
Soil diesel contamination - 24 complaints of contaminated water in major incident in Jan 2024 - Marleigh Housing Development CB5 8AA

[REDACTED] <[REDACTED]@environment-agency.gov.uk>
To: "hilarybannerman"

18 July 2025 at 14:33

Good afternoon Hilary

I refer to your e-mail dated 13 June 2025 regarding the pollution incident at the Marleigh Housing Development.

We understand that the incident involved localised leakage from above ground fuel tanks during construction on the site. Clean-up of the contamination was subsequently managed via Condition 44 (Unexpected Contamination) on S/2682/13/OL. The EA were consulted by the LPA in respect of the incident and condition 44 and, along with the Contaminated Land officer, agreed to a remedial strategy involving excavation of impacted soils, validation of the sides and base of the excavation, and backfill with materials validated in accordance with the approved materials Management Plan. Further details are available at <https://applications.greatercambridgeplanning.org/online-applications/applicationDetails.do?activeTab=documents&keyVal=SD3TOADX14G00>. However, the EA cannot retrospectively carry out a pollution incident investigation because of the time since the incident occurred and the fact that we do not have our own evidence.

Best regards

[REDACTED]

Technical Specialist - Groundwater & Contaminated Land

East Anglia Area (Cambs & Beds Team)

Environment Agency, Bromholme Lane, Brampton, Huntingdon, Cambs. PE28 4NE

Mobile: [REDACTED]

E-mail [REDACTED]@environment-agency.gov.uk

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Planning Condition 44: Unexpected Contamination

Land North of Newmarket Road, Cambridge (Marleigh / Wing Development)

What this document is about

This document is a non-technical summary. It explains how unexpected ground contamination was identified during development works, how it was investigated and addressed, and how the Local Planning Authority has formally accepted the approach under *Condition 44* of the outline planning permission.

Condition 44 requires that, if contamination is discovered during construction, appropriate investigations and remediation proposals are submitted and approved before works continue. This process has now been completed.

As a result, South Cambridgeshire District Council has confirmed a part-discharge of Condition 44 for the relevant area of the site.

What happened (plain English)

- A small, localised area of fuel-related contamination was identified.
- Specialist investigations confirmed the issue was limited in extent and did not pose a risk to health.
- A suitable remediation approach was proposed by environmental specialists (Enzygo).
- The proposals were reviewed by:
 - South Cambridgeshire District Council
 - Cambridge City Council Environmental Health
 - The Environment Agency
- All consultees confirmed they were satisfied with the approach.
- The Council has therefore approved the submission and part-discharged Condition 44.

What this bundle contains

This combined PDF brings together all formal decisions, consultation responses, application records, and supporting technical evidence in one place.

Key outcome documents appear first, with technical detail included later for completeness and audit purposes.

Guide to the Contents (with page numbers)

Section	Document	Purpose	Pages
1	Decision Notice – Part Discharge of Condition 44	The formal Council decision confirming that Condition 44 has been part-discharged for the affected area. This is the key outcome document.	1–3
2	Acknowledgement & Validation Letters	Confirms receipt of the application, validation, and case handling by the Council.	4–7
3	Environment Agency Consultation Response	Confirms agreement with the remediation approach, subject to a future verification report.	8
4	Environmental Quality & Growth Response (Cambridge City Council)	Environmental Health comments confirming the issue is appropriately addressed.	9
5	Climate, Waste & Environment (Contaminated Land) Response	Confirms acceptance of the remediation measures and explains the nature of the contamination.	10–11

Section	Document	Purpose	Pages
6	Applicant Covering Letter – Condition 44 Submission	Explains what was submitted and why, in support of discharging Condition 44.	12
7	Other Relevant Information (Portal Summary)	Administrative confirmation linking supporting documents within the planning portal.	13
8	Application Form (Redacted)	The formal planning application submitted to discharge Condition 44.	14–18
9	Attachment Summary from Planning Portal	Lists all documents submitted as part of the application.	19–20
10	Fee Calculation & Receipt	Evidence that the correct planning fee was paid and received.	21–22
11	Enzygo Geoenvironmental Letter Report – Unforeseen Contamination	The main technical report explaining what contamination was found, how it occurred, and how it is being addressed.	23–27
12	Laboratory Test Results & Investigation Data	Detailed soil and water testing data supporting the conclusions of the Enzygo report. Included for completeness and audit purposes.	28–113
13	Plans and Figures (Extent of Contamination)	Drawings showing the location and extent of the contamination within Phase 1B.	114–115

How to use this document

- For the decision outcome:
Read Section 1 (pages 1–3).
 - For confirmation from regulators:
Read Sections 3–5 (pages 9–12).
 - For an explanation of the issue and solution:
Read Section 11 (pages 24–27).
 - For audit, legal, or due-diligence purposes:
The remaining sections provide the full supporting record.
-

Overall conclusion

The unexpected contamination has been properly investigated, appropriately managed, and formally accepted by all relevant authorities.

Condition 44 has been part-discharged, allowing development to proceed in accordance with planning requirements.

Our Ref: S/2682/13/COND44
Your Ref: Land North of Newmarket Road, Ca

1 July 2024



Denis Devane
Hill Partnerships Limited
The Power House
Gunpowder Mill
Powdermill Lane
Waltham Abbey
Essex
EN29 1BN

South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge
CB23 6EA

www.scambs.gov.uk | www.cambridge.gov.uk

Dear Sir/Madam

SOUTH CAMBRIDGESHIRE DISTRICT COUNCIL
Application for Approval of Details Reserved by Condition

Proposal: Submission of details required by condition 44 (remediation strategy) of outline planning permission S/2682/13/OL

Site address: Land North Of Newmarket Road Cambridge CB5 8AA

Your client: Mr Will Cobley

Please find enclosed our formal decision notice relating to your client's application for approval of details relating to the above planning condition.

Yours faithfully

SJ Kelly
Joint Director For Planning & Economic Development For
Cambridge & South Cambridgeshire

South Cambridgeshire District Council
Town & Country Planning Act 1990



Part Discharged Condition

Reference S/2682/13/COND44
Date of Decision 1 July 2024

Denis Devane
Hill Partnerships Limited
The Power House
Gunpowder Mill
Powdermill Lane
Waltham Abbey
Essex
EN29 1BN

The Council hereby PART DISCHARGE the following condition:

Submission of details required by condition 44 (remediation strategy) of outline planning permission S/2682/13/OL

at

Land North Of Newmarket Road Cambridge CB5 8AA

in accordance with your application received 7th May 2024 and the plans, drawings and documents which form part of the application as described below:

Details

Condition 1

Letter Report — Unforeseen Contamination by Enzygo Geo Environmental dated 3 May 2024

This decision part discharges outline condition 44 in relation to land at phase 1b of Area A2 only, of planning reference S/2682/13/OL.

Informatives

- 1 Condition 44 remains applicable for the duration of development works and the Local Planning Authority looks forward to receiving the subsequent verification report in due course.

Authorised by:



SJ Kelly
Joint Director For Planning & Economic Development For
Cambridge & South Cambridgeshire

South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge
CB23 6EA

Date the decision was made: 1 July 2024

Our Ref: S/2682/13/COND44
Your Ref: Land North of Newmarket Road, Ca

9 May 2024



Mr Will Cobley
Terence O'Rourke Limited
Everdene House
Deansleigh Road
Bournemouth
Dorset
BH7 7DU

South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge
CB23 6EA

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Dear Mr Cobley

South Cambridgeshire District Council
Application for Approval of Details Reserved by Condition

Proposal: Submission of details required by condition 44 (remediation strategy) of outline planning permission S/2682/13/OL

Parent permission: S/2682/13/OL

Site address: Land North Of Newmarket Road Cambridge CB5 8AA

I acknowledge receipt of your application for Approval of Details Reserved by Condition on 7 May 2024.

Your application was registered as valid on 7 May 2024.

The case officer for this application is Laurence Moore, they can be contacted on 07563421302 or by email at laurence.moore@greatercambridgeplanning.org.

What happens next

As part of the application process consultations will be undertaken with relevant statutory bodies and other interested parties. In some circumstances it may be necessary to display a site notice on or near to the site.

All applications are public files and as such are made available to view via our website at <https://applications.greatercambridgeplanning.org>. The file will be updated as the application progresses.

As part of the assessment stage I may need to re-visit the site. You do not need to be present during this visit however I may contact you if the site is inaccessible or access is restricted.

Asking for more time

If more time is required for the determination of your Planning Application, the case officer will contact you with the reason for this and the length of time that is required.

If you do not agree to an extension of time, once the statutory deadline has passed, you will have the right of appeal to the Secretary of State against the non-determination of this application. This process is dealt with independently by the Planning Inspectorate who will consider the application and make a decision whether or not to grant planning permission.

Your personal data

The submission of applications which include the applicant's name and address, supporting documents and plans form part of the statutory planning register that local authorities are obliged to maintain. Where the register is kept using electronic storage, the regulations allow for the register to be available for inspection by the public on a website.

Your application including plans, supporting documents, consultation and public comments will be available to view online by visiting <https://applications.greatercambridgeplanning.org> and entering the above reference number in search field. Sensitive personal data, including personal telephone numbers, personal email addresses or signatures are not published on our website.

How are we doing?

Please tell us what you think of the service you have received so far:
<https://forms.office.com/e/MPVSYXa01y>

Please accept this letter as a receipt of any planning fee that was payable.

Yours sincerely

Rose Mills
Technical Support Officer

Email: rose.mills@greatercambridgeplanning.org
Direct dial: 01954 713033

Our Ref: S/2682/13/COND44
Your Ref: Land North of Newmarket Road, Ca

9 May 2024



Mr Will Cobley
Terence O'Rourke Limited
Everdene House
Deansleigh Road
Bournemouth
Dorset
BH7 7DU

South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge
CB23 6EA

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**South Cambridgeshire District Council
RECEIPT**

Summary

Payment required: £145.00
Payment received: £145.00
Balance outstanding: £0.00

Payment Details

Payee	Amount Received	Payment Method	Date Received	Receipt No.
	£145.00	Planning Portal	07/05/2024	

Dear Mr Cobley,

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We have checked your application

Application Type: Approval of Details Reserved by Condition

Local Authority: South Cambridgeshire District Council

Our Reference: S/2682/13/COND44

Portal Reference: PP-13037679

Your Reference: Land North of Newmarket Road, Ca

Site address: Land North Of Newmarket Road Cambridge CB5 8AA

Proposal: Submission of details required by condition 44 (remediation strategy) of outline planning permission S/2682/13/OL

Your application received on 07 May 2024 has been checked and registered as valid from 07 May 2024.

What happens next

Your application has been passed to the Area Team Manager for Officer allocation. We will contact you in the next 3 working days to confirm your Case Officer.

The consultation will be undertaken with relevant statutory bodies, other interested parties and local residents where appropriate. All comments can be found on the Council's website.

