFF TRENCHARD DRIVE
WOODHOUSE PARK
MANCHESTER
M22 5NA
MARCH 2022**

Prepared for:

KEY WORKER HOMES LIMITED

Via

REID JONES PARTNERSHIP

9 Orrell Road
Wigan
Lancs

Telephone: 01942 216 006

By:

CC GEOTECHNICAL LIMITED

Unit 1

Deltic Way

Knowsley Industrial Estate
L33 7BA

Telephone: 0151 545 2750

Facsimile: 0151 548 7892

DOCUMENT CONTROL FORM	
Client:	Key Worker Homes Limited
Project Title:	Phase IV Validation Report for Land at Trenchard Drive, Woodhouse Park, Manchester, M22 5NA
Reference Number:	CCG-C-21-12647
Main Author:	Anthony Gerrard BSc (Hons) MSc FGS
Signature:	
Reviewed by:	Chris Bolan MSc CEng MICE CEnv
Signature:	
Approved for Issue by:	Chris Bolan MSc CEng MICE CEnv
Signature	
For and behalf of CC GEOTECHNICAL LTD	
Date:	March 2022
Revision Number:	
Comments:	
Status:	
Distribution:	Key Worker Homes Limited
Standard Terms and Conditions of Engagement Notes on Limitations for Consultancy Services This document has been prepared by <i>CC GEOTECHNICAL LTD</i> within the terms of the contract, scope of work, and resources agreed in writing or verbally with the client. The limitations of liability of <i>CC GEOTECHNICAL LTD</i> for the contents of this document have been agreed with the Client, as set out in the terms and conditions of offer and related contract documentation. This document is intended for the sole use of the client indicated above and <i>CC GEOTECHNICAL LTD</i> accepts no responsibility of whatever nature to third parties to whom this document or any part of this document is made known. Any such party relies upon that information at their own risk. Some of the factual data contained in this report may have been obtained from third parties and will have been relied upon unless indicated to be inaccurate by contradictory information. Where such information might impact upon stated opinions, <i>CC GEOTECHNICAL LTD</i> reserves the right to modify such opinions expressed herein. The findings and opinions provided in this document are made in good faith and are subject to the limitations imposed by employing site assessment methods and techniques, appropriate to the nature of the investigation and within the limitations and constraints defined in this document. The findings and opinions are relevant to the dates when the assessment was undertaken but should not necessarily be relied upon to represent conditions at a substantially later date. It should be noted that this report remains the intellectual property of <i>CC GEOTECHNICAL LTD</i> until such time as the agreed fees for the preparation of the report have been paid in full, and no party may rely on the content of the report in any connection, until such time as the agreed fees have been paid.	

TABLE OF CONTENTS

1.0	Introduction	1
1.1	Background	
1.2	Objectives	
2.0	Imported Soil	
2.1	Construction of Cover Systems	
2.2	Validation of Imported Materials	2
3.0	Conclusions	

APPENDIX A:	DRAWINGS
APPENDIX B:	PHOTOGRAPHIC EVIDENCE
APPENDIX C:	SOIL CONTAMINATION ANALYSES OF IMPORTED TOPSOIL
APPENDIX D:	ASSESSMENT OF CONTAMINATION DATA FOR IMPORTED TOPSOIL

1.0 INTRODUCTION

1.1 Background

CC GEOTECHNICAL LIMITED (CCG) is providing consultancy services to **KEY WORKER HOMES LIMITED** (the *Client*) via **REID JONES PARTNERSHIP** (the *Engineer*) in connection with the recent redevelopment of land off Trenchard Drive, Woodhouse Park, Manchester, M22 5NA.

The site is currently being redeveloped by the construction of 15nr 2-storey dwellings comprising 6nr pairs of semi-detached dwelling, and 3nr detached dwellings, each constructed of traditional brick elevations under pitched roofing materials, together with associated newly created hard paved access road, off road car parking facilities front and rear private gardens.

The layout of the development is as shown on **IDP Architects** Drawing No. 2000-P-01-Rev' 4 contained herein

The development falls within the administrative jurisdiction of **MANCHESTER CITY COUNCIL** administered under Planning Application Reference No. 106943/FO/2014/S2.

A Phase II Geoenvironmental Report dated January 2019 was prepared by **REC** for the study site and reported under Report Reference No. No. 103580p1rO.

The above referenced Phase II Geoenvironmental Report confirmed the presence of elevated concentrations of:

- Lead contaminants in 3nr samples analysed

On the basis of the above, a potential human health risk was indicated. Exposure risk associated with these contaminants arises *via* the dermal and ingestion pathways and as such some post construction remedial works are required in new gardens / areas of soft landscaping to mitigate these risks.

Given the localised presence of elevated concentrations of Lead, a Phase III Remediation Strategy Report was prepared by **CCG** under Report Reference No. CCG-C-20-11894, dated October 2020. This report recommended that site levels within newly created gardens at Plots 1-5, and 12-15 should be reduced to 600mm below finished garden level, or to the surface of undisturbed natural drift deposits, whichever is the lesser, with the remaining plots (6-11) being reduced by 300mm, with site levels being reconstructed to finished garden level by the placement of clean imported sub-soil / topsoil, placed under a strict validation regime comprising 1nr analyses per 50m³ with a minimum of 4nr analyses per source material.

Test suite and compliance thresholds for imported clean topsoil / granular fill are presented on the enclosed series of tables 'Cover System – Validation Analysis Test Suite and Threshold Assessment Criteria, Imported materials.

A gas monitoring programme confirmed a gas screening value (GSV) of 0.0084l/hrs for CO₂. Using these GSV's, the risk to the proposed development when assessed in line with Situation A as defined in CIRIA C665, and on this basis the site complies with Characteristic Situation 1. Under this classification gas protection measures are not required.

As part of the hierarchy of documentation required to discharge planning conditions, a completion report was required to formally validate the implementation of the specified protective measures.

CCG was instructed by the *Client* to validate that element of the remediation strategy which relates to garden reconstruction based on a sampling regime comprising 1nr analyses per 50m³.

1.2 Objectives

The primary objective of a validation report is to compile records which demonstrate compliance with the recommendations provided in the relevant Remediation Strategy, in relation to the planning conditions. This report includes records of the following:

- Photographic evidence of placement of clean imported topsoil within garden areas and thickness compliance
- Delivery notes for off-site soils
- Delivery notes for imported topsoil
- Chemical analyses of imported sub-soil / topsoil

- Assessment of chemical analysis data for imported sub-soil / topsoil

2.0 IMPORTED SOILS

2.1 Construction of Cover System

The reconstruction of site levels by the placement of clean imported soils to finished garden level was undertaken by the *Client*. with 300mm > 600mm being placed within newly created garden areas.

With regards front garden reconstruction, and given that post development front garden areas are generally less sensitive (*i.e.* generally not utilised for home grown food produce *etc.*), front garden areas were reduced by 300mm appose to 600mm with garden areas being reconstructed by the placement of 300mm clean imported topsoil to aid the establishment of scrub / versicular and/or ornamental planting.

Photographs showing excavation depths and the placement of clean cover are presented in Appendix B.

2.2 Validation of Imported Materials

To validate the chemical status of the imported materials, **CCG** undertook *in-situ* sampling at the site. Samples (8nr) were placed in sealed polyethylene tubs and cooled glass amber jars and stored in chilled boxes for transportation to a **UKAS/MCERTS** accredited laboratory for contamination testing at a frequency of 1nr analyses per 50m³.

The scope of chemical analyses required to validate the imported soils and sign-off the relevant plots for comprised a broad-spectrum soil suite including metals, non-metals, speciated PAH's and TPHCWG, BTEX contaminants, and asbestos screening.

Risk assessment of the chemical test results for all topsoil tested found that concentrations of all contaminants were below their respective 'Residential with plant uptake' guideline threshold values, and therefore are suitable for the protection of human health.

The results of the imported soil analyses are presented in Appendix's D and E.

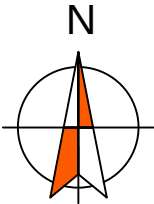
3.0 CONCLUSION

It is the professional opinion of **CCG** that the works have been carried out in conformity with the specified remedial requirements.

