



Verification of Remediation Works:

Land at Manor Street, Huddersfield

May 2024

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Verification of Remediation Works:
Manor Street, Huddersfield

Document Control

Client: Ramm Construction

Job Number: C0564

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1.0 Introduction

Chevin Geoenviron Associates Ltd (CGA) were commissioned by Ramm Construction on the 24th April 2024 to validate remediation work in order to produce a Verification Report for land at Manor Street, Huddersfield, HG4 6NW.

The purpose of this report is to provide factual and interpretative information required to comply with the requirements of a Phase 4 Verification Report of land contamination. The scope of the study is as follows:

- To provide general information on the site such as location;
- To summarise remediation methods;
- To summarise validation methods;
- To compare the validation chemical analysis with generic assessment criteria;
- Discuss the findings and provide lines of evidence;
- Supply supporting information maps, plans, photographs and waste disposal documentation.

1.1 Terms and Conditions

This report has been prepared for Ramm Construction in support of a planning application relating to the proposed development of a detached apartment block.

CGA accept no liability for any adverse geotechnical or environmental impacts on the development that result from a review of third party information. Similarly, CGA is not liable for any adverse effects that arise as a result of conditions that exist on land adjacent to the subject site.

1.2 Sources of information

The sources of information used to compile this report are detailed below;

- Chevin Geoenviron Associates Ltd, 17th August 2023, Land at Manor Street, Huddersfield Remediation Strategy: Report Reference C0564, issue 01.
- i2 Analytical Ltd, 6th May 2024. Laboratory Analysis report 24-016837 Manor Street

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- PMW Quarries 25th August 2023 Invoice 122706 & 122751 for the delivery of Topsoil & crushed quarry stone.
- JBD Transport Limited 31st August 2023 Invoice SI-771 for the collection of waste soils.
- Photographic record of validation sampling.

1.3 Key Stakeholders and Roles

1. Andrew Hardcastle, Ramm Construction - Developer
2. Christiaan Wilkinson, Chevin Geoenviron Associates Ltd - Land Consultant.

2.0 Site Details

2.1 Site Location & Description

The site is located approximately 1.00km south of the centre of Huddersfield. It is approximately 0.04 Ha in size and centred on National Grid Reference 414821, 415700. The site is on the corner of Bell Street and Manor Street.

On the day of the validation the site was seen to be fully redeveloped and included an apartment block with paved entrance and yard area with topsoil planting areas along the southern and eastern boundaries.

A Site Location Plan is presented as Drawing No. C0564-01 in Appendix A.

3.0 Summary of Contamination

A phase 2 geoenvironmental site investigation was carried out by CGA in 2023 and included the formation of 4 No machine excavated trial pits and 3 No. rotary openhole probe holes which had ground gas monitoring wells installed.

The phase 2 site investigation revealed the made ground in proposed landscaped areas along the boundary of the site contained contaminants capable of causing harm and remediation of these soils was recommended. A very low risk from ground gases was established following the completion of 6 no. monitoring rounds with a Low to Very Low risk to controlled waters. Due to the presence of PAH contaminants within the made ground a Moderate to Low risk to new potable water supply pipes was

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estimated with early consultation with Yorkshire Water recommended to be carried out to ascertain their requirements.

No evidence of past coal mining was recorded with no remediation of past mining being required.

4.0 Summary of Remediation Method Statement

4.1 Introduction

The following sections provide summary information of the CGAs remediation strategy for the site. The remediation methods selected for the site consisted of the excavation and disposal of contaminated made ground and topsoil, and the importation of clean soils.

The aim of the remediation works was to break the pollution pathways as identified within the CGA Phase 2 Conceptual Site Model.

4.2 Remediation Method

The following actions are to be carried out as part of the remediation and process to ensure garden areas are suitable for use.

- Excavated made ground from landscaped/planting areas to a depth of 600mm or to the base of the natural clay soils whichever is the achieved first, and disposed of, off-site.
- During excavations visually inspect the made ground and segregate obvious contamination for disposal.
- Place geotextile at the base of each excavation, ensuring the entire area of the excavation is covered. Note: a geotextile membrane must be selected which is not capable of being degraded and must be robust enough to last the lifetime of the proposed development.
- Place imported clean subsoil to required level with final levels being made up from clean topsoil and turf.

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5.0 Validation

5.1 Validation Works

In order to confirm the remedial works have removed the identified source of contamination from site the following validation works and reporting are recommended to be carried out by suitably qualified persons.

