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CASTLEMEAD GROUP LTD

DEVELOPMENT AT JACQUES YARD, JACQUES WAY, REGENT STREET, WREXHAM, LL11 2BY
PHASE 4 - SITE REMEDIATION VERIFICATION REPORT

REPORT No. E1659.PH4.VER.R1
NOVEMBER 2022



Client : CASTLEMEAD GROUP LTD

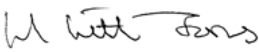
Project Title : DEVELOPMENT AT JACQUES YARD, JACQUES WAY, REGENT STREET, WREXHAM,
LL11 2BY

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Project No. E1659
Report No. E1659.PH4.VER.R1
Date. NOVEMBER 2022

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High Street
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LL17 0RD
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Distribution: CASTLEMEAD GROUP LTD

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Signed:			

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1. INTRODUCTION.

1.1 Background and Terms of Reference

1.1.1 Castlemead Group Ltd has instructed e-geo Solutions Ltd to prepare a Site Remediation Validation Report for site remediation works carried out at a new residential development on land known as Jacques Yard on Jacques Way in Wrexham.

1.1.2 The site was previously an area of unused land with a known historic use as a scrapyard. The proposed development comprises 25 residential units with associated car parking and access roads.

1.1.3 To address site contamination remediation activities were carried out to address planning conditions and to ensure the site was 'fit for use'. The site remediation activities undertaken were detailed in a report titled:

Remediation Strategy, Jacques Way. For Castlemead Group REC Reference: 108157P3R3 dated June 2020

1.1.4 The Remediation Strategy Implementation Plan Report was based on the findings of previous studies at the site which included:

- *Geo-Environmental Assessment, REC Reference: 102904p1r1, dated October 2018.*
- *Phase II Geo-Environmental & Geotechnical Site Investigation, REC 108157p2r0, dated November 2019.*
- *Stockpile Soil Sampling 108157p4r1, dated January 2020 by REC*

1.1.5 The objective of this Verification Report is to demonstrate and confirm that the site remediation works undertaken in garden areas has been implemented in accordance with the remediation proposals, and that the specific remediation objectives have been met.

1.1.6 This report presents details and evidence of the works carried out and details of placed materials used in the remediation works.

1.1.7 The report has been prepared by e-geo Solutions Ltd for the sole use of the Client, for the purposes described and no extended duty of care applies to other parties. The comments given, and opinions expressed are based on the information collated from site observations and the analysis of samples, however there may be outstanding information and data which becomes available at a later date which has an impact on the overall conclusions.

1.1.8 The copyright of this report and its contents prepared by e-geo Solutions Ltd is solely owned by e-geo Solutions Ltd. Neither this report nor contents prepared by e-geo Solutions Ltd may be reproduced, published or adapted without the express written approval of e-geo Solutions Ltd.

1.2 Site Location

1.2.1 The development site is located to the south of Jacques Way in Wrexham. There are active railway tracks to the east, west and south of the site, and a Premier Inn directly to the north. The site location is shown on Figure 1 and development boundary on Figure 2 and is centred at Grid Reference 332859, 350642.



Figure 1 – Site Location



Figure 2 – Development and Area

2. SITE CHARACTERISTICS

2.1 Site Description and Topography

- 2.1.1 Prior to development the site was an area of undeveloped land with a known historic use as a scrapyard. There were occasional areas of dense vegetation containing Japanese Knotweed, particularly towards the western and southern site boundaries. Two spoil heaps were present in the northwest area of the site, in front of an entrance to site with slight changes in elevation in the western and southern areas where the site slopes slightly towards the railway track.

2.2 Ground and Groundwater Conditions

- 2.2.1 The results of the Phase 2 Ground Contamination Investigation undertaken by REC and presented in the report Phase II Geo-Environmental & Geotechnical Site Investigation, REC 108157p2r0, dated November 2019, indicated that site is covered with a layer of made ground overlying glaciofluvial deposits.
- 2.2.2 The made ground comprised very gravelly sand to slightly clayey gravelly sand, with varying degrees of cobble content. Gravel consisted of angular to sub rounded fine to coarse brick and concrete with cobbles of brick, concrete and mudstone. The made ground was also found to contain slate, plastic, glass and metal. The thickness of made ground where proved was typically between 5.00m bgl (CP102) and 5.80m bgl (CP103). Shallow made ground was identified in TP105 to a maximum depth of 2.80mbgl.
- 2.2.3 Natural ground strata of Glaciofluvial deposits were encountered under the made ground in every exploratory hole. These were encountered to a maximum depth explored depth of 19.95m bgl (CP103) and typically consisted of gravelly silty clays, dense sand and gravels and clayey gravelly sands.