APPENDIX A: DRAWINGS

© this drawing and the building works depicted are the copyright of idp and r not be reproduced or amended except by written permission. no liability will accepted for amendments made by other persons.

all dimensions to be checked on site and architect notified of any discrepancies prior to commencement.
do not scale.



- KEY
- Existing trees
 - Site Boundary
 - Indicative landscaping
 - 2.4m high screen wall to match with facing brickwork on houses
 - 2.4m high close boarded fence
 - area to be demolished

rev4	20/01/15	The removal of two plots	NH	NI
rev3	04/12/14	As of planners comments	NH	NI
rev 2	26/11/14	As of planners comments	NH	NI
rev 1	10/07/2014	Planning Issue	SN	MB
rev:	date:	comment(s):	name:	check:



ARCHITECTS.
URBAN DESIGNERS.
PLANNERS.
PROJECT MANAGERS.
WE ARE IDP.

status: PLANNING ISSUE

client: IEM Developments

job: Trenchard Drive, Manchester

title: Proposed Site Plan

drawn: MBu date: September 2014 scale @ a3: 1:500

job no: 2000 drg no: P-01 Rev 4

12 Hilton Street / Manchester / M1 1JF
t: (0161) 233 7958 f: (0)24 7652 0424
e-mail: info@idpgroup.com web: www. weareidp.com



KEY:



The client must not amend any drawing, design or other intellectual property produced by REC Ltd, without permission in writing from REC Ltd in advance of any amendments being made. In the event that such written permission is not obtained in advance of the amendments being made, REC Ltd shall not be liable for any damage and/or losses occurring as a result of the amended drawing, design or other intellectual property.



REC



REC Ltd
Osprey House,
Pacific Quay, Broadway,
Manchester, M50 2UE

T: +44 161 868 1300
recld.co.uk

Job Title:

Land off Trenchard
Drive

Client:

PLP Construction Ltd

Drawing No: 002

Drawn By: AR

Approved by: PH

Notes:

N.T.S

Drawing Title:

Proposed Development
Plan

APPENDIX B: SITE PHOTOGRAPHS



TP01. Thickness compliance

TP01. Soil profile





TP02. Thickness compliance

TP02. Soil profile





TP03. Thickness compliance

TP03. Soil profile





TP05. Thickness compliance

TP05. Soil profile





TP06. Thickness compliance



TP08. Thickness compliance

TP08.





TP10. Thickness compliance

TP10. Soil profile





TP13. Thickness compliance

TP13. Soil profile





TP14. Thickness compliance

TP14. Soil profile



APPENDIX C: DELIVERY NOTES

WASTE CHARACTERISATION FORM

All sections must be completed prior to disposal
Further supporting information such as site investigation/analysis must be included



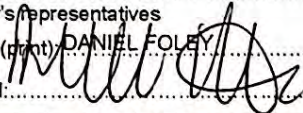
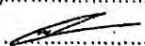
Customer and Contact ROY BRAIDWOOD & SONS TRANSPORT LIMITED - MATTHEW BRAIDWOOD		Receiving Site Use Only: Reference Number 9815	
Waste Producer ASPIRE CONSTRUCTION LIMITED		Do the materials match the description?	☐ Yes ☐ No
Site Address Trenchard Drive, Woodhouse Park, Wythenshawe, Manchester, M22 5NA		Is it a permitted waste type?	☐ Yes ☐ No
Full Waste Description (consistency, physical form e.g. solid/liquid, composition e.g. clay, sand, gravel) BROWN, GREY ORANGE SANDY GRAVELLY SUBSOILS AND CLAYS Some inclusions of brick, concrete, ceramic, tile, etc.		A: Has testing been approved by the Head Office?	☐ Yes ☐ No IGNORE PART B
Appearance (colour, odour) BROWN, DARK BROWN, GREY, ORANGE no visual or olfactory evidence of contamination.		B: Is it acceptable without testing?	☐ Yes ☐ No
Does the waste contain any biodegradable matter? YES/NO (tick as appropriate)		Checked/Approved by: Signed: Date:	
Is the waste hazardous? ☒ NO ☐ YES		EWG Codes (list all that apply) ☐ 17 01 01 Concrete ☐ 17 01 02 Brick ☐ 17 01 03 Tiles and Ceramics ☒ 17 01 07 Mixture concrete, brick, tiles ceramic ☒ 17 05 04 soil and stones ☐ 17 03 02 Tarmac, not including coal tar (only acceptable at the treatment area) ☐	
Category of landfill suitable for its disposal ☒ INERT ☒ NON-HAZARDOUS ☐ HAZARDOUS			
Is the waste homogeneous or heterogeneous? ☒ Homogeneous (e.g. excavation arisings with low physical/chemical variability) ☐ Heterogeneous (e.g. mixed wastes or waste with high physical/chemical variability)			
Is the waste from a potentially contaminated site? NO/YES (list previous uses) WS104. Material from this area will not be disposed of at Clockface Quarry.		Can the waste be recycled? YES/NO (tick as appropriate)	
Waste Production Process (e.g. demolition, excavation arisings) Excavated arisings - reduced level dig		Quantity & frequency of delivery? c. 8000 tonnes FREQUENCY UNKNOWN	
Describe the Method of Pre-treatment the waste has been subject to On-site physical segregation of any deleterious material including vegetation, topsoil and tarmac.		If untreated, confirm how waste meets pre-treatment requirements:	It is inert waste for which treatment is not technically feasible ☒
			It is waste other than inert waste and treatment would not reduce its quantity or the hazard ☐
Site Investigation/ Analysis Has a site investigation or analysis been provided to justify the waste classification? - If not the waste producer is required to provide a justification as to why testing is unnecessary (e.g. compliance with the requirements of 2.1.1 of the Council Decision 2003/33/EC) Forwarded by Email to Casey Technical - Report No. 103580P1R0 & 103580P2R0 Any significant amounts of waste materials (plastic, metal, etc.) will be kept separate for alternative disposal. WS104 has been kept separate. Material from this area will not be disposed of at Clockface Quarry. No vegetation, topsoil or tarmac will be accepted at Clockface Quarry Landfill. Ongoing WAC testing will be undertaken to cover the total quantity.			
I confirm on behalf of the waste producer that the above and attached information is correct and accurate and should the waste characteristics alter, I will notify the landfill operator prior to deposit. I confirm that the waste has been characterised and sampled in line with a representative sampling plan written in accordance with any applicable guidance or legislation available at the time of deposit. All waste sent to landfill has been pre-treated pursuant to the Landfill Directive and latest relevant guidance.			
Signed		Company ASPIRE CONSTRUCTION LIMITED	
Name DANIEL FOLEY		Position SITE MANAGER	
		Date 19/10/2020	

