



- Contaminated Land Appraisals
- Brownfield Remediation Solutions
- Site Investigation Services
- Earthworks Design and Control
- Flood Risk Assessments

Mr L Barrett  
RJ Howard Engineers Ltd  
Howard House  
Lowfields Road  
Leeds  
West Yorkshire  
LS12 6BS

21<sup>st</sup> September 2023

Ref C554/02/GS

Dear Liam,

**Ref: Abbey Road North, Shepley, Phase 2.**

As part of the enabling works for the above site RJ Howard (Engineers) Ltd (Howards), have undertaken earthworks construction of the development platform for the subsequent residential development of the site. This enabling work has included for the delineation and excavation of 'contamination hotspots identified in the Remediation Method Statement, Ref E19/7465/R005, dated May 2022, prepared by Haigh Huddleston & Associates (HH&A).

Previous intrusive investigation work identified six areas of contamination, shown below, which variously recorded elevated concentrations of Arsenic, Mercury and Chromium within the topsoil and an elevated Arsenic within the area of re-engineered fill to a former watercourse. The areas shown below were presented and numbered by Howards, for ease of reference and used as a guide on site, and were centred around the areas of elevated metals, identified in the previous investigation work undertaken by HH&A.



Annotated from Drawing E19/7465/040, prepared by HH&A. The original drawing is presented in Attachment A

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As part of the current work, Howards excavated out the topsoil from the areas of 'Hotspot 1', 'Hotspot 2' and 'Hotspot 3'. The extent of the excavations are shown on the drawing presented in Attachment A of this report.

G&M Consulting Ltd visited the site on two occasions to inspect the resultant voids; typically these excavations were typically between 0.5m to 0.7m, occasionally up to 1m deep and the surfaces in the base of the excavations comprised cobbles and gravels of a weathered sandstone surface with a dark brown matrix subsoil.

Samples for chemical testing were taken from the sidewalls and base of the excavations, as shown on the drawing in Attachment A. The samples were tested by i2 Analytical Ltd, a UKAS and MCERTS accredited laboratory. The 'as-received' results are presented in Attachment B of this report. The samples were tested for a full suite of metals. All of the results were below their respective thresholds, presented in the HH&A method statement document.

A photographic record of the excavations is presented in Attachment C of this report.

The excavated materials were placed into temporary stockpile, prior to disposal to a suitable facility. This facility was at Leeds Rail Hub, operated by Biffa Waste Services Ltd. The waste transfer notes and disposal tickets are presented in Attachment D of this report.

As a consequence of the need to regrade levels across the site, there was not a need to import soils to make up levels in the shallow excavations.

At the time of writing of this report, it is understood that excavation of the areas of 'hotspots' 4, 5 and 6, including the re-engineered fill, associated with the former watercourse is yet to be undertaken (this latter area is yet to be remediated, as it is located close to the current route of the existing watercourse, which is due to be realigned as part of the development work). These further works will require validation under separate cover.

I trust this report adequately summarises the works carried out to date.

Yours sincerely

**Graeme Swinbourne**

For and on behalf of **G&M Consulting Ltd**

Attachment A – Drawings

Attachment B – Chemical Test Results

Attachment C – Photographic Record

Attachment D – Waste transfer notes



**ATTACHMENT A**  
**DRAWING**



- REMEDATION PROPOSALS**
1. AGREED TEMPORARY WORKS TO BE ESTABLISHED TO PREVENT RUN-OFF CONTAMINATING EXISTING WATERCOURSE.
  2. CONTAMINATED TOPSOILS TO BE SCAPED AND REMOVED FROM SITE TO A SUITABLY LICENSED WASTE FACILITY.
  3. CONTAMINATED INFILL MATERIAL TO FORMER WATERCOURSE TO BE REMOVED FROM SITE TO A SUITABLY LICENSED WASTE FACILITY.
  4. EXTENT OF RE-ENGINEERED CLAYS TO BE SURVEYED TO DETERMINE AFFECT ON PROPOSED FOUNDATIONS.
  5. SITE LEVELS TO BE REGRADED TO ACCOMMODATE DEPTH OF HIGHWAY CONSTRUCTION, FOUNDATIONS AND 300mm CAPPING TO SOFT LANDSCAPED AREAS.
  6. 150mm THICK LAYER OF CLEAN TOPSOIL AND 150mm THICK LAYER OF CLEAN SUBSOIL TO PLACED TO SOFT LANDSCAPED AREAS TO PROVIDE A GROWING MEDIUM.