Your personal data

The submission of applications which include the applicant's name and address, supporting documents and plans form part of the statutory planning register that local authorities are obliged to maintain. Where the register is kept using electronic storage, the regulations allow for the register to be available for inspection by the public on a website.

Your application including plans, supporting documents, consultation and public comments will be available to view online by visiting <https://applications.greatercambridgeplanning.org> and entering the above reference number in search field. Sensitive personal data, including personal telephone numbers, personal email addresses or signatures are not published on our website.

Building regulations and other consents

Your planning application may also require Building Regulations consent. Please follow the link below for more information and to make your application or call us on 0300 7729622 to discuss your project.

<https://www.3csharedservices.org/building-control/what-are-building-regulations/>

Please find your payment receipt attached.

Yours sincerely

Rose Mills

Email: rose.mills@greatercambridgeplanning.org

Telephone: 01954 713033

Laurence Moore
Greater Cambridge Shared Partnership
South Cambridgeshire Hall 6010
Cambourne
CAMBRIDGE
CB23 6EA

Our ref: AC/2024/132158/01-L01
Your ref: S/2682/13/COND44
Date: 29 May 2024

Dear Laurence

SUBMISSION OF DETAILS REQUIRED BY CONDITION 44 (REMEDIATION STRATEGY) OF OUTLINE PLANNING PERMISSION S/2682/13/OL LAND NORTH OF NEWMARKET ROAD FEN DITTON CAMBRIDGE SOUTH CAMBRIDGESHIRE CB5 8AA

Thank you for referring the above application which was received on 9th May 2024.

Documents Reviewed

We have reviewed the following reports for this consultation:

- Covering Letter Condition 44 Unexpected Contamination – 6430837
- CRM.1027.067.GE.L.007.B Unforeseen Contamination – 6430992

Environment Agency Position

We are in agreement with the recommended remedial works as outlined in the Unexpected Contamination Report. We have no detailed comments at this time but would request to review the Verification Report prior to recommending discharge of the condition.

We hope this information is of assistance. If you have any queries, please do not hesitate to contact us.

Yours sincerely

Alison Craggs
Sustainable Places Planning Advisor

Direct dial 020 847 45242
Direct e-mail planning.EastAnglia@environment-agency.gov.uk

DISCHARGE OF CONDITION RESPONSE

Responding Officer:	David Abiorwerth
Date:	17 th May 2024
Planning Ref No:	S/2682/13/COND44
Tascomi Ref No:	7324/24
Description of Development:	Wing Development (North Works), Land North of Newmarket Road, Cambridge • Condition 44 – Unexpected Contamination

Cross all that apply:



It is not possible to comment on the proposed discharge of condition
see comments below

Documents/drawing reviewed

Unforeseen Contamination – Letter Report by Enzygo, ref: CRM.1027.067.GE.L.007.B, dated 3rd May 2024

Comments

The application area is a cross-boundary site between Cambridge City Council (CCC) and South Cambridgeshire District Council (SCDC), but with the majority of the site located within SCDC.

The report submitted here has been produced in response to the discovery of unexpected contamination in a well-defined area located wholly within the SCDC portion of the site.

Given the situation described above, it is entirely appropriate for EH at SCDC to provide detailed comments and feedback in response to this particular state of affairs.

David Abiorwerth
 Scientific Officer
 Environmental Quality & Growth Team
 Communities
 Cambridge City Council



Internal Memo

Date: 23-05-2024

To: Greater Cambridge Shared Planning - Laurence Moore
From: Climate, Waste and Environment – Contaminated Land
Proposal: Submission of details required by condition 44 (remediation strategy) of outline planning permission S/2682/13/OL
Site Address: Marshall North Works, Newmarket Road, Fen Ditton, Cambridge, Cambridgeshire, CB5 8AA
Reference: S/2682/13/COND44

I wish to confirm that I have received a copy of the above application and considered the implications in terms of risk from potential contamination. In particular the following documentation has been reviewed:

Letter Report – Unforeseen Contamination by Enzygo Geo Environmental dated 3 May 2024

The application is made following discovery of unexpected contamination noted within planning phase 1b, which lies within area A1. This area has been investigated previously for potential contamination, however no formal remediation was considered necessary within the agreed overarching Remediation Strategy as it had not been developed in the past and remained free from contamination.

However, in January 2024, drinking water was discovered to be tainted with hydrocarbons, requiring further investigation. The source of the contamination was identified as localised leakage from above ground fuel tanks that was only impacting shallow surface soils.

Remedial measures are proposed in the area around the fuel tank involving excavation of impacted soils and validation of the sides and base of the excavation. Backfill materials will be validated in accordance with the approved materials Management Plan and a verification report supplied.

Though it has been concluded there is no risk to health from the potable water, it is understood that the utility provider will be replacing all impacted pipework with barrier pipe.

The submitted information is accepted under condition 44 and I look forward to receiving the subsequent verification report in due course. **Condition 44 remains applicable for the duration of development works.**

The wording of condition 44, relating to unexpected contamination is given below for information:

If, during development of a Development Parcel or Strategic Engineering and Landscape Element, contamination not previously identified is found to be present at the site of that Development Parcel or Strategic Engineering and Landscape Element then no further development of that Development Parcel or Strategic Engineering and Landscape Element (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until the developer has submitted a remediation strategy detailing how this unsuspected contamination shall be dealt with and obtained written approval from the Local Planning Authority. The remediation strategy shall be implemented as approved.

Claire Sproats

Scientific Officer (Contaminated Land)

Climate, Waste and Environment



Our ref: ER001/C1-Cond.44

Your ref: S/2682/13/OL

3rd May 2024

Philippa Kelly
Planning
South Cambridgeshire District Council
South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge
CB23 6EA

Dear Philippa,

Re: S/2682/13/OL– Wing Development, Land North of Newmarket Road, Cambridge – Condition 44 – Allotments

With reference to the above development and approval of the Outline planning consent, we submit the following documentation to discharge condition 44 relative to the unexpected contamination found within planning phase 1b;

1. Enzygo report- CRM.1027.067.GE.L.007B
2. On-line payment.
3. Application via online planning portal

We trust the information provided is sufficient to discharge Condition 44- unexpected contamination, but should you have any queries, please don't hesitate to contact the undersigned.

Yours sincerely,

D. Devane

Denis Devane
Senior Technical Coordinator

hill.co.uk

Hill The Power House Gunpowder Mill Powdermill Lane Waltham Abbey Essex EN9 1BN T 020 8527 1400 F 020 8501 8770 E mail@hill.co.uk

Hill Group Services Limited. Registered in England, No 6876210

Proposal Number:	PP-13037679
Version Number:	1
Document Type:	Other relevant information
This document is covered in:	Covering letter - CRM.1027.067.GE.L.007.B Unforseen Contami
Document Description:	Enzygo report

South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge,
CB23 6EA
www.scambs.gov.uk
0345 045 5215



14
South
Cambridgeshire
District Council

Application for Approval of Details Reserved by Condition

Town and Country Planning Act 1990 (as amended); Planning (Listed Buildings and Conservation Areas) Act 1990 (as amended)

Publication of applications on planning authority websites

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department.

Site Location

Disclaimer: We can only make recommendations based on the answers given in the questions.

If you cannot provide a postcode, the description of site location must be completed. Please provide the most accurate site description you can, to help locate the site - for example "field to the North of the Post Office".

Number

Suffix

Property Name

Address Line 1

Address Line 2

Address Line 3

Town/city

Postcode

Description of site location must be completed if postcode is not known:

Easting (x)

Northing (y)

Description

Applicant Details

Name/Company

Title

Mr

First name

Will

Surname

Cobley

Company Name

Terence O'Rourke Limited

Address

Address line 1

Everdene House

Address line 2

Deansleigh Road

Address line 3

Town/City

Bournemouth

County

Dorset

Country

UK

Postcode

BH7 7DU

Are you an agent acting on behalf of the applicant?

☐ Yes

☒ No

Contact Details

Primary number

***** REDACTED *****

Secondary number

Fax number

Email address

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Description of the Proposal

Please provide a description of the approved development as shown on the decision letter

Reference number

Date of decision (date must be pre-application submission)

Please state the condition number(s) to which this application relates

Condition number(s)

Has the development already started?

☒ Yes

☐ No

If Yes, please state when the development was started (date must be pre-application submission)

Has the development been completed?

☐ Yes

☒ No

Part Discharge of Conditions

Are you seeking to discharge only part of a condition?

☐ Yes

☒ No

Discharge of Conditions

Please provide a full description and/or list of the materials/details that are being submitted for approval

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A report from Enzygo following the finding of unexpected contamination within phase 1b of planning approval ref: 20/02569/REM.

Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land?

- ☒ Yes
- ☐ No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact?

- ☒ The agent
- ☐ The applicant
- ☐ Other person

Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application?

- ☒ Yes
- ☐ No

If Yes, please complete the following information about the advice you were given (this will help the authority to deal with this application more efficiently):

Officer name:

Title

***** REDACTED *****

First Name

***** REDACTED *****

Surname

***** REDACTED *****

Reference

various emails

Date (must be pre-application submission)

01/05/2024

Details of the pre-application advice received

Email correspondence advising that we should make the submission of our specialist report relating to unexpected contamination.

Declaration

I/We hereby apply for Approval of details reserved by a condition (discharge) as described in the questions answered, details provided, and the accompanying plans/drawings and additional information.

I/We confirm that, to the best of my/our knowledge, any facts stated are true and accurate and any opinions given are the genuine opinions of the person(s) giving them.

I/We also accept that, in accordance with the Planning Portal's terms and conditions:

- Once submitted, this information will be made available to the Local Planning Authority and, once validated by them, be published as part of a public register and on the authority's website;
- Our system will automatically generate and send you emails in regard to the submission of this application.