- Photographic record of all excavations;
- Retention of all waste consignment notes for movement of hazardous waste;
- Laboratory testing of imported topsoil;
- Confirmation of depth of cover by excavation of inspection pits (minimum of 3 no. pits);
- Production of a verification report for submission to the Local Planning Authority.
- Provide details on the source of topsoil & retention of invoices or delivery notes for all imported topsoil.

Where topsoil is imported to the site the topsoil should be subjected to laboratory testing for a suite of common contaminants and a comparison of the results made with the residential with home grown produce C4SL and S4ULs.

5.2 Site Inspection & Validation Pits

The site inspection and sampling of topsoil was carried out by an experienced CGA Geoenvironmental Engineer on the 26th April 2024.

A total of 3 No. hand excavated inspection pits were formed within the planting areas along the southern and eastern boundaries. A manufactured topsoil consisting of sand with organic matter was seen at all locations to extend to depths of 100mm to 150mm. Below the topsoil was a compacted layer of crushed quarry stone which consisted of coarse gravel of sandstone. This extended to depths of 500mm in IP01 and 540mm in IP02 and IP03. At the base of IP01 a geotextile was seen. However, penetration past 520mm in IP02 and IP03 was prevented due to the hole collapsing. To confirm the presence of a geotextile IP02 and IP03 were probed by hand with a textile confirmed at depths of 540mm.

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CGA can confirm no visual or olfactory signs of contamination, including made ground was noted during the site inspection.

(See Drawing No. C0564-02 & C0564-03 for sampling & Appendix A photographic record of the inspection)

5.3 Source of Topsoil

A recycled topsoil and crushed quarry stone was supplied by PMW Quarries, Holmfirth Road, Shepley, Huddersfield HD8 8BB and described as GT2 Landscape Grade Soil and 75mm clean (quarry stone).

The volume of topsoil and crushed stone is shown on invoice as 18.64 tonnes (27.8m³) and 19 tonnes (12.6m³) respectively.

Testing of the material carried out by the supplier was not provided at the time of producing this report. However,

5.5 Validation Sampling & Screening of Topsoil

In order to confirm the suitability of imported topsoil CGA collected 3 No. samples of topsoil and one sample of crushed stone. Samples were sent to i2 Analytical Ltd and tested for a standard range of contaminants as referenced in section 7.2 of the remediation strategy.

See Drawing No. C0564-02 for the locations of validation samples.

5.6 Comparison of Contamination Data Vs Remediation Criteria

The C4SL and S4UL assessment criteria for a residential with home grown produce land use scenario were used as remedial targets to assess the suitability of imported soils. A comparison of the test results with the remedial targets is presented within Table 1.1 of this report. The comparison shows that the topsoil & crushed quarry stone contain very low levels of contamination below the assessment criteria and have passed the assessment for suitability of use.

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Table 1.1 Comparison of Soil Test Results with Residential with Home Grown Produce C4SL/S4UL

Determinant	Assessment Criteria (mg/kg)		Recorded Concentrations Across The Site (mg/kg)		
	C4SL Screening Levels	S4UL Generic Assessment Criteria	Highest Recorded Value	Location of Highest Recorded value	Pass or Fail
Metals, semi-metals and non-metals					
Arsenic	37	37	5.7	IP03	Pass
Cadmium	26	11	0.9	IP02	Pass
Copper	NC	2400	24	IP03	Pass
Chromium Total	NC	910	21	IP03	Pass
Lead	200	NC	27	IP03	Pass
Mercury (elemental)	NC	1.2	<0.3	All	Pass
Nickel	NC	130	8.8	IP03	Pass
Selenium	NC	250	<1.0	All	Pass
Zinc	NC	3700	52	IP03	Pass
PAHs					
PAH (total)	NC	NC	3.84	IP03	Pass
TPH (total)	NC	NC	12	IP03	Pass
PAHs (Individual)					
Naphthalene	36	5.6	<0.05	All	Pass
Benzo(a)pyrene	3.2	2.7	0.32	IP03	Pass
Others					
SOM (%)	NC	NC	5.2	IP03	Pass
pH	NC	NC	8.2 – 8.6	IP01 – IP02	Pass
Asbestos ID	NC	NC	Not Detected	All	Pass
NOTES:					
(1) C4SL/LQM S4UL 2015 for Residential with home grown produce land use scenario at 2.5% organic matter content					
(2) NC = No criterion.					
(3) ND = Not-Detected					

6.0 Conclusions

The findings of this report confirm made ground was excavated and transported off site. However, waste transfer tickets have been misplaced due to the developers unexpected hospitalisation during the final stage of the development. CGA can confirm this was the case and following successful completion of the remediation works accept in good faith that the waste has been accepted by a licenced waste facility.