Clockface Quarry

PAF v2.2

BS35915Y

DUTY OF CARE: CONTROLLED WASTE TRANSFER NOTE

A	1 Description of the waste being transferred: BROWN, GREY ORANGE SANDY GRAVELLY SUBSOILS AND CLAYS some inclusions of brick, conc, tiles, etc..... List of Waste Regulations code(s): 1 7 0 5 0 4 2 How is the waste contained? ☐ Loose ☐ Sacks ☐ Skip ☐ Drum ☒ Other (specify) 8W Tipper..... 3 How much waste? For example, number of sacks, weight, c. 6000 tonnes..... 4 Analysis ~~attached~~ / ~~not attached~~ / sent separately (delete as appropriate)
B	Current holder of the waste – Transferor: By signing in Section D or F below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 Yes ☒ 1 Full name (print): ASPIRE CONSTRUCTION LIMITED..... 2 Company name, address and postcode: ASPIRE CONSTRUCTION LIMITED, Park View Cottage, Rugeley..... 3 SIC code (2007): 4 3 9 9 0 Road, Armitage, Rugeley, Staffordshire, WS15 4AZ..... 4 Which of the following are you? (please tick one or more boxes) A ☒ Waste producer ☐ Waste importer ☐ Collection/Disposal authority ☐ Broker B ☐ Env Permit holder (ref number):..... ☐ Registered waste carrier (ref number):..... C ☐ Waste exemption holder (exemption registration number):..... ☐ Exempt from carrier registration (give reason):.....
C	1 Full name (print): ROY BRAIDWOOD & SONS TRANSPORT LIMITED..... 2 Company name, address and postcode: ROY BRAIDWOOD & SONS TRANSPORT LIMITED, Lester Road..... 3 SIC code (2007): 4 9 4 1 0 Garage, Worsley Trading Estate, Little Hulton, Manchester, M38 0PT..... 4 Which of the following are you? (tick one box) A ☐ Waste collection authority..... B ☒ Registered waste carrier (ref number): CBDU91464..... C ☐ Exempt from carrier registration (give reason):.....
D	1 Place of transfer: Trenchard Drive, Woodhouse Park, ... 2 Date of transfer: 19/10/2020-19/07/2021..... 3 Time(s) of transfer: Wythenshawe, M22 5NA..... Contract No:..... (for multiple transfers give date range) 4 Name and address of broker arranging transfer (if applicable):..... 5 Holder's representatives Name (print): DANIEL FOLEY..... Carrier's representatives Signed:  Name (print): MATT BRAIDWOOD..... Signed: 
E	1 Full name (print): P CASEY ENVIRO (Clockface) LTD..... 2 Company name, address and postcode: P CASEY ENVIRO (Clockface) LTD, RYDINGS ROAD, ROCHDALE, OL12 9PS..... 3 Which of the following are you? (tick one box) ☒ Holder of an Environmental Permit (ref number): EPR/BS3591SY..... ☐ Holder of a valid waste exemption (ref number):.....
F	1 Place of transfer: Clockface Quarry, Saddleworth Rd, ... 2 Date of transfer: 19/10/2020-19/07/2021..... 3 Time(s) of transfer: Barkisland, HX4 0AJ..... Contract No:..... (for multiple transfers give date range) 4 Name and address of broker arranging transfer (if applicable):..... 5 Holder's representatives Name (print): MATT BRAIDWOOD..... Disposer's / Recoverer's representatives Signed:  Name (print): LUCY BRADLEY..... Signed:.....

This note must be retained by you and held for at least two years (or longer period specified in your Environmental Permit) from the date of the last transfer to which this note applies.

WASTE CHARACTERISATION FORM

All sections must be completed prior to disposal
Further supporting information such as site investigation/analysis must be included



Customer and Contact ROY BRAIDWOOD & SONS LTD - MATT BRAIDWOOD		Receiving Site Use Only: Reference Number 9815	
Waste Producer ASPIRE CONSTRUCTION LIMITED		Do the materials match the description? ☐ Yes ☐ No	☐ Yes ☐ No
Site Address Trenchard Drive, Woodhouse Park, Wythenshawe, Manchester, M22 5NA		Is it a permitted waste type? ☐ Yes ☐ No	☐ Yes ☐ No
Full Waste Description (consistency, physical form e.g. solid/liquid, composition e.g. clay, sand, gravel) BROWN, GREY ORANGE SANDY GRAVELLY SUBSOILS AND CLAYS Some inclusions of brick, concrete, ceramic, tile, etc.		A: Has testing been approved by the Head Office? ☐ Yes ☐ No IGNORE PART B	☐ Yes ☐ No
Appearance (colour, odour) BROWN, DARK BROWN, GREY, ORANGE no visual or olfactory evidence of contamination.		B: Is it acceptable without testing? ☐ Yes ☐ No	
Does the waste contain any biodegradable matter? YES/NO (tick as appropriate)		Checked/Approved by: Signed: Date:	
Is the waste hazardous? ☒ NO ☐ YES		EWC Codes (list all that apply) ☐ 17 01 01 Concrete ☐ 17 01 02 Brick ☐ 17 01 03 Tiles and Ceramics ☐ 17 01 07 Mixture concrete, brick, tiles ceramic ☒ 17 05 04 soil and stones	
Category of landfill suitable for its disposal ☒ INERT ☒ NON-HAZARDOUS ☐ HAZARDOUS	☐ 19 12 12 Other waste (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 ☐		
Is the waste homogeneous or heterogeneous? ☒ Homogeneous (e.g. excavation arisings with low physical/chemical variability) ☐ Heterogeneous (e.g. mixed wastes or waste with high physical/chemical variability)	Can the waste be recycled? YES/NO (tick as appropriate)		
Is the waste from a potentially contaminated site? NO/YES (list previous uses) WS104. Material from this area will not be disposed of at Arden Quarry.	Quantity & frequency of delivery? c. 6000 tonnes Frequency Unknown		
Waste Production Process (e.g. demolition, excavation arisings) Excavated arisings - reduced level dig	Describe the Method of Pre-treatment the waste has been subject to On-site physical segregation of any deleterious material including vegetation, topsoil and tarmac. If untreated, confirm how waste meets pre-treatment requirements: ☐ It is inert waste for which treatment is not technically feasible ☐ It is waste other than inert waste and treatment would not reduce its quantity or the hazard		
Site Investigation/ Analysis Has a site investigation or analysis been provided to justify the waste classification? - If not the waste producer is required to provide a justification as to why testing is unnecessary (e.g. compliance with the requirements of 2.1.1 of the Council Decision 2003/33/EC) Forwarded by Email to Casey Technical - Report No. 103580P1R0 & 103580P2R0 Any significant amounts of waste materials (plastic, metal, etc.) will be kept separate for alternative disposal. WS104 has been kept separate. Material from this area will not be disposed of at Arden Quarry. No vegetation, topsoil or tarmac will be accepted at Arden Quarry Landfill.			
I confirm on behalf of the waste producer that the above and attached information is correct and accurate and should the waste characteristics alter, I will notify the landfill operator prior to deposit. I confirm that the waste has been characterised and sampled in line with a representative sampling plan written in accordance with any applicable guidance or legislation available at the time of deposit. All waste sent to landfill has been pre-treated pursuant to the Landfill Directive and latest relevant guidance.			
Signed		Company ASPIRE CONSTRUCTION LIMITED	
Name Daniel Foley		Position Site Manager Date 19/10/2020	

Arden Quarry

PAF v1.0

BW14161Q

DUTY OF CARE: CONTROLLED WASTE TRANSFER NOTE

A Description of the waste	1 Description of the waste being transferred: BROWN, GREY ORANGE SANDY GRAVELLY SUBSOILS AND CLAYS some inclusions of brick, conc, tiles, etc. List of Waste Regulations code(s): 1 7 0 5 0 4 2 How is the waste contained? ☐ Loose ☐ Sacks ☐ Skip ☐ Drum ☒ Other (specify) 8W Tipper 3 How much waste? For example, number of sacks, weight, c. 6000 tonnes 4 Analysis ~~attached~~ / ~~not attached~~ / sent separately (delete as appropriate)
B Producer / holder of the waste	Current holder of the waste – Transferor: By signing in Section D or F below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 Yes ☒ 1 Full name (print): ASPIRE CONSTRUCTION LIMITED 2 Company name, address and postcode: ASPIRE CONSTRUCTION LIMITED, Park View Cottage Rugeley 3 SIC code (2007): 4 3 9 9 0 Road, Armitage, Rugeley, Staffordshire, WS15 4AZ 4 Which of the following are you? (please tick one or more boxes) A ☒ Waste producer ☐ Waste importer ☐ Collection/Disposal authority ☐ Broker B ☐ Env Permit holder (ref number): ☐ Registered waste carrier (ref number): C ☐ Waste exemption holder (exemption registration number): ☐ Exempt from carrier registration (give reason):
C Carrier of the waste	1 Full name (print): ROY BRAIDWOOD & SONS TRANSPORT LIMITED 2 Company name, address and postcode: ROY BRAIDWOOD & SONS TRANSPORT LIMITED, Lester Road 3 SIC code (2007): 4 9 4 1 0 Garage, Worsley Trading Estate, Little Hulton, Manchester, M38 0PT 4 Which of the following are you? (tick one box) A ☐ Waste collection authority B ☒ Registered waste carrier (ref number): CBDU91464 C ☐ Exempt from carrier registration (give reason):
D First transfer (holder to carrier)	1 Place of transfer: Trenchard Drive, Woodhouse Park, 2 Date of transfer: 19/10/2020-19/07/2021 3 Time(s) of transfer: Wythenshawe, M22 5NA Contract No: (for multiple transfers give date range) 4 Name and address of broker arranging transfer (if applicable): 5 Holder's representatives Carrier's representatives Name (print): DANIEL FOLEY Name (print): MATT BRAIDWOOD Signed: Signed:
E Disposer / recoverer of the waste	1 Full name (print): P CASEY ENVIRO (ARDEN) LTD 2 Company name, address and postcode: P CASEY ENVIRO (ARDEN) LTD, RYDINGS ROAD, ROCHDALE, OL12 9PS 3 Which of the following are you? (tick one box) ☒ Holder of an Environmental Permit (ref number): BW14161Q ☐ Holder of a valid waste exemption (ref number):
F Second transfer (carrier to disposer / recoverer)	1 Place of transfer: ARDEN QUARRY, OVENHILL RD, 2 Date of transfer: 19/10/2020-19/07/2021 3 Time(s) of transfer: NEW MILLS, SK22 1BY Contract No: (for multiple transfers give date range) 4 Name and address of broker arranging transfer (if applicable): 5 Holder's representatives Disposer's / Recoverer's representatives Name (print): MATT BRAIDWOOD Name (print): LUCY BRADLEY Signed: Signed:

This note must be retained by you and held for at least two years (or longer period specified in your Environmental Permit) from the date of the last transfer to which this note applies.

