GeoAssist Limited

Civil, Environmental & Geotechnical

Client:
Renaker Build Ltd.
1st Floor, NQ Building
47 Bengal Street
Ancoats
Manchester
M4 6BB

Contractor:

Verification and Validation Report

Crown Street Phase 2 Tower C4, Manchester, Sitewide Earthworks & Building C4 Soils Verification

Unit 4
Sheffield Street
Heaton Norris
Stockport
Cheshire
SK4 1RU
Telephone : 0161 480 8885
e-mail : info@geoassist.co.uk

July 2023 Site Ref: 6129/VCV V1.00 VRTD

Client:
Renaker Build Ltd.
1st Floor, NQ Building
47 Bengal Street
Ancoats
Manchester
M4 6BB

Contractor:

Verification and Validation Report

1. Introduction 3
2. Description of the Site 4
2.1 Previous 4
2.2 Present Development 4
3. Background Information 5
3.1 History of the Site 5
3.2 Previous Investigations 5
4. Remediation 6
4.1 Methodology 6
4.2 Remediation Objectives 6
4.3 Verification Plan 6
5. Verification 7
5.1 Volumes of Soils Removed from Site. 7
5.2 Volumes of Imported Soils. 7
5.3 Chemical & Physical Testing to Confirm Compliance with Objectives 7
5.4 Ongoing Monitoring 7
6. Final Site Conditions 8

Appendices

A1. Site Plan
B1. Waste Transfer Notes, Licences & Permits
B2. Soil Import Notes
C1. Supplier Declared Soils Analysis EnviroLab
C2. Site Photographs Insitu soils testing July 2023 and Plan
C3. Imported Soils Analytical Test Results i2
C4. Assessment of Analytical Test Results
C5. Trial Pit Logs

Client:
Renaker Build Ltd.
1st Floor, NQ Building
47 Bengal Street
Ancoats
Manchester
M4 6BB

Contractor:

Verification and Validation Report

1. Introduction

This report has been produced in order to provide information to verify the efficacy of the minor remediation measures (imported landscaping soils) as detailed within the WSP Phase II environmental Assessment Report referenced 70059549-11515(3) and dated February 2020. The measures detailed in the WSP Phase II report were submitted under planning permission numbers 126668/FO/2020 for the erection of two 52-storey residential buildings (Use Class C3) each incorporating a podium accommodating residential amenity facilities and ground floor and first floor commercial units (Use Classes A1, A2, A3, or D1), private and public basement car parking, landscaping and a public park, servicing and access arrangements, highways improvements, and associated works. Outline planning permission for an educational facility (Use Class D1). The report presents the verification evidence for the earthworks measures implemented across the entire site area, as demarked by the redline on the plan in Appendix A, and the validation of soils imported to site as part of the landscaping scheme for building C4 as demarked by the blue line on the plan in Appendix A to this report. The evidence provided will demonstrate that the soft landscaping on plot C4 is suitable for the intended use.

The approximate grid reference for the centre of the site is 383166, 397253 and the total area of the site is approximately 9250 m^2. The area of the site is outlined with a red line on the site plan in Appendix A1.

2. Description of the Site

2.1 Previous

The approximate grid reference for the centre of the Site is 383166, 397253 and the total area of the application site is approximately 1.1ha. The area covered by the Phase II Ground Investigation is outlined with a red line on the Site plan in Appendix A1 and extends only to the built element of the proposal.

The site comprises a largely triangular area of land located between Silvercroft Street, Crown Street, and the Mancunian Way, located approximately 350m to the southwest of Manchester Deansgate Station in the Castlefield area of Manchester. The approximate centre of the site is located a National Grid Reference 383166, 397253.

The site was formerly used as a site compound for construction works on an adjacent development. However, previous to this, its established use was as a surface level car park. Recorded ground levels are between 32.5m and 33.3mAOD. Surfacing across the site comprised a mixture of tarmac, concrete and cobble setts and vegetation was limited to the southern boundary. The Site can be accessed from a slip road off the Mancunian Way or from Great Jackson Street, which has linkages across the City Centre.

2.2 Present Development

Two number residential tower blocks buildings, C1 & C2 to 21 (66m) and 51 (152.4m) storeys height respectively In summary, the development incorporates

- Erection of two 51-storey residential buildings (Use Class C3) incorporating a shared podium accommodating residential amenity facilities and ground floor commercial units (Use Class A1, A2, A3, & D1)
- Each building has separate private car and cycle parking within a three-storey basement.
- A three-storey basement public car park with access on to Silvercroft Street.
- A new public park.
- Landscaping and public realm works.
- A highways and servicing route.
- A single-form entry primary school (Use Class D1)

The three levels of basement car parking will cover the vast majority of the site area, necessitating the removal of existing soils to approximately 10-12m bgl.

3. Background Information

3.1 History of the Site

More Comprehensive information regarding the historical use of the site can be found in the Phase I report for the site undertaken by WSP and referenced 70059549-11451.

3.2 Previous Investigations

The following site investigation reports and advice notes are known to have been produced for this site and have been referenced where considered appropriate. A very brief description of the information contained within is also provided.

Author	Date	Ref	Title / description
WSP	2019	70059549-11451	Full Phase I Preliminary Contaminated Land Risk Assessment & Desk Based Study to inform intrusive works
WSP	February 2020	70059549-11515(3)	Combined Phase II Contaminated Land Risk Assessment & Remediation Plan.

4. Remediation

4.1 Methodology

A simple and controlled civil engineering removal of made ground as part of site preparation and enabling works. The final proposed scheme for the site involved the significant removal of near surface soils over the entire area of the site and replacement at a reduced level with standard construction materials such as crushed rock sub-base and waterproof concrete slabs, or hardstanding. This has removed any made ground and hence precludes any possibility of sources of contamination impacting receptors.

The remediation methodology pursued on this site follows a relatively simple engineering approach involving the removal of significant quantity of subsoils in order to form the basement carpark levels of the site. The earthworks phase of the construction has reduced the site levels to bedrock and removed the made ground. Moreover, the final landscape plan is constructed mainly of hardstanding with newly formed planters within concrete slabs utilising imported topsoil as a growth medium.

4.2 Remediation Objectives

The objectives of the remediation is to ensure that risks from isolated occurrences of elevated levels of Lead and and PAH identified in the WSP Phase II Ground Investigation in the upper made ground in localised pockets are removed and as a consequence the residual risks are reduced to an acceptable level for residential (without home Grown Produce) use following implementation of the final landscaping plan.

4.3 Verification Plan

The nature of the development has precluded the requirement for validation sampling once reduced levels were achieved, as the final scheme is constructed almost entirely of hardstanding with only very limited planting normally in raised planters or sunken beds in suspended concrete slabs. It is documented that approximately 71,625m^3 of made ground, natural drift deposits and bedrock have been removed from site as part of the site preparation and earthworks.

5. Verification

5.1 Volumes of Soils Removed from Site.

In total Circa 71,625m^3 of subsoils and bedrock have been removed from site by Licenced Subcontractor.

PP O'Connor Ltd.

Contractor	Disposal Facility	Volume m^3	Carriers Licence	Waste Code	EPR No for Disposal Facility
PP O'Connor	PP O'Connor Eccles new Road	71,625	CBDU101751	17-05-04	BB3001KN/V002
	Total	58500			

WTNs and the Waste Carriers Licence and Permits for disposal sites, where available, form appendix B1 to this report.

5.2 Volumes of Imported Soils.

At present only the final landscaping of the scheme for building C4 (outlined in blue in appendix A1) has been undertaken as construction and fit out is ongoing in other areas. Approximately 250m^3 of topsoil has been imported for the Landscaping and planters within the blueline area in the vicinity of building C4.

The soils were cleared for import based on the supplier declared certification (Appendix C1). Soils as imported were then sampled and tested. The Soils as imported were found to conform with the generic assessment criteria for residential without homegrown produce land use. Photographic evidence along with a plan of the soils sampling locations are presented in appendix C2 to this report. The Soils laboratory analytical results form appendix C3, the soils risk assessment forms appendix C4 to this report and the trial pit logs form appendix C5.

5.3 Chemical & Physical Testing to Confirm Compliance with Objectives

Other than the afore mentioned soil testing certification for confirmation that the soils are low risk no additional chemical or physical test results were required to be undertaken for the earthworks phase of the planning permission.

5.4 Ongoing Monitoring

There is no ongoing monitoring programme associated with any remedial measures for this site.