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☒ I / We agree to the outlined declaration

Signed

Denis Devane

Date

03/05/2024

Pre-existing	No change to file or details
Revised	No change to file, details updated
New	New file added to this version
Deleted	File removed from this version

Proposal Name	Land North of Newmarket Road, Cambridge
Reference	PP-13037679
Version Number	1
Submission Date	03/05/2024
Attachments	
Document Name	Covering letter
Document Description	Enzygo report
Status	New
Submission Date	03/05/2024
Submission Method	Uploaded to storage
File Name	CRM.1027.067.GE.L.007.B Unforseen Contamination.pdf
File Type	application/pdf
File Size (bytes)	7753686

Document Name	Other relevant information
Document Description	Enzygo report
Status	New
Submission Date	03/05/2024
Submission Method	Document is covered in another document

Document Name	Covering letter
Document Description	Covering letter
Status	New
Submission Date	03/05/2024
Submission Method	Uploaded to storage
File Name	Covering Letter Condition 44 Unexpected contamination.pdf
File Type	application/pdf
File Size (bytes)	140171

Fee for approval of details reserved by a condition

Please select the type of development/consent to which this application relates

- ☐ Householder development
- ☒ Any other type of development
- ☐ Listed Building Consent

Fee	£	145
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Your planning fee

Application fee	£	145.00
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Application multiplier	x	1.00
------------------------	---	------

Application multiplied fee	£	145.00
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Application cap	≤ £	
-----------------	-----	--

Subtotal	£	145.00
----------	---	--------

Service charge (flat rate)	£	70.00
----------------------------	---	-------

(inc. VAT)

Total

Total:	£	215.00
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Our Ref: S/2682/13/COND44
Your Ref: Land North of Newmarket Road, Ca
Portal Ref: PP-13037679
08 May 2024



Mr Will Cobley
Everdene House
Deansleigh Road
Bournemouth
Dorset
BH7 7DU

South Cambridgeshire Hall
Cambourne Business Park
Cambourne
Cambridge
CB23 6EA

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South Cambridgeshire District Council
RECEIPT

Summary

Application fee: £ 145.00
Payment received: £ 145.00
Balance outstanding: £ 0.00

Payment Details

Payee	Amount Received	Payment Method	Date Received	Receipt No.
	£145.00	Planning Portal	07/05/2024	

Your Ref:
Our Ref: CRM.1027.067.GE.L.007.B

Date: 3 May 2024
Email: steve.rhodes@enzygo.com

Denis Devane
Hill
The Power House,
Gunpowder Mill,
Powdermill Lane,
Waltham Abbey,
EN9 1BN

By Email: DenisDevane@hill.co.uk

Dear Denis

RE: Marleigh Development, Wing, Cambridge, CB5 8AA – Unforeseen Contamination

General

In accordance with the Planning Consent and approved Remediation Strategy Report a procedure is in place for Unexpected Contamination which may be encountered during or as a result from site activities which were not identified during the ground investigation.

Hydrocarbon Impact and Investigation.

As a result of drinking water being tainted by a suspected hydrocarbon taste an investigation was commissioned by the utility provider Independent Water Networks Limited (IWNL) within the north eastern area of the site.

The investigation was undertaken by Intersoil Ltd along the line of the water main and also included locations adjacent to a former above ground fuel tanks, which they identified as having leaked.

Samples were tested for speciated Polycyclic Aromatic Hydrocarbons (PAH), Aromatic Hydrocarbons (BTEX) and banded Total Petroleum Hydrocarbons (TPH). The TPH results were banded in accordance with the ranges provided by Water UK Ltd and are not directly applicable to General Acceptance Criteria(GAC) values.

Results of the Intersoil Ltd Investigation

No formal report has been provided by Intersoil Ltd and their laboratory test results are attached, together with communication by IWNL. Results have been compared against the threshold values for plastic pipes and also the GAC values for residential use with plant up-take. Exceedances are summarised on the table below:

Exploratory Hole	Determinant	Concentration (mg/kg)			
		PE Pipes		Human Health Risk	
		Soil	Threshold	Soil	GAC
19/1 @ 0 - 0.25m	C ₅ – C ₁₀	12.5	2	-	-
	C ₁₀ – C ₁₆	2093	10	-	-
	C ₁₆ – C ₄₀	2160	500	-	-
	BTEX & MTBE	1.03	0.1	-	-
19/1 @ 0.25 - 0.5m	C ₁₀ – C ₁₆	206	10	-	-
	BTEX & MTBE	0.13	0.1	-	-
19/3A @ 0 - 0.2m	C ₁₀ – C ₁₆	452	10	-	-
	C ₁₆ – C ₄₀	2077	500	-	-
8/21 @ 0.3 - 0.5m	C ₁₀ – C ₁₆	13	10	-	-
9/30 @ 0.7 - 0.9m	C ₁₀ – C ₁₆	36	10	-	-
9/40 @ 0.7 - 0.9m	C ₁₀ – C ₁₆	11	10	-	-
385 @ 0.7 - 0.9m	C ₁₀ – C ₁₆	14	10	-	-
20/7 @ 0.3-0.5m	Benzo(b)Flouranthene	-	-	11.95	2.6
	Benzo(a)Pyrene	-	-	12.20	2.2
	Dibenzo(ah)Anthracene	-	-	1.43	0.24
385 @ 0.7 – 1.0m	Benzo(b)Flouranthene	-	-	8.38	2.6
	Benzo(a)Pyrene	-	-	7.90	2.2
	Dibenzo(ah)Anthracene	-	-	0.94	0.24

Assessment

The TPH values identified for samples 19/1 and 19/3 are understood to be associated with a tank which has leaked and were not located adjacent to the water pipe. Due to the method of testing a direct comparison to GAC values is not possible. Further investigation has been undertaken within this area by Enzygo Geoenvironmental Ltd which is discussed below. No other significant hydrocarbon concentrations were identified by the Intersoil Ltd investigation.

IWHL have identified that the exceedance identified within soils and the potable water supplies do not pose a risk to health but indicated that the water was not wholesome. On going liaison is being undertaken between the client and IWNL to confirm what if any ductile pipe will be required for potable water pipes. As IWNL have confirmed that there is no risk to health from the potable water no further assessment is required in relation to potable water pipes under this unexpected contamination condition.

The investigation undertaken on behalf of IWNL does not show wide scale unforeseen contamination but only hydrocarbons limited to a localised tank leakage.

Human health risk is identified by elevated PAH concentrations which appear to be associated with ash material which is likely to have been incorporated in to the backfill surrounding the pipes. Both locations are within areas of pavement which will break the potential pollutant linkage to future site users and therefore these risks are dismissed.

Further Investigation

Enzygo Geoenvironmental Ltd undertook a site visit on 21st to 25th March 2024 to sample soils at the above named site. A copy of the Enzygo Geoenvironmental Ltd letter report is attached. Trial pits were excavated at the locations where Intersoil Ltd had identified hydrocarbon exceedances above the threshold values for plastic water pipes. Soil samples were collected at depths of 0 to 0.3m, 0.3 to 0.5m,

0.5 to 0.7m and 0.7 to 0.9m below ground level (bgl). These sample depths are based on the sample depths collected by Intersoil Ltd.

Samples were sent for chemical analysis to the laboratories of I2 Analytical, who are MCERTS and UKAS accredited, for testing. Samples were tested for Total Petroleum Hydrocarbons (TPH: CWG) which were the only exceedances identified by Intersoil Ltd.

Results of the testing undertaken during the Enzygo Geo Environmental Ltd investigation identified no exceedances of the GAC values for residential use with plant up-take.

Proposed Remediation Works

A plan showing the location and extent of the hydrocarbon leakage is attached and the following remedial works are proposed:

Remediation of the reported spill around the fuel tank adjacent to pits 19/1 and 19/3 is proposed. This will involve excavation of the source and any soils showing visual or olfactory evidence of contamination. Once removed the sides and base of the exposed formation will be sampled and tested for TPH: CWG.

Should samples fail the GAC values for residential use with plant up-take further soils will be excavated. Once the remaining soils are confirmed as being below the GAV values the resulting void will be backfilled with clean soils. The backfill will be validated in accordance with the approved Materials Management Plan.

Following removal of the localized hydrocarbon impacted soils the remedial works will be validated. A verification report will be provided to the Local Planning Authority.

Yours sincerely,
For and on behalf of Enzygo

A black rectangular box redacting the signature of Steve Rhodes.

Steve Rhodes BSc(hon) MSc DIC CEng CGeol MIMMM MEnvSc FGS

Director

Enzygo Geo Environmental Ltd

IWNL Information

If you'd like to translate this communication into another language, have the text read aloud, or adjust the text size, you can use Recite Me here: <https://www.iwnl.co.uk/update-on-the-water-incident-on-18th-january-2024/>

Date: 25th March 2024

Dear Mr Drury,

Re: Investigation into the Water Use Restrictions in January 2024

Following extensive investigations, we are now able to provide more detail on the causes and context for the water-use restriction experienced at Marleigh during January 2024.

Our summary and conclusions are shared below.

On the 17th January, we added new legs of water main (within the construction area of the Marleigh development) to the existing Marleigh water supply system. Within 24 hours of connecting the new water mains, we received reports of a diesel-like taste/ smell in the water.

On receiving these reports, we initiated several immediate steps to protect public health. These included issuing a 'Do not use' order to residents, immediately disconnecting the newly added water mains, taking water samples from many points around Marleigh for laboratory analysis, and making alternative bottled water supplies available.

Once the new section of water mains was disconnected, we commenced daily flushing and retesting of the water network until the system was completely clear. The prohibited-use restrictions were kept in place until the laboratory results showed the water to be completely safe.

IWNL and the Developer have carried out extensive testing of soils within the construction area, with some 167 separate tests conducted, mostly focused on the area where the water main is or was to be laid. Some small areas of contamination were found in 6 locations. It is not possible for us to be certain where the contamination came from. Possibilities include from plant or vehicle refuelling spills or possibly from contaminated imported backfill materials.

It appears the fuel contamination was sufficient to allow small quantities to pass through the wall of our newly laid water mains and although we followed all normal procedures for commissioning the new mains, including disinfecting and flushing, it is evident some fuel contamination still made it into the system.

As a consequence of the above, and to ensure the ongoing safety of our customers, we will replace all the mains laid in the area under construction with "barrier pipe" which is designed to be used in such circumstances and will ensure the water supplied will meet all water quality requirements.

The safety of our customers is always our first priority, and we hope the explanation above will help you understand what happened and the immediate steps we took to protect public safety.

Thank you for your patience whilst we carried out this investigation.

If you'd like to speak to us, our contact centre is available between 8:00am to 8:00pm, Monday to Friday, and between 9:00am and 1:00pm on Saturdays.