**Haigh Huddleston & Associates**  
 Civil Structural Engineering Consultants

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 e: Trevor.Haigh@haighhuddleston.co.uk

Client	YORKSHIRE COUNTRY PROPERTIES
Project	NORTH ABBEY ROAD, SHEPLEY PHASE 2
Detail	REMEDICATION PROPOSALS PLAN
Scale	1:1000
Drawn	MO
Checked	
Date	May 22
Draw No.	E19/7455/003



Notes:

1. ALL LEVELS ARE IN METERS A.O.D UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
3. DO NOT SCALE IN CASE OF ANY DOUBTS, OMISSIONS OR ERRORS, SEEK CLARIFICATION FROM THE CONTRACTOR.

**KEY:**

 AREA OF HOTSPOT EXCAVATION

 HOTSPOT SAMPLE LOCATION

P01	INITIAL ISSUE - FOR INFORMATION	AS	22/09/23
REV:	DESCRIPTION:	BY:	DATE:
STATUS: <b>FOR INFORMATION</b>			

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 East Lound, Doncaster, DN9 2LR  
 01427 752788  
 www.soilexperts.co.uk

CLIENT: TBC

ARCHITECT:

SITE: **ABBEY ROAD NORTH SHEPLEY (PHASE 2)**

TITLE: **AREAS OF SHALLOW EXCAVATION**

SCALE AT A3: 1:750	DATE: 22/09/23	DRAWN: AS	CHECKED: GS
PROJECT NO: C554	DRAWING NO: A3/C554_001	REVISION:	P01



**ATTACHMENT B**  
CHEMICAL TEST RESULTS



**Andrew Swinbourne**

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## **Analytical Report Number : 22-97141**

<b>Project / Site name:</b>	Abbey Road, North, Shepley	<b>Samples received on:</b>	16/11/2022
<b>Your job number:</b>	C554	<b>Samples instructed on/ Analysis started on:</b>	16/11/2022
<b>Your order number:</b>		<b>Analysis completed by:</b>	22/11/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	24/11/2022
<b>Samples Analysed:</b>	15 soil samples		

**Signed:** \_\_\_\_\_

Joanna Wawrzeczko  
Reporting Specialist  
**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: 22-97141

Project / Site name: Abbey Road, North, Shepley

Lab Sample Number	2501967			2501968			2501969			2501970			2501971		
Sample Reference	HP1-1			HP1-2			HP1-3			HP1-4			HP1-5		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.50			0.30			0.50			0.20			0.50		
Date Sampled	14/11/2022			14/11/2022			14/11/2022			14/11/2022			14/11/2022		
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	0.01	NONE	18	16	25	21	21	21	21	21	21	21	21	
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	

#### Heavy Metals / Metalloids

Element	Units	Limit of detection	Accreditation Status						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	17	18	17	12	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	U/S	U/S	< 1.8	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	31	38	50	53	25	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	39	70	88	78	31	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.7	0.9	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	15	18	18	19	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76	100	110	120	71	

U/S = Unsuitable Sample I/S = Insufficient Sample

\*U/S - Unsuitable for analysis due to high colour intensity.

Analytical Report Number: 22-97141

Project / Site name: Abbey Road, North, Shepley

Lab Sample Number	2501972			2501973			2501974			2501975			2501976		
Sample Reference	HP1-6			HP2-1			HP2-2			HP2-3			HP3-1		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.50			0.50			0.80			1.00			0.50		
Date Sampled	14/11/2022			14/11/2022			14/11/2022			14/11/2022			14/11/2022		
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	35	< 0.1							
Moisture Content	%	0.01	NONE	15	13	21	17	20							
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.6	0.6							

#### Heavy Metals / Metalloids

Element	Units	Limit of detection	Accreditation Status					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	12	23	19	21
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	U/S*	U/S*	U/S*
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	29	46	46	62
Lead (aqua regia extractable)	mg/kg	1	MCERTS	27	47	93	85	98
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	16	16	15	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	68	76	93	90	100

U/S = Unsuitable Sample I/S = Insufficient Sample

\*U/S - Unsuitable for analysis due to high colour intensity.