6. Final Site Conditions

At present the area surrounding building C4 is nearing completion. The final development landscape plan is included within appendix B2.

Evidence provided herein demonstrates that the made ground materials have been removed and suitable growth medium has been imported for the final landscaping scheme. Insitu testing of imported soils has demonstrated that the soils are suitable for incorporation into the development and that they do not pose a risk to site end users by means of substances within. The site has been developed in accordance with the planning requirements for contaminated land. A further report will follow as the second stage of Phase 2 of the development is completed and staged applications are made for partial discharge of conditions. Evidence of any works that are not presently fully complete at this time will be provided in a supplementary verification addendum.

The developer and all contractors employed by the developer were required to monitor for, and report any, evidence of contamination found during construction. None was encountered or reported.

The evidence presented herein demonstrates that all reasonably practicable steps as set out in the Remediation Plan have been taken to ensure the site is fit for residential purposes and the risk to the occupiers from ground contamination is low to negligible in all reasonably foreseeable circumstances.

Matthew Benson BSc
Geotechnical/Environmental Engineer

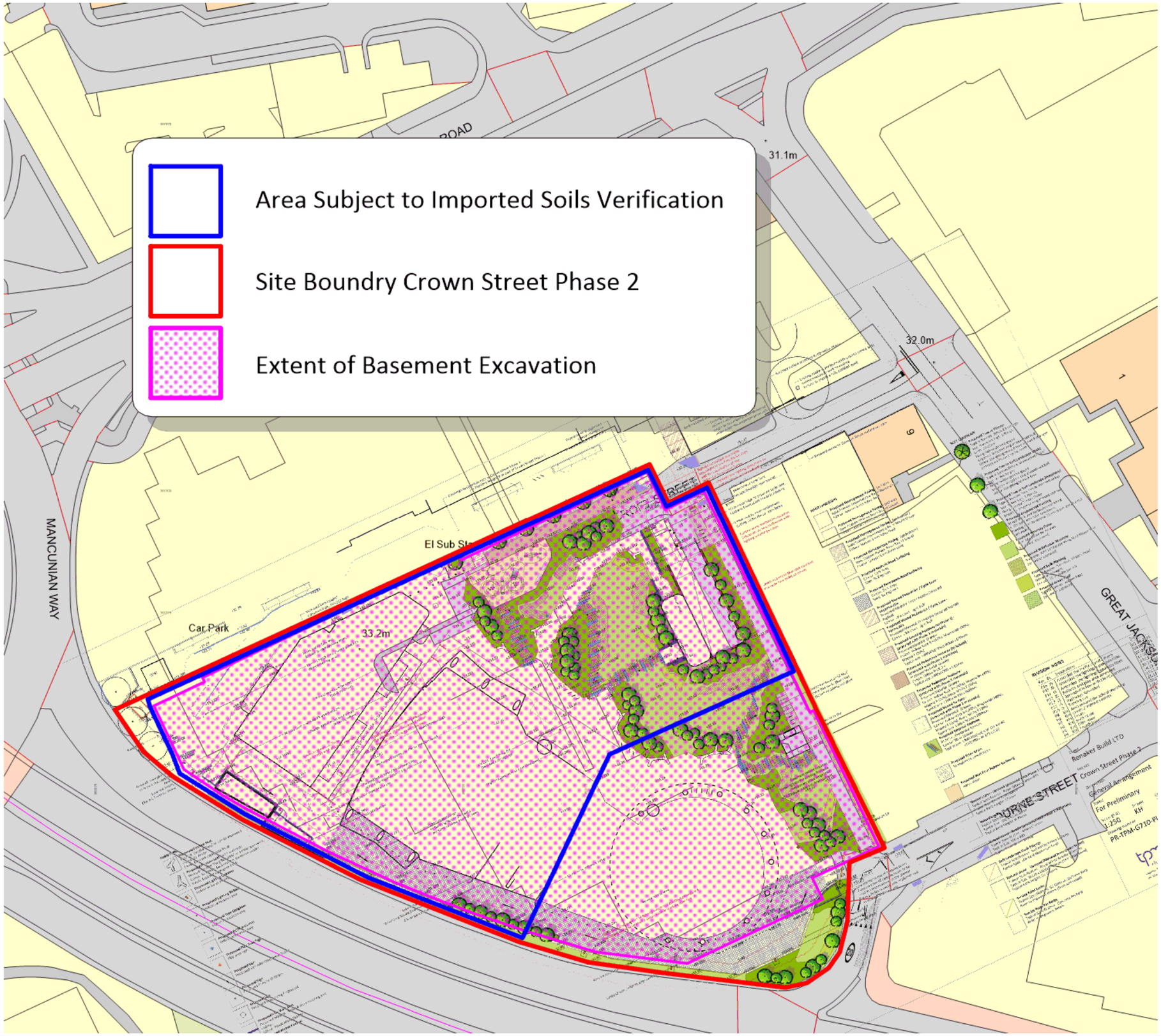
Mark Richardson MSc CEng MICE
Technical Director

This report has been prepared by GeoAssist Limited with all reasonable professional skill, care and diligence within the terms of the contract with Renaker Build Limited. The report is confidential to Renaker Build Limited, their/the named persons advisors and bankers, and GeoAssist Limited accepts no responsibility of whatever nature to third parties to whom this report may be divulged. GeoAssist Limited owns the copyright in this report. All rights are reserved, and unauthorised use is prohibited. Renaker Build Limited may use the report for their/her/his own purposes.
GeoAssist are not liable for any errors, omissions or facts contained within data provided by third parties.

Appendix A

A1 Site Plan

6129GALv1.00



GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

A1 Site Plan

Site Name	Crown Street Phase 2 Tower C4
Location	Manchester
GeoAssist Ref	6129VCV
Client	Renaker Build Limited
	Renaker Build Ltd. 1st Floor, NQ Building 47 Bengal Street Ancoats Manchester M4 6BB
Planning Consultant	
NGR (centre of site)	383166,397253
Production Date	July 2023
Survey Method	
Surveyor	Others
Status	Final v1.00
Base Survey	OSGB36

ace
consultancy engineering business environment

Appendix B

B1 Waste Transfer Notes, Licences & Permits

B2 Soil Import Notes

DUTY OF CARE: CONTROLLED WASTE TRANSFER NOTE

A — Description of the waste

1 Description of the waste being transferred:
BROWN, RED, ORANGE, GREY CLAYS, SANDS AND SUBSOILS

List of Waste Regulations code(s): 17 · 05 · 04

2 How is the waste contained? ☑ Loose ☐ Sacks ☐ Skip ☐ Drum ☐ Other (specify) 8W TIPPERS

3 How much waste? For example, number of sacks, weight. 300 loads

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): RENAKER BUILD LIMITED

2 Company name, address and postcode: RENAKER BUILD LIMITED

3 SIC code (2007): 82990 1st Floor, Nq Building 47 Bengal Street, Manchester, M4 6BB

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): PP O'CONNOR GROUP LIMITED

2 Company name, address and postcode: PP O'CONNOR GROUP LIMITED

3 SIC code (2007): 43120 The Exchange, 5 Bank Street, Bury, England, BL9 0DN

4 Which of the following are you? (tick one box)

A ☐ Waste collection authority

B ☑ Registered waste carrier (ref number): CBDU101751

C ☐ Exempt from carrier registration (give reason): .....

D — First transfer (holder to carrier)

1 Place of transfer: Crown Street, Zone 2 2 Date of transfer: 14/05/2021-14/10/2021

3 Time(s) of transfer: Manchester, M15 4SQ Contract No: .....
(for multiple transfers give date range)

4 Name and address of broker arranging transfer (if applicable):
.....

5 Holder's representatives

Name (print): .....