Duty of Care Waste Transfer Note Additional Description

This declaration is an addendum to the duty-of-care waste transfer note within the meaning of Article 7 of the Landfill Tax (Qualifying Material) Order 2011 to provide further detailed description of the waste to comply with the requirements of the same Article.

Please tick all the relevant groups and all wastes that apply within each group to describe your waste with any additional comments in the box below and sign the declaration at the bottom of the page:

☒ Naturally occurring rocks and soils	☒ rock; ☒ clay; ☒ sand; ☒ gravel; ☐ sandstone; ☐ limestone; ☒ crushed stone; ☐ china clay; ☐ construction stone; ☐ slate; ☒ sub-soil; ☐ silt; ☐ dredgings; ☐ stone from the demolition of buildings or structures.
---	--

☒ Ceramic or concrete materials*	☒ glass including fritted enamel*; ☐ ceramics; ☒ bricks; ☒ bricks and mortar; ☒ tiles; ☒ clay ware; ☒ pottery; ☒ china; ☐ refractories; ☒ concrete*; ☒ reinforced concrete; ☒ concrete blocks; ☒ breeze blocks; ☒ aircrete blocks.
--	--

*This group does not include glass fibre, glass-reinforced plastic or concrete plant washings

☐ Minerals Processed or prepared*	☐ moulding sand including used foundry sand*; ☐ clays including moulding clays and clay absorbents (inc Fuller's earth and bentonite); ☐ mineral absorbents; ☐ man-made mineral fibres including glass-fibres*; ☐ silica; ☐ mica; ☐ mineral abrasives.
--	---

*This group does not include moulding sands containing organic binders or man-made fibres from glass-reinforced plastic and asbestos.

☐ Furnace slags	☐ vitrified wastes and residues from thermal processing of minerals where, in either case, the residue is both fused and insoluble; ☐ slag from waste incineration.
--	---

☐ Ash*	☐ bottom ash and fly ash from wood or waste combustion; ☐ bottom ash and fly ash from coal or petroleum coke combustion (including when burnt together with biomass).
-------------------------------	---

*This group does not include fly ash from sewage sludge, municipal, clinical and hazardous waste incinerators.

☐ Low activity inorganic compounds	☐ calcium based reaction wastes from titanium dioxide production; ☐ calcium carbonate; ☐ magnesium carbonate; ☐ magnesium oxide; ☐ magnesium hydroxide; ☐ iron oxide; ☐ ferric hydroxide; ☐ aluminium oxide; ☐ aluminium hydroxide; ☐ zirconium dioxide.
---	--

☐ Calcium Sulphate*	☐ calcium sulphate; ☐ gypsum; ☐ calcium sulphate based plasters
--	--

*This group does not include plasterboard

Does your waste include non-qualifying materials?

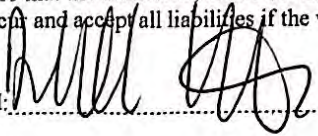
☐ yes / ☒ no – if yes, please justify their inclusion and why this is considered incidental to the load:

Is your waste non-hazardous, with low potential for greenhouse gas emissions and low polluting potential in the landfill environment? ☒ yes / ☐ no – if no, your waste is not acceptable as qualifying material.

Has the waste been subject to a physical treatment process such as screening, crushing or tromelling? ☐ yes / ☒ no – if yes, your waste treatment process must be inspected prior to acceptance of the waste as qualifying material.

Please provide any further details or comments required to fully describe your waste:

I declare that the transferred waste described above meets the criteria of the Landfill Tax (Qualifying Material) Order 2011 and that I will incur and accept all liabilities if the waste shall not conform to the order.

Signed:  On behalf of: ASPIRE CONSTRUCTION LIMITED Date: 19/10/2020

Dave B
Cheshire Soils and Aggregates Ltd
Unit 3B, Thelwall Lane
Warrington
Cheshire
WA4 1TB

e: dave@cheshiresoils.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 21-83553

Project / Site name:	Kingeborne Stockpile	Samples received on:	25/06/2021
Your job number:		Samples instructed on/ Analysis started on:	25/06/2021
Your order number:		Analysis completed by:	06/07/2021
Report Issue Number:	1	Report issued on:	06/07/2021
Samples Analysed:	1 soil sample		

Signed: *A. Czerwińska*

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

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

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

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

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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

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

i2 Analytical

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Pass BS 3882 for Multipurpose Topsoil						client		
Report No:	21-83553					Cheshire Soils and Aggregates Ltd			
Location	Kingeborne Stockpile								
Lab Reference (Sample Number)	1918204								
Sampling Date	24/06/2021								
Sample ID	Sample 1								
Depth (m)	0.00			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SANDY SILT LOAM	Y	Y	Y	Y	Y	Y
Maximum coarse fragment content:	>2mm	%m/m	3.40	Y	Y	Y	Y	Y	Y
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	3.50						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	7.20	Y	N	N	Y	N	N
Carbonate:		%m/m	2.90	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.22	Y	Y	Y	-	-	-
	Extractable Phosphate (as P)	mg/l	92.00	Y	Y	Y	N	N	N
	Extractable Potassium	mg/l	377.00	Y	Y	Y	-	-	-
	Extractable Magnesium	mg/l	210.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	16.00	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	1700.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	39.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	16.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	11.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliancy:				Pass	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

** = MCERTS accredited



Analytical Report Number : 21-83553
Project / Site name: Kingeborne Stockpile

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1918204	Sample 1	None Supplied	None Supplied	Brown loam and clay with vegetation.

Analytical Report Number : 21-83553
Project / Site name: Kingeborne Stockpile

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Geotechnical Testing in Soil	See attached geotechnical report	See attached geotechnical report		W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Textural Classification Diagram	Textural classification Diagram	BS3882:2015		D	NONE
Carbon to Nitrogen Ratio (Topsoil - BS3882:2015)	Carbon to Nitrogen ratio (:1) calculated using Loss on Ignition.	BS3882:2015	L01TS2015	W	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Kjeldahl nitrogen in soil	Determination of total nitrogen using the Kjeldahl-digestion method and colorimetric determination.	In house method based on BS 7755-3.7:1995 &	L087-PL	D	NONE
Topsoil	See attached report.	BS 3882: 2015	PL	W	NONE
Mass loss on ignition (Topsoil - BS3882)	Determination of Loss on Ignition as per BS 3882:2015.	BS3882:2015	L047-PL	D	NONE
Carbonate (Topsoil - BS3882)	Determination of Carbonate as per BS 3882:2015.	BS3882:2015	L034-PL	D	NONE
Phosphorus as PO4 (BS3882/BS8601)	Determination of the extractable phosphorus in soil, in accordance with BS3882:2007 methodology.	BS3882:2015 & BS8601:2013	L082-PL	D	NONE
Coarse Fragment and Contaminant Analysis	Determination of >2mm contaminants	BS3882:2007 & BS8601:2013 & PAS 100:2005	L01TS	D	NONE
Nitrogen (TKN)	Determination of total nitrogen by Kjeldahl method.	BS3882:2007	L087-PL	D	NONE
Conductivity (BS3882/BS8601)	Determination of the conductivity of soil in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L099-PL	D	NONE
pH (BS3882/BS8601)	Determination of the pH of soil in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L099-PL	D	NONE
Extractable/Available Metals (BS3882/BS8601)	Determination of the extractable metals in soil, in accordance with BS3882:2007 methodology.	BS3882:2007 & BS8601:2013	L038-PL	D	NONE
Sodium (exchangeable %)	Determination of exchangeable sodium (%) by calculation, in accordance with BS3882:2007 methodology.	BS3882:2007	L028-PL	D	NONE