A CGA Geoenvironmental Engineer hand excavating a total of 3 No. inspection pits (IP01 to IP03) within topsoil/subsoil located within planting areas with the minimum of 3 No. sample being collected. A further

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sample of crushed quarry stone used as subsoil was also collected. All samples were tested for the appropriate suites of laboratory testing by a UKAS & MCERTs accredited laboratory. The area requiring validation was seen to be covered by 150mm clean topsoil, 390mm crushed stone with a geotextile at the base of each pit.

The soil testing recorded very low levels of contaminant below the C4SL and S4UL screening values for a residential with home grown produce land use scenario. This was recorded as a pass in terms of meeting the requirements set out in the remediation strategy.

It should be noted that the depth of clean cover was confirmed to extend to depths of 500mm and 540mm with no photographic evidence of the excavation prior to it being raised by clean subsoil and topsoil. Whilst the depth of cover differs slightly to that in the remediation strategy the construction of the cover system with a geotextile at the base and use of compacted crushed quarry stone is considered to provide a suitably protective barrier.

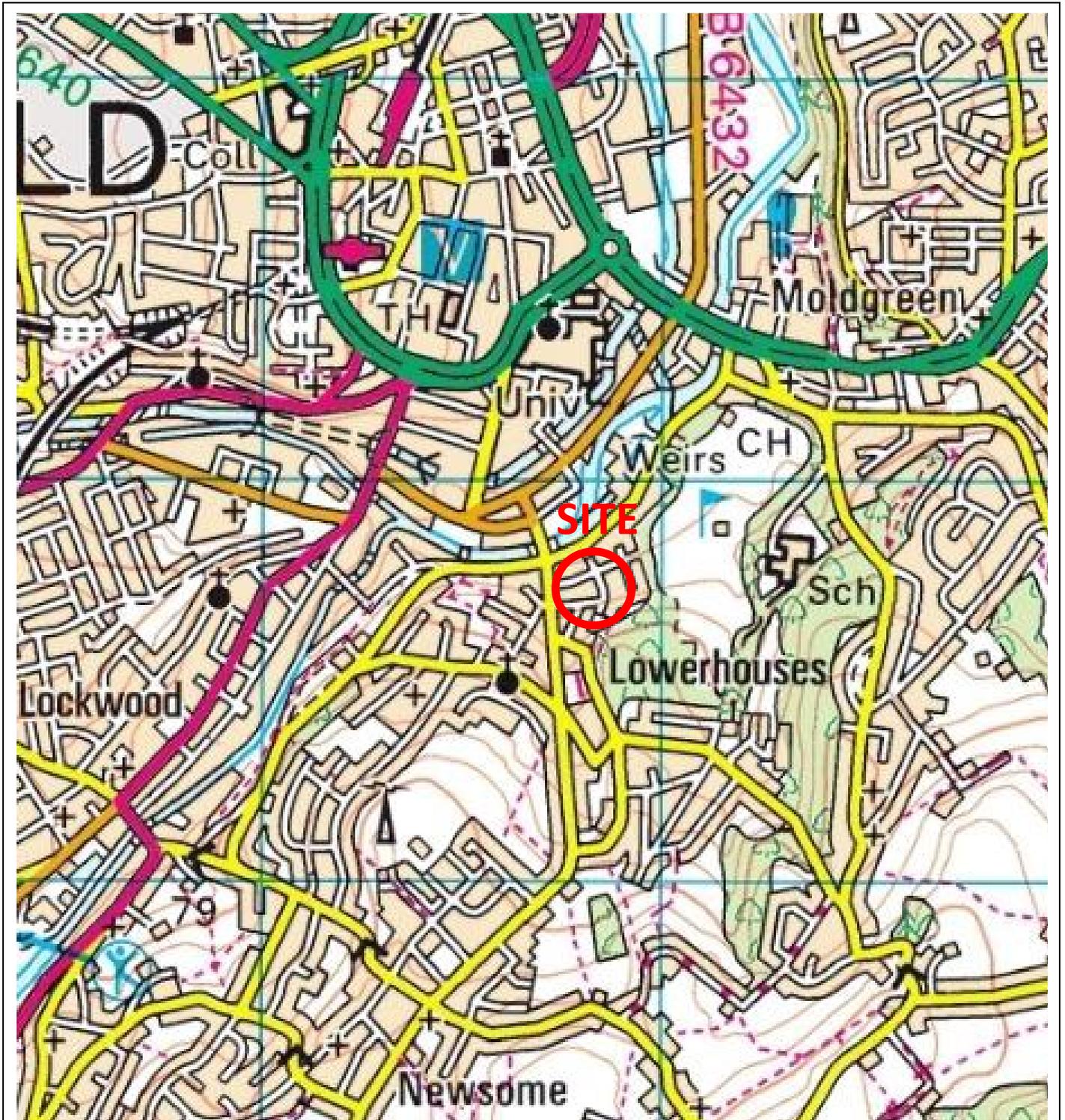
7.0 Verification Statement

The information contained within this report has identified the type of remediation measures required for this site and where and how these remediation measures have been carried out. The report also confirms that successful remediation of the site has been achieved by excavation and removal of contaminated made ground and replacement with clean topsoil and subsoil. Evidence for this is provided by invoices for waste removal and importation of clean soil, photographic evidence, laboratory testing reports and a visual inspection by a CGA Geoenvironmental Engineer.

Following the successful completion of the validation works, and confirmation of low levels of contaminants within the imported topsoil/subsoil, we can confirm the level of risk to the future users of the site as identified within the CGA phase 2 report is now VERY LOW to NEGLIGIBLE.

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Drawings:



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Geo-environmental Consultancy
Ground Technologies & Investigation & Remediation