2.3 Site Contamination

- 2.3.1 The results of sampling and analysis presented in the report 'Phase II Geo-Environmental & Geotechnical Site Investigation, REC 108157p2r0 by REC Ltd' indicated that the screening values were exceeded for lead in six samples and PAHs in five samples, and asbestos in four samples. All samples were retrieved from shallow made ground and indicate potential widespread contamination.
- 2.3.2 All five samples of asbestos were submitted for quantification with all results reported as <0.001 % (The limit of detection) chrysotile fibres.
- 2.3.3 Lead concentrations ranged from 280 – 650 mg/kg and are therefore notably elevated above the screening value of 200 mg/kg.
- 2.3.4 Benzo(b)fluoranthene concentrations ranged from 3.3 to 4.9 mg/kg and are therefore consistent across the site and exceed the screening value of 3.3 mg/kg.

2.4 Proposed Development

- 2.4.1 The proposed development comprises 25 residential units with associated car parking and access roads. The proposed layout is shown as Figure 2.

3. REMEDIATION STRATEGY.

3.1 Site Conceptual Model and Risks

- 3.1.1 The results of the Phase II ground investigation and laboratory analyses identified potential risk from PAHs and lead contamination and detection of asbestos fibres within the made ground with respect to future residential receptors.

3.2 Site Remediation Objectives

- 3.2.1 Remediation measures were required at the site to remove and control the risks presented to site end-users from the identified contamination sources. The remediation was formulated with the aim of achieving the following objectives.
- Preventing contact between residents and the contaminated ground on a long-term basis, by breaking the pollution linkages.

3.3 Site Remediation Approach

- 3.3.1 Details of the approach to remediation for external garden areas are detailed in a report *Remediation Strategy Jacques Way Castlemead Group Limited 108157p3r3 June 2020 by REC Ltd*
- 3.3.2 Following a remediation options appraisal the recommended remediation approach involved provision of a clean cover system in garden areas where the elevated lead and PAH contamination was found.
- 3.3.3 Specifically the details were:

Footprint of New Residential Property – Areas beneath the footprint of the proposed buildings or access roads will break the exposure pathway for contaminants. However, the location and concentration of residual contamination will need to be recorded.

Gardens and Soft Standing – In areas of soft standing / residential gardens, a cover system will be utilised to ensure adequate thickness of a suitable growing medium is present.

The following depths of materials will be incorporated into the garden areas above a permeable barrier:

- 450mm clean imported sub-soil, free of deleterious materials; and,
- 150mm clean imported topsoil, free of deleterious materials

4. REMEDIATION WORKS.

4.1 Remediation Works Undertaken

4.1.1 Site remediation works were undertaken at the development site as follows:

- Provision of a clean cover layer in all garden areas at each property.

5. VERIFICATION.

5.1 Depth of Placed Clean Cover System Materials

- 5.1.1 Topsoil and subsoil materials have been imported to the site for use as a clean cover material and placed in the garden areas of properties. Observation pipes comprising 100mm diameter drainage pipe were placed in each garden area during soil placement to allow final depth measurement of placed soils.
- 5.1.2 A high visibility geotextile has been placed on the original ground surface and below the clean cover system in garden areas and was observed at the base of the observation pipe in each garden area.
- 5.1.3 The depths of soil materials as measured in the observation pipes is presented below:

PLOT NR	Soil Depth (Subsoil + Topsoil) mm	Turf and Topsoil mm	TOTAL DEPTH mm
8	570	70	640
9	580	70	650
10	550	70	620
11	550	70	620
12	650	70	720
13	610	70	680
14	570	70	640
15	700	70	770
16	600	70	670
17	550	70	620
24	750	incl	750

- 5.1.4 Photographic evidence of soil material placement and the achieved depths is presented below:



Plate 1 – Plot 8



Plate 2 – Plot 9



Plate 3 – Plot 10



Plate 4 – Plot 11



Plate 5 – Plot 12



Plate 6 – Plot 13



Plate 7 – Plot 14



Plate 8 – Plot 15



Plate 9 – Plot 16



Plate 10 – Plot 17



Plate 11 – Plot 24

5.2 Placed Clean Cover System Materials Type and Quantities

- 5.2.1 Only subsoil and topsoil material has been imported to the site for use as a clean cover system. Receipts for the imported material are presented in Appendix 1.

5.3 Ground Excavation and Disposal

- 5.3.1 Ground levels have been raised across the site in garden areas. No ground excavation has been undertaken and no soils have been disposed of off-site.