Signed: PP A J Ing

Carrier's representatives

Name (print): Tony Barry

Signed: A J Ing

E — Disposer / recoverer of the waste

1 Full name (print): P CASEY ENVIRO (Clockface) LTD

2 Company name, address and postcode:
P CASEY ENVIRO 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 — Second transfer (carrier to disposer / recoverer)

1 Place of transfer: Clockface Quarry, Saddleworth Rd 2 Date of transfer: 14/05/2021-14/10/2021

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):
N/A

5 Holder's representatives

Name (print): Tony Barry

Signed: A J Ing

Disposer's / Recoverer's representatives

Name (print): Adrian Ing

Signed: A J Ing

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: CONTROLLED WASTE TRANSFER NOTE

A — Description of the waste

1 Description of the waste being transferred:
BROWN, RED, ORANGE, GREY CLAYS, SANDS AND SUBSOILS

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 TIPPERS

3 How much waste? For example, number of sacks, weight. 300 loads

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): RENAKER BUILD LIMITED

2 Company name, address and postcode: RENAKER BUILD LIMITED

3 SIC code (2007): 8 2 9 9 0 1st Floor, Nq Building 47 Bengal Street, Manchester, M4 6BB

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): PP O'CONNOR GROUP LIMITED

2 Company name, address and postcode: PP O'CONNOR GROUP LIMITED

3 SIC code (2007): 4 3 1 2 0 The Exchange, 5 Bank Street, Bury, England, BL9 0DN

4 Which of the following are you? (tick one box)

A ☐ Waste collection authority

B ☑ Registered waste carrier (ref number): CBDU101751

C ☐ Exempt from carrier registration (give reason): .....

D — First transfer (holder to carrier)

1 Place of transfer: Crown Street, Zone 2, 2 Date of transfer: 27/05/2021-14/10/2021

3 Time(s) of transfer: Manchester, M15 4SQ Contract No: .....
(for multiple transfers give date range)

4 Name and address of broker arranging transfer (if applicable):
.....

5 Holder's representatives

Name (print): .....

Signed: .....

Carrier's representatives

Name (print): Tony Barry

Signed: .....

E — Disposer / recoverer of the waste

1 Full name (print): P CASEY ENVIRO (Clockface) LTD.

2 Company name, address and postcode:
P CASEY ENVIRO 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 — Second transfer (carrier to disposer / recoverer)

1 Place of transfer: Clockface Quarry, Saddleworth Rd 2 Date of transfer: 27/05/2021-14/10/2021

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):
N/A

5 Holder's representatives

Name (print): Tony Barry

Signed: .....

Disposer's / Recoverer's representatives

Name (print): Adrian Ing

Signed: A. J. Ing

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.

P.P. O'CONNOR
Committed To Excellence

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

E – FORM - 12
Issue 2.0 : 26/06/2018
Page 1 of 1
Review Annually

P.P. O'Connor |Woodrow Way |Thames Trading Estate| Irlam
Manchester|M446NN| Tel: 0161 776 0333|Fax: 0161 7760303

Ticket № 005756

Section A – Waste Description

A1 - How is the waste contained: ☐ Skip ☒ Tipper ☐ Other (specify).....

A2 - Quantity of waste: 30,000 Tonnes

A3 - EWC Codes:

Construction and Demolition Waste (tick box if present):			
170101	Concrete	170201	Wood
170102	Brick	170202	Glass
170103	Tiles and Ceramics	170203	Plastic
170107 X	Non-hazardous mixtures of Concrete, Brick, Tiles and Ceramics	170302	Bituminous Mixtures (coal tar free)
170504	Non-hazardous Soil and Stone	170407	Mixed Metals
170508	Non-hazardous Track Ballast	170411	Cables
	Others		

Section B- Waste Producer:

B1 – Name and Address of Company: P.P. O'connor, Trafford Park, M17HR.

B2 – SIC Code 2007; (Tick One Only):

41.20/1 X	Construction of Commercial Buildings	43.11	Demolition
41.20/2	Construction of Domestic Buildings	43.12	Demolition – Site Preparation
42.11	Construction of Roads and Motorways		Others
42.12	Construction of Railways		
42.13	Construction of Bridges and Tunnels		
42.91	Construction of Water Projects		
42.99	Construction of other Civil Engineering Projects N.E.C		

B3 – Name and Address of Site to collect from: C0394, Renolds, Crown Street.

B4 – Date of transfer from: 01-12-20 - 01-12-21.

B5 – I can 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;

Name (print) Preece **Sign** ..... **Date** 01-12-20.

Section C – Carrier of Waste:

C1 – Waste Carrier: P.P. O'Connor Group Ltd, The Exchange, 5 Bank Street, Bury BL9 0DN

C2 – Registration Number: CBDU101751

Name (print) I GREGORY. **Sign** ..... **Date** 01/12/20

Section D – Waste Disposer/Recycler:

D1 – I can confirm I have brought the waste to a permitted or exempt facility on behalf of the person named in section B

Name (print) I. GREGORY. **Sign** ..... **Date** 01/12/20

D2 – Name of Facility: ☒Permit EPR/BB3001kN 659 Eccles New Road, Salford M501DA ☐Other;

☐Permit EPR/AB3205FD Sharston Recycling Centre, Longley Lane, Sharston M224SS

Address of Site: .....

D3 – I acknowledge Receipt of the above waste on behalf of permit number: .....

Name (print) J Moss **Sign** ..... **Date** 01/12/20.

Holder Copy – White : Carrier Copy - Yellow : Disposer Copy – Pink

P.P. O'CONNOR
Committed To Excellence

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

E – FORM - 12
Issue 2.0 : 26/06/2018
Page 1 of 1
Review Annually

P.P. O'Connor |Woodrow Way |Thames Trading Estate| Irlam
Manchester|M446NN| Tel: 0161 776 0333|Fax: 0161 7760303

Ticket Nº 005755

Section A – Waste Description

A1 - How is the waste contained: ☐ Skip ☒ Tipper ☐ Other (specify).....

A2 - Quantity of waste: 21.000 Tonnes

A3 - EWC Codes:

Construction and Demolition Waste (tick box if present):				
170101		Concrete	170201	Wood
170102		Brick	170202	Glass
170103		Tiles and Ceramics	170203	Plastic
170107	X	Non-hazardous mixtures of Concrete, Brick, Tiles and Ceramics	170302	Bituminous Mixtures (coal tar free)
170504		Non-hazardous Soil and Stone	170407	Mixed Metals
170508		Non-hazardous Track Ballast	170411	Cables
		Others		

Section B- Waste Producer:

B1 – Name and Address of Company; P.P.O'connor, Trafford Park, M17 1NP.

B2 – SIC Code 2007; (Tick One Only):

41.20/1 X	Construction of Commercial Buildings	43.11	Demolition
41.20/2	Construction of Domestic Buildings	43.12	Demolition – Site Preparation
42.11	Construction of Roads and Motorways		Others
42.12	Construction of Railways		
42.13	Construction of Bridges and Tunnels		
42.91	Construction of Water Projects		
42.99	Construction of other Civil Engineering Projects N.E.C		

B3 – Name and Address of Site to collect from: C0394, Renaker, Town Street.

B4 – Date of transfer from: 01-12-20 - 01-12-21.

B5 – I can 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;

Name (print) ..... **Sign** ..... **Date** 01-12-20.

Section C – Carrier of Waste:

C1 – Waste Carrier: P.P. O'Connor Group Ltd, The Exchange, 5 Bank Street, Bury BL9 0DN

C2 – Registration Number: CBDU101751

Name (print) F. GREGORY. **Sign** ..... **Date** 01/12/-20

Section D – Waste Disposer/Recycler:

D1 – I can confirm I have brought the waste to a permitted or exempt facility on behalf of the person named in section B

Name (print) F. GREGORY **Sign** ..... **Date** 01/12/20.

D2 – Name of Facility: ☒ Permit EPR/BB3001kN 659 Eccles New Road, Salford M501DA ☐ Other;

☐ Permit EPR/AB3205FD Sharston Recycling Centre, Longley Lane, Sharston M224SS

Address of Site: .....

D3 – I acknowledge Receipt of the above waste on behalf of permit number: .....

Name (print) ..... **Sign** ..... **Date** 01/12/20.

Holder Copy – White : Carrier Copy - Yellow : Disposer Copy – Pink

P.P. O'CONNOR
Committed to Excellence

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

E – FORM - 12
Issue 2.0 : 26/06/2018
Page 1 of 1
Review Annually

P.P. O'Connor | Woodrow Way | Thames Trading Estate | Irlam
Manchester | M446NN | Tel: 0161 776 0333 | Fax: 0161 7760303

Ticket № 005962

Section A – Waste Description

A1 - How is the waste contained: ☐ Skip ☑ Tipper ☐ Other (specify).....