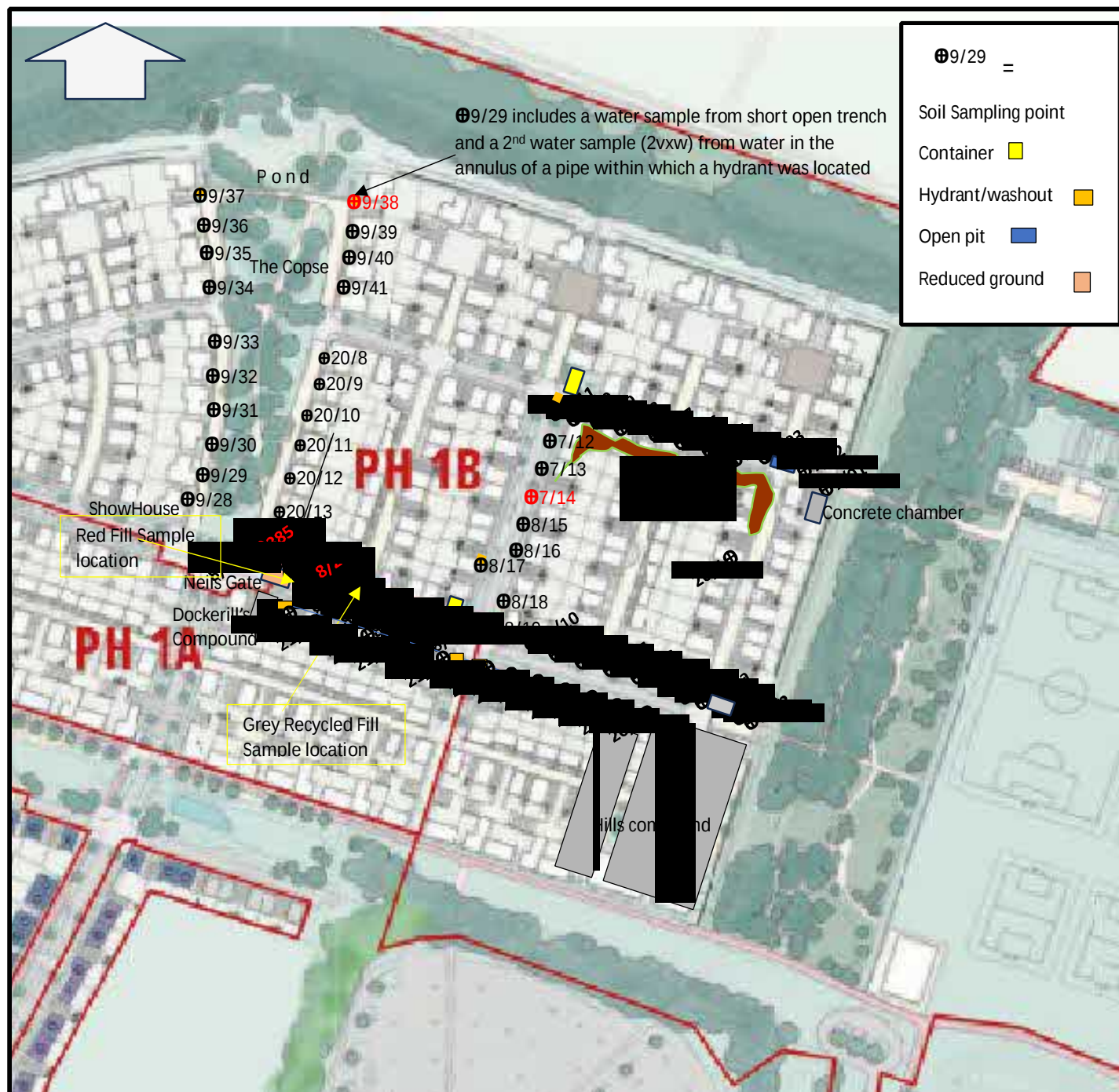
- Call us on 02920 02811
- Chat to us live online at www.iwnl.co.uk
- Send us a contact form www.iwnl.co.uk/contact-us/

Kind Regards, IWNL

MARLEIGH ESTATE, CAMBRIDGE

SOILS SAMPLING LOCATIONS – FEBRUARY 2024

EXTRACT OF PHASE PLANNING FROM PLANNING APPLICATION



PH1B- Phase 1B of the development

Notes: See also accompanying photographs



CHEMTECH
environmental
part of Cawood

29

ANALYTICAL TEST REPORT

Contract no: 130466

Contract name: Cambridge Marley

Client reference: Q120713-01

Clients name: Intersoil

Clients address: Suite 30
58 Low Friar Street
Newcastle Upon Tyne
NE1 5UE

Samples received: 12 January 2024

Analysis started: 12 February 2024

Analysis completed: 21 February 2024

Report issued: 21 February 2024

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:



Abbie Neasham-Bourn
Senior Reporting Administrator

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
130466-1	07/1	0.3-0.5	Sandy Clay with Gravel & Roots	-	-	17.3
130466-2	07/1	0.7-0.9	Sandy Clay with Gravel	-	-	19.9
130466-3	07/2	0.3-0.5	Sandy Clay with Gravel	-	-	13.3
130466-4	07/2	0.7-0.9	Sandy Clay with Gravel	-	-	16
130466-5	07/3	0.3-0.5	Sandy Clay with Gravel & Roots	-	-	15.1
130466-6	07/3	0.7-0.9	Loamy Sandy Clay with Gravel	-	-	13.9
130466-7	07/4	0.3-0.5	Sandy Clay with Gravel	-	-	11.7
130466-8	07/4	0.5-0.7	Sandy Clay with Gravel	-	-	10.2
130466-9	07/05	0.3-0.5	Sandy Clay with Gravel	-	-	12.4
130466-10	07/05	0.7-0.9	Sandy Clay with Gravel	-	-	18.7
130466-11	07/6	0.3-0.5	Sandy Clay with Gravel	-	-	14.5
130466-12	07/6	0.7-0.9	Sandy Clay with Gravel	-	-	14.5
130466-13	07/7	0.3-0.5	Sandy Clay with Gravel	-	-	15.4
130466-14	07/7	0.7-0.9	Sandy Clay with Gravel	-	-	11.4
130466-15	07/8	0.3-0.5	Sandy Clay with Gravel	-	-	13.6
130466-16	07/8	0.7-0.9	Sandy Clay with Gravel	-	-	16
130466-17	07/9	0.3-0.5	Sandy Clay with Gravel	-	-	13.6
130466-18	07/9	0.7-1.0	Sandy Clay with Gravel	-	-	6.5
130466-19	07/10	0.3-0.5	Sandy Clay with Gravel	-	-	12.3
130466-20	07/10	0.7-0.10	Sandy Clay with Gravel	-	-	11.4
130466-21	07/11	0.3-0.5	Sandy Clay with Gravel	-	-	12.7
130466-22	07/11	0.7-1.0	Sandy Clay with Gravel	-	-	14.5
130466-23	07/12	0.3-0.5	Sandy Clay with Gravel	-	-	12.8
130466-24	07/12	0.7-0.9	Sandy Clay with Gravel	-	-	11.9
130466-25	07/12	0-0.3	Sandy Clay with Gravel	-	-	10.8
130466-26	07/13	0.3-0.5	Sandy Clay with Gravel	-	-	14.1
130466-27	07/13	0.7-0.9	Sandy Clay with Gravel	-	-	12.6
130466-28	07/14	0.3-0.5	Sandy Clay with Gravel	-	-	15.4
130466-29	07/14	0.5-0.7	Sandy Clay with Gravel	-	-	11.7
130466-31	8/15	0.3-0.5	Sandy Clay with Gravel	-	-	13.1
130466-32	8/15	0.7-0.9	Sandy Clay with Gravel	-	-	11.2
130466-33	8/16	0.3-0.5	Sandy Clay with Gravel	-	-	12.6
130466-34	8/16	0.5-0.7	Sandy Clay with Gravel	-	-	11.5
130466-35	8/17	0.3-0.5	Sandy Clay with Gravel	-	-	13.6
130466-36	8/17	0.7-0.9	Sandy Clay with Gravel	-	-	13.8
130466-37	8/18	0.3-0.5	Sandy Clay with Gravel	-	-	16.3
130466-38	8/18	0.7-0.9	Sandy Clay with Gravel	-	-	11.5
130466-39	8/19	0.3-0.5	Sandy Clay with Gravel	-	-	11.5
130466-40	8/19	0.7-0.9	Sandy Clay with Gravel	-	-	13.6

SAMPLE INFORMATION

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Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
130466-41	8/20	0.3-0.5	Sandy Clay with Gravel	-	-	12.7
130466-42	8/20	0.7-0.9	Sandy Clay with Gravel	-	-	17.7
130466-43	8/21	0-0.3	Sandy Clay with Gravel	-	-	10.1
130466-44	8/21	0.3-0.5	Sandy Clay with Gravel	-	-	8.6
130466-45	8/21	0.7-0.9	Sandy Clay with Gravel	-	-	13.7
130466-46	8/22	0-0.2	Sandy Clay with Gravel	-	-	0.2
130466-47	8/22	0.5-0.7	Sandy Clay with Gravel	-	-	5.8
130466-48	8/23	0-0.3	Sandy Clay with Gravel	-	-	37.3
130466-49	8/23	0.5-0.7	Sandy Clay with Gravel	-	-	4.9
130466-50	8/24	0.2-0.4	Sandy Clay with Gravel	-	-	18.8
130466-51	8/24	0.5-0.7	Sandy Clay with Gravel	-	-	7.8
130466-52	8/25	0.3-0.5	Sandy Clay with Gravel	-	-	13.8
130466-53	8/25	0.7-1.0	Sandy Clay with Gravel	-	-	11.8
130466-54	8/26	0.3-0.5	Sandy Clay with Gravel	-	-	13.6
130466-55	8/26	0.7-0.9	Sandy Clay with Gravel	-	-	15.1
130466-56	8/27	0.4-0.6	Sandy Clay with Gravel	-	-	9.6
130466-57	9/28	0.3-0.5	Sandy Clay with Gravel	-	-	12.2
130466-58	9/28	0.7-0.85	Sandy Clay with Gravel	-	-	16.4
130466-59	9/29	0.3-0.5	Sandy Clay with Gravel	-	-	14.1
130466-60	9/29	0.7-1.0	Sandy Clay with Gravel	-	-	15.7
130466-61	9/30	0.3-0.5	Sandy Clay with Gravel	-	-	15.9
130466-62	9/30	0.7-0.9	Sandy Clay with Gravel	-	-	14.9
130466-63	9/31	0.5-0.7	Sandy Clay with Gravel	-	-	16
130466-64	9/31	0.7-1.0	Sandy Clay with Gravel	-	-	16.8
130466-65	9/32	0.5-0.7	Sandy Clay with Gravel	-	-	14
130466-66	9/33	0.3-0.5	Sandy Clay with Gravel	-	-	17.4
130466-67	9/33	0.7-0.9	Sandy Clay with Gravel	-	-	16.1
130466-68	9/34	0.3-0.5	Sandy Clay with Gravel	-	-	10.2
130466-69	9/34	0.7-0.9	Sandy Clay with Gravel	-	-	12
130466-70	9/35	0.3-0.5	Sandy Clay with Gravel	-	-	12
130466-71	9/35	0.7-0.9	Sandy Clay with Gravel	-	-	16.4
130466-72	9/36	0.2-0.25	Sandy Clay with Gravel	-	-	15.7
130466-73	9/36	0.75-0.85	Sandy Clay with Gravel	-	-	14.8
130466-74	9/37	0.3-0.5	Sandy Clay with Gravel	-	-	11.7
130466-75	9/37	0.5-0.8	Sandy Clay with Gravel	-	-	15.2
130466-76	9/38	0.3-0.5	Sandy Clay with Gravel	-	-	14.9
130466-77	9/38	0.7-0.9	Sandy Clay with Gravel	-	-	15.4
130466-78	9/39	0.48-0.6	Sandy Clay with Gravel	-	-	15.9
130466-79	9/39	0.7-0.9	Sandy Clay with Gravel	-	-	16

