



E3P
Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

0161 707 9612
info@E3P.co.uk
<http://www.E3P.co.uk>

Ref: 15-017 V1
Date: 24th May 2021

Rowlinson Construction Ltd
Gardale House
118b Gatley Road
Gatley
Cheadle
SK8 4AU

BY Email

Dear Sirs,

GARDEN VALIDATION ABBEY ROAD, GORTON

An E3P engineer attended the above site to validate the thickness of the cover system that had been placed within the garden of POS Area at Abbey Road, Gorton.

In total 40No. hand excavated trial pits were advanced with the resulting strata detailed to the rear of this letter.

All trial pits were completed to highlight the required cover system of 450mm (150mm topsoil and 300mm subsoil).

E3P can confirm that our independent validation demonstrates that all gardens have been installed with 150mm of certified topsoil and at least 300mm subsoil in accordance with the NHBC requirements for a site of this nature.

TOPSOIL

E3P attended site on 20th May 2021 to obtain two samples of the stockpiled topsoil deposits which were analysed in accordance with the E3P Remediation Strategy. Chemical analysis confirmed that these topsoil deposits were chemically suitable for use within the proposed garden areas.

Chemical analysis results are included within lab report 21-77054 (attached to this letter).

SUBSOIL

E3P attended site on 20th May 2021 to obtain two samples of the stockpiled subsoil deposits which were analysed in accordance with the E3P Remediation Strategy. Chemical analysis confirmed that these subsoil deposits were chemically suitable for use within the proposed garden areas.

Chemical analysis results are included within lab report 21-77054 (attached to this letter).



Cover system validation photographs are enclosed within this letter.

I trust this information is satisfactory to your requirements, and should I be able to be of any further assistance, please do not hesitate to contact me.

Yours sincerely,

For and on behalf of E3P Ltd
Rob Horseman



Associate Director



Site: Abbey Road Gorton

Date: 20-05-2021	Project Number: 15-017
Project Manager: R.Horseman	E3P Engineer: J.James
Plot Numbers Validated: POS Area	

Chemical Laboratory Analysis

Analysis for topsoil and subsoil undertaken by I2 Analytical Laboratory using UKAS accredited methods where applicable.

Chemical analysis suite comprises heavy metals, sulphates, phenols, speciated Polycyclic Aromatic Hydrocarbons (PAHs), speciated and total Petroleum Hydrocarbons (TPH) and asbestos. Sampling frequency in accordance with the agreed Remediation Strategy. Laboratory analysis certificates attached to this validation certificate.

	Topsoil	Subsoil
<i>Chemical analysis confirmed materials suitable?</i>	Pass	Pass
<i>Further Comments</i>	N/A	N/A



Plot No: POS Area – Front end

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front end

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front end

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front end

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front end

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – Front side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park entrance

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park tree area

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park tree area

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park tree area

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park tree area

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park tree area

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park tree area

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park edge

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park edge

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park edge

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park edge

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – car park edge

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials

Depth of Cover System Materials



Depth of Cover System at Ground Level

Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



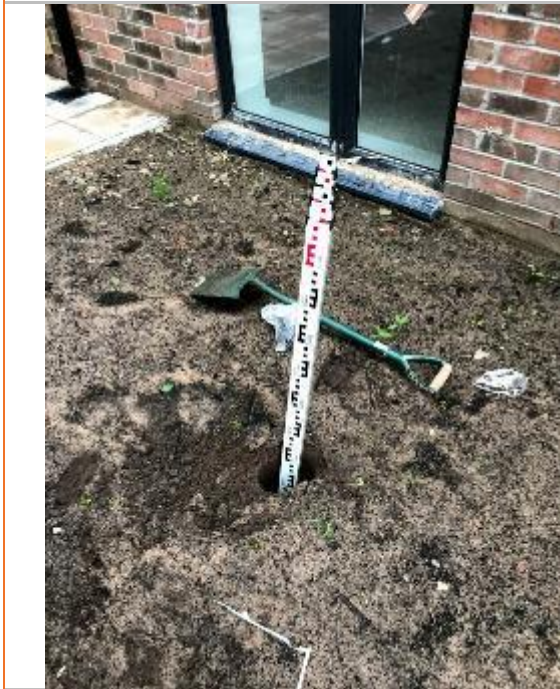
Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System Materials



Depth of Cover System in Relation to Plot



Plot No: POS Area – back side

Depth of Strata (m bgl)	0.15	Validated TOPSOIL
	0.30	Validated SUBSOIL

Depth of Cover System Materials



Depth of Cover System Materials



Depth of Cover System at Ground Level



Depth of Cover System in Relation to Plot



**Rob Horseman**

e3p
Taylor Road
Urmston
Manchester
M41 7JQ

e: Rhorseman@e3p.co.uk

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

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 21-77054

Replaces Analytical Report Number: 21-77054, issue no. 1
Client references/information amended.

Project / Site name:	Abbey Rd, Bellamy Court	Samples received on:	21/05/2021
Your job number:	15017	Samples instructed on/ Analysis started on:	25/05/2021
Your order number:	PO-15-017-RH-A	Analysis completed by:	02/06/2021
Report Issue Number:	2	Report issued on:	03/06/2021
Samples Analysed:	4 soil samples		

Signed:

Rachel Bradley
Deputy Quality Manager
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: 21-77054
Project / Site name: Abbey Rd, Bellamy Court
Your Order No: PO-15-017-RH-A

Lab Sample Number				1882227	1882228	1882229	1882230
Sample Reference				TS101	TS102	TS103	TS104
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				20/05/2021	20/05/2021	20/05/2021	20/05/2021
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	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.4	12	12	19
Total mass of sample received	kg	0.001	NONE	0.40	0.50	0.50	0.50

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
------------------	------	-----	-----------	--------------	--------------	--------------	--------------

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	8.7	8.0	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	150	660	580	490
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.013	0.093	0.14	0.046
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	27	190	270	91
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	13.4	92.7	138	45.7
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.4
Total Sulphur	mg/kg	50	MCERTS	110	360	290	320

Total Phenols

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

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.51
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.77
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.73
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.35
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.35
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.38
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.17
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.39
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 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
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	3.65
-----------------------------	-------	-----	--------	--------	--------	--------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.0	3.8	2.8	5.0
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	2.5	7.5	3.8	5.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	17	22	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	4.8	19	18	38
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	2.7	6.9	4.4	6.1
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	22	72	61	68

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
---------------	-------	---	------	-------	-------	-------	-------

Analytical Report Number: 21-77054
 Project / Site name: Abbey Rd, Bellamy Court
 Your Order No: PO-15-017-RH-A

Lab Sample Number				1882227	1882228	1882229	1882230
Sample Reference				TS101	TS102	TS103	TS104
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				20/05/2021	20/05/2021	20/05/2021	20/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	4.6	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	1.8	4.0	7.1
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0	8.3	12	15
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	< 10	12	24	24

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



Analytical Report Number : 21-77054
Project / Site name: Abbey Rd, Bellamy Court

* 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 *
1882227	TS101	None Supplied	None Supplied	Brown loam and clay with vegetation.
1882228	TS102	None Supplied	None Supplied	Brown loam and clay with vegetation.
1882229	TS103	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.
1882230	TS104	None Supplied	None Supplied	Brown loam and clay with vegetation.

Analytical Report Number : 21-77054

Project / Site name: Abbey Rd, Bellamy Court

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	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	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
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
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 Sulphur in soil	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
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
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



Analytical Report Number : 21-77054
Project / Site name: Abbey Rd, Bellamy Court

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
----------------------	-------------------------------	-----------------------------	---------------	--------------------	----------------------

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.