A2 - Quantity of waste: 3000 Tonnes

A3 - EWC Codes: GROUP 1 LANDFILL TAX QUALIFYING MATERIAL 2011

Construction and Demolition Waste (tick box if present):			
170101	Concrete	170201	Wood
170102	Brick	170202	Glass
170103	Tiles and Ceramics	170203	Plastic
170107	Non-hazardous mixtures of Concrete, Brick, Tiles and Ceramics	170302	Bituminous Mixtures (coal tar free)
170504	Non-hazardous ~~Soil and~~ Stone & SUBSOIL.	170407	Mixed Metals
170508	Non-hazardous Track Ballast	170411	Cables
	Others		

Section B- Waste Producer:

B1 – Name and Address of Company: PP O'CONNOR, 61 MOSLEY ROAD, TRAFFORD PARK, MANCHESTER, M17 1ET

B2 – SIC Code 2007; (Tick One Only):

41.20/1	Construction of Commercial Buildings	43.11	Demolition
41.20/2	Construction of Domestic Buildings	43.12 ✓	Demolition – Site Preparation
42.11	Construction of Roads and Motorways		Others
42.12	Construction of Railways		
42.13	Construction of Bridges and Tunnels		
42.91	Construction of Water Projects		
42.99	Construction of other Civil Engineering Projects N.E.C		

B3 – Name and Address of Site to collect from: RENAKER, CROWN STREET, MANCHESTER, M15 4AX

B4 – Date of transfer from: 13-05-2021 – 30-03-2022.

B5 – I can 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;

Name (print) H.V. BARRY **Sign** [signature] **Date** 12-05-2021

Section C – Carrier of Waste:

C1 – Waste Carrier: P.P. O'Connor Group Ltd, The Exchange, 5 Bank Street, Bury BL9 0DN

C2 – Registration Number: CBDU101751

Name (print) H.V. BARRY **Sign** [signature] **Date** 12-05-2021

Section D – Waste Disposer/Recycler:

D1 – I can confirm I have brought the waste to a permitted or exempt facility on behalf of the person named in section B

Name (print) H.V. BARRY **Sign** [signature] **Date** 12-05-2021.

D2 – Name of Facility: ☐Permit EPR/BB3001kN 659 Eccles New Road, Salford M501DA ☐Other;

☐Permit EPR/AB3205FD Sharston Recycling Centre, Longley Lane, Sharston M224SS

Address of Site: PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY, BL9 8QZ

D3 – I acknowledge Receipt of the above waste on behalf of permit number: .....

Name (print) P. BULL **Sign** [signature] **Date** 13/5/2021

Holder Copy – White : Carrier Copy - Yellow : Disposer Copy – Pink

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 212305

Date: 14/06/23

Customer: Four Seasons

Driver's Name: Klongfiew

Job Location: 8 Great Jackson St, M15

Vehicle Reg: YN18 KBD

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOPSOIL	Gross:	1 x	8W	Com	
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Osborne Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 241830

Date: 14/6/23

Customer: 4 Seasons

Driver's Name: GARY

Job Location:

Vehicle Reg: NK17CBA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
	Gross:	1 x 8m	1/Soil		
	Tare:				
	Net:		Delivered		

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 241832

Date: 14/6/23

Customer: 4 Seasons

Driver's Name: GARY

Job Location:

Vehicle Reg: NIC17CBA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
	Gross:	1 x 20	1/Soil		
	Tare:				
	Net:		Dried		

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 229133

Date: 9/6/23

Customer: 4 Seasons

Driver's Name: JOEL

Job Location: Manchester

Vehicle Reg: WU19 MTX

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1 x 8 WL Load			
	Tare:				
	Net:				

Daywork:	Hours Worked:		

Consignee Signature: [signature] Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note 3

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 241634

Date: 09-06-23

Customer: 4 SEASONS
RENAKER SITE

Driver's Name: NIGEL

Job Location: 8, GREAT JACKSON ST MANCHESTER R

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8w LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: P Ashton Time:

Print Name: P ASHTON

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

Collection / Delivery Note 4

No: 241635

Date: 09-06-23

Customer: 4 SEASONS

RENAKER SITE

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1X8W LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork:	Hours Worked:		

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note 2

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 241633

Date: 09-06-23

Customer: 4 SEASONS
RENAKER SITE

Driver's Name: NIGEL

Job Location: 8, GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8W LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork:	Hours Worked:		

Consignee Signature: P Ashton Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note 1

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 241632

Date: 09-06-23

Customer: 4 SEASONS
RENAKER SITE

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8w LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork:	Hours Worked:		
		ASHTON	

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 241803

Date: 09.06.23

Customer: 4 SEASONS

Driver's Name: JR.

Job Location: GREAT JACKSON STREET M/CR.

Vehicle Reg: NOK 17 LBA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1 x 8 wheel load.			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name: P ASHTON

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194557

Date: 01-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8 WICAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

2

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194558

Date: 01-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8w LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

3

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194559

Date: 01-06-22

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8w LOAD DELIVERED VIA CONCRETE N			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 4 194560

Date: 01-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8w LOAD DELIVERED			
	Tare:	VIA CONGLETON			
	Net:				

Daywork:	Hours Worked:		

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 240420

Date: 6/6/23

Customer: 4 Seasons

Driver's Name: GARY

Job Location:

Vehicle Reg: NIC17 LBN

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
	Gross:	1 x 8w	T/Soil		
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194577

Date: 05-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8W LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note 2

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194578

Date: 05-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1x8w LOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork:	Hours Worked:		

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note 3

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194579

Date: 05-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1X8W LOAD DELIVERED VIA			
	Tare:	CONGLETON			
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

4

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 194580

Date: 05-06-23

Customer: 4 SEASONS

Driver's Name: NIGEL

Job Location: 8 GREAT JACKSON ST MANCHESTER

Vehicle Reg: NK17 LBO

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
TOP SOIL	Gross:	1X8 WLOAD DELIVERED VIA CONGLETON			
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 229649

Date: 2.6.23

Customer: 4 SEASONS

Driver's Name: PAUL (HGV)

Job Location: 8 GT JACKSONS ST M/CR

Vehicle Reg: RK20 DZA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
T/SOIL	Gross:	1 x 8	LOAD DELIVERED		
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 229647

Date: 2.6.23

Customer: 4 SEASONS

Driver's Name: PAUL (MD)

Job Location: 8 GT JACKSON ST M/CR

Vehicle Reg: RK20 DZA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
T/SOIL	Gross:	1 x 8m	LOAD DELIVERED		
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 229643

Date: 2.6.23

Customer: 4 SEASONS

Driver's Name: PAUL (HOG).

Job Location: 8 GT JACKSON ST M/CR

Vehicle Reg: RK20 DZA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
T/SOIL	Gross:	1 X 8w LOAD DELIVERED			
	Tare:				
	Net:				

Daywork:	Hours Worked:		

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Cheshire Soils and Aggregates LTD

Collection / Delivery Note

Buyer and supplier of bulk topsoil

Suite 1, Unit 2, Edward Court, Altrincham Business Park,
George Richards Way, Altrincham, WA14 5GL
Tel: 07813 130188
Email: ciaran@cheshiresoils.co.uk
Web: www.cheshiresoils.co.uk

No: 229645

Date: 2.6.23

Customer: 4 SEASONS

Driver's Name: PAUL (HGV)

Job Location: 8 GT JACKSON ST M/CR

Vehicle Reg: RK20 DZA

Material:	Weight:	Tonnes:	Kg:	Tonnes (1000 kilos):	Metric:
T/SOIL	Gross:	1 x 8t	LOAD	DELIVERED	
	Tare:				
	Net:				

Daywork: Hours Worked:

Consignee Signature: Time:

Print Name:

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 circumstance of delivery must be made to the driver of the vehicle and confirmed in writing direct to the company immediately.

Appendix C

C1 Supplier Declared Soils Analysis EnviroLab
C2 Site Photographs Insitu soils testing July 2023 and Plan
C3 Imported Soils Analytical Test Results i2
C4 Assessment of Analytical Test Results
C5 Trial Pit Logs July 2023

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

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

17th June 2022
Our Ref: TOHA/22/7524/SS
Your Ref: PO00507115

Tarmac Topscape

Dear Sirs

Topsoil Analysis Report: Tarmac Topscape – Eaton Hall Topsoil

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

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

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

SAMPLE EXAMINATION

The sample was described as a dark greyish brown (Munsell Colour 10YR 4/2), dry, friable, slightly calcareous, SAND with a weakly developed, very fine to medium, granular structure*. The sample was slightly stony and contained a moderate proportion of organic fines and frequent 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.