5.4 Chemical Analysis of Clean Cover System Soils

- 5.4.1 Samples of the placed topsoil and subsoil were collected from depths of 0 -100mm and 200 – 300mm in the rear gardens at Plot 8, Plot 9, Plot 10. These samples are taken as representative of soils placed in all garden areas and meet the frequency specified in the *Remediation Strategy Jacques Way Castlemead Group Limited 108157p3r3 June 2020 by REC Ltd* of 1 sample per 50m³ topsoil and 1 sample per 250m³ subsoil. The results of the chemical analytical are presented in Appendix 2.
- 5.4.2 The analytical results have been assessed against the screening values presented in the *Remediation Strategy Jacques Way Castlemead Group Limited 108157p3r3 June 2020 by REC Ltd* report . The analytical reports on the soil samples when compared to the screening values indicate the following:
- The concentrations of total metals lead, arsenic, barium, beryllium, cadmium, mercury, selenium, vanadium and chromium are below the respective guidelines concentrations for the intended end use
 - The concentrations of phytotoxic metals copper, nickel and zinc are not elevated and below the guideline concentrations
 - Water soluble chloride, fluoride and sulphate are below the guideline concentrations
 - BTEX concentrations are below detection limits
 - The PAH concentrations and speciated fractions are significantly below the guideline concentrations or below detection limits
 - TPH concentrations and the speciated fractions are significantly below the guideline concentrations or below detection limits
 - No asbestos was detected within the soil samples

6. CONCLUSIONS.

6.1 Conclusion

- 6.1.1 Site remediation works have been carried out at a new residential development on land known as Jacques Yard on Jacques Way in Wrexham
- 6.1.2 A clean cover system of imported uncontaminated subsoil and topsoil has been placed to a depth of 600mm in rear garden areas. Site measurements of the clean cover system depth has confirmed at least 600mm of placed soils. Validation testing and chemical analysis of representative samples of topsoil and subsoil samples from imported soils has confirmed that the placed soils are uncontaminated with respect to the chemical parameters for which analysis was undertaken.
- 6.1.3 The findings of the soil depths measurements and chemical analysis of representative soil samples indicate that the remediation objectives have been met.

Appendix 1 - Imported Soil Materials Delivery Tickets

North West Groundworks & Landscaping Ltd
 Suite 120, Imperial Court
 Exchange Street East
 Liverpool
 L2 3AB



**North West Groundworks
and Landscaping Ltd**

Purchase Order

Supplier :	Delivery Address	Date :
Think Aggregates & Recycling Rhuallt St. Asaph Denbighshire Contact : Email : creditcontrol@apk.uk.com	Jacques Way Mold Road Wrexham LL11 2BY	13/09/21
		Order Number :
		PO00653
		Contract Name:
		Jacques Way

Delivery Date : 16 September 2021

Contact: Nick Jones Bart Wilkins

Telephone: 07739 551848 07396 946057

Description	Quantity	Units	Price	Total
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Import Soil from CW06 ORS to LL11 2BY per load TO BE CALLED OFF BY SITE	50.00	Load	100.00	5,000.00
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Nett :	5,000.00
Vat :	1,000.00
Order Total Value :	6,000.00

Standard Payment Terms are 35 Days End Of Month - unless otherwise agreed.
 Please send all invoices to: accounts@castlemeadgroup.co.uk by the end of the month to avoid payment delays.
 This purchase order is sent in line with Castlemead's standard terms and conditions



AGGREGATES &
RECYCLING

GTR Aggregates & Recycling Ltd
Waste Transfer Station
Deebank Industrial Estate
Boot End
Bagillt
CH6 6HJ

SALES INVOICE

PO 00653

Account	SITE	Account No. N012
North West Groundworks and Landscaping Ltd UNIT 1, SUITE 120 IMPERIAL COURT EXCHANGE STREET EAST LIVERPOOL	NORTH WEST GROUNDWORKS AND LANDSCAPING LTD JACQUES WAY MOLD ROAD WREXHAM LL11 2BY	Invoice No: 12595 Invoice Date - 04/10/2021

Date	Ticket	Description	Unit	Qty	Price	Value
01/10/2021	93593	Haulage	Load	1.00	£100.00	£100.00
01/10/2021	93594	Haulage	Load	1.00	£100.00	£100.00
01/10/2021	93595	Haulage	Load	1.00	£100.00	£100.00
01/10/2021	93596	Haulage	Load	1.00	£100.00	£100.00
01/10/2021	93597	Haulage	Load	1.00	£100.00	£100.00

GTR Aggregates & Recycling Ltd
Lloyds Bank
Sort Code 30-65-22
Account 82150768

Payment Terms: Strictly 30 Days Net
Vat Reg: 310 5852 87

Sub-Total	£500.00
VAT at 20.00%	£100.00
Total	£600.00

AGGREGATES &
RECYCLING

Ticket No: 93597

Date: 01/10/2021

Customer Order No: 000124/po00653

Account Address:

C002
Castlemead Homes
ABENBURY HOUSE
17 WILKINSON BUSINESS PARK
CLWYEDOG ROAD SOUTH, LL13 9AE

Address:

NORTH WEST GROUNDWORKS AND LANDSCAPING LTD
JACQUES WAY
MOLD ROAD
WREXHAM
LL11 2BY

Vehicle: PN70AFZ

Cash Sale: No

Time On Site

Time Off Site

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulations 12 of the waste (England and Wales) regulations 2011

Terms and conditions

- Placing vehicles on block paving, slabbed driveways, soft and unlevel ground is done so at the customers risk.
- GTR take no responsibility for damage to the customers premises if the ground or site is unsuitable for a HGV. GTR will not accept damage caused to a manhole that are not capable for carrying the weight of a HGV.
- No electrical items including fridges/freezers, tyres, asbestos, gas bottles.
- Please see our website for the full list of terms and conditions.

Product:	EWC	Unit:	Qty:	Outlet:
HAUL		LOAD	1.00	HAUL

From Customer: NO ONE ON SITE

From Driver: Adrian Rowley

To Customer: NO ONE ON SITE

To Driver: Adrian Rowley

AGGREGATES &
RECYCLING

Ticket No: 93595

Date: 01/10/2021

Customer Order No: 000124/po00653

Account Address:

C002
Castlemead Homes
ABENBURY HOUSE
17 WILKINSON BUSINESS PARK
CLWYEDOG ROAD SOUTH, LL13 9AE

Address:

NORTH WEST GROUNDWORKS AND LANDSCAPING LTD
JACQUES WAY
MOLD ROAD
WREXHAM
LL11 2BY

Vehicle: PN70AFZ

Cash Sale: No

Time On Site

Time Off Site

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulations 12 of the waste (England and Wales) regulations 2011

Terms and conditions

- Placing vehicles on block paving, slabbed driveways, soft and unlevel ground is done so at the customers risk.
- GTR take no responsibility for damage to the customers premises if the ground or site is unsuitable for a HGV. GTR will not accept damage caused to a manhole that are not capable for carrying the weight of a HGV.
- No electrical items including fridges/freezers, tyres, asbestos, gas bottles.
- Please see our website for the full list of terms and conditions.

Product:	EWC	Unit:	Qty:	Outlet:
HAUL		LOAD	1.00	HAUL

From Customer: NO ONE ON SITE

From Driver: Adrian Rowley

To Customer: NO ONE ON SITE

To Driver: Adrian Rowley

AGGREGATES &
RECYCLING

Ticket No: 93593

Date: 01/10/2021

Customer Order No: 000124/po00653

Account Address:

C002
Castlemead Homes
ABENBURY HOUSE
17 WILKINSON BUSINESS PARK
CLWYEDOG ROAD SOUTH, LL13 9AE

Address:

NORTH WEST GROUNDWORKS AND LANDSCAPING LTD
JACQUES WAY
MOLD ROAD
WREXHAM
LL11 2BY

Vehicle: PN70AFZ

Cash Sale: No

Time On Site

Time Off Site

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulations 12 of the waste (England and Wales) regulations 2011

Terms and conditions

- Placing vehicles on block paving, slabbed driveways, soft and unlevel ground is done so at the customers risk.
- GTR take no responsibility for damage to the customers premises if the ground or site is unsuitable for a HGV. GTR will not accept damage caused to a manhole that are not capable for carrying the weight of a HGV.
- No electrical items including fridges/freezers, tyres, asbestos, gas bottles.
- Please see our website for the full list of terms and conditions.

Product:	EWC	Unit:	Qty:	Outlet:
HAUL		LOAD	1.00	HAUL

From Customer: NO ONE ON SITE

From Driver: Adrian Rowley

To Customer: NO ONE ON SITE

To Driver: Adrian Rowley

AGGREGATES &
RECYCLING

Ticket No: 93596

Date: 01/10/2021

Customer Order No: 000124/po00653

Account Address:

C002
Castlemead Homes
ABENBURY HOUSE
17 WILKINSON BUSINESS PARK
CLWYEDOG ROAD SOUTH, LL13 9AE

Address:

NORTH WEST GROUNDWORKS AND LANDSCAPING LTD
JACQUES WAY
MOLD ROAD
WREXHAM
LL11 2BY

Vehicle: PN70AFZ

Cash Sale: No

Time On Site

Time Off Site

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulations 12 of the waste (England and Wales) regulations 2011

Terms and conditions

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- No electrical items including fridges/freezers, tyres, asbestos, gas bottles.
- Please see our website for the full list of terms and conditions.