Analytical Report Number : 21-83553
Project / Site name: Kingeborne Stockpile

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Textural Classification (BS3882/BS8601)	Determination of the textural classification of soil following BS3882:2007 methodology.	BS3882:2007 & BS8601:2013	L01TS	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
 For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
 Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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



Travis Perkins

TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE

FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS

CONSIGNEE

M

ADDRESS OF PLACE
OF DELIVERY

LOADED AT CROWN FARM

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME
			1024356	3-11-21	ON SITE : OFF SITE :
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV
2204348		6208	AAL	1948	
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING		A.M.	P.M.
3162					
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.			
1214					
NETT		NINETEEN TONS/TONNES 40 CWT/KILOS			
1948					
OF (MATERIAL)		HAULIER			
Topsoil		BIRCHENDALL			
REGD. No.		DRIVER			
DN15 SZK		AB			

***WARNING* CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY**

Customer Signature

Print Name

Date:

Date:



Travis Perkins

TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE

FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS

CONSIGNEE

M ASPIRE

ADDRESS OF PLACE
OF DELIVERY

Tierneyard drive, Winythorpe

LOADED AT Crownfarm

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME	
		<u>C773/MS</u>	<u>1043926</u>	<u>4-11-21</u>	ON SITE : OFF SITE :	
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV	TERMS
<u>1002204367</u>			<u>A A L</u>			
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING		A.M.	P.M.	SIGNATURE
<u>31 98</u>						
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.				
<u>12 04</u>						
NETT		<u>Nineteen Ninty four</u>				
				TONS/TONNES	CWT/KILOS	

OF (MATERIAL)

Top Soil

HAULIER

Woolley

REGD. No.

GH15HWX

DRIVER

H. Jones

***WARNING* CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY**

Customer Signature X

[Signature]

Print Name X

J. Ledford

Date:

Date:



Travis Perkins

TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE
FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS

CONSIGNEE

M ASPIDE

ADDRESS OF PLACE
OF DELIVERY

TRENCYARD Drive, Wrythorn

LOADED AT CROWN FARM

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME	
		C 773/MS	1043924	4-11-01	ON SITE : OFF SITE :	
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV	TERMS
10020265			A A L			
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING				
31 70		A.M. P.M.				
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.				
12 12		Nineteen Pity Eight.				
NETT		19 58				

OF (MATERIAL)

TOP SOIL

HAULIER

Woolley

REGD. No.

GH15HWX

DRIVER

M. Jones

TONS/TONNES CWT/KILOS

***WARNING* CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY**

Customer Signature X	Print Name X
Date:	Date:



Travis Perkins

TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE
FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS

CONSIGNEE

M

ADDRESS OF PLACE
OF DELIVERY

ASPIRE.
TRENCHYARD DRIVE
WYTHEN SPAWE

LOADED AT CROWN FARM

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME
			1024354	3-11-21	ON SITE : OFF SITE :
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV TERMS
1202210		6208AAL		1948	
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING			
31 68		A.M. P.M.			
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.			
1220					
NETT		NINETEEN TONS/TONNES 48 CWT/KILOS			
1948					

OF (MATERIAL)

TOP SOIL

HAULIER

BIRCHENWORTH

REGD. No.

DN15 JZK

DRIVER

AB

WARNING CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY

Customer Signature x	Print Name x
Date:	Date:



Travis Perkins

TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE
FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS
CONSIGNEE

M ASPIRE CONSTRUCTION

ADDRESS OF PLACE
OF DELIVERY

Trenard Drive, Wythenshaw

LOADED AT CROWN FARM

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME	
		C773/MS	1043905	29-10-21	ON SITE : OFF SITE :	
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV	TERMS
1002188345			A A L			
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING				
31 78		A.M. P.M.				
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.				
12 16						
NETT		Nineteen Sixty Two				
19 62		TONS/TONNES CWT/KILOS				

OF (MATERIAL)

TOP SOIL

HAULIER

Woolley

REGD. No.

GH15 HUX

DRIVER

Kieran Jones

***WARNING* CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY**

Customer Signature

X [Signature]

Print Name

X [Signature]

Date:

Date:



Travis Perkins

TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE
FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS
CONSIGNEE

M Aspire, Trenchard
Dove Wythenstone

ADDRESS OF PLACE
OF DELIVERY

LOADED AT Crown Farm

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME	
		<u>C7331 MS</u>	<u>1054311</u>	<u>29/10/2021</u>	ON SITE : OFF SITE :	
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV	TERMS
<u>1002180978</u>		<u>085</u>	<u>A A L</u>	<u>19 58</u>		
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING		SIGNATURE		
<u>31 42</u>						
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.				
<u>11 34</u>						
NETT						
<u>19 53</u>						

OF (MATERIAL)

Top Soil

HAULIER

UHK

REGD. No.

PJ67 CCG

DRIVER

GARY

19 TONS/TONNES 58 CWT/KILOS

***WARNING* CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY**

Customer Signature X

Print Name X

Date:

29/10/21

Date:

29/10/21



TRAVIS PERKINS TRADING CO. LTD.
HURDSFIELD ROAD, MACCLESFIELD,
CHESHIRE SK10 2QZ

TELEPHONE: 01625 413044

FAX: 01625 611851 EMAIL: maccstonecentre@travisperkins.co.uk

CONVEYANCE NOTE

FORM B (WEIGHT)

PRESCRIBED BY THE BOARD OF
TRADE UNDER SECTION 4 OF THE
WEIGHTS AND MEASURES ACT 1936

ALL IN BLOCK LETTERS
CONSIGNEE

M

Aspine Construction

ADDRESS OF PLACE
OF DELIVERY

Trenchard Drive

WYTHENSAYE M22 SL2

LOADED AT *Charnham*

SITUATION OF NEAREST AVAILABLE
WEIGHING INSTRUMENT TO PLACE
WHERE VEHICLE WAS LOADED

ACCOUNT No.	SITE	ORDER NUMBER	TICKET No.	DATE	WAITING TIME	
		C773/m3	1054980	29/10/21	ON SITE : OFF SITE :	
QUARRY TICKET No.		HAULIER	PRODUCT CODE	WEIGHT	CONV	TERMS
1002188996		5085	AAL			
GROSS WEIGHT OF VEHICLE AT WEIGHBRIDGE		DATE AND TIME OF LOADING		A.M.		P.M.
31 66						
TARE WEIGHT OF VEHICLE		WEIGHT (IN WORDS) AND DESCRIPTION OF MATERIALS BEING CARRIED E.G. LIMESTONE, SAND, ETC.				
11 96						
NETT		19 70		NINETEEN		TONS/TONNES <i>96.00</i> CWT/KILOS

OF (MATERIAL)

Topsoil

HAULIER

LHC

REGD. No.