Analytical Report Number: 22-97141

Project / Site name: Abbey Road, North, Shepley

Lab Sample Number	2501977			2501978			2501979			2501980			2501981		
Sample Reference	HP3-2			HP3-3			HP3-4			HP3-5			HP3-6		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.40			0.60			0.60			0.50			1.00		
Date Sampled	14/11/2022			14/11/2022			14/11/2022			14/11/2022			14/11/2022		
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	29	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	0.01	NONE	16	21	14	12	12	12	12	12	12	12	12	
Total mass of sample received	kg	0.001	NONE	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

#### Heavy Metals / Metalloids

Element	Units	Limit of detection	Accreditation Status						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	26	26	8.4	11	13	13
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S*	U/S*	< 1.8	< 1.8	< 1.8	< 1.8
Copper (aqua regia extractable)	mg/kg	1	MCERTS	97	56	20	22	26	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	100	130	30	36	44	44
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.7	1.1	1.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	21	13	15	19	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	99	160	61	68	86	86

U/S = Unsuitable Sample I/S = Insufficient Sample

\*U/S - Unsuitable for analysis due to high colour intensity.

**Analytical Report Number : 22-97141**

**Project / Site name: Abbey Road, North, Shepley**

\* 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 *
2501967	HP1-1	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2501968	HP1-2	None Supplied	0.3	Brown loam and clay with gravel and vegetation.
2501969	HP1-3	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2501970	HP1-4	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2501971	HP1-5	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2501972	HP1-6	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
2501973	HP2-1	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2501974	HP2-2	None Supplied	0.8	Brown loam with gravel and vegetation.
2501975	HP2-3	None Supplied	1.0	Brown loam with vegetation and stones.
2501976	HP3-1	None Supplied	0.5	Brown loam with gravel and vegetation.
2501977	HP3-2	None Supplied	0.4	Brown loam with vegetation and stones.
2501978	HP3-3	None Supplied	0.6	Brown loam with gravel and vegetation.
2501979	HP3-4	None Supplied	0.6	Brown loam and clay with gravel and vegetation.
2501980	HP3-5	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2501981	HP3-6	None Supplied	1.0	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 22-97141

Project / Site name: Abbey Road, North, Shepley

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
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	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.



**Andrew Swinbourne**

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## **Analytical Report Number : 22-99882**

<b>Project / Site name:</b>	Abbey Road North, Shepley	<b>Samples received on:</b>	05/12/2022
<b>Your job number:</b>	C554	<b>Samples instructed on/ Analysis started on:</b>	05/12/2022
<b>Your order number:</b>		<b>Analysis completed by:</b>	12/12/2022
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	12/12/2022
<b>Samples Analysed:</b>	5 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

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Analytical Report Number: 22-99882

Project / Site name: Abbey Road North, Shepley

Lab Sample Number	2802244			2802245			2802246			2802247			2802248		
Sample Reference	HP2-4			HP2-5			HP2-6			HP2-7			HP2-8		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.50			0.30			0.50			1.00			1.00		
Date Sampled	25/11/2022			25/11/2022			25/11/2022			25/11/2022			25/11/2022		
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	0.01	NONE	0.96	1.3	1.3	1.3	1.2	1.4						
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.3	0.3	0.3	0.3						

#### Heavy Metals / Metalloids

Element	Unit	Limit	Accreditation						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.3	7.1	7	6.5	7.7	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.1	1.1	1	1	1	
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	83	60	49	48	49	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	30	27	26	24	26	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	42	57	41	39	42	
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	22	20	22	19	22	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	130	110	110	120	

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



4041



Environmental Science

**Analytical Report Number : 22-99882**

**Project / Site name: Abbey Road North, Shepley**

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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 *
2802244	HP2-4	None Supplied	0.5	Brown clay and sand with gravel.
2802245	HP2-5	None Supplied	0.3	Brown clay and sand with gravel.
2802246	HP2-6	None Supplied	0.5	Brown clay and sand with gravel.
2802247	HP2-7	None Supplied	1	Brown clay and sand with gravel.
2802248	HP2-8	None Supplied	1	Brown clay and sand with gravel.