Project: Manor Street, Newsome, Huddersfield

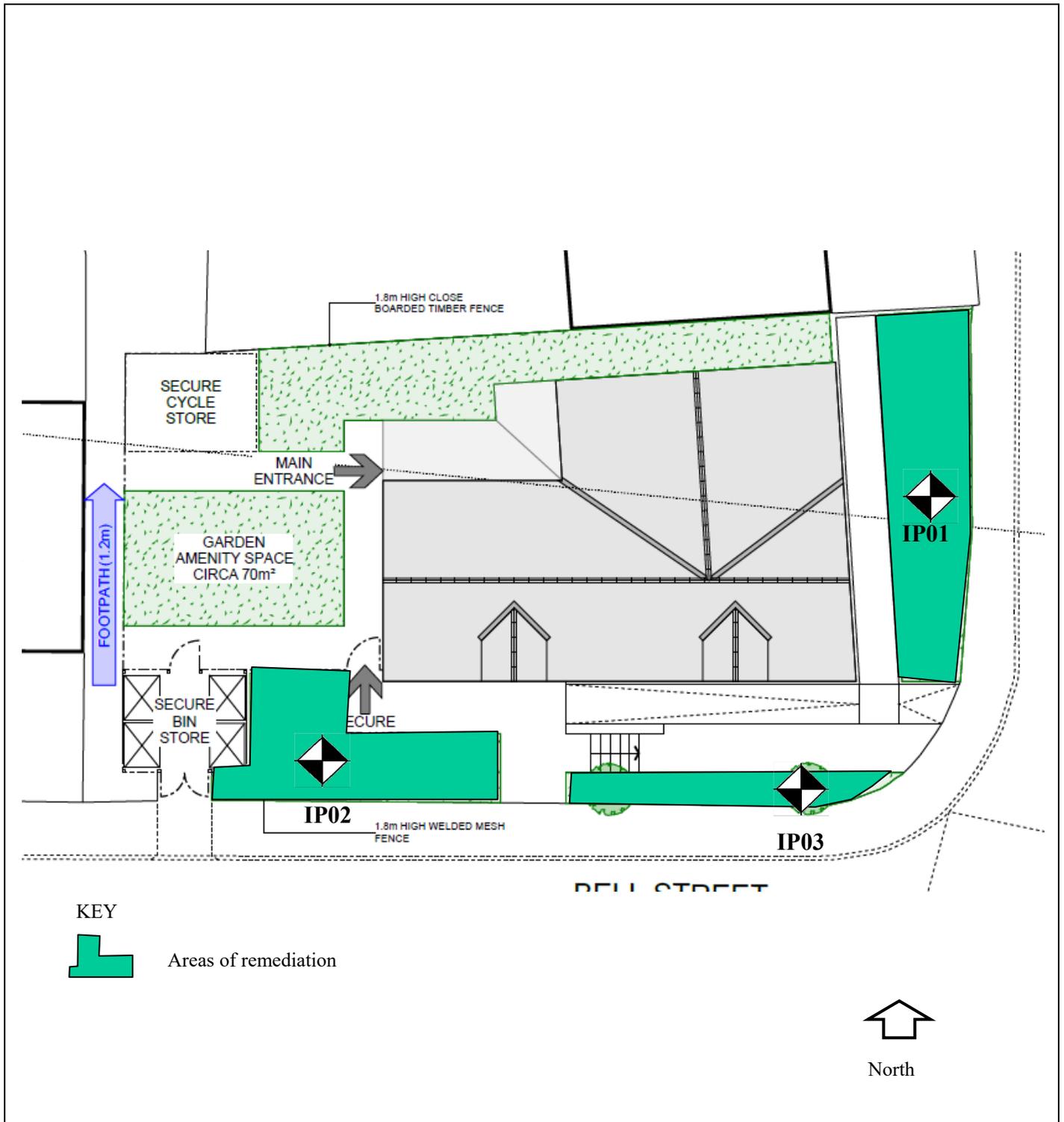
Client: Ramm Construction Ltd

Project No. C0564

Date 13/02/2023

Validation Inspection Pit Locations & Areas Requiring Remediation

Drawing: C0564-02



Chevin Geoenviro Associates LTD	Project: Manor Street, Newsome, Huddersfield	
	Client: Ramm Construction	
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E-mail info@chevin-ltd.co.uk		