P017VVL

DRIVER

Paul

***WARNING* CUSTOMERS ORDERING VEHICLES OFF THE PUBLIC ROAD DO SO ENTIRELY ON THEIR OWN RISK.
NB. PLEASE CHECK ALL MATERIALS ARE AS ORDERED BEFORE ACCEPTING DELIVERY**

Customer Signature X <i>[Signature]</i>	Print Name X <i>S. Perkins</i>
Date: 29/10/21	Date: 29/10/21

APPENDIX D: SOIL CONTAMINATION REPORT



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-36276

Issue: 1

Date of Issue: 07/10/2021

Contact: Tony Gerrard

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 7BA

Quotation No: Q14-00045

Order No: Not Supplied

Customer Reference: CCG-C-21-12647

Date Received: 01/10/2021

Date Approved: 07/10/2021

Details: Land off Trenchard Drive, Manchester

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full



Sample Summary

Report No.: 21-36276, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
252514	Plot 13 Soil 0.15	30/09/2021	01/10/2021	Sandy silty loam	
252515	Plot 14 Soil 0.15	30/09/2021	01/10/2021	Sandy loam	



Results Summary

2683

Report No.: 21-36276, issue number 1

ELAB Reference	252514	252515
Customer Reference	Soil	Soil
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	Plot 13	Plot 14
Sample Depth (m)	0.15	0.15
Sampling Date	30/09/2021	30/09/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None
Metals					
Antimony	N	mg/kg	2.5	< 2.5	< 2.5
Arsenic	M	mg/kg	1	8.5	6.3
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	18.5	11.4
Copper	M	mg/kg	5	29.5	17.8
Lead	M	mg/kg	5	44.7	44.8
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Molybdenum	N	mg/kg	0.5	0.7	0.5
Nickel	M	mg/kg	5	12.5	8.3
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	63.6	49.3
Anions					
Water Soluble Sulphate	M	g/l	0.02	0.04	< 0.02
Inorganics					
Free Cyanide	N	mg/kg	1	< 1.0	< 1.0
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.03	< 0.02
Water Soluble Boron	N	mg/kg	0.5	1.4	1.1
Miscellaneous					
pH	M	pH units	0.1	7.1	6.9
Soil Organic Matter	U	%	0.1	3.6	3.3



Results Summary

2683

Report No.: 21-36276, issue number 1

ELAB Reference	252514	252515
Customer Reference	Soil	Soil
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	Plot 13	Plot 14
Sample Depth (m)	0.15	0.15
Sampling Date	30/09/2021	30/09/2021

Determinand	Codes	Units	LOD		
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.3
Pyrene	M	mg/kg	0.1	< 0.1	0.3
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	0.1
Chrysene	M	mg/kg	0.1	< 0.1	0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	0.2
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	0.2
Total PAH(16)	M	mg/kg	0.4	< 0.4	1.9
BTEX					
Benzene	M	ug/kg	10	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	< 1.0



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 21-36276, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
252514	0.15	Plot 13 Soil	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
252515	0.15	Plot 14 Soil	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-36276, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Free cyanide	N	As submitted sample	04/10/2021	107	Colorimetry
Sulphide	N	As submitted sample	04/10/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	04/10/2021	110	Colorimetry
pH	M	Air dried sample	06/10/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	05/10/2021	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	04/10/2021	118	ICPMS
PAH (GC-FID)	M	As submitted sample	04/10/2021	133	GC-FID
Water soluble anions	M	Air dried sample	04/10/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	05/10/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	05/10/2021	181	GC-MS
BTEX in solids	M	As submitted sample	05/10/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	04/10/2021	202	Colorimetry
Aliphatic hydrocarbons in soil	N	As submitted sample	04/10/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/10/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	04/10/2021	214	GC-FID
Asbestos identification	U	Air dried sample	06/10/2021	280	Microscopy
Soil organic matter	U	Air dried sample	06/10/2021	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-36276, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
 Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
 ELAB are unable to provide an interpretation or opinion on the content of this report.
 The results relate only to the sample received.
 PCB congener results may include any coeluting PCBs
 Uncertainty of measurement for the determinands tested are available upon request
 Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-38223

Issue: 1

Date of Issue: 01/02/2022

Contact: Tony Gerrard

Customer Details: CC Geotechnical Ltd
Unit 1 & 2 Deltic Place
Deltic Way
Liverpool
Merseyside L33 7BA

Quotation No: Q14-00045

Order No: Not Supplied

Customer Reference: CCG-C21-12647

Date Received: 25/01/2022

Date Approved: 01/02/2022

Details: Land off Trenchard Drive, Manchester

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full



Sample Summary

Report No.: 22-38223, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
264872	Plot 1	24/01/2022	25/01/2022	Sandy loam	
264873	Plot 2	24/01/2022	25/01/2022	Sandy silty loam	
264874	Plot 5	24/01/2022	25/01/2022	Sandy silty loam	
264875	Plot 6	24/01/2022	25/01/2022	Sandy loam	
264876	Plot 8	24/01/2022	25/01/2022	Sandy silty loam	
264877	Plot 10	24/01/2022	25/01/2022	Silty loam	

Results Summary

Report No.: 22-38223, issue number 1

ELAB Reference				264872	264873	264874	264875	264876
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				Plot 1	Plot 2	Plot 5	Plot 6	Plot 8
Sample Depth (m)								
Sampling Date				24/01/2022	24/01/2022	24/01/2022	24/01/2022	24/01/2022
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	18.3	16.9	21.8	20.3	21.5
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None
Metals								
Antimony	N	mg/kg	2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Arsenic	M	mg/kg	1	3.2	6.7	5.6	3.8	4.4
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	8.5	12.8	10.3	9.7	11.9
Copper	M	mg/kg	5	13.9	22.7	17.8	15.9	24.2
Lead	M	mg/kg	5	19.5	54.2	46.0	25.5	40.2
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Molybdenum	N	mg/kg	0.5	< 0.5	0.5	< 0.5	< 0.5	0.7
Nickel	M	mg/kg	5	7.7	10.6	8.1	8.2	11.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	37.0	62.4	45.5	45.3	68.1
Anions								
Water Soluble Sulphate	M	g/l	0.02	0.02	< 0.02	0.02	0.03	0.06
Inorganics								
Free Cyanide	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02	0.02	0.02	< 0.02	0.02
Water Soluble Boron	N	mg/kg	0.5	1.4	0.8	0.6	1.4	1.7
Miscellaneous								
pH	M	pH units	0.1	8.3	7.7	7.4	8.2	8.2
Soil Organic Matter	U	%	0.1	2.8	3.4	3.5	2.8	3.6
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	1.1	0.2	< 0.1	0.3	0.3
Pyrene	M	mg/kg	0.1	0.7	0.2	< 0.1	0.1	0.2
Benzo(a)anthracene	M	mg/kg	0.1	0.7	< 0.1	< 0.1	< 0.1	0.2
Chrysene	M	mg/kg	0.1	0.6	< 0.1	< 0.1	< 0.1	0.2
Benzo(b)fluoranthene	M	mg/kg	0.1	0.5	< 0.1	< 0.1	< 0.1	0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.5	< 0.1	< 0.1	< 0.1	0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.5	< 0.1	< 0.1	< 0.1	0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.3	< 0.1	< 0.1	< 0.1	0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.5	< 0.1	< 0.1	< 0.1	0.1
Total PAH(16)	M	mg/kg	0.4	6.2	0.5	< 0.4	0.5	1.6
BTEX								
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0



Results Summary

2683

Report No.: 22-38223, issue number 1

ELAB Reference				264872	264873	264874	264875	264876
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				Plot 1	Plot 2	Plot 5	Plot 6	Plot 8
Sample Depth (m)								
Sampling Date				24/01/2022	24/01/2022	24/01/2022	24/01/2022	24/01/2022
Determinand	Codes	Units	LOD					
TPH CWG								
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0	1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	1.0	6.5	< 1.0	< 1.0	< 1.0
>C35-C40 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0	1.1	< 1.0	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro (HS_1D_MS+EH_CU_1D_Total)	N	mg/kg	1	1.0	8.6	< 1.0	< 1.0	< 1.0



Results Summary

2683

Report No.: 22-38223, issue number 1

ELAB Reference	264877
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	Plot 10
Sample Depth (m)	
Sampling Date	24/01/2022

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Moisture Content	N	%	0.1	16.4
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
Metals				
Antimony	N	mg/kg	2.5	< 2.5
Arsenic	M	mg/kg	1	13.9
Cadmium	M	mg/kg	0.5	0.5
Chromium	M	mg/kg	5	30.0
Copper	M	mg/kg	5	58.5
Lead	M	mg/kg	5	65.5
Mercury	M	mg/kg	0.5	< 0.5
Molybdenum	N	mg/kg	0.5	1.0
Nickel	M	mg/kg	5	28.6
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	108
Anions				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
Inorganics				
Free Cyanide	N	mg/kg	1	< 1.0
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.03
Water Soluble Boron	N	mg/kg	0.5	1.1
Miscellaneous				
pH	M	pH units	0.1	7.5
Soil Organic Matter	U	%	0.1	2.6
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.7
Anthracene	M	mg/kg	0.1	0.2
Fluoranthene	M	mg/kg	0.1	1.3
Pyrene	M	mg/kg	0.1	1.1
Benzo(a)anthracene	M	mg/kg	0.1	0.5
Chrysene	M	mg/kg	0.1	0.7
Benzo(b)fluoranthene	M	mg/kg	0.1	0.8
Benzo(k)fluoranthene	M	mg/kg	0.1	0.6
Benzo(a)pyrene	M	mg/kg	0.1	0.7
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.4
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.4
Total PAH(16)	M	mg/kg	0.4	7.7
BTEX				
Benzene	M	ug/kg	10	< 10.0
Toluene	M	ug/kg	10	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0
Xylenes	M	ug/kg	10	< 10.0