SAMPLE INFORMATION

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Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
130466-80	9/40	0.4-0.6	Sandy Clay with Gravel	-	-	15.5
130466-81	9/40	0.7-0.9	Sandy Clay with Gravel	-	-	14.3
130466-82	9/41	0.5-0.65	Sandy Clay with Gravel	-	-	28.9
130466-83	9/41	0.7-0.9	Sandy Clay with Gravel	-	-	11.9
130466-84	385	0.5-0.75	Sandy Clay with Gravel	-	-	35.9
130466-85	385	0.7-1.0	Sandy Clay with Gravel	-	-	12.2
130466-86	9/38 W	-	Sandy Clay with Gravel	-	-	<0.1
130466-88	GREY	-	Sandy Clay with Gravel	-	-	18.7
130466-89	9/32	0.7-0.9	Sandy Clay with Gravel	-	-	12.2

SOILS

Lab number			130466-1	130466-2	130466-3	130466-4	130466-5	130466-6
Sample id			07/1	07/1	07/2	07/2	07/3	07/3
Depth (m)			0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.08	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.08	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.05	<0.02	1.26	0.04	0.08
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.24	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.03	0.10	0.04	1.84	0.08	0.12
Pyrene	CE087 ^M	mg/kg	0.03	0.09	0.03	1.46	0.07	0.10
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.09	0.03	0.66	0.04	0.06
Chrysene	CE087 ^M	mg/kg	<0.03	0.11	<0.03	0.61	0.05	0.05
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.16	0.03	0.58	0.05	0.06
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	0.06	<0.03	0.26	<0.03	0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.13	0.03	0.53	0.04	0.06
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.08	0.03	0.30	0.03	0.04
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	0.07	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.09	0.03	0.28	0.03	0.04
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	0.97	<0.34	8.24	0.42	0.63
BTEX & TPH								
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-1	130466-2	130466-3	130466-4	130466-5	130466-6
Sample id			07/1	07/1	07/2	07/2	07/3	07/3
Depth (m)			0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<14	25	<10	18	<10	12

SOILS

Lab number			130466-7	130466-8	130466-9	130466-10	130466-11	130466-12
Sample id			07/4	07/4	07/05	07/05	07/6	07/6
Depth (m)			0.3-0.5	0.5-0.7	0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02	0.03	0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	0.07	0.05	0.03	<0.02
Pyrene	CE087 ^M	mg/kg	<0.02	<0.02	0.06	0.04	0.03	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	<0.02	0.04	0.03	0.02	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	0.05	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	0.05	0.03	0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02	0.04	0.03	0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	0.04	0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	0.04	0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	0.42	<0.34	<0.34	<0.34
BTEX & TPH								
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-7	130466-8	130466-9	130466-10	130466-11	130466-12
Sample id			07/4	07/4	07/05	07/05	07/6	07/6
Depth (m)			0.3-0.5	0.5-0.7	0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	<10	<10	78	<10	11

SOILS

Lab number			130466-13	130466-14	130466-15	130466-16	130466-17	130466-18
Sample id			07/7	07/7	07/8	07/8	07/9	07/9
Depth (m)			0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.3-0.5	0.7-1.0
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.02	<0.02	<0.02	<0.02	0.05	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.04	<0.02	0.03	<0.02	0.13	<0.02
Pyrene	CE087 ^M	mg/kg	0.04	<0.02	0.02	<0.02	0.11	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.03	<0.02	<0.02	<0.02	0.07	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	0.08	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.03	<0.02	<0.02	<0.02	0.08	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	0.04	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.02	<0.02	<0.02	<0.02	0.08	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.05	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.05	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	<0.34	0.73	<0.34
BTEX & TPH								
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-13	130466-14	130466-15	130466-16	130466-17	130466-18
Sample id			07/7	07/7	07/8	07/8	07/9	07/9
Depth (m)			0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.3-0.5	0.7-1.0
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	<10	<10	<10	16	<10

SOILS

Lab number			130466-19	130466-20	130466-21	130466-22	130466-23	130466-24
Sample id			07/10	07/10	07/11	07/11	07/12	07/12
Depth (m)			0.3-0.5	0.7-0.10	0.3-0.5	0.7-1.0	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02	0.02	<0.02	0.03	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	0.04	<0.02	0.08	<0.02
Pyrene	CE087 ^M	mg/kg	<0.02	<0.02	0.04	<0.02	0.07	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	<0.02	0.03	<0.02	0.04	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	0.05	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	0.03	<0.02	0.05	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02	0.02	<0.02	0.05	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	<0.34	0.44	<0.34
BTEX & TPH								
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-19	130466-20	130466-21	130466-22	130466-23	130466-24
Sample id			07/10	07/10	07/11	07/11	07/12	07/12
Depth (m)			0.3-0.5	0.7-0.10	0.3-0.5	0.7-1.0	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Test	Method	Units						
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<14	<10	<10	<10	18	11

SOILS

Lab number			130466-25	130466-26	130466-27	130466-28	130466-29	130466-31	130466-32
Sample id			07/12	07/13	07/13	07/14	07/14	8/15	8/15
Depth (m)			0-0.3	0.3-0.5	0.7-0.9	0.3-0.5	0.5-0.7	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.24	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.20	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.14	1.32	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.06	0.44	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.34	2.07	<0.02	<0.02
Pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.29	1.68	<0.02	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.15	0.79	<0.02	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	0.15	0.79	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.16	0.76	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	0.06	0.31	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.14	0.72	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.08	0.44	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.10	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.09	0.43	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	1.66	10.4	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-25	130466-26	130466-27	130466-28	130466-29	130466-31	130466-32
Sample id			07/12	07/13	07/13	07/14	07/14	8/15	8/15
Depth (m)			0-0.3	0.3-0.5	0.7-0.9	0.3-0.5	0.5-0.7	0.3-0.5	0.7-0.9
Date sampled			07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	11	<10	15	70	167	14	10

SOILS

Lab number			130466-33	130466-34	130466-35	130466-36	130466-37	130466-38	130466-39
Sample id			8/16	8/16	8/17	8/17	8/18	8/18	8/19
Depth (m)			0.3-0.5	0.5-0.7	0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.3-0.5
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	<0.02	0.13	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	0.03	<0.02	<0.02	0.29	<0.02	0.03
Pyrene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	<0.02	0.25	<0.02	0.03
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.02	<0.02	<0.02	0.15	<0.02	0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	0.16	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.19	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	0.07	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.18	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	<0.34	1.71	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-33	130466-34	130466-35	130466-36	130466-37	130466-38	130466-39
Sample id			8/16	8/16	8/17	8/17	8/18	8/18	8/19
Depth (m)			0.3-0.5	0.5-0.7	0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.3-0.5
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	15	<10	<10	17	11	14

SOILS

Lab number			130466-40	130466-41	130466-42	130466-43	130466-44	130466-45	130466-46
Sample id			8/19	8/20	8/20	8/21	8/21	8/21	8/22
Depth (m)			0.7-0.9	0.3-0.5	0.7-0.9	0-0.3	0.3-0.5	0.7-0.9	0-0.2
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	0.10	0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	0.04	<0.02	0.19	0.04	<0.02	0.02
Pyrene	CE087 ^M	mg/kg	<0.02	0.04	<0.02	0.16	0.04	<0.02	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.03	<0.02	0.08	0.03	<0.02	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	0.10	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.03	<0.02	0.10	0.03	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.03	<0.02	0.08	0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	0.05	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	0.06	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	1.00	<0.34	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-40	130466-41	130466-42	130466-43	130466-44	130466-45	130466-46
Sample id			8/19	8/20	8/20	8/21	8/21	8/21	8/22
Depth (m)			0.7-0.9	0.3-0.5	0.7-0.9	0-0.3	0.3-0.5	0.7-0.9	0-0.2
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10		<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	72	<10	153	78	<10	<10

SOILS

Lab number			130466-47	130466-48	130466-49	130466-50	130466-51	130466-52	130466-53
Sample id			8/22	8/23	8/23	8/24	8/24	8/25	8/25
Depth (m)			0.5-0.7	0-0.3	0.5-0.7	0.2-0.4	0.5-0.7	0.3-0.5	0.7-1.0
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.09
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.10
Phenanthrene	CE087 ^M	mg/kg	0.08	<0.02	0.07	<0.02	0.07	0.02	0.87
Anthracene	CE087 ^U	mg/kg	0.03	<0.02	0.03	<0.02	0.02	<0.02	0.37
Fluoranthene	CE087 ^M	mg/kg	0.19	<0.02	0.20	0.04	0.16	0.08	1.28
Pyrene	CE087 ^M	mg/kg	0.19	<0.02	0.23	0.03	0.14	0.08	1.04
Benzo(a)anthracene	CE087 ^U	mg/kg	0.09	<0.02	0.16	0.03	0.08	0.06	0.55
Chrysene	CE087 ^M	mg/kg	0.08	<0.03	0.16	<0.03	0.08	0.06	0.54
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.11	<0.02	0.24	0.02	0.08	0.08	0.51
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.04	<0.03	0.10	<0.03	0.03	0.03	0.24
Benzo(a)pyrene	CE087 ^U	mg/kg	0.10	<0.02	0.21	<0.02	0.07	0.06	0.48
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.06	<0.02	0.13	<0.02	0.04	0.04	0.24
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	0.06
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.07	<0.02	0.14	<0.02	0.05	0.04	0.27
PAH (total of USEPA 16)	CE087	mg/kg	1.06	<0.34	1.68	<0.34	0.82	0.56	6.63
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-47	130466-48	130466-49	130466-50	130466-51	130466-52	130466-53
Sample id			8/22	8/23	8/23	8/24	8/24	8/25	8/25
Depth (m)			0.5-0.7	0-0.3	0.5-0.7	0.2-0.4	0.5-0.7	0.3-0.5	0.7-1.0
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	14	99	<10	<10	86	107	302

SOILS

Lab number			130466-54	130466-55	130466-56	130466-57	130466-58	130466-59	130466-60
Sample id			8/26	8/26	8/27	9/28	9/28	9/29	9/29
Depth (m)			0.3-0.5	0.7-0.9	0.4-0.6	0.3-0.5	0.7-0.85	0.3-0.5	0.7-1.0
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.03	0.02	0.15	0.66	0.03	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	0.04	0.14	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.07	0.06	0.28	0.80	0.06	0.05	0.04
Pyrene	CE087 ^M	mg/kg	0.07	0.06	0.24	0.63	0.06	0.04	0.04
Benzo(a)anthracene	CE087 ^U	mg/kg	0.04	0.04	0.12	0.28	0.04	0.03	0.03
Chrysene	CE087 ^M	mg/kg	0.05	0.05	0.13	0.31	0.04	<0.03	0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.05	0.05	0.12	0.27	0.04	0.03	0.03
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	0.05	0.13	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.05	0.04	0.11	0.24	0.04	0.02	0.03
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.03	0.03	0.07	0.18	0.03	0.02	0.03
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.03	0.03	0.07	0.16	0.03	<0.02	0.03
PAH (total of USEPA 16)	CE087	mg/kg	0.41	0.38	1.39	4.01	0.37	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-54	130466-55	130466-56	130466-57	130466-58	130466-59	130466-60
Sample id			8/26	8/26	8/27	9/28	9/28	9/29	9/29
Depth (m)			0.3-0.5	0.7-0.9	0.4-0.6	0.3-0.5	0.7-0.85	0.3-0.5	0.7-1.0
Date sampled			08/02/2024	08/02/2024	08/02/2024	08/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	57	140	79	49	36	14	54