Analytical Report Number : 22-99882

Project / Site name: Abbey Road North, Shepley

Water matrix abbreviations:

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

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Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	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.

## Sample Deviation Report



Environmental Science

**Analytical Report Number : 22-99882**

**Project / Site name: Abbey Road North, Shepley**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HP2-5	None Supplied	S	2802245	c	Hexavalent chromium in soil	L080-PL	c
HP2-6	None Supplied	S	2802246	c	Hexavalent chromium in soil	L080-PL	c
HP2-7	None Supplied	S	2802247	c	Hexavalent chromium in soil	L080-PL	c



**ATTACHMENT C**  
PHOTOGRAPHIC RECORD



**Project Number:** C554

**Project Name:** Abbey Rd North, Shepley

**Client:** RJ Howard (Engineers) Ltd

**Document Name:** (1) Hotspot 1 excavation (looking North East visit 1). (2) Hotspot 1 excavation (looking East visit 1). (3) Hotspot 2 excavation (looking North visit 1)





<b>Project Number:</b> C554	<b>Project Name:</b> Abbey Rd North, Shepley
<b>Client:</b> RJ Howard (Engineers) Ltd	<b>Document Name:</b> (1) Hotspot 3 excavation (looking North visit 1). (2) Hotspot 2 excavation (looking East visit 1). (3) Hotspot 2 excavation (looking south east visit 2)





**ATTACHMENT D**  
WASTE TRANSFER NOTES



BIFFA WASTE SERVICES LIMITED  
 CORONATION ROAD, CRESSEX  
 HIGH WYCOMBE  
 BUCKS. HP12 3TZ

TELEPHONE: 01494 521221  
 FACSIMILE: 01494 463368

VAT No. 537 9116 27 Company Reg. No. 946107  
 Landfill Tax no. XFLF00000100123 (Eng. & N.I.) and Landfill Disposal Tax no. 379001 (Wales)

TE 855 LEEDS RAIL HUB

TICKET No. L11258

DATE 07/12/2022

C. No. HB3502MH  
 LICENSING AUTHORITY NORTH EAST - RIDINGS

CUSTOMER  
 TRANSFER NOTE No. 42993

LOAD REF. DB02277

PERMIT HOLDER  
 BIFFA WASTE SERVICES LTD

ORDER REF.  
 SOURCE 0 OTHER

CUSTOMER R. J. HOWARD ENGINEERS LTD  
 CODE R38179\*1\*4  
 ADDRESS C/O NEW SITE  
 ABBEY ROAD SOUTH, SHEPLEY  
 HUDDRESFIELD,  
 WEST YORKSHIRE  
 POSTCODE HD8 8DY SIC 38.21  
 SUPPLIER R. J. HOWARD ENGINEERS LTD  
 CARRIER REG. No.  
 REGISTRATION AUTHORITY

WASTE DESCRIPTION  
 (N/HAZ SOIL) Groups 1,2,3 L Qmo (2011)

CODE 170504  
 DESTINATION DIS DISPOSAL  
 CONTRACT 148489\*1/1  
 EWC CODE 170504  
 PRE-TREATED  
 CONSIGNMENT CODE Non-Hazardous  
 LANDFILL TAX EXEMPTION REF. No. Lower Rate

VEHICLE YE21AXT WASTE TREATMENT VEHICLE  
 CONTAINER  
 U.M. 24.00

DEPOSIT THIS LOAD AT MIXED C&D HARDCORE  
 PHASE 1 LIFT 1 CELL 1

	WEIGHT	DATE	TIME	TALLY No.	
GROSS	31080 Kg	07/12/2022	08:30	08:30	B000461
TARE	13240 Kg	07/12/2022	08:37	08:37	A003556
NET	17840 Kg				
TOTAL CHARGED	** 17.84 TONNE **				

THIS IS NOT A VAT INVOICE  
 NET COST \*\*\*\*\*  
 VAT @ \*\*\*\*\* % \*\*\*\*\*  
 TOTAL COST \*\*\*\*\*

BY SIGNING THIS WASTE TRANSFER NOTE THE HOLDER / CUSTOMER IS CONFIRMING THAT THEY HAVE FULFILLED THEIR DUTY TO  
 APPLY THE W.F.D. WASTE HIERARCHY.