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 *sand* texture class and the particle size distribution falls outside of the specified range indicated in *Figure 1* of *BS3882:2015*. However, further detailed particle size analysis revealed the sample to have a sufficiently narrow particle size distribution and a large proportion of sand falling into the *fine sand* (0.15-0.25mm) and *medium sand* (0.25-0.50mm) classes. This, along with the organic matter content of the soil, should offset the 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 8.2). 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 low, 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 µS/cm) given in *BS3882:2015 – Table 1*.

Organic Matter and Fertility Status

The sample was adequately 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 requirement to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the *residential with homegrown produce* land use in the Suitable For Use Levels (S4ULs) presented in *The LQM/CIEH S4ULs for Human Health Risk*

Tarmac Topscape

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, slightly calcareous, sand with a weakly developed structure and low stone content. The sample contained sufficient reserves of organic matter and all major plant nutrients. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided species with a wide pH tolerance or those known to prefer alkaline soil conditions are selected and the physical condition of the soil is satisfactory.

The topsoil was largely compliant with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil)*, with the exception of the elevated total sand content. On this occasion and in the context of the other results, this would be considered minor non-compliances.

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, respreading, 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.

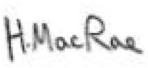
Further details on soil handling are provided in Annex A of *BS3882:2015*.

Further guidance on the management, preparation and handling of soils is provided in the DEFRA publication *Construction code of practice for the sustainable use of soils on construction sites*, 2009.

Tarmac Topscape

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

Matthew Heins
BSc (Hons) MISoilSci
Senior Soil Scientist

For & on behalf of Tim O'Hare Associates LLP

Tarmac Topscape

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Client:	Tarmac Topscape
Project:	Topscape Topsoil (Eaton Hall)
Job:	Topsoil Analysis - 8/8/082 2018
Date:	17/08/2022
Job Ref No:	TOHA/22/TEaHS

Sample Reference			Eaton Hall Topsoil
		Accreditation	
Clay (<0.002mm)	%	UKAS	8
Silt (0.002-0.063mm)	%	UKAS	3
Very Fine Sand (0.053-0.125mm)	%	UKAS	5
Fine Sand (0.125-0.25mm)	%	UKAS	29
Medium Sand (0.25-0.50mm)	%	UKAS	46
Coarse Sand (0.50-1.0mm)	%	UKAS	9
Very Coarse Sand (1.0-2.0mm)	%	UKAS	1
Total Sand (0.063-2.0mm)	%	UKAS	90
Texture Class (UK Classification)	--	UKAS	S
Stones (2-20mm)	% DW	SCP	1
Stones (20-60mm)	% DW	SCP	1
Stones (>60mm)	% DW	SCP	0
pH Value (1:2.5 water extract)	units	UKAS	8.7
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS	940
Electrical Conductivity (1:2 CaSO4 extract)	uS/cm	UKAS	3018
Exchangeable Sodium Percentage	%	UKAS	7
Organic Matter (LOI)	%	UKAS	5.5
Total Nitrogen (Dumas)	%	UKAS	0.17
C : N Ratio	ratio	UKAS	12
Extractable Phosphorus	mg/l	UKAS	68
Extractable Potassium	mg/l	UKAS	803
Extractable Magnesium	mg/l	UKAS	130
Total Arsenic (As)	mg/kg	MCERTS	9.2
Total Cadmium (Cd)	mg/kg	MCERTS	< 0.3
Total Chromium (Cr)	mg/kg	MCERTS	8
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS	< 1.8
Total Copper (Cu)	mg/kg	MCERTS	15
Total Lead (Pb)	mg/kg	MCERTS	22
Total Mercury (Hg)	mg/kg	MCERTS	< 0.3
Total Nickel (Ni)	mg/kg	MCERTS	4
Total Selenium (Se)	mg/kg	MCERTS	< 1.8
Total Zinc (Zn)	mg/kg	MCERTS	58
Water Soluble Boron (B)	mg/kg	MCERTS	0.6
Total Cyanide (CN)	mg/kg	MCERTS	< 1.8
Total (mono) Phenols	mg/kg	MCERTS	< 1.8
Naphthalene	mg/kg	MCERTS	< 0.05
Acenaphthylene	mg/kg	MCERTS	< 0.05
Acenaphthene	mg/kg	MCERTS	< 0.05
Fluorene	mg/kg	MCERTS	< 0.05
Phenanthrene	mg/kg	MCERTS	< 0.05
Anthracene	mg/kg	MCERTS	< 0.05
Fluoranthene	mg/kg	MCERTS	< 0.05
Pyrene	mg/kg	MCERTS	< 0.05
Benzo(a)anthracene	mg/kg	MCERTS	< 0.05
Chrysene	mg/kg	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	MCERTS	< 0.05
Benzo(g,h,i)perylene	mg/kg	MCERTS	< 0.05
Total PAHs (sum USEPA16)	mg/kg	MCERTS	< 0.80
Aliphatic TPH >C6 - C8	mg/kg	MCERTS	< 0.001
Aliphatic TPH >C8 - C8	mg/kg	MCERTS	< 0.001
Aliphatic TPH >C8 - C10	mg/kg	MCERTS	< 0.001
Aliphatic TPH >C10 - C12	mg/kg	MCERTS	< 1.0
Aliphatic TPH >C12 - C16	mg/kg	MCERTS	< 1.0
Aliphatic TPH >C16 - C21	mg/kg	MCERTS	< 8.0
Aliphatic TPH >C21 - C35	mg/kg	MCERTS	< 8.0
Aliphatic TPH (C6 - C35)	mg/kg	MCERTS	< 10
Aromatic TPH >C6 - C7	mg/kg	MCERTS	0.063
Aromatic TPH >C7 - C8	mg/kg	MCERTS	0.004
Aromatic TPH >C8 - C10	mg/kg	MCERTS	< 1
Aromatic TPH >C10 - C12	mg/kg	MCERTS	< 1.0
Aromatic TPH >C12 - C16	mg/kg	MCERTS	< 1.0
Aromatic TPH >C16 - C21	mg/kg	MCERTS	< 10
Aromatic TPH >C21 - C35	mg/kg	MCERTS	< 10
Aromatic TPH (C6 - C35)	mg/kg	MCERTS	< 10
Benzene	mg/kg	MCERTS	0.024
Toluene	mg/kg	MCERTS	0.029
EthylBenzene	mg/kg	MCERTS	0.1
p-xylene	mg/kg	MCERTS	0.17
o/m-xylene	mg/kg	MCERTS	0.24
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	MCERTS	< 0.001
Asbestos	in/out	isoi 17025	Not detected

S = SAND

Visual Examination

The sample was described as a dark greyish brown (Munsell Colour 10YR 4/2), dry, friable, slightly calcareous, SAND with a weakly developed, very fine to medium, granular structure. The sample was very slightly stony and contained a moderate proportion of organic fines and frequent woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

Harriet MacRae
BSc MSc
Graduate Soil Scientist

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.