Results Summary

2683

Report No.: 22-38223, issue number 1

ELAB Reference	264877
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	Plot 10
Sample Depth (m)	
Sampling Date	24/01/2022

Determinand	Codes	Units	LOD	
TPH CWG				
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0
>C35-C40 Aliphatic (EH_CU_1D_AL)	N	mg/kg	1	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0
>C10-C12 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0
>C12-C16 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0
>C16-C21 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0
>C21-C35 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0
>C35-C40 Aromatic (EH_CU_1D_AR)	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro (HS_1D_MS+EH_CU_1D_Total)	N	mg/kg	1	< 1.0



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-38223, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
264872		Plot 1	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
264873		Plot 2	Brown sandy soil, stones, clinker,	No asbestos detected	n/t	n/t	n/t	n/t
264874		Plot 5	Brown sandy soil, stones, clinker,	No asbestos detected	n/t	n/t	n/t	n/t
264875		Plot 6	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
264876		Plot 8	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
264877		Plot 10	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-38223, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Free cyanide	N	As submitted sample	27/01/2022	107	Colorimetry
Sulphide	N	As submitted sample	27/01/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	26/01/2022	110	Colorimetry
pH	M	Air dried sample	30/01/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	28/01/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	27/01/2022	118	ICPMS
PAH (GC-FID)	M	As submitted sample	26/01/2022	133	GC-FID
Water soluble anions	M	Air dried sample	27/01/2022	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/01/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/01/2022	181	GC-MS
BTEX in solids	M	As submitted sample	31/01/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	27/01/2022	202	Colorimetry
Aliphatic hydrocarbons in soil	N	As submitted sample	26/01/2022	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/01/2022	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	26/01/2022	214	GC-FID
Asbestos identification	U	Air dried sample	28/01/2022	280	Microscopy
Soil organic matter	U	Air dried sample	30/01/2022	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-38223, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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

APPENDIX E: SOIL CONTAMINATION SUMMARY TABLES



SOIL ASSESSMENT CRITERIA FOR RESIDENTIAL LAND USE (WITH HOME GROWN PRODUCE)

Contaminant	Assessment Criteria for Residential at 1% SOM (mg/kg)	Assessment Criteria for Residential at 2.5% SOM (mg/kg)	Assessment Criteria for Residential at 6% SOM (mg/kg)
<u>Metals</u>			
Arsenic	37	37	37
Boron	290	290	290
Cadmium	11	11	11
Chromium III	910	910	910
Chromium VI	6	6	6
Copper	240	240	240
*Lead	200	200	200
Mercury	1.2	1.2	1.2
Nickel	180	180	180
Selenium	250	250	250
Vanadium	410	410	410
Zinc	3700	3700	3700
<u>Non-Metals</u>			
Phenol	280	550	1100
<u>Polyaromatic Hydrocarbons (PAH)</u>			
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Anthracene	2400	5400	11000
Benz[a]anthracene	7.2	11	13
Benzo[a]pyrene	2.2	2.7	3.0
Benzo[b]fluoranthene	2.6	3.3	3.7
Benzo[ghi]perylene	320	340	350
Benzo[k]fluoranthene	77	93	100
Chrysene	15	22	27
Dibenz[ah]anthracene	0.24	0.28	0.3
Fluoranthene	280	560	890
Fluorene	170	400	860
Indeno[123-cd]pyrene	27	36	41
Naphthalene	2.3	5.6	13
Phenanthrene	95	220	440
Pyrene	620	1200	2000
Coal Tar [Bap as surrogate marker]	0.79	0.98	1.1
<u>Petroleum Hydrocarbons</u>			
Aliphatic EC 5-6	42	78	160
Aliphatic EC >6-8	100	230	530
Aliphatic EC >8-10	27	65	150
Aliphatic EC >10-12	130	330	760
Aliphatic EC >12-16	1100	2400	4300
Aliphatic EC >16-35	65000	92000	110000
Aliphatic EC >35-44	65000	92000	110000
Aromatic EC 5-7 (Benzene)	70	140	300
Aromatic EC >7-8 (Toluene)	130	290	660
Aromatic EC >8-10	34	83	190
Aromatic EC >10-12	74	180	380
Aromatic EC >12-16	140	330	660
Aromatic EC >16-21	260	540	930
Aromatic EC >21-35	1100	1500	1700
Aromatic EC >35-44	1100	1500	1700
Aliphatic – Aromatic EC >44-70	1600	1800	1900

Copyright: Land Quality Management Limited (LQM)

The above is based on criteria contained in publication LQM/CIEH S4UL's for Human Health Risk Assessment (2015) (CCG Licence No. S4UL3233), applicable to the "Residential" land use (with home grown produce) scenario for soil organic matter (SOM) content of 1% - 6%.

*This document does not provide criteria for Lead, for which the results were compared to the C4SL published by DEFRA SP1010 Development of Category 4 Screening Levels.



METALS DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-12647

Site name: Land off Trenchard Drive,
Manchester

Prepared by: TG

Authorised by: CB

Proposed land use: Residential with plant uptake

SOM % used: 2.5

 = Threshold exceeded

 = Below Limit of detection

n/t = Not tested

Contaminants			Metals							
			Cadmium	Chromium III	Chromium VI	Copper	Lead	Mercury (elemental)	Nickel	Zinc
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.5	5.0	0.8	5.0	5.0	0.5	5.0	5.0
Human Health Risk Assessment (GAC)			11	910	6	2400	200	1.2	180	3700
Sample Location	Sample Depth (m)	Sample type								
Plot 1		SOIL	< 0.5	8.5	< 0.8	13.9	19.5	< 0.5	7.7	37
Plot 2		SOIL	< 0.5	12.8	< 0.8	22.7	54.2	< 0.5	10.6	62.4
Plot 5		SOIL	< 0.5	10.3	< 0.8	17.8	46	< 0.5	8.1	45.5
Plot 6		SOIL	< 0.5	9.7	< 0.8	15.9	25.5	< 0.5	8.2	45.3
Plot 8		SOIL	< 0.5	11.9	< 0.8	24.2	40.2	< 0.5	11	68.1
Plot 10		SOIL	0.5	30	< 0.8	58.5	65.5	< 0.5	28.6	108
Plot 13		SOIL	< 0.5	18.5	< 0.8	29.5	44.7	< 0.5	12.5	63.6
Plot 14		SOIL	< 0.5	11.4	< 0.8	17.8	44.8	< 0.5	8.3	49.3
Human Health Risk Assessment (GAC)			11	910	6	2400	200	1.2	180	3700