SOILS

Lab number			130466-61	130466-62	130466-63	130466-64	130466-65	130466-66	130466-67
Sample id			9/30	9/30	9/31	9/31	9/32	9/33	9/33
Depth (m)			0.3-0.5	0.7-0.9	0.5-0.7	0.7-1.0	0.5-0.7	0.3-0.5	0.7-0.9
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.43	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.33	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	CE087 ^M	mg/kg	0.27	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	CE087 ^M	mg/kg	0.16	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	1.86	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-61	130466-62	130466-63	130466-64	130466-65	130466-66	130466-67
Sample id			9/30	9/30	9/31	9/31	9/32	9/33	9/33
Depth (m)			0.3-0.5	0.7-0.9	0.5-0.7	0.7-1.0	0.5-0.7	0.3-0.5	0.7-0.9
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10		<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	275	<10	17	<10	12	<10

SOILS

Lab number			130466-68	130466-69	130466-70	130466-71	130466-72	130466-73	130466-74
Sample id			9/34	9/34	9/35	9/35	9/36	9/36	9/37
Depth (m)			0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.2-0.25	0.75-0.85	0.3-0.5
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.05	0.12	0.04	0.04	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	0.08	0.18	0.10	0.04	0.05	<0.02
Pyrene	CE087 ^M	mg/kg	<0.02	0.07	0.17	0.10	0.04	0.05	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.05	0.13	0.06	0.02	0.04	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	0.05	0.16	0.07	<0.03	0.04	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.05	0.13	0.05	<0.02	0.04	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	0.10	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.04	0.11	0.05	<0.02	0.04	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.04	0.11	0.03	<0.02	0.03	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.03	0.11	0.03	<0.02	0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	0.44	1.61	0.52	<0.34	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-68	130466-69	130466-70	130466-71	130466-72	130466-73	130466-74
Sample id			9/34	9/34	9/35	9/35	9/36	9/36	9/37
Depth (m)			0.3-0.5	0.7-0.9	0.3-0.5	0.7-0.9	0.2-0.25	0.75-0.85	0.3-0.5
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	31	<10	63	<10	40	<10

SOILS

Lab number			130466-75	130466-76	130466-77	130466-78	130466-79	130466-80	130466-81
Sample id			9/37	9/38	9/38	9/39	9/39	9/40	9/40
Depth (m)			0.5-0.8	0.3-0.5	0.7-0.9	0.48-0.6	0.7-0.9	0.4-0.6	0.7-0.9
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.26	0.03	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	0.22	0.04	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02	1.93	0.86	<0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	0.55	0.20	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.02	<0.02	2.91	0.78	<0.02	<0.02	0.02
Pyrene	CE087 ^M	mg/kg	0.02	<0.02	2.49	0.62	<0.02	<0.02	0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	<0.02	1.12	0.26	<0.02	<0.02	0.03
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	1.24	0.25	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	1.08	0.18	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	0.51	0.09	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02	1.24	0.16	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	0.70	0.10	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	0.11	0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	0.59	0.09	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	15.1	3.68	<0.34	<0.34	<0.34
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-75	130466-76	130466-77	130466-78	130466-79	130466-80	130466-81
Sample id			9/37	9/38	9/38	9/39	9/39	9/40	9/40
Depth (m)			0.5-0.8	0.3-0.5	0.7-0.9	0.48-0.6	0.7-0.9	0.4-0.6	0.7-0.9
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10	
EPH (>C16-C40)	CE033	mg/kg	<10	<10	153	25	<10	<10	15

SOILS

Lab number			130466-82	130466-83	130466-84	130466-85	130466-86	130466-88	130466-89
Sample id			9/41	9/41	385	385	9/38 W	GREY	9/32
Depth (m)			0.5-0.65	0.7-0.9	0.5-0.75	0.7-1.0	-	-	0.7-0.9
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
PAH									
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	1.17	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.24	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	6.70	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	3.61	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	36.71	0.10	0.06	0.24
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	8.95	0.02	<0.02	0.04
Fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	30.43	0.10	0.14	0.37
Pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	23.43	0.08	0.12	0.32
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	9.33	0.05	0.07	0.18
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	8.92	0.04	0.07	0.20
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	8.38	0.04	0.07	0.18
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	3.51	<0.03	0.04	0.09
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	7.90	0.03	0.06	0.17
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	4.19	0.02	0.05	0.11
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.94	<0.02	<0.02	0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	4.34	0.03	0.05	0.10
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	159	0.52	0.74	2.05
BTEX & TPH									
MTBE	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SOILS

Lab number			130466-82	130466-83	130466-84	130466-85	130466-86	130466-88	130466-89
Sample id			9/41	9/41	385	385	9/38 W	GREY	9/32
Depth (m)			0.5-0.65	0.7-0.9	0.5-0.75	0.7-1.0	-	-	0.7-0.9
Date sampled			09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024	09/02/2024
Test	Method	Units							
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10		<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	20	13	14	230	<10	32	50

GROUNDWATERS

Lab number			130466-30	130466-87
Sample id			2UXW	RED
Depth (m)			-	-
Date sampled				
Time sampled				
Test	Method	Units		
PAH				
Naphthalene	CE051	µg/l	<0.1	<0.1
Acenaphthylene	CE051	µg/l	<0.1	<0.1
Acenaphthene	CE051	µg/l	0.7	6.8
Fluorene	CE051	µg/l	0.4	2.9
Phenanthrene	CE051	µg/l	0.5	2.9
Anthracene	CE051	µg/l	<0.1	1.0
Fluoranthene	CE051	µg/l	0.6	2.8
Pyrene	CE051	µg/l	0.4	2.2
Benzo(a)anthracene	CE051	µg/l	<0.1	1.2
Chrysene	CE051	µg/l	<0.1	1.0
Benzo(b)fluoranthene	CE051	µg/l	<0.1	0.8
Benzo(k)fluoranthene	CE051	µg/l	<0.1	0.5
Benzo(a)pyrene	CE051	µg/l	<0.1	0.7
Indeno(123cd)pyrene	CE051	µg/l	<0.1	0.4
Dibenz(ah)anthracene	CE051	µg/l	<0.1	<0.1
Benzo(ghi)perylene	CE051	µg/l	<0.1	0.5
PAH (total of USEPA 16)	CE051	µg/l	2.6	23.5
BTEX & TPH				
MTBE	CE057	µg/l	<2	<2
Benzene	CE057	µg/l	<1	<1
Toluene	CE057	µg/l	<1	<1
Ethylbenzene	CE057	µg/l	<1	<1
m & p-Xylene	CE057	µg/l	<2	<2
o-Xylene	CE057	µg/l	<1	<1
VPH (>C5-C10)	CE175	µg/l	<10	<10
EPH (>C10-C16)	CE052	µg/l		
EPH (>C16-C40)	CE052	µg/l		

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.015	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.013	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.013	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.014	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.017	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.012	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.028	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.025	mg/kg

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.019	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.028	mg/kg
CE192	MTBE	Headspace GC-FID	As received	U	1	mg/kg
CE192	Benzene	Headspace GC-FID	As received	U	1	mg/kg
CE192	Toluene	Headspace GC-FID	As received	U	1	mg/kg
CE192	Ethylbenzene	Headspace GC-FID	As received	U	1	mg/kg
CE192	m & p-Xylene	Headspace GC-FID	As received	U	1	mg/kg
CE192	o-Xylene	Headspace GC-FID	As received	U	1	mg/kg
CE067	VPH (>C5-C10)	Headspace GC-FID	As received		0.05	mg/kg
CE033	EPH (>C10-C16)	Solvent extraction, GC-FID	As received		10	mg/kg

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE033	EPH (>C16-C40)	Solvent extraction, GC-FID	As received		10	mg/kg

METHOD DETAILS

METHOD	GROUNDWATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l
CE057	MTBE	Headspace GC-FID		2	µg/l
CE057	Benzene	Headspace GC-FID		1	µg/l
CE057	Toluene	Headspace GC-FID		1	µg/l
CE057	Ethylbenzene	Headspace GC-FID		1	µg/l
CE057	m & p-Xylene	Headspace GC-FID		2	µg/l
CE057	o-Xylene	Headspace GC-FID		1	µg/l
CE175	VPH (>C5-C10)	Headspace GC-FID		10	µg/l
CE052	EPH (>C10-C16)	Solvent extraction, GC-FID		10	µg/l
CE052	EPH (>C16-C40)	Solvent extraction, GC-FID		10	µg/l

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
130466-1	07/1	0.3-0.5	N	
130466-2	07/1	0.7-0.9	N	
130466-3	07/2	0.3-0.5	N	
130466-4	07/2	0.7-0.9	N	
130466-5	07/3	0.3-0.5	N	
130466-6	07/3	0.7-0.9	N	
130466-7	07/4	0.3-0.5	N	
130466-8	07/4	0.5-0.7	N	
130466-9	07/05	0.3-0.5	N	
130466-10	07/05	0.7-0.9	N	
130466-11	07/6	0.3-0.5	N	
130466-12	07/6	0.7-0.9	N	
130466-13	07/7	0.3-0.5	N	
130466-14	07/7	0.7-0.9	N	
130466-15	07/8	0.3-0.5	N	
130466-16	07/8	0.7-0.9	N	
130466-17	07/9	0.3-0.5	N	
130466-18	07/9	0.7-1.0	N	
130466-19	07/10	0.3-0.5	N	
130466-20	07/10	0.7-0.10	N	
130466-21	07/11	0.3-0.5	N	
130466-22	07/11	0.7-1.0	N	
130466-23	07/12	0.3-0.5	N	
130466-24	07/12	0.7-0.9	N	
130466-25	07/12	0-0.3	N	
130466-26	07/13	0.3-0.5	N	
130466-27	07/13	0.7-0.9	N	
130466-28	07/14	0.3-0.5	N	
130466-29	07/14	0.5-0.7	N	
130466-30	2UXW	-	N	