Product:	EWC	Unit:	Qty:	Outlet:
HAUL		LOAD	1.00	HAUL

From Customer: NO ONE ON SITE

From Driver: Adrian Rowley

To Customer: NO ONE ON SITE

To Driver: Adrian Rowley

AGGREGATES &
RECYCLING

Ticket No: 93594

Date: 01/10/2021

Customer Order No: 000124/po00653

Account Address:

C002
Castlemead Homes
ABENBURY HOUSE
17 WILKINSON BUSINESS PARK
CLWYEDOG ROAD SOUTH, LL13 9AE

Address:

NORTH WEST GROUNDWORKS AND LANDSCAPING LTD
JACQUES WAY
MOLD ROAD
WREXHAM
LL11 2BY

Vehicle: PN70AFZ

Cash Sale: No

Time On Site

Time Off Site

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulations 12 of the waste (England and Wales) regulations 2011

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- No electrical items including fridges/freezers, tyres, asbestos, gas bottles.
- Please see our website for the full list of terms and conditions.

Product:	EWC	Unit:	Qty:	Outlet:
HAUL		LOAD	1.00	HAUL

From Customer: NO ONE ON SITE

From Driver: Adrian Rowley

To Customer: NO ONE ON SITE

To Driver: Adrian Rowley

Appendix 2 - Chemical Analysis Results – Topsoil and Sub-soil

Castlemead Group Ltd
Abenbury House
17 Wilkinson Business Park
Clywedog Rd South
Wrexham
LL13 9AE

Date: 11 November 2022
Test Report Ref: TR 918524

Page 1 of 3

Contract: Jacques Way

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the chemical analysis of a sample as per client request.

SAMPLE DETAILS:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S106521
Client Ref. No:	06-00415
Date and Time of Sampling:	02/11/2022 (10:05)
Date of Receipt at Lab:	02/11/2022
Date of Start of Test:	04/11/2022
Sampling Location:	Rear Garden of Plot 8 @ 0 to 100mm
Name of Source:	Jacques Way, Wrexham
Method of Sampling:	In-house SO/SP
Sampled By:	Celtest
Tested By:	Subcontract Laboratory
Material Description:	Topsoil
Target Specification:	N/A

Results:

See Attached

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

The work was carried out by our competent, sub contracted laboratory.

Report checked and approved by:



Neil Hughes
Assistant Aggregate Team Manager

Test Report Ref: TR 918524 Page 2 of 3

Metals	Unit	Result
Arsenic	mg/kg	6.9
Barium	mg/kg	90.9
Beryllium	mg/kg	< 0.5
Cadmium	mg/kg	0.3
Chromium	mg/kg	13.3
Copper	mg/kg	30.2
Lead	mg/kg	36.7
Mercury	mg/kg	< 0.1
Nickel	mg/kg	14.8
Selenium	mg/kg	< 1.0
Vanadium	mg/kg	12.5
Zinc	mg/kg	65.3
Anions		
Water Soluble Chloride	mg/kg	< 40
Water Soluble Fluoride	mg/kg	< 40
Water Soluble Sulphate	mg/kg	179
Polyaromatic hydrocarbons		
Naphthalene	mg/kg	< 0.1
Acenaphthylene	mg/kg	< 0.1
Acenaphthene	mg/kg	< 0.1
Fluorene	mg/kg	< 0.1
Phenanthrene	mg/kg	< 0.1
Anthracene	mg/kg	< 0.1
Fluoranthene	mg/kg	< 0.1
Pyrene	mg/kg	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1
Chrysene	mg/kg	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1
Dibenzo(a,h)anthracene	mg/kg	< 0.1
Benzo[g,h,i]perylene	mg/kg	< 0.1
Total PAH(16)	mg/kg	< 0.4
BTEX		
Benzene	mg/kg	< 0.01
Toluene	mg/kg	< 0.01
Ethylbenzene	mg/kg	< 0.01
Xylenes	mg/kg	< 0.01
MTBE	mg/kg	< 0.01

Test Report Ref: TR 918524 Page 3 of 3

TPH CWG	Unit	Result
>C5-C6 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	mg/kg	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	mg/kg	1.3
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	mg/kg	1.4

Asbestos

No Asbestos Detected

Castlemead Group Ltd
Abenbury House
17 Wilkinson Business Park
Clywedog Rd South
Wrexham
LL13 9AE

Date: 11 November 2022
Test Report Ref: TR 918523

Page 1 of 3

Contract: Jacques Way

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the chemical analysis of a sample as per client request.

SAMPLE DETAILS:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S106521
Client Ref. No:	06-00416
Date and Time of Sampling:	02/11/2022 (10:15)
Date of Receipt at Lab:	02/11/2022
Date of Start of Test:	04/11/2022
Sampling Location:	Rear Garden of Plot 8 @ 200 to 300mm
Name of Source:	Jacques Way, Wrexham
Method of Sampling:	In-house SO/SP
Sampled By:	Celtest
Tested By:	Subcontract Laboratory
Material Description:	Sub soil :- Firm Red Brown Silty Sandy Clay & Occasional Gravel
Target Specification:	N/A

Results:

See Attached

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

The work was carried out by our competent, sub contracted laboratory.