FOR BIFFA WASTE SERVICES  
 JONATHAN MCLENAHAN  
 NAME

DRIVERS SIGNATURE  
 FOR  
 A. TOOLEY  
 NAME

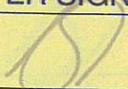
THIS DOCUMENT IS A WASTE TRANSFER NOTE AS PROVIDED FOR BY ENVIRONMENTAL PROTECTION (DUTY OF CARE) REGULATIONS 1991. A TALLY RECORD OF THIS TRANSACTION IS AVAILABLE FOR 6 MONTHS.  
 WHERE WASTE MATERIALS ARE FOUND ON DISCHARGE TO BE INCONSISTENT WITH THE DESCRIPTION, BIFFA WASTE SERVICES RESERVE THE RIGHT TO RECOVER THE APPROPRIATE CHARGE AND ASSOCIATED  
 TAX FROM THE CUSTOMER. BIFFA WASTE SERVICES AS OPERATORS OF THE SITE ARE AUTHORISED BY THE HOLDER OF THE APPROPRIATE PERMIT TO ACCEPT WASTE FOR DISPOSAL.

# R.J. HOWARD ENGINEERS LTD. CIVIL ENGINEERING CONTRACTORS

42993

Howard House, Lowfields Road, Leeds LS12 6BS. Telephone: 0113 243 2837 Fax: 0113 242 6333

## CONVEYANCE WASTE TRANSFER/DELIVERY NOTE

DATE	VEHICLE REG.	DRIVER NAME	DRIVER SIGNATURE	CLIENT
7/12/22	YE21 AXT	ADAM		RJH

CLIENT <u>NON HAZARD</u>
CLIENT ADDRESS <u>SOIL &amp; STONE FROM</u> <u>ABBAY RD. SOUTH SHEPLEY</u> <u>TO BIFFA HUB LEEDS</u>
TIP ADDRESS _____
PERMIT/WML No. _____
CLIENT FULL NAME _____
CLIENT SIGNATURE _____

I confirm that I have applied the waste management hierarchy

MATERIAL	DELIVERED	COLLECTED
NON HAZARD		
GROSS WEIGHT	COMMENTS  SIC CODE 38.21  REF 148489	
TARE WEIGHT		
NETT WEIGHT		
LOADS No		
WAITING TIME		



BIFFA WASTE SERVICES LIMITED  
 CORONATION ROAD, CRESSEX  
 HIGH WYCOMBE  
 BUCKS. HP12 3TZ  
 VAT No. 537 9116 27 Company Reg. No. 946107  
 Landfill Tax no. XFLF00000100123 (Eng. & N.I.) and Landfill Disposal Tax no. 379001 (Wales)

TELEPHONE: 01494 521221  
 FACSIMILE: 01494 463368

TE 855 LEEDS RAIL HUB  
 C. No. HB3502MH  
 DENSING AUTHORITY EAST - RIDINGS  
 CENCE HOLDER  
 BIFFA WASTE SERVICES LTD

TICKET No. L11260 DATE 07/12/2022

CUSTOMER  
 TRANSFER NOTE No. 53467  
 LOAD REF. DB02277  
 ORDER REF.  
 SOURCE 0 OTHER

CUSTOMER R. J. HOWARD ENGINEERS LTD  
 CODE R38179\*1\*4  
 ADDRESS C/O NEW SITE  
 ABBEY ROAD SOUTH, SHEPLEY  
 HUDDSFIELD  
 WEST YORKSHIRE  
 POSTCODE HD8 8DY SIC 38.21  
 CARRIER R. J. HOWARD ENGINEERS LTD  
 REGISTRATION AUTHORITY  
 VEHICLE YK72PLO BULK ROAD VEHICLES  
 CONTAINER  
 U.M. 24.00

WASTE DESCRIPTION  
 (N/HAZ SOIL) Groups 1,2,3 L Qmo (2011)  
 CODE 170504  
 DESTINATION DIS DISPOSAL  
 CONTRACT 148489\*1/1  
 EWC CODE 170504  
 PRE-TREATED  
 CONSIGNMENT CODE Non-Hazardous  
 LANDFILL TAX EXEMPTION REF. No. Lower Rate