DEVIATING SAMPLE INFORMATION

Comments

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IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
130466-31	8/15	0.3-0.5	N	
130466-32	8/15	0.7-0.9	N	
130466-33	8/16	0.3-0.5	N	
130466-34	8/16	0.5-0.7	N	
130466-35	8/17	0.3-0.5	N	
130466-36	8/17	0.7-0.9	N	
130466-37	8/18	0.3-0.5	N	
130466-38	8/18	0.7-0.9	N	
130466-39	8/19	0.3-0.5	N	
130466-40	8/19	0.7-0.9	N	
130466-41	8/20	0.3-0.5	N	
130466-42	8/20	0.7-0.9	N	
130466-43	8/21	0-0.3	N	
130466-44	8/21	0.3-0.5	N	
130466-45	8/21	0.7-0.9	N	
130466-46	8/22	0-0.2	N	
130466-47	8/22	0.5-0.7	N	
130466-48	8/23	0-0.3	N	
130466-49	8/23	0.5-0.7	N	
130466-50	8/24	0.2-0.4	N	
130466-51	8/24	0.5-0.7	N	
130466-52	8/25	0.3-0.5	N	
130466-53	8/25	0.7-1.0	N	
130466-54	8/26	0.3-0.5	N	
130466-55	8/26	0.7-0.9	N	
#REF!	8/27	0.4-0.6	N	
130466-57	9/28	0.3-0.5	N	
130466-58	9/28	0.7-0.85	N	
130466-59	9/29	0.3-0.5	N	
130466-60	9/29	0.7-1.0	N	

DEVIATING SAMPLE INFORMATION

Comments

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Key

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Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
130466-61	9/30	0.3-0.5	N	
130466-62	9/30	0.7-0.9	N	
130466-63	9/31	0.5-0.7	N	
130466-64	9/31	0.7-1.0	N	
130466-65	9/32	0.5-0.7	N	
130466-66	9/33	0.3-0.5	N	
130466-67	9/33	0.7-0.9	N	
130466-68	9/34	0.3-0.5	N	
130466-69	9/34	0.7-0.9	N	
130466-70	9/35	0.3-0.5	N	
130466-71	9/35	0.7-0.9	N	
130466-72	9/36	0.2-0.25	N	
130466-73	9/36	0.75-0.85	N	
130466-74	9/37	0.3-0.5	N	
130466-75	9/37	0.5-0.8	N	
130466-76	9/38	0.3-0.5	N	
130466-77	9/38	0.7-0.9	N	
130466-78	9/39	0.48-0.6	N	
130466-79	9/39	0.7-0.9	N	
130466-80	9/40	0.4-0.6	N	
130466-81	9/40	0.7-0.9	N	
130466-82	9/41	0.5-0.65	N	
130466-83	9/41	0.7-0.9	N	
130466-84	385	0.5-0.75	N	
130466-85	385	0.7-1.0	N	
130466-86	9/38 W	-	N	
130466-87	RED	-	N	
130466-88	GREY	-	N	
130466-89	9/32	0.7-0.9	N	

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Soil/Solid samples will be disposed of 4 weeks from initial receipt unless otherwise agreed.

Waters and leachate samples will be disposed of 2 weeks from report issue unless otherwise agreed.

DEFRA Licence for the introduction and movement within England of prohibited soil for chemical and physical analysis Licence No: 132693/469907-0

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis



CHEMTECH
environmental
part of Cawood

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ANALYTICAL TEST REPORT

Contract no: 130765

Contract name: Cambridge Marleigh

Client reference: -

Clients name: Intersoil

Clients address: Suite 30
58 Low Friar Street
Newcastle Upon Tyne
NE1 5UE

Samples received: 21 February 2024

Analysis started: 21 February 2024

Analysis completed: 28 February 2024

Report issued: 28 February 2024

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:



Abbie Neasham-Bourn
Senior Reporting Administrator

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
130765-1	19/1	0.00-0.25	Sandy Clay with Gravel	-	-	14.2
130765-2	19/1	0.30-0.50	Sandy Clay with Gravel	-	-	13.8
130765-3	19/1	0.70-0.90	Sandy Clay with Gravel	-	-	14
130765-4	19/2	0.00-0.25	Sandy Clay with Gravel & Roots	-	-	18.1
130765-5	19/2	0.30-0.50	Sandy Clay with Gravel	-	-	13.2
130765-6	19/2	0.70-0.90	Sandy Clay with Gravel & Roots	-	-	13.9
130765-7	19/3A	0.00-0.20	Sandy Clay with Gravel	-	-	14.2
130765-8	19/4	0.30-0.50	Sandy Clay with Gravel	-	-	16.6
130765-9	19/4	0.70-0.90	Sandy Clay with Gravel	-	-	21.1
130765-10	19/5	0.30-0.50	Sandy Clay with Gravel	-	-	13.6
130765-11	19/5	0.70-0.90	Sandy Clay with Gravel	-	-	18.1
130765-12	19/6	0.30-0.50	Sandy Clay with Gravel	-	-	15.7
130765-13	19/6	0.70-0.90	Sandy Clay	-	-	15.7
130765-14	19/7	0.50-0.70	Sandy Clay with Gravel	-	-	14.3
130765-15	19/7	0.70-0.90	Sandy Clay with Gravel	-	-	13.7
130765-16	19/8	0.30-0.50	Sandy Clay with Gravel & Roots	-	-	15.3
130765-17	19/8	0.70-0.90	Sandy Clay with Gravel	-	-	19.7
130765-18	19/9	0.50-0.70	Sandy Clay with Gravel & Roots	-	-	12.1
130765-19	19/9	0.70-0.90	Sandy Clay with Gravel	-	-	13.1
130765-20	19/10	0.30-0.50	Sandy Clay with Gravel	-	-	14
130765-21	19/10	0.70-0.90	Sandy Clay with Gravel & Roots	-	-	13.7
130765-22	20/1	0.30-0.50	Sand with Gravel	-	-	11.1
130765-23	20/1	0.70-0.90	Sandy Clay with Gravel	-	-	17.6
130765-24	20/2	0.20-0.40	Sand with Gravel	-	-	7.6
130765-25	20/2	0.70-0.90	Sandy Clay with Gravel	-	-	15.2
130765-26	20/3	0.30-0.45	Sandy Clay with Gravel	-	-	19.2
130765-27	20/3	0.70-0.90	Sandy Clay with Gravel	-	-	15.7
130765-28	20/4	0.60-0.85	Sandy Clay with Gravel	-	-	17.6
130765-29	Grey Fill	-	Sand with Gravel	-	-	12.6
130765-30	20/5	0.20-0.40	Sandy Clay with Gravel	-	-	13.3
130765-31	20/5	0.70-0.90	Sandy Clay with Gravel	-	-	13.6
130765-32	20/6	0.20-0.50	Sandy Clay with Gravel & Roots	-	-	12.9
130765-33	20/6	0.70-0.90	Sandy Clay with Gravel	-	-	16.2
130765-34	20/7	0.30-0.50	Sandy Clay with Gravel	-	-	13
130765-35	20/7	0.70-0.90	Sandy Clay with Gravel	-	-	9.5
130765-36	20/8	0.30-0.50	Sandy Clay with Gravel	-	-	13
130765-37	20/8	0.70-0.90	Sandy Clay with Gravel	-	-	16.3
130765-38	20/9	0.00-0.25	Sandy Clay with Gravel	-	-	17.7
130765-39	20/9	0.70-0.90	Sand with Gravel	-	-	13.1

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
130765-40	20/10	0.30-0.50	Sandy Clay with Gravel	-	-	17.8
130765-41	20/10	0.70-0.90	Sand with Gravel	-	-	12.1
130765-42	20/11	0.30-0.50	Sand with Gravel	-	-	11.4
130765-43	20/11	0.70-0.90	Sandy Clay with Gravel	-	-	14
130765-44	20/12	0.30-0.50	Sand with Gravel	-	-	9.1
130765-45	20/12	0.70-0.90	Sandy Clay with Gravel	-	-	16.2
130765-46	20/13	0.30-0.42	Sand with Gravel	-	-	11.4
130765-47	20/13	0.70-0.90	Sandy Clay with Gravel	-	-	13.4

SOILS

Lab number			130765-1	130765-2	130765-3	130765-4	130765-5	130765-6
Sample id			19/1	19/1	19/1	19/2	19/2	19/2
Depth (m)			0.00-0.25	0.30-0.50	0.70-0.90	0.00-0.25	0.30-0.50	0.70-0.90
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.23	0.06	<0.02	0.13	0.05	<0.02
Anthracene	CE087 ^U	mg/kg	0.05	<0.02	<0.02	0.04	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.25	0.12	<0.02	0.38	0.09	<0.02
Pyrene	CE087 ^M	mg/kg	0.38	0.10	<0.02	0.38	0.08	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.17	0.07	<0.02	0.22	0.05	<0.02
Chrysene	CE087 ^M	mg/kg	0.19	0.07	<0.03	0.27	0.05	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.24	0.07	<0.02	0.36	0.06	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.10	0.03	<0.03	0.14	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.20	0.07	<0.02	0.31	0.05	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.16	0.05	<0.02	0.22	0.04	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	<0.02	<0.02	0.05	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.14	0.04	<0.02	0.23	0.04	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	2.29	0.68	<0.34	2.74	0.50	<0.34
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	0.07	0.03	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	0.12	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	0.34	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	0.47	0.04	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	12.5	0.3	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	2093	206	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	2160	265	<10	60	69	18

SOILS

Lab number			130765-7	130765-8	130765-9	130765-10	130765-11	130765-12
Sample id			19/3A	19/4	19/4	19/5	19/5	19/6
Depth (m)			0.00-0.20	0.30-0.50	0.70-0.90	0.30-0.50	0.70-0.90	0.30-0.50
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.32	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.51	<0.02	0.03	0.06	<0.02	0.08
Anthracene	CE087 ^U	mg/kg	0.26	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.65	<0.02	0.05	0.12	<0.02	0.16
Pyrene	CE087 ^M	mg/kg	1.47	0.02	0.04	0.11	<0.02	0.13
Benzo(a)anthracene	CE087 ^U	mg/kg	0.39	<0.02	0.03	0.08	<0.02	0.09
Chrysene	CE087 ^M	mg/kg	0.47	<0.03	<0.03	0.10	<0.03	0.10
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.69	<0.02	<0.02	0.10	<0.02	0.12
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.24	<0.03	<0.03	0.04	<0.03	0.05
Benzo(a)pyrene	CE087 ^U	mg/kg	0.65	<0.02	<0.02	0.08	<0.02	0.10
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.53	<0.02	<0.02	0.06	<0.02	0.08
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.57	<0.02	<0.02	0.06	<0.02	0.06
PAH (total of USEPA 16)	CE087	mg/kg	6.85	<0.34	<0.34	0.80	<0.34	0.98
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	1.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	452	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	2077	48	12	46	<10	17