Topscape

6129GALv1.00



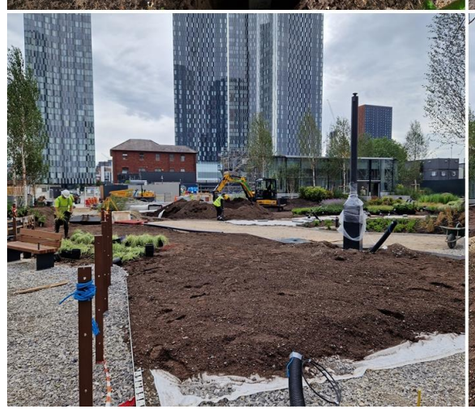















GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

C2 Photographs

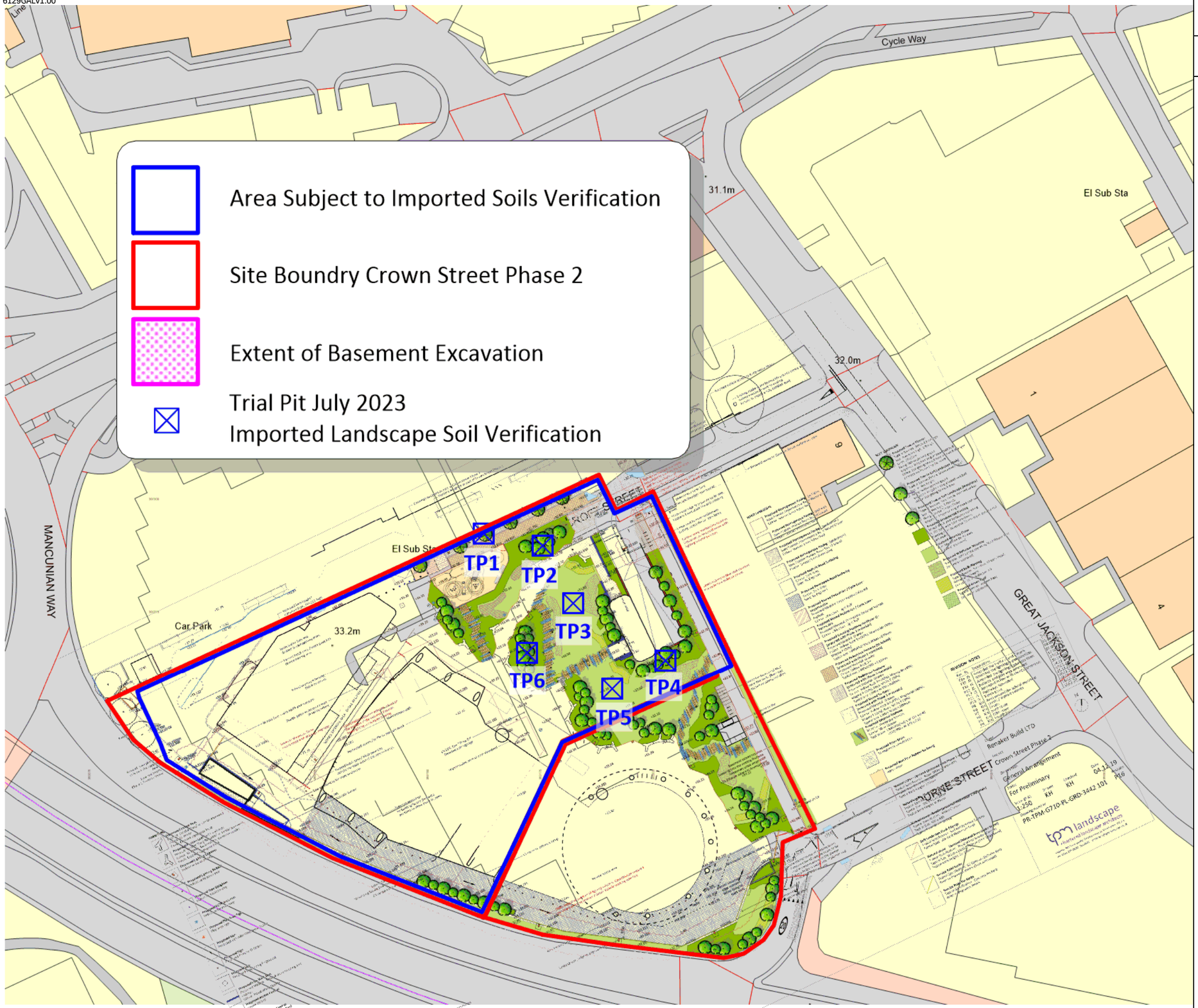
Site Name	Crown Street Phase 2 Tower C4
Location	Manchester
GeoAssist Ref	6129VCV
Client	Renaker Build Limited
	Renaker Build Ltd. 1st Floor, NQ Building 47 Bengal Street Ancoats Manchester M4 6BB
Planning Consultant	
NGR (centre of site)	383166,397253
Production Date	July 2023
Survey Method	Photographic Record
Surveyor	Others
Status	Final v1.00
Base Survey	na

Photograph Subject

TP1	TP1	TP2	TP2
TP3	TP3	TP3	TP4
TP4	TP5	TP5	TP6
General Shot	General Shot	General Shot	General Shot

ace
consultancy engineering business environment

6129GALv1.00



GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

C2 Photograph Plan

Site Name	Crown Street Phase 2 Tower C4
Location	Manchester
GeoAssist Ref	6129VCV
Client	Renaker Build Limited
	Renaker Build Ltd. 1st Floor, NQ Building 47 Bengal Street Ancoats Manchester M4 6BB
Planning Consultant	
NGR (centre of site)	383166,397253
Production Date	July 2023
Survey Method	Photographic Record
Surveyor	Others
Status	Final v1.00
Base Survey	na

ace
consultancy engineering business environment

Soils Risk Assessment

Site Reference: 6129 VCV
Project Site: Crown Street Phase 2 Tower C4
Project Location: Manchester
Client: Renaker Build Limited

Principal Soil Type		Made Ground	Made Ground	Nat Clay	Made Ground	Nat Sand	Made Ground	Made Ground	Made Ground	Made Ground	Nat Clay	Made Ground	Nat Clay
i2 Reference	0	TP1	TP1	TP2	TP2	TP3	TP3	TP4	TP4	TP5	TP5	TP6	TP6
Customer Sample Ref:	C4SL / S4UL	C1 - 0.20	C2 - 0.50	C1 - 0.20	C2 - 0.50	C1 - 0.20	C2 - 0.50	C1 - 0.20	C2 - 0.50	C1 - 0.20	C2 - 0.50	C1 - 0.20	C2 - 0.50
	SOM 1% GAC	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023
Determinand	LQM II												
Arsenic	27	4.6	4.3	9.8	8.5	6.5	4.3	4.7	4.6	4.3	1.5	4.4	4.4
Boron (water-soluble)	290	0.3	0.3	0.9	0.2	0.4	0.2	0.3	0.3	0.4	0.2	0.4	0.2
Cadmium	22	0.2	0.2	0.6	0.5	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2
Chromium*	910	7.8	7.1	19	17	8.9	6.6	6.8	8.7	7.7	5.2	7.6	7.9
Chromium VI	21	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	2400	14	14	47	49	25	17	19	14	15	7.9	14	28
Cyanide(Total)	-	1	1	1	1	1	1	1	1	1	1	1	1
Cyanide(free)**	34	1	1	1	1	1	1	1	1	1	1	1	1
Lead	200	23	22	67	63	44	26	23	18	20	10	20	20
Mercury	1.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Nickel	130	5.4	5.3	14	13	8	5.3	6.4	6.6	5.9	2.3	5.3	5.8
pH	-	7.7	7.7	8.5	8.9	7.5	7.4	7.4	7.5	7.7	8.7	6.5	6.5
Phenols(Mono)	1100	1	1	1	1	1	1	1	1	1	1	1	1
Selenium	250	1	1	1	1	1	1	1	1	1	1	1	1
SO4(Total)	-	0.02	0.024	0.096	0.097	0.064	0.031	0.019	0.019	0.024	0.024	0.027	0.035
Sulphide	-	1	1	8.8	5.6	1	1	1	1	1	9.7	1	1
Sulphur(Free)	-	0.025	0.027	0.053	0.06	0.049	0.028	0.027	0.024	0.028	0.022	0.027	0.026
Thiocyanate	-	5	5	5	5	5	5	5	5	5	5	5	5
Zinc	3700	27	26	160	91	51	29	33	26	31	19	25	26
Acenaphthene	1100	0.05	0.05	0.15	0.14	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Acenaphthylene	920	0.05	0.05	0.1	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Anthracene	11000	0.05	0.05	0.45	0.4	0.16	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(a)Anthracene	-	0.05	0.05	1.8	1.6	0.59	0.09	0.05	0.05	0.05	0.05	0.06	0.05
Benzo(a)Pyrene SM	5	0.05	0.06	1.8	1.8	0.61	0.12	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(b)Fluoranthene	-	0.08	0.08	2.1	2	0.72	0.13	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(ghi)Perylene	-	0.05	0.05	1.3	1.1	0.34	0.08	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(k)Fluoranthene	-	0.05	0.05	0.88	0.94	0.29	0.08	0.05	0.05	0.05	0.05	0.05	0.05
Chrysene	-	0.05	0.05	1.7	1.7	0.59	0.11	0.05	0.05	0.05	0.05	0.05	0.05
Dibenzo(ah)Anthracene	-	0.05	0.05	0.29	0.21	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Fluoranthene	890	0.08	0.11	3.8	3.9	1.4	0.23	0.07	0.05	0.05	0.05	0.11	0.05
Fluorene	860	0.05	0.05	0.13	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Indeno(123-cd)Pyrene	-	0.05	0.05	1.2	1	0.34	0.07	0.05	0.05	0.05	0.05	0.05	0.05
Naphthalene	13	0.05	0.05	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Phenanthrene	440	0.05	0.05	1.2	1.4	0.6	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Pyrene	2000	0.11	0.14	3.7	3.7	1.3	0.24	0.09	0.05	0.05	0.05	0.1	0.05
PAH(total)	-	0.8	0.8	20.8	20	6.97	1.15	0.8	0.8	0.8	0.8	0.8	0.8