Geo-environmental Consultancy Ground Technologies & Investigation & Remediation		

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Manor Street, Huddersfield

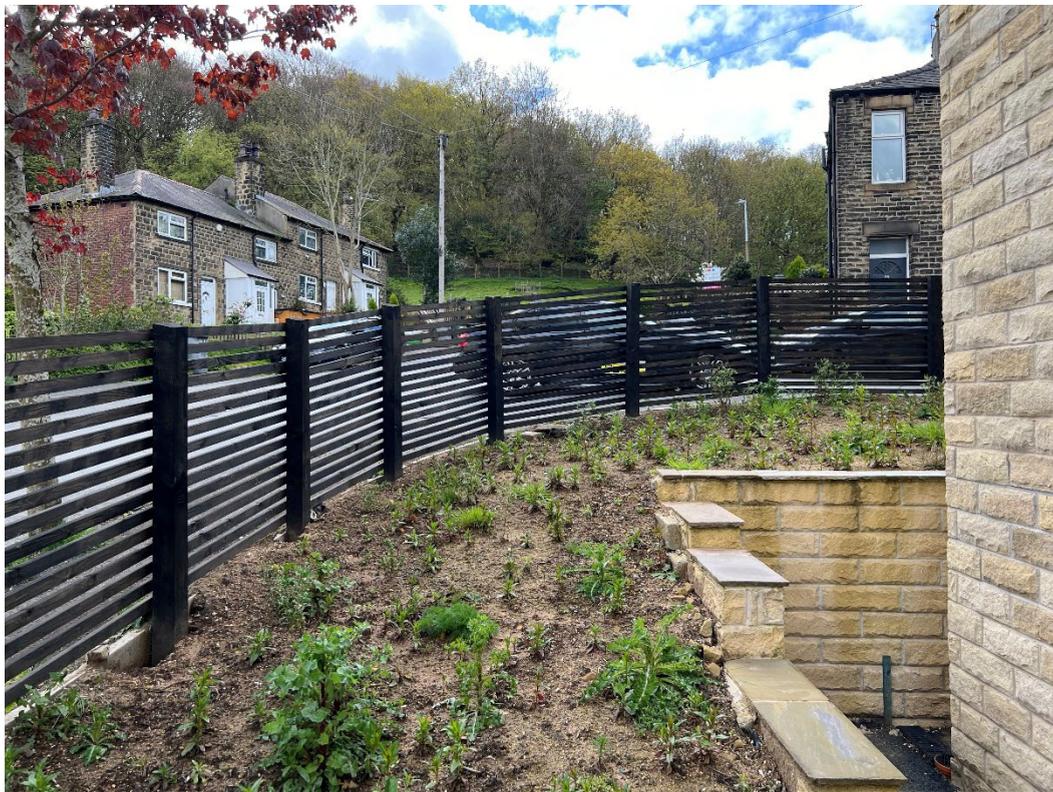
Appendices

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Appendix A – Photographic Record of Works



Photograph No.1: View south of southern boundary facing west.