SEMI-METALS, NON-METALS, INORGANICS AND OTHER DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-12647

Site name: Land off Trenchard Drive,
Manchester

Prepared by: TG

Authorised by: CB

Proposed land use: Residential with plant uptake

SOM % used: 2.5

 = Threshold exceeded

 = Below Limit of detection

n/t = Not tested

			Semi/non-metals		Inorganics			Other		
Contaminants			Arsenic	Boron	Selenium	Cyanide (free)	Sulphate (water soluble)	Sulphate (water soluble)	pH (units)	Soil Organic Matter %
Units			mg/kg	mg/kg	mg/kg	mg/kg	g/l	mg/l	units	units
Limit of Detection			1.0	0.5	1.0	1.0	0.02	20.0	0.1	0.1
Human Health Risk Assessment (GAC)			37	290	250	22	NA	NA	NA	NA
Sample Location	Sample Depth (m)	Sample type								
Plot 1		SOIL	3.2	1.4	< 1.0	< 1.0	0.02	n/t	8.3	2.8
Plot 2		SOIL	6.7	0.8	< 1.0	< 1.0	< 0.02	n/t	7.7	3.4
Plot 5		SOIL	5.6	0.6	< 1.0	< 1.0	0.02	n/t	7.4	3.5
Plot 6		SOIL	3.8	1.4	< 1.0	< 1.0	0.03	n/t	8.2	2.8
Plot 8		SOIL	4.4	1.7	< 1.0	< 1.0	0.06	n/t	8.2	3.6
Plot 10		SOIL	13.9	1.1	< 1.0	< 1.0	< 0.02	n/t	7.5	2.6
Plot 13		SOIL	8.5	1.4	< 1.0	< 1.0	0.04	n/t	7.1	3.6
Plot 14		SOIL	6.3	1.1	< 1.0	< 1.0	< 0.02	n/t	6.9	3.3
Human Health Risk Assessment (GAC)			37	290	11	22	NA	NA	NA	NA



SPECIATED PAH'S DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-12647

Site name: Land off Trenchard Drive,
Manchester

Prepared by: TG

Authorised by: CB

Proposed land use: Residential with plant uptake

SOM % used: 2.5

 = Threshold exceeded = Below Limit of detection n/t = Not tested

Contaminants

PAH's

Units

Limit of Detection

Human Health Risk Assessment (GAC)

Sample Location	Sample Depth (m)	Sample type	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenzo[ah]anthracene	fluoranthene	fluorene	Indeno[123-cd]pyrene	Napthalene	Pheanthrene	Pyrene	Total PAH's
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
			510	420	5400	11	2.7	3.3	340	93	22	0.28	560	400	36	5.6	220	1200	NA
Plot 1		SOIL	< 0.1	0.1	0.2	0.7	0.5	0.5	0.5	0.5	0.6	0.1	1.1	< 0.1	0.3	< 0.1	0.4	0.7	6.2
Plot 2		SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.5
Plot 5		SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.4
Plot 6		SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.5
Plot 8		SOIL	< 0.1	< 0.1	< 0.1	0.2	0.1	0.1	0.1	0.1	0.2	< 0.1	0.3	< 0.1	0.1	< 0.1	< 0.1	0.2	1.6
Plot 10		SOIL	< 0.1	< 0.1	0.2	0.5	0.7	0.8	0.4	0.6	0.7	< 0.1	1.3	< 0.1	0.4	< 0.1	0.7	1.1	7.7
Plot 13		SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.4
Plot 14		SOIL	< 0.1	< 0.1	< 0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3	< 0.1	0.2	< 0.1	0.1	0.3	1.9
		Human Health Risk Assessment (GAC)	510	420	11	11	2.7	3.3	340	93	22	0.28	560	400	36	5.6	220	1200	NA



SPECIATED TPH'S DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-12647

Site name: Land off Trenchard Drive,
Manchester

Prepared by: TG

Authorised by: CB

Proposed land use: Residential with plant uptake

SOM % used: 2.5

 = Threshold exceeded = Below Limit of detection

n/t = Not tested

			Speciated TPH's																
			Aromatics							Aliphatics									
Contaminants			EC5-7	EC7-8	EC8-10	EC10-12	EC12-16	EC16-21	EC21-35	EC35-44	EC5-6	EC6-8	EC8-10	EC10-12	EC12-16	EC16-35	EC35-44	TOTAL TPH'S	
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.01	0.01	1.0	1.0	1.0	1.0	1.0	1.0	0.01	0.01	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Human Health Risk Assessment (GAC)			140	290	83	180	330	540	1500	1500	78	230	65	330	2400	92000	92000	NA	
Sample Location	Sample Depth (m)	Sample type																	
Plot 1		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1	
Plot 2		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	1	6.5	1.1	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.6	
Plot 5		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Plot 6		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Plot 8		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Plot 10		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Plot 13		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Plot 14		SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Human Health Risk Assessment (GAC)			140	290	11	180	330	540	1500	1500	78	230	65	330	2400	92000	92000	NA	



BTEX DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: **CCG-C-12647**

Site name: **Land off Trenchard Drive,
Manchester**

Prepared by: **TG**

Authorised by: **CB**

Proposed land use: **Residential with plant uptake**

SOM % used: **2.5**

= **Threshold exceeded**

= **Below Limit of detection**

n/t = **Not tested**

			BTEX			
Contaminants			Benzene	Toluene	Ethylbenzene	Total Xylenes
Units			µg/kg	µg/kg	µg/kg	µg/kg
Limit of Detection			10	10	10	10
Human Health Risk Assessment (GAC)			170	290000	110000	130000
Sample Location	Sample Depth (m)	Sample type				
Plot 1		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 2		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 5		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 6		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 8		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 10		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 13		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Plot 14		SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Human Health Risk Assessment (GAC)			170	11	110000	130000

ASBESTOS ASSESSMENT SHEET

Job number: **CCG-C-12647**

Site name: **Land off Trenchard Drive, Manchester**

Prepared by: **TG**

Authorised by: **CB**

Sample Location	Sample Depth (m)	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)	Assessment
Plot 1		No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 2		No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 5		No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 6		No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 8		No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 10		No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 13 Soil	0	No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected
Plot 14 Soil	0	No asbestos detected	n/t	n/t	n/t	n/t	No asbestos detected

APPENDIX F: NOTES ON LIMITATIONS

Standard Terms and Conditions of Engagement

Notes on Limitations For Geoenvironmental and Geotechnical Consultancy Services

General

CC GEOTECHNICAL LTD has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from CC GEOTECHNICAL LTD and a charge may be levied against such approval.

CC GEOTECHNICAL LTD accepts no responsibility or liability for:

the consequences of this document being used for any purpose or project other than for which it was commissioned and/or

the consequences of use of this document by any party with whom an agreement has not been executed.

Phase I Environmental Audits / Desk Studies

The work undertaken to provide the basis of a Phase 1 Desk Study report comprises a study of available documented information from a variety of sources (including the client), together with (where appropriate) a walk over inspection of the site and meetings and discussions with relevant authorities and other interested parties. The opinions given in a Desk Study report have been dictated by finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in the report, CC GEOTECHNICAL LTD reserves the right to review such information and to modify the opinions accordingly.

It should be noted that any risks identified in this report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Phase II Environmental Audits

The investigation of the site has been carried out with the intention of providing sufficient information concerning the type and degree of contamination, and ground and groundwater conditions to allow a reasonable risk assessment to be made. The objectives of the investigation have been limited to establishing the risks associated to potential human targets, building materials, the environment (including adjacent land), and surface and groundwater.

The amount of exploratory work and chemical testing undertaken may have been restricted by the timescale available, and the locations of the exploratory holes may have been restricted to areas unoccupied by the building(s) on the site, and further restricted by the existence of buried services. A more comprehensive investigation may be required if the site is to be redeveloped as, in addition to risk assessment, a number of important engineering and environmental issues may need to be resolved.

For those reasons, if costs have been included in relation to site remediation these must be considered as tentative only and must, in any event, be confirmed by a qualified quantity surveyor.

The exploratory holes undertaken, investigate only a small volume of the ground in relation to the size of the site, and can only provide a general indication of site conditions. The number of sampling points and the methods of sampling and testing do not preclude the existence of localised "hotspots" of contamination where concentrations may be significantly higher than those actually encountered.

Geoenvironmental Ground Investigations

The investigation of the site has been carried out to provide sufficient information within the agreed scope of the investigation, under the general headings of type and degree of contamination, geotechnical characteristics, and ground and groundwater conditions, to provide a reasonable assessment of the environmental risks together with engineering and development implications.

If costs have been included in relation to the site remediation, these must be confirmed by a qualified quantity surveyor.

The exploratory holes undertaken, investigate only a small volume of the ground in relation to the size of the site, and can only provide a general indication of the site conditions. The opinions provided and recommendations given in this report are based on the ground conditions apparent at the site of each of the exploratory holes. There may be ground conditions present on the site which have not been disclosed by this investigation, and which have therefore not been taken into account in this report.

The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that groundwater levels will vary owing to seasonal, tidal, weather, or other effects.

The risk assessment and opinions provided, inter alia, take into consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.