All Units mg/kg unless otherwise stated Indicates Exceedance of Applicable Level

*Criteria Assumes Chromium III

**Criteria is derrived considering acute effects on 1-2yo Female Receptor ingesting a single dose of 3g of soil

**Criteria is derrived considering Total TPH (C10 to C35) is formed entirley of a 50:50 Aliphatic and Aromatic Split C8-C10 range

Basis of Assessment Criteria:	EA 2005 WAC (Human Health Value)	C4SL
	LQM S4UL	Atrisk 06

Copyright 2022 **GeoAssist Ltd**

Matthew Benson
GeoAssist Ltd☐
Unit 4, Sheffield Street
Heaton Norris
Stockport
Cheshire
SK4 1RU

e: info@geoassist.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 : 23-44345

Project / Site name:	Crown Street Phase 2 Area A, Manchester	**Samples received on:**	11/07/2023
Your job number:	6129 VCV	**Samples instructed on/ Analysis started on:**	11/07/2023
Your order number:	2230709	**Analysis completed by:**	19/07/2023
Report Issue Number:	1	**Report issued on:**	19/07/2023
Samples Analysed:	12 soil samples		

Signed:

Anna Goc
PL Head of 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.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester
Your Order No: 2230709

Lab Sample Number				2744164	2744165	2744166	2744167	2744168
Sample Reference				TP1	TP1	TP2	TP2	TP3
Sample Number				C1	C2	C1	C2	C1
Depth (m)				0.20	0.50	0.20	0.50	0.20
Date Sampled				10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	17	12	12	12
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	0.4
General Inorganics								
pH Automated	pH Units	N/A	MCERTS	7.7	7.7	8.5	8.9	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO4	%	0.005	MCERTS	0.02	0.024	0.096	0.097	0.064
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	8.8	5.6	< 1.0
Total Sulphur	%	0.005	MCERTS	0.025	0.027	0.053	0.06	0.049
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.1	0.07	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.15	0.14	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.13	0.09	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.2	1.4	0.6
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.45	0.4	0.16
Fluoranthene	mg/kg	0.05	MCERTS	0.08	0.11	3.8	3.9	1.4
Pyrene	mg/kg	0.05	MCERTS	0.11	0.14	3.7	3.7	1.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.05	1.8	1.6	0.59
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.7	1.7	0.59
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.08	0.08	2.1	2	0.72
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.88	0.94	0.29
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.06	1.8	1.8	0.61
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.2	1	0.34
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.29	0.21	0.08
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.3	1.1	0.34
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	20.8	20	6.97

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester
Your Order No: 2230709

Lab Sample Number				2744164	2744165	2744166	2744167	2744168
Sample Reference				TP1	TP1	TP2	TP2	TP3
Sample Number				C1	C2	C1	C2	C1
Depth (m)				0.20	0.50	0.20	0.50	0.20
Date Sampled				10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.6	4.3	9.8	8.5	6.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	35	34	150	140	78
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.25	0.24	0.71	0.62	0.39
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.3	0.9	0.2	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	< 0.2	0.6	0.5	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	7.8	7.1	19	17	8.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	14	47	49	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	22	67	63	44
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	5.4	5.3	14	13	8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	9.9	9.1	20	17	12
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	27	26	160	91	51

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester
Your Order No: 2230709

Lab Sample Number				2744169	2744170	2744171	2744172	2744173
Sample Reference				TP3	TP4	TP4	TP5	TP5
Sample Number				C2	C1	C2	C1	C2
Depth (m)				0.50	0.20	0.50	0.20	0.50
Date Sampled				10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	72
Moisture Content	%	0.01	NONE	12	12	13	9.3	1.7
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	0.4
General Inorganics								
pH Automated	pH Units	N/A	MCERTS	7.1	7.1	7.5	7.7	8.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Sulphate as SO4	%	0.005	MCERTS	0.031	0.019	0.019	0.024	0.024
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	9.7
Total Sulphur	%	0.005	MCERTS	0.028	0.027	0.024	0.028	0.022
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.23	0.07	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.24	0.09	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.09	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.13	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.08	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.08	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.15	< 0.80	< 0.80	< 0.80	< 0.80

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester
Your Order No: 2230709

Lab Sample Number				2744169	2744170	2744171	2744172	2744173
Sample Reference				TP3	TP4	TP4	TP5	TP5
Sample Number				C2	C1	C2	C1	C2
Depth (m)				0.50	0.20	0.50	0.20	0.50
Date Sampled				10/07/2023	10/07/2023	10/07/2023	10/07/2023	10/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.3	4.7	4.6	4.3	1.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	41	35	33	35	23
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.25	0.25	0.27	0.26	0.08
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	0.3	0.3	0.4	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	< 0.2	0.4
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	6.6	6.8	8.7	7.7	5.2
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	19	14	15	7.9
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	23	18	20	10
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	5.3	6.4	6.6	5.9	2.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	9	9.4	11	9.2	4.2
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	29	33	26	31	19

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester
Your Order No: 2230709

Lab Sample Number				2744174	2744175
Sample Reference				TP6	TP6
Sample Number				C1	C2
Depth (m)				0.20	0.50
Date Sampled				10/07/2023	10/07/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15
Total mass of sample received	kg	0.001	NONE	0.4	0.4
General Inorganics					
pH Automated	pH Units	N/A	MCERTS	6.5	6.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0
Total Sulphate as SO4	%	0.005	MCERTS	0.027	0.035
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphur	%	0.005	MCERTS	0.027	0.026
Total Phenols					
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.11	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.1	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.06	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester
Your Order No: 2230709

Lab Sample Number				2744174	2744175
Sample Reference				TP6	TP6
Sample Number				C1	C2
Depth (m)				0.20	0.50
Date Sampled				10/07/2023	10/07/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.4	4.4
Barium (aqua regia extractable)	mg/kg	1	MCERTS	32	33
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.25	0.27
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	7.6	7.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	5.3	5.8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	9.4	9.8
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	25	26

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester

* 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 *
2744164	TP1	C1	0.2	Brown loam and sand.
2744165	TP1	C2	0.5	Brown sandy clay with vegetation.
2744166	TP2	C1	0.2	Brown sand with gravel.
2744167	TP2	C2	0.5	Brown sand with gravel.
2744168	TP3	C1	0.2	Brown sand with gravel.
2744169	TP3	C2	0.5	Brown sand with gravel.
2744170	TP4	C1	0.2	Brown sand with gravel.
2744171	TP4	C2	0.5	Brown sand with gravel.
2744172	TP5	C1	0.2	Brown sand with gravel.
2744173	TP5	C2	0.5	Brown sand with gravel and stones.
2744174	TP6	C1	0.2	Brown sand with gravel and vegetation.
2744175	TP6	C2	0.5	Brown sand with gravel and vegetation.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 23-44345
Project / Site name: Crown Street Phase 2 Area A, Manchester

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer).	In-house method	L082-PL	D	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
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

GeoAssist Limited

Exploratory Hole Record Sheet

Ref: TP1

Sheet: 1

Consultant: 0

Client: Renaker Build Limited

Project: Crown Street Phase 2 Tower C4

Location: Manchester

Equipment: Excavation by hand equipment

Casing Dia. (mm) Depth (m)

Ground Level: m.AOD

Co-ordinates: Easting: (m) Northing: (m)

Dates: 10/07/2023 to 10/07/2023

Drilling Foreman: M Walton

Engineer/Geologist: M Benson

STRATUM DESCRIPTION	Depth (Thick) (m)	Reduced Level (mAOD)	Strata Legend/ Standpipe Backfill	Samples/Tests: Depth (m) from	to	Sample Type/No	Blow Count N/(U)	Field Records
0 Dark brown TOPSOIL	(0.65)			0.20	0.30	C1		10/07/2023: On completion of exploratory hole at 0.65m. Standing water level Nil. Exploratory hole backfilled with arisings and reinstated.
0.5				0.50	0.60	C2		
0.65								
Exploratory Hole complete at 0.65m								
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5								
5								

Remarks:

The groundwater conditions entered on the exploratory hole logs are those observed at the time of the fieldwork operations and the water level may not have reached equilibrium with the surrounding water level prior to the record being taken.
Standing groundwater levels will be subject to seasonal variation or changes in local drainage conditions and could be higher at certain times of the year particularly after periods of heavy rainfall.