Photograph No.2: View of eastern boundary from side entrance facing south.

Chevin Geoenviron Associates LTD

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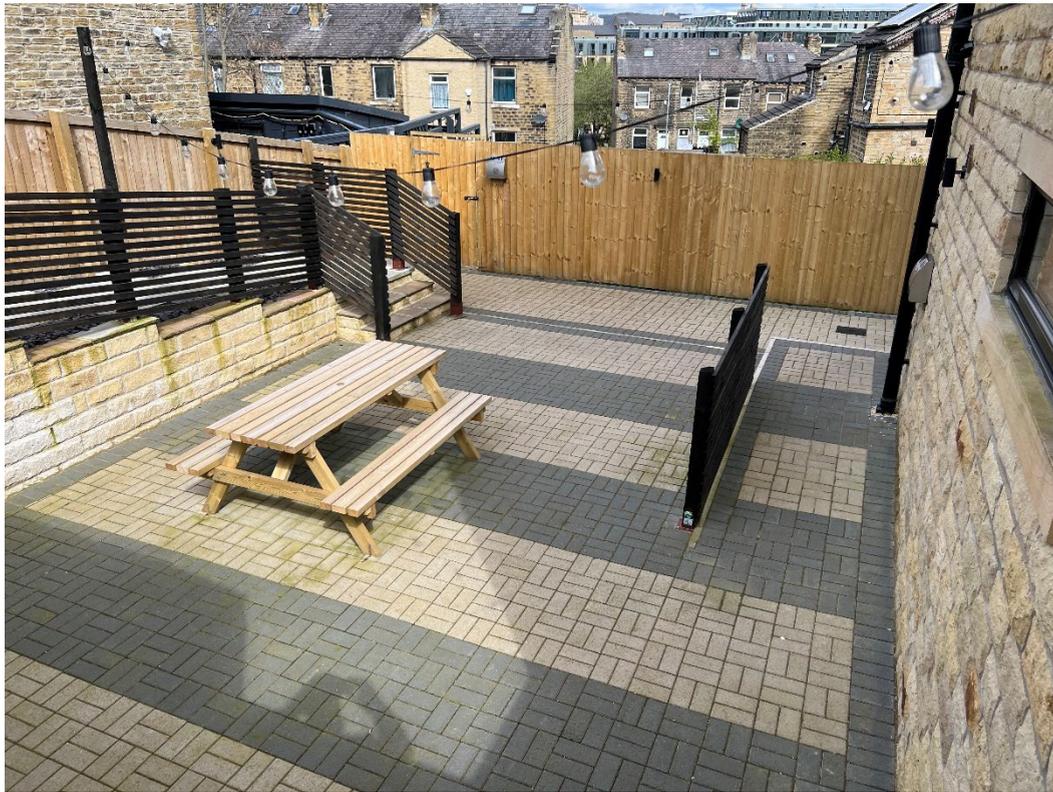
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Geo-environmental Consultancy
Ground Technologies & Investigation & Remediation**

Project: Manor Street, Newsome, Huddersfield

Client: Ramm Construction

Project No. C0564

Date: 13/05/2024



Photograph No.3: Western patio area and access.



Photograph No.4: Eastern access and hard standing.

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Approximate level of
excavated made ground

Photograph No.5: Pre construction excavation showing soil profile on southern boundary.

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Photograph No.6: IP01.



Photograph No.7: IP02.

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Project No. C0564

Date: 13/05/2024



Photograph No.8: IP03.

Photograph No.

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Project: Manor Street, Newsome, Huddersfield

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Date: 13/05/2024

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Appendix B – Chemical Testing Laboratory Certificates



Chevin Geoenviron Associates LLD
Tarn House
77 High Street
Yeadon

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

t: 01943470363

e: c.wilkinson@chevin-ltd.co.uk

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 24-016837

Project / Site name:	Manor Street	Samples received on:	29/04/2024
Your job number:	CO564	Samples instructed on/ Analysis started on:	29/04/2024
Your order number:		Analysis completed by:	06/05/2024
Report Issue Number:	1	Report issued on:	06/05/2024
Samples Analysed:	4 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.