Report checked and approved by:



Neil Hughes

Assistant Aggregate Team Manager

Test Report Ref: TR 918523 Page 2 of 3

Metals	Unit	Result
Arsenic	mg/kg	7.5
Barium	mg/kg	65.8
Beryllium	mg/kg	0.7
Cadmium	mg/kg	0.2
Chromium	mg/kg	22.4
Copper	mg/kg	29.3
Lead	mg/kg	30.6
Mercury	mg/kg	< 0.1
Nickel	mg/kg	19.4
Selenium	mg/kg	< 1.0
Vanadium	mg/kg	22.2
Zinc	mg/kg	77.4
Anions		
Water Soluble Chloride	mg/kg	< 40
Water Soluble Fluoride	mg/kg	< 40
Water Soluble Sulphate	mg/kg	184
Polyaromatic hydrocarbons		
Naphthalene	mg/kg	< 0.1
Acenaphthylene	mg/kg	< 0.1
Acenaphthene	mg/kg	< 0.1
Fluorene	mg/kg	< 0.1
Phenanthrene	mg/kg	< 0.1
Anthracene	mg/kg	< 0.1
Fluoranthene	mg/kg	< 0.1
Pyrene	mg/kg	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1
Chrysene	mg/kg	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1
Dibenzo(a,h)anthracene	mg/kg	< 0.1
Benzo[g,h,i]perylene	mg/kg	< 0.1
Total PAH(16)	mg/kg	< 0.4
BTEX		
Benzene	mg/kg	< 0.01
Toluene	mg/kg	< 0.01
Ethylbenzene	mg/kg	< 0.01
Xylenes	mg/kg	< 0.01
MTBE	mg/kg	< 0.01

Test Report Ref: TR 918523 Page 3 of 3

TPH CWG	Unit	Result
>C5-C6 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	mg/kg	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	mg/kg	< 1.0

Asbestos

No Asbestos Detected

Castlemead Group Ltd
Abenbury House
17 Wilkinson Business Park
Clywedog Rd South
Wrexham
LL13 9AE

Date: 11 November 2022
Test Report Ref: TR 918522

Page 1 of 3

Contract: Jacques Way

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the chemical analysis of a sample as per client request.

SAMPLE DETAILS:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S106521
Client Ref. No:	06-00417
Date and Time of Sampling:	02/11/2022 (10:30)
Date of Receipt at Lab:	02/11/2022
Date of Start of Test:	04/11/2022
Sampling Location:	Rear Garden of Plot 9 @ 0 to 100mm
Name of Source:	Jacques Way, Wrexham
Method of Sampling:	In-house SO/SP
Sampled By:	Celtest
Tested By:	Subcontract Laboratory
Material Description:	Topsoil
Target Specification:	N/A

Results:

See Attached

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

The work was carried out by our competent, sub contracted laboratory.

Report checked and approved by:



Neil Hughes
Assistant Aggregate Team Manager

Test Report Ref: TR 918522 Page 2 of 3

Metals	Unit	Result
Arsenic	mg/kg	7.0
Barium	mg/kg	86.4
Beryllium	mg/kg	0.5
Cadmium	mg/kg	0.3
Chromium	mg/kg	15.4
Copper	mg/kg	30.3
Lead	mg/kg	42.2
Mercury	mg/kg	< 0.1
Nickel	mg/kg	15.5
Selenium	mg/kg	< 1.0
Vanadium	mg/kg	13.7
Zinc	mg/kg	75.6
Anions		
Water Soluble Chloride	mg/kg	< 40
Water Soluble Fluoride	mg/kg	< 40
Water Soluble Sulphate	mg/kg	64
Polyaromatic hydrocarbons		
Naphthalene	mg/kg	< 0.1
Acenaphthylene	mg/kg	< 0.1
Acenaphthene	mg/kg	< 0.1
Fluorene	mg/kg	< 0.1
Phenanthrene	mg/kg	< 0.1
Anthracene	mg/kg	< 0.1
Fluoranthene	mg/kg	< 0.1
Pyrene	mg/kg	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1
Chrysene	mg/kg	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1
Dibenzo(a,h)anthracene	mg/kg	< 0.1
Benzo[g,h,i]perylene	mg/kg	< 0.1
Total PAH(16)	mg/kg	< 0.4
BTEX		
Benzene	mg/kg	< 0.01
Toluene	mg/kg	< 0.01
Ethylbenzene	mg/kg	< 0.01
Xylenes	mg/kg	< 0.01
MTBE	mg/kg	< 0.01