DEPOSIT THIS LOAD AT MIXED C&D HARDCORE  
 PHASE 1 LIFT 1 CELL 1

	WEIGHT	DATE	TIME	TALLY No.
GROSS	31480 Kg	07/12/2022	08:40	B000463
TARE	13140 Kg	07/12/2022	08:46	A003558
NET	18340 Kg			
TOTAL CHARGED	** 18.34 TONNE **			

THIS IS NOT A VAT INVOICE  
 NET COST \*\*\*\*\*  
 VAT @ \*\*\*\*\* % \*\*\*\*\*  
 TOTAL COST \*\*\*\*\*

BY SIGNING THIS WASTE TRANSFER NOTE THE HOLDER / CUSTOMER IS CONFIRMING THAT THEY HAVE FULFILLED THEIR DUTY TO APPLY THE W.F.D. WASTE HIERARCHY.

FOR BIFFA WASTE SERVICES  
 JONATHAN. MCLENAHAN  
 NAME

DRIVERS SIGNATURE R. J. HOWARD ENGINEERS LTD  
 FOR  
 POUL MOORE  
 NAME

THIS DOCUMENT IS A WASTE TRANSFER NOTE AS PROVIDED FOR BY ENVIRONMENTAL PROTECTION (DUTY OF CARE) REGULATIONS 1991. A TALLY RECORD OF THIS TRANSACTION IS AVAILABLE FOR 6 MONTHS. WHERE WASTE MATERIALS ARE FOUND ON DISCHARGE TO BE INCONSISTENT WITH THE DESCRIPTION, BIFFA WASTE SERVICES RESERVE THE RIGHT TO RECOVER THE APPROPRIATE CHARGE AND ASSOCIATED TAX FROM THE CUSTOMER. BIFFA WASTE SERVICES AS OPERATORS OF THE SITE ARE AUTHORISED BY THE HOLDER OF THE APPROPRIATE PERMIT TO ACCEPT WASTE FOR DISPOSAL.

BWS194D (02/18)

# R.J. HOWARD ENGINEERS LTD.

## CIVIL ENGINEERING CONTRACTORS

53467

RSN.

Howard House, Lowfields Road, Leeds LS12 6BS. Telephone: 0113 243 2837 Fax: 0113 242 6333

### CONVEYANCE WASTE TRANSFER/DELIVERY NOTE

DATE	VEHICLE REG.	DRIVER NAME	DRIVER SIGNATURE	CLIENT
7.12.22	YK 72 PLO	Paul		

I confirm that I have applied the waste management hierarchy

CLIENT ABBY ROAD COURT STREPTON

CLIENT ADDRESS \_\_\_\_\_

TIP ADDRESS BIFPA LEADS FROM MUG

PERMIT/WML No. \_\_\_\_\_

CLIENT FULL NAME \_\_\_\_\_

CLIENT SIGNATURE 

MATERIAL	DELIVERED	COLLECTED
170504. SIC 38.21. N/HR3 SOIL-STONE	✓	
GROSS WEIGHT	COMMENTS	
TARE WEIGHT	148469.	
NETT WEIGHT		
LOADS No		
WAITING TIME		



BIFFA WASTE SERVICES LIMITED  
 CORONATION ROAD, CRESSEX  
 HIGH WYCOMBE  
 BUCKS. HP12 3TZ  
 VAT No. 537 9116 27 Company Reg. No. 946107  
 Landfill Tax no. XFLF00000100123 (Eng. & N.I.) and Landfill Disposal Tax no. 379001 (Wales)

TELEPHONE: 01494 521221  
 FACSIMILE: 01494 463368

TE 855 LEEDS RAIL HUB  
 C. No. HB3502MH  
 LICENSING AUTHORITY NORTH EAST - RIDINGS  
 LICENCE HOLDER BIFFA WASTE SERVICES LTD