Analytical Report Number: 24-016837
Project / Site name: Manor Street

Lab Sample Number				184137	184138	184139	184140
Sample Reference				IP01	IP01	IP02	IP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.45	0.05	0.10
Date Sampled				26/04/2024	26/04/2024	26/04/2024	26/04/2024
Time Taken				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	99	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	21	4.1	16	19
Total mass of sample received	kg	0.1	NONE	1.2	1.1	1.2	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	-	MBI	MBI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	-	8.6	8.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0
Organic Matter (automated)	%	0.1	MCERTS	4.4	-	5.2	4.9

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.26
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.09
Fluoranthene	mg/kg	0.05	MCERTS	0.06	-	0.08	0.74
Pyrene	mg/kg	0.05	MCERTS	0.05	-	0.07	0.63
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.39
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.43
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	0.5
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	0.16
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.32
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.17

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	3.84
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Analytical Report Number: 24-016837
Project / Site name: Manor Street

Lab Sample Number	184137	184138	184139	184140
Sample Reference	IP01	IP01	IP02	IP03
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.45	0.05	0.10
Date Sampled	26/04/2024	26/04/2024	26/04/2024	26/04/2024
Time Taken	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	4.8	2.6	4.8	5.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	< 0.2	0.9	0.3
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	7.6	5.7	7.3	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	3.4	15	24
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	2.7	15	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	7.4	3.7	6.8	8.8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	47	25	39	52

Petroleum Hydrocarbons

TPH (C10 - C40) <small>EH_CU_ID_TOTAL</small>	mg/kg	10	MCERTS	< 10	-	< 10	12
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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* 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 *
184137	IP01	None Supplied	0.1	Brown loam and clay with gravel and vegetation
184138	IP01	None Supplied	0.45	Non Soil. ^b
184139	IP02	None Supplied	0.05	Brown loam and clay with gravel and vegetation
184140	IP03	None Supplied	0.1	Brown loam and clay with gravel and vegetation

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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
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088	D/W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS

Analytical Report Number : 24-016837

Project / Site name: Manor Street

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
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099	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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

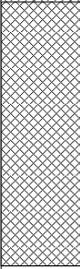
*b - Unaccredited sample matrix.

Verification of Remediation Works:
Manor Street, Huddersfield

Appendix C – Inspection Pit Logs

Trial Pit Log

Project Name: Manor Street, Huddersfield	Project No. C0564	Co-ords: - Level:	Date 26/04/2024
Location: Manor Street, Newsome, Huddersfield		Dimensions (m): Depth 0.50	Scale 1:10
Client: Ramm Construction Ltd			Logged Cw

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES		0.15			Brown sandy TOPSOIL with fragments of organic matter. (manufactured)
	0.45	ES		0.50			Yellow coarse gravel size fragments of sandstone with black woven geotextile at base of excavation. (Engineering fill)
							----- End of pit at 0.50 m

Remarks: Geotextile visually confirmed. Backfill with arisings on completion.

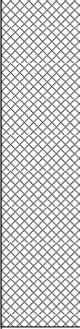
Stability: Unstable.



1
2

Trial Pit Log

Project Name: Manor Street, Huddersfield	Project No. C0564	Co-ords: - Level:	Date 26/04/2024
Location: Manor Street, Newsome, Huddersfield		Dimensions (m): Depth 0.54	Scale 1:10 Logged CW
Client: Ramm Construction Ltd		0.45	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.05	ES		0.10			Brown sandy TOPSOIL with fragments of organic matter. (manufactured)
				0.54			Yellow coarse gravel size fragments of sandstone with black woven geotextile at base of excavation. (Engineering fill)
							End of pit at 0.54 m

Remarks: Geotextile confirmed via hand. Backfill with arisings on completion.

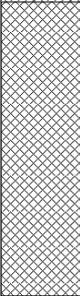
Stability: Unstable.



1
2

Trial Pit Log

Project Name: Manor Street, Huddersfield	Project No. C0564	Co-ords: - Level:	Date 26/04/2024
Location: Manor Street, Newsome, Huddersfield		Dimensions (m): Depth 0.54	Scale 1:10 Logged CW
Client: Ramm Construction Ltd		0.45	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES		0.15			Brown sandy TOPSOIL with fragments of organic matter. (manufactured)
							Yellow coarse gravel size fragments of sandstone with black woven geotextile at base of excavation. (Engineering fill)
				0.54			End of pit at 0.54 m

Remarks: Geotextile confirmed via hand. Backfill with arisings on completion.

Stability: Unstable.