Test Report Ref: TR 918522 Page 3 of 3

TPH CWG	Unit	Result
>C5-C6 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	mg/kg	1.1
>C5-C7 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	mg/kg	1.6
>C35-C40 Aromatic (EH_2D_AR)	mg/kg	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	mg/kg	2.5
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	mg/kg	3.6

Asbestos

No Asbestos Detected

Castlemead Group Ltd
Abenbury House
17 Wilkinson Business Park
Clywedog Rd South
Wrexham
LL13 9AE

Date: 11 November 2022
Test Report Ref: TR 918521

Page 1 of 3

Contract: Jacques Way

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the chemical analysis of a sample as per client request.

SAMPLE DETAILS:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S106521
Client Ref. No:	06-00418
Date and Time of Sampling:	02/11/2022 (10:40)
Date of Receipt at Lab:	02/11/2022
Date of Start of Test:	04/11/2022
Sampling Location:	Rear Garden of Plot 9 @ 200 to 300mm
Name of Source:	Jacques Way, Wrexham
Method of Sampling:	In-house SO/SP
Sampled By:	Celtest
Tested By:	Subcontract Laboratory
Material Description:	Sub Soil :- Firm Red Brown Silty Sandy Clay & Occasional Gravel
Target Specification:	N/A

Results:

See Attached

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These results relate only to the items tested.

Comments:

The work was carried out by our competent, sub contracted laboratory.

Report checked and approved by:



Neil Hughes

Assistant Aggregate Team Manager

Test Report Ref: TR 918521 Page 2 of 3

Metals	Unit	Result
Arsenic	mg/kg	6.3
Barium	mg/kg	56.7
Beryllium	mg/kg	0.6
Cadmium	mg/kg	0.2
Chromium	mg/kg	18.4
Copper	mg/kg	24.4
Lead	mg/kg	25.9
Mercury	mg/kg	< 0.1
Nickel	mg/kg	14.8
Selenium	mg/kg	< 1.0
Vanadium	mg/kg	18.8
Zinc	mg/kg	63.8
Anions		
Water Soluble Chloride	mg/kg	72
Water Soluble Fluoride	mg/kg	< 40
Water Soluble Sulphate	mg/kg	151
Polyaromatic hydrocarbons		
Naphthalene	mg/kg	< 0.1
Acenaphthylene	mg/kg	< 0.1
Acenaphthene	mg/kg	< 0.1
Fluorene	mg/kg	< 0.1
Phenanthrene	mg/kg	< 0.1
Anthracene	mg/kg	< 0.1
Fluoranthene	mg/kg	< 0.1
Pyrene	mg/kg	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1
Chrysene	mg/kg	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1
Dibenzo(a,h)anthracene	mg/kg	< 0.1
Benzo[g,h,i]perylene	mg/kg	< 0.1
Total PAH(16)	mg/kg	0.4
BTEX		
Benzene	mg/kg	< 0.01
Toluene	mg/kg	< 0.01
Ethylbenzene	mg/kg	< 0.01
Xylenes	mg/kg	< 0.01
MTBE	mg/kg	< 0.01

Test Report Ref: TR 918521 Page 3 of 3

TPH CWG	Unit	Result
>C5-C6 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	mg/kg	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	mg/kg	< 1.0

Asbestos

No Asbestos Detected

Castlemead Group Ltd
Abenbury House
17 Wilkinson Business Park
Clywedog Rd South
Wrexham
LL13 9AE

Date: 11 November 2022
Test Report Ref: TR 918520

Page 1 of 3

Contract: Jacques Way

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the chemical analysis of a sample as per client request.

SAMPLE DETAILS:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S106521
Client Ref. No:	06-00419
Date and Time of Sampling:	02/11/2022 (10:50)
Date of Receipt at Lab:	02/11/2022
Date of Start of Test:	04/11/2022
Sampling Location:	Rear Garden of Plot 10 @ 0 to 100mm
Name of Source:	Jacques Way, Wrexham
Method of Sampling:	In-house SO/SP
Sampled By:	Celtest
Tested By:	Subcontract Laboratory
Material Description:	Topsoil
Target Specification:	N/A

Results:

See Attached

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These results relate only to the items tested.

Comments:

The work was carried out by our competent, sub contracted laboratory.