TICKET No. L11259 DATE 07/12/2022

CUSTOMER  
 TRANSFER NOTE No. 54979  
 LOAD REF. DB02277  
 ORDER REF.  
 SOURCE 0 OTHER

CUSTOMER R. J. HOWARD ENGINEERS LTD  
 CODE R38179\*1\*4  
 ADDRESS C/O NEW SITE  
 ABBEY ROAD SOUTH, SHEPLEY  
 HUDDSFIELD  
 WEST YORKSHIRE  
 POSTCODE HD8 8DY SIC 38.21  
 CARRIER R. J. HOWARD ENGINEERS LTD  
 CARRIER REG. No.  
 REGISTRATION AUTHORITY  
 VEHICLE YE21AXR BULK ROAD VEHICLES  
 CONTAINER  
 U.M. 24.00

WASTE DESCRIPTION  
 (N/HAZ SOIL) Groups 1, 2, 3 L Qmo (2011)  
 CODE 170504  
 DESTINATION DIS DISPOSAL  
 CONTRACT 148489\*1/1  
 EWC CODE 170504  
 PRE-TREATED  
 CONSIGNMENT CODE  
 LANDFILL TAX EXEMPTION REF. No. Non-Hazardous Lower Rate

DEPOSIT THIS LOAD AT MIXED C&D HARDCORE  
 PHASE 1 LIFT 1 CELL 1

	WEIGHT	DATE	TIME	TALLY No.
GROSS	31600 Kg	07/12/2022	08:35	B000462
TARE	13400 Kg	07/12/2022	08:42	A003557
NET	18200 Kg			
TOTAL CHARGED	** 18.20 TONNE **			

THIS IS NOT A VAT INVOICE  
 NET COST \*\*\*\*\*  
 VAT @ \*\*\*\*\* % \*\*\*\*\*  
 TOTAL COST \*\*\*\*\*

BY SIGNING THIS WASTE TRANSFER NOTE THE HOLDER / CUSTOMER IS CONFIRMING THAT THEY HAVE FULFILLED THEIR DUTY TO APPLY THE W.F.D. WASTE HIERARCHY.

FOR BIFFA WASTE SERVICES  
 JONATHAN MCLENAHAN  
 NAME

DRIVERS SIGNATURE FOR R. J. HOWARD ENGINEERS LTD  
 RONNER PRIESTLY  
 NAME

THIS DOCUMENT IS A WASTE TRANSFER NOTE AS PROVIDED FOR BY ENVIRONMENTAL PROTECTION (DUTY OF CARE) REGULATIONS. WHERE WASTE MATERIALS ARE FOUND ON DISCHARGE TO BE INCONSISTENT WITH THE DESCRIPTION, BIFFA WASTE SERVICES RESERVE THE RIGHT TO RECOVER THE APPROPRIATE CHARGE AND ASSOCIATED TAX FROM THE CUSTOMER. BIFFA WASTE SERVICES AS OPERATORS OF THE SITE ARE AUTHORISED BY THE HOLDER OF THE APPROPRIATE PERMIT TO ACCEPT WASTE FOR DISPOSAL. TRANSACTION IS AVAILABLE FOR 6 MONTHS.

BWS194D (02/18)

# R.J. HOWARD ENGINEERS LTD. CIVIL ENGINEERING CONTRACTORS

54979

Howard House, Lowfields Road, Leeds LS12 6BS. Telephone: 0113 243 2837 Fax: 0113 242 6333

## CONVEYANCE WASTE TRANSFER/DELIVERY NOTE

DATE	VEHICLE REG.	DRIVER NAME	DRIVER SIGNATURE	CLIENT
7, 12, 2022	YE21 ARD	Reanne		SOILS & STONES

I confirm that I have applied the waste management hierarchy

CLIENT <u>ON FOR RTS</u>
CLIENT ADDRESS <u>FROM ROAD SOUTH SHIPLEY</u>
TIP ADDRESS <u>TO BIFFA SEEDS RAIL HUB</u>
PERMIT/WML No. <u>SPRINGWELL PARK LEEDS</u>
CLIENT FULL NAME _____
CLIENT SIGNATURE _____

MATERIAL	DELIVERED	COLLECTED
<u>NON HAZ 8 WHEELED</u>		<u>C</u>
GROSS WEIGHT	COMMENTS	
TARE WEIGHT	17,05,04 1 load	
NETT WEIGHT		
LOADS No		
WAITING TIME		