1
2

Verification of Remediation Works:

Manor Street, Huddersfield

Appendix D – Waste Disposal Invoice

JBD Transport Limited

52 Riverside Mews, Wildspur Mills
Holmfirth, West Yorkshire, HD9 7BA
United Kingdom

Telephone: 07768 511867
Email jake@jbdtransport.ltd.uk

Invoice To:

Ramm Construction
c/o Paramount Accountancy
Holly Bank Road
Huddersfield
HD3 3LX

Invoice Date 31/08/2023
Due Date 29/09/2023
Invoice Number SI-771

SALES INVOICE

Description	0.00	Price/Rate	VAT %	Net
Grab hire -15th	1.00	240.00	20.00	240.00
Grab hire -Non Haz	3.00	340.00	20.00	1,020.00

VAT Rate	Net	VAT	Total Net	1,260.00
Standard 20.00% (20.00%)	£1,260.00	£252.00	Total VAT	252.00
			TOTAL	£1,512.00

Notes:

Cheques Payable to JBD Transport Ltd

OR

Direct to:-
Barclays Bank
A/c 80678554
Sort Code 20-35-84
Stating the Invoice Ref No

Terms and Conditions:

Terms of Trade - 7 Working days

Verification of Remediation Works:
Manor Street, Huddersfield

Appendix E – Topsoil/Subsoil Supplier Invoice



HOLMFIRTH RD, SHEPLEY, HUDDERSFIELD HD8 8BB
TELEPHONE: 01484 606213 FAX: 01484 604057

VAT NO. 975 5464 73

COMPANY REG NO. 6962567

RAMM Construction

INVOICE

Page 1

Invoice No	122706
Invoice Date	25/08/2023
Order No	
Account Ref	CASH/COD

ACCOUNTS DIRECT LINE: 01484 600270

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
19.00	75mm Clean 24.8.23 284639	17.95	341.05	20.00	68.21

Manor Street
 Newsome
 Huddersfield
 HD4 6NS

Paid by credit card, with thanks

Total Net Amount	£	341.05
Total VAT @ 20%	£	68.21
Invoice Total	£	409.26

*If this invoice has not already been settled, please pay by return.
 Payment can be made by cheque (payable to PMW Quarries Ltd and posted to the address at the top of this invoice), by card payment over the phone, or by BACs transfer to PMW Quarries Ltd, Sorting Code 40-51-62, Account No. 32700845. Thank you.*



HOLMFIRTH RD, SHEPLEY, HUDDERSFIELD HD8 8BB
TELEPHONE: 01484 606213 FAX: 01484 604057

VAT NO. 975 5464 73

COMPANY REG NO. 6962567

RAMM Construction

INVOICE

Page 1

Invoice No	122751
Invoice Date	29/08/2023
Order No	
Account Ref	CASH/COD

ACCOUNTS DIRECT LINE: 01484 600270

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
18.64	GT2 Landscape Grade Soil 25.8.23 294220	24.95	465.07	20.00	93.01

Manor Street
Newsome
HD4 6NS

Paid by credit card, with thanks

Total Net Amount	£	465.07
Total VAT @ 20%	£	93.01
Invoice Total	£	558.08

*If this invoice has not already been settled, please pay by return.
Payment can be made by cheque (payable to PMW Quarries Ltd and posted to the address at the top of this invoice), by card payment over the phone, or by BACs transfer to PMW Quarries Ltd, Sorting Code 40-51-62, Account No. 32700845. Thank you.*



HOLMFIRTH RD, SHEPLEY, HUDDERSFIELD HD8 8BB
TELEPHONE: 01484 606213 FAX: 01484 604057

VAT NO. 975 5464 73

COMPANY REG NO. 6962567

RAMM Construction

INVOICE

Page 1

Invoice No	122752
Invoice Date	29/08/2023
Order No	
Account Ref	CASH/COD

ACCOUNTS DIRECT LINE: 01484 600270

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
19.00	75mm Clean 25.7.23 103050	17.95	341.05	20.00	68.21

Manor Street
Newsam
Huddersfield

Paid by cc with thanks

Total Net Amount	£	341.05
Total VAT @ 20%	£	68.21
Invoice Total	£	409.26

*If this invoice has not already been settled, please pay by return.
Payment can be made by cheque (payable to PMW Quarries Ltd and posted to the address at the top of this invoice), by card payment over the phone, or by BACs transfer to PMW Quarries Ltd, Sorting Code 40-51-62, Account No. 32700845. Thank you.*