Report checked and approved by:



Neil Hughes

Assistant Aggregate Team Manager

Test Report Ref: TR 918520 Page 2 of 3

Metals	Unit	Result
Arsenic	mg/kg	6.5
Barium	mg/kg	78.4
Beryllium	mg/kg	< 0.5
Cadmium	mg/kg	0.3
Chromium	mg/kg	13.3
Copper	mg/kg	27.5
Lead	mg/kg	34.5
Mercury	mg/kg	< 0.1
Nickel	mg/kg	14.1
Selenium	mg/kg	< 1.0
Vanadium	mg/kg	13.1
Zinc	mg/kg	62.2
Anions		
Water Soluble Chloride	mg/kg	< 40
Water Soluble Fluoride	mg/kg	< 40
Water Soluble Sulphate	mg/kg	73
Polyaromatic hydrocarbons		
Naphthalene	mg/kg	< 0.1
Acenaphthylene	mg/kg	< 0.1
Acenaphthene	mg/kg	< 0.1
Fluorene	mg/kg	< 0.1
Phenanthrene	mg/kg	< 0.1
Anthracene	mg/kg	< 0.1
Fluoranthene	mg/kg	0.1
Pyrene	mg/kg	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1
Chrysene	mg/kg	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1
Dibenzo(a,h)anthracene	mg/kg	< 0.1
Benzo[g,h,i]perylene	mg/kg	< 0.1
Total PAH(16)	mg/kg	< 0.4
BTEX		
Benzene	mg/kg	< 0.01
Toluene	mg/kg	< 0.01
Ethylbenzene	mg/kg	< 0.01
Xylenes	mg/kg	< 0.01
MTBE	mg/kg	< 0.01

Test Report Ref: TR 918520 Page 3 of 3

TPH CWG	Unit	Result
>C5-C6 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	mg/kg	1.2
>C35-C40 Aromatic (EH_2D_AR)	mg/kg	1.1
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	mg/kg	2.4
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	mg/kg	2.9

Asbestos

No Asbestos Detected

Castlemead Group Ltd
Abenbury House
17 Wilkinson Business Park
Clywedog Rd South
Wrexham
LL13 9AE

Date: 11 November 2022
Test Report Ref: TR 918519

Page 1 of 3

Contract: Jacques Way

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the chemical analysis of a sample as per client request.

SAMPLE DETAILS:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S106521
Client Ref. No:	06-00420
Date and Time of Sampling:	02/11/2022 (11:00)
Date of Receipt at Lab:	02/11/2022
Date of Start of Test:	04/01/2022
Sampling Location:	Rear Garden of Plot 10 @ 200 to 300mm
Name of Source:	Jacques Way, Wrexham
Method of Sampling:	In-house SO/SP
Sampled By:	Celtest
Tested By:	Subcontract Laboratory
Material Description:	Sub Soil : Firm Red Brown Silty Sandy Clay & Occasional Gravel
Target Specification:	N/A

Results:

See Attached

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These results relate only to the items tested.

Comments:

The work was carried out by our competent, sub contracted laboratory.

Report checked and approved by:



Neil Hughes
Assistant Aggregate Team Manager

Test Report Ref: TR 918519 Page 2 of 3

Metals	Unit	Result
Arsenic	mg/kg	6.6
Barium	mg/kg	68.0
Beryllium	mg/kg	0.7
Cadmium	mg/kg	0.2
Chromium	mg/kg	22.5
Copper	mg/kg	27.0
Lead	mg/kg	31.0
Mercury	mg/kg	< 0.1
Nickel	mg/kg	20.3
Selenium	mg/kg	< 1.0
Vanadium	mg/kg	22.7
Zinc	mg/kg	74.9
Anions		
Water Soluble Chloride	mg/kg	82
Water Soluble Fluoride	mg/kg	< 40
Water Soluble Sulphate	mg/kg	148
Polyaromatic hydrocarbons		
Naphthalene	mg/kg	< 0.1
Acenaphthylene	mg/kg	< 0.1
Acenaphthene	mg/kg	< 0.1
Fluorene	mg/kg	< 0.1
Phenanthrene	mg/kg	< 0.1
Anthracene	mg/kg	< 0.1
Fluoranthene	mg/kg	< 0.1
Pyrene	mg/kg	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1
Chrysene	mg/kg	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1
Dibenzo(a,h)anthracene	mg/kg	< 0.1
Benzo[g,h,i]perylene	mg/kg	< 0.1
Total PAH(16)	mg/kg	< 0.4
BTEX		
Benzene	mg/kg	< 0.01
Toluene	mg/kg	< 0.01
Ethylbenzene	mg/kg	< 0.01
Xylenes	mg/kg	< 0.01
MTBE	mg/kg	< 0.01

STR Ref: Test Report Ref: TR 918519 Page 3 of 3

TPH CWG	Unit	Result
>C5-C6 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	mg/kg	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	mg/kg	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	mg/kg	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	mg/kg	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	mg/kg	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	mg/kg	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	mg/kg	< 1.0

Asbestos

No Asbestos Detected