Logged: M Benson
Date: 10/07/2023
Checked: M Richardson
Date: 11/07/2023
Site Ref: 6129/VCV
Scale 1:25

GeoAssist Limited

Exploratory Hole Record Sheet

Ref: TP2

Sheet: 1

Consultant:
0

Client:
Renaker Build Limited

Project: Crown Street Phase 2 Tower C4

Location: Manchester

Equipment:
Excavation by hand equipment

Casing Dia. (mm) Depth (m)

Ground Level: m.AOD

Co-ordinates: Easting: (m)
Northing: (m)

Dates: 10/07/2023 to 10/07/2023

Drilling Foreman: M Walton

Engineer/Geologist: M Benson

STRATUM DESCRIPTION

Depth (Thick) (m)	Reduced Level (mAOD)	Strata Legend/ Standpipe Backfill	Samples/Tests Depth (m) from	to	Sample Type/No	Blow Count N/(U)	Field Records
0 Dark brown TOPSOIL							
(0.60)			0.20	0.30	C1		
0.5 0.60			0.50	0.60	C2		10/07/2023: On completion of exploratory hole at 0.60m. Standing water level Nil. Exploratory hole backfilled with arisings and reinstated.
Exploratory Hole complete at 0.60m							

1 1.5 2 2.5 3 3.5 4 4.5 5

Remarks:

The groundwater conditions entered on the exploratory hole logs are those observed at the time of the fieldwork operations and the water level may not have reached equilibrium with the surrounding water level prior to the record being taken.
Standing groundwater levels will be subject to seasonal variation or changes in local drainage conditions and could be higher at certain times of the year particularly after periods of heavy rainfall.

Logged: M Benson
Date: 10/07/2023
Checked: M Richardson
Date: 11/07/2023
Site Ref: 6129/VCV
Scale 1:25

GeoAssist Limited

Exploratory Hole Record Sheet

Ref: TP3

Sheet: 1

Consultant: 0

Client: Renaker Build Limited

Project: Crown Street Phase 2 Tower C4

Location: Manchester

Equipment: Excavation by hand equipment

Casing Dia. (mm) Depth (m)

Ground Level: m.AOD

Co-ordinates: Easting: (m) Northing: (m)

Dates: 10/07/2023 to 10/07/2023

Drilling Foreman: M Walton

Engineer/Geologist: M Benson

STRATUM DESCRIPTION	Depth (Thick) (m)	Reduced Level (mAOD)	Strata Legend/ Standpipe Backfill	Samples/Tests: Depth (m) from	to	Sample Type/No	Blow Count N/(U)	Field Records
0 Dark brown TOPSOIL	(0.70)			0.20	0.30	C1		10/07/2023: On completion of exploratory hole at 0.70m. Standing water level Nil. Exploratory hole backfilled with arisings and reinstated.
0.5				0.50	0.60	C2		
0.70								
Exploratory Hole complete at 0.70m								
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5								
5								

Remarks:

The groundwater conditions entered on the exploratory hole logs are those observed at the time of the fieldwork operations and the water level may not have reached equilibrium with the surrounding water level prior to the record being taken.
Standing groundwater levels will be subject to seasonal variation or changes in local drainage conditions and could be higher at certain times of the year particularly after periods of heavy rainfall.

Logged: M Benson
Date: 10/07/2023
Checked: M Richardson
Date: 11/07/2023
Site Ref: 6129/VCV
Scale 1:25

GeoAssist Limited

Exploratory Hole Record Sheet

Ref: TP4

Sheet: 1

Consultant:
0

Client:
Renaker Build Limited

Project: Crown Street Phase 2 Tower C4

Location: Manchester

Equipment:
Excavation by hand equipment

Casing Dia. (mm) Depth (m)

Ground Level: m.AOD

Co-ordinates: Easting: (m)
Northing: (m)

Dates: 10/07/2023 to 10/07/2023

Drilling Foreman: M Walton

Engineer/Geologist: M Benson

STRATUM DESCRIPTION	Depth (Thick) (m)	Reduced Level (mAOD)	Strata Legend/ Standpipe Backfill	Samples/Tests: Depth (m) from	to	Sample Type/No	Blow Count N/(U)	Field Records
0 Dark brown TOPSOIL	(0.60)			0.20	0.30	C1		10/07/2023: On completion of exploratory hole at 0.65m. Standing water level Nil. Exploratory hole backfilled with arisings and reinstated.
0.5	0.60			0.50	0.60	C2		
Exploratory Hole complete at 0.60m								
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5								
5								

Remarks:

The groundwater conditions entered on the exploratory hole logs are those observed at the time of the fieldwork operations and the water level may not have reached equilibrium with the surrounding water level prior to the record being taken.
Standing groundwater levels will be subject to seasonal variation or changes in local drainage conditions and could be higher at certain times of the year particularly after periods of heavy rainfall.

Logged: M Benson
Date: 10/07/2023
Checked: M Richardson
Date: 11/07/2023
Site Ref: 6129/VCV
Scale 1:25

GeoAssist Limited

Exploratory Hole Record Sheet

Ref: TP5

Sheet: 1

Consultant:
0

Client:
Renaker Build Limited

Project: Crown Street Phase 2 Tower C4

Location: Manchester

Equipment:
Excavation by hand equipment

Casing Dia. (mm) Depth (m)

Ground Level: m.AOD

Co-ordinates: Easting: (m)
Northing: (m)

Dates: 10/07/2023 to 10/07/2023

Drilling Foreman: M Walton

Engineer/Geologist: M Benson

STRATUM DESCRIPTION

STRATUM DESCRIPTION	Depth (Thick) (m)	Reduced Level (mAOD)	Strata Legend/ Standpipe Backfill	Samples/Tests Depth (m) from	to	Sample Type/No	Blow Count N/(U)	Field Records
0 Dark brown sandy TOPSOIL with membrane at base - MADE GROUND	(0.40)			0.20	0.30	C1		
				0.20	0.30	C1		
	0.40							
0.5 Light grey sandy gravel - MADE GROUND				0.50	0.60	C2		10/07/2023: On completion of exploratory hole at 0.65m. Standing water level Nil. Exploratory hole backfilled with arisings and reinstated.
				0.50	0.60	C2		
	0.60							
Exploratory Hole complete at 0.60m								
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5								
5								

Remarks:

The groundwater conditions entered on the exploratory hole logs are those observed at the time of the fieldwork operations and the water level may not have reached equilibrium with the surrounding water level prior to the record being taken.
Standing groundwater levels will be subject to seasonal variation or changes in local drainage conditions and could be higher at certain times of the year particularly after periods of heavy rainfall.

Logged: M Benson
Date: 10/07/2023
Checked: M Richardson
Date: 11/07/2023
Site Ref: 6129/VCV
Scale 1:25

GeoAssist Limited

Exploratory Hole Record Sheet

Ref: TP6

Sheet: 1

Consultant:
0

Client:
Renaker Build Limited

Project: Crown Street Phase 2 Tower C4

Location: Manchester

Equipment:
Excavation by hand equipment

Casing Dia. (mm) Depth (m)

Ground Level: m.AOD

Co-ordinates: Easting: (m)
Northing: (m)

Dates: 10/07/2023 to 10/07/2023

Drilling Foreman: M Walton

Engineer/Geologist: M Benson

STRATUM DESCRIPTION	Depth (Thick) (m)	Reduced Level (mAOD)	Strata Legend/ Standpipe Backfill	Samples/Tests: Depth (m) from to	Samples/Tests: Sample Type/No	Samples/Tests: Blow Count N/(U)	Field Records
0 Dark brown TOPSOIL	(0.60)						10/07/2023: On completion of exploratory hole at 0.65m. Standing water level Nil. Exploratory hole backfilled with arisings and reinstated.
0.5	0.60						
Exploratory Hole complete at 0.60m							
1							
1.5							
2							
2.5							
3							
3.5							
4							
4.5							
5							

Remarks:

The groundwater conditions entered on the exploratory hole logs are those observed at the time of the fieldwork operations and the water level may not have reached equilibrium with the surrounding water level prior to the record being taken.
Standing groundwater levels will be subject to seasonal variation or changes in local drainage conditions and could be higher at certain times of the year particularly after periods of heavy rainfall.

Logged: M Benson
Date: 10/07/2023
Checked: M Richardson
Date: 11/07/2023
Site Ref: 6129/VCV
Scale 1:25