SOILS

Lab number			130765-13	130765-14	130765-15	130765-16	130765-17	130765-18
Sample id			19/6	19/7	19/7	19/8	19/8	19/9
Depth (m)			0.70-0.90	0.50-0.70	0.70-0.90	0.30-0.50	0.70-0.90	0.50-0.70
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.08	<0.02	0.06	0.07	0.04
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	0.20	0.04	0.15	0.18	0.10
Pyrene	CE087 ^M	mg/kg	<0.02	0.17	0.03	0.13	0.15	0.09
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.10	0.03	0.09	0.10	0.06
Chrysene	CE087 ^M	mg/kg	<0.03	0.12	<0.03	0.09	0.11	0.06
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.13	0.02	0.10	0.13	0.07
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	0.06	<0.03	0.05	0.05	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.11	0.03	0.09	0.11	0.06
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.08	<0.02	0.06	0.07	0.04
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.08	<0.02	0.06	0.07	0.04
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	1.14	<0.34	0.89	1.08	0.56
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	99	12	44	36	33

SOILS

Lab number			130765-19	130765-20	130765-21	130765-22	130765-23	130765-24
Sample id			19/9	19/10	19/10	20/1	20/1	20/2
Depth (m)			0.70-0.90	0.30-0.50	0.70-0.90	0.30-0.50	0.70-0.90	0.20-0.40
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.07	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.05	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.26	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.36	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.03	0.18	0.05	1.60	<0.02	0.09
Anthracene	CE087 ^U	mg/kg	<0.02	0.04	0.02	0.50	<0.02	0.03
Fluoranthene	CE087 ^M	mg/kg	0.04	0.30	0.24	1.94	<0.02	0.25
Pyrene	CE087 ^M	mg/kg	0.04	0.27	0.24	1.98	0.02	0.27
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.13	0.16	0.80	<0.02	0.12
Chrysene	CE087 ^M	mg/kg	<0.03	0.15	0.18	0.83	<0.03	0.16
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.16	0.21	0.84	<0.02	0.16
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	0.06	0.10	0.36	<0.03	0.06
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.14	0.19	0.76	<0.02	0.15
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.10	0.14	0.51	<0.02	0.11
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	0.02	0.10	<0.02	0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.10	0.14	0.50	<0.02	0.13
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	1.62	1.69	11.5	<0.34	1.55
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<14	62	27	165	<10	44

SOILS

Lab number			130765-25	130765-26	130765-27	130765-28	130765-29	130765-30
Sample id			20/2	20/3	20/3	20/4	Grey Fill	20/5
Depth (m)			0.70-0.90	0.30-0.45	0.70-0.90	0.60-0.85	-	0.20-0.40
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.03	<0.02	0.04
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Acenaphthene	CE087 ^M	mg/kg	0.02	<0.02	<0.02	<0.02	<0.02	0.08
Fluorene	CE087 ^U	mg/kg	0.02	<0.02	<0.02	<0.02	<0.02	0.07
Phenanthrene	CE087 ^M	mg/kg	0.11	0.17	<0.02	0.06	<0.02	0.66
Anthracene	CE087 ^U	mg/kg	0.03	0.06	<0.02	<0.02	<0.02	0.20
Fluoranthene	CE087 ^M	mg/kg	0.16	0.42	0.04	0.13	<0.02	1.15
Pyrene	CE087 ^M	mg/kg	0.14	0.40	0.04	0.12	<0.02	1.06
Benzo(a)anthracene	CE087 ^U	mg/kg	0.07	0.20	<0.02	0.08	<0.02	0.52
Chrysene	CE087 ^M	mg/kg	0.08	0.23	<0.03	0.09	<0.03	0.60
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.06	0.24	0.02	0.11	<0.02	0.67
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.05	0.11	<0.03	0.05	<0.03	0.27
Benzo(a)pyrene	CE087 ^U	mg/kg	0.06	0.23	0.03	0.06	<0.02	0.64
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.05	0.17	<0.02	0.06	<0.02	0.46
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.03	0.03	<0.02	<0.02	<0.02	0.09
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.05	0.17	<0.02	0.06	<0.02	0.45
PAH (total of USEPA 16)	CE087	mg/kg	0.93	2.43	<0.34	0.84	<0.34	6.99
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	118	14	<10	33	316

SOILS

Lab number			130765-31	130765-32	130765-33	130765-34	130765-35	130765-36
Sample id			20/5	20/6	20/6	20/7	20/7	20/8
Depth (m)			0.70-0.90	0.20-0.50	0.70-0.90	0.30-0.50	0.70-0.90	0.30-0.50
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	0.08	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.05	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.84	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	0.42	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.14	<0.02	3.34	<0.02	0.10
Anthracene	CE087 ^U	mg/kg	<0.02	0.04	<0.02	1.53	<0.02	0.03
Fluoranthene	CE087 ^M	mg/kg	<0.02	0.28	<0.02	16.16	0.03	0.26
Pyrene	CE087 ^M	mg/kg	<0.02	0.26	<0.02	15.89	0.03	0.25
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.15	<0.02	8.34	<0.02	0.14
Chrysene	CE087 ^M	mg/kg	<0.03	0.18	<0.03	8.38	<0.03	0.16
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.18	<0.02	11.95	0.03	0.17
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	0.08	<0.03	5.70	<0.03	0.08
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.15	<0.02	12.20	0.03	0.18
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.12	<0.02	8.28	<0.02	0.12
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	0.03	<0.02	1.43	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.12	<0.02	8.02	<0.02	0.11
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	1.75	<0.34	103	<0.34	1.62
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPB (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	18	<10	266	18	50

SOILS

Lab number			130765-37	130765-38	130765-39	130765-40	130765-41	130765-42
Sample id			20/8	20/9	20/9	20/10	20/10	20/11
Depth (m)			0.70-0.90	0.00-0.25	0.70-0.90	0.30-0.50	0.70-0.90	0.30-0.50
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.07	0.05
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.03	0.04
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.04	0.26	0.44
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.10	0.15
Fluoranthene	CE087 ^M	mg/kg	0.03	0.03	<0.02	0.12	0.72	1.05
Pyrene	CE087 ^M	mg/kg	0.04	0.03	<0.02	0.10	0.66	0.95
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.02	<0.02	0.05	0.30	0.45
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	0.05	0.36	0.53
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.02	<0.02	<0.02	0.05	0.35	0.52
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03	<0.03	<0.03	0.12	0.22
Benzo(a)pyrene	CE087 ^U	mg/kg	0.03	<0.02	<0.02	0.04	0.29	0.44
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.03	0.20	0.32
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.05	0.07
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	0.03	0.22	0.33
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	0.49	3.73	5.55
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<14	<10	<10	26	100	184

SOILS

Lab number			130765-43	130765-44	130765-45	130765-46	130765-47
Sample id			20/11	20/12	20/12	20/13	20/13
Depth (m)			0.70-0.90	0.30-0.50	0.70-0.90	0.30-0.42	0.70-0.90
Date sampled			-	-	-	-	-
Test	Method	Units					
PAH							
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	0.09	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	0.06	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	0.78	0.05	0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	0.22	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	1.61	0.14	0.13	<0.02
Pyrene	CE087 ^M	mg/kg	<0.02	1.40	0.13	0.14	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	0.67	0.08	0.07	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	0.72	0.08	0.07	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	0.85	0.10	0.10	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	0.38	0.04	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	0.74	0.08	0.08	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	0.55	0.06	0.06	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	0.12	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	0.56	0.06	0.05	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	8.74	0.83	0.70	<0.34
BTEX & TPH							
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	232	52	<10	<10

GROUNDWATERS

Lab number			130765-48	130765-49
Sample id			TR 19/1	AH 19/1
Depth (m)			-	-
Date sampled			-	-
Time sampled			-	-
Test	Method	Units		
PAH				
Naphthalene	CE051	µg/l	<0.1	2.7
Acenaphthylene	CE051	µg/l	<0.1	<0.1
Acenaphthene	CE051	µg/l	<0.1	<0.1
Fluorene	CE051	µg/l	<0.1	<0.1
Phenanthrene	CE051	µg/l	<0.1	3.7
Anthracene	CE051	µg/l	<0.1	<0.1
Fluoranthene	CE051	µg/l	<0.1	3.0
Pyrene	CE051	µg/l	<0.1	4.5
Benzo(a)anthracene	CE051	µg/l	<0.1	<0.1
Chrysene	CE051	µg/l	<0.1	<0.1
Benzo(b)fluoranthene	CE051	µg/l	<0.1	<0.1
Benzo(k)fluoranthene	CE051	µg/l	<0.1	<0.1
Benzo(a)pyrene	CE051	µg/l	<0.1	<0.1
Indeno(123cd)pyrene	CE051	µg/l	<0.1	<0.1
Dibenz(ah)anthracene	CE051	µg/l	<0.1	<0.1
Benzo(ghi)perylene	CE051	µg/l	<0.1	<0.1
PAH (total of USEPA 16)	CE051	µg/l	<1.6	13.8
BTEX & TPH				
MTBE	CE057 ^u	µg/l	<2	<2
Benzene	CE057 ^u	µg/l	<1	<1
Toluene	CE057 ^u	µg/l	<1	<1
Ethylbenzene	CE057 ^u	µg/l	<1	<1
m & p-Xylene	CE057 ^u	µg/l	<2	<2
o-Xylene	CE057 ^u	µg/l	<1	<1
VPH (>C5-C10)	CE175	µg/l	<1	<1
EPH (>C10-C16)	CE052	µg/l	456	50505
EPH (>C16-C40)	CE052	µg/l	2528	66839

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.015	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.013	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.013	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.014	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.017	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.012	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.028	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.025	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.019	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.028	mg/kg
CE192	MTBE	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	Benzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Toluene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Ethylbenzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	m & p-Xylene	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	o-Xylene	Headspace GC-FID	As received	U	0.01	mg/kg
CE067	VPH (>C5-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE033	EPH (>C10-C16)	Solvent extraction, GC-FID	As received		10	mg/kg
CE033	EPH (>C16-C40)	Solvent extraction, GC-FID	As received		10	mg/kg

METHOD DETAILS

METHOD	GROUNDWATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l
CE057	MTBE	Headspace GC-FID	U	2	µg/l
CE057	Benzene	Headspace GC-FID	U	1	µg/l
CE057	Toluene	Headspace GC-FID	U	1	µg/l
CE057	Ethylbenzene	Headspace GC-FID	U	1	µg/l
CE057	m & p-Xylene	Headspace GC-FID	U	2	µg/l
CE057	o-Xylene	Headspace GC-FID	U	1	µg/l
CE057	BTEX (total)	Headspace GC-FID		6	µg/l
CE175	VPH (>C5-C10)	Headspace GC-FID		10	µg/l
CE052	EPH (>C10-C16)	Solvent extraction, GC-FID		10	µg/l
CE052	EPH (>C16-C40)	Solvent extraction, GC-FID		10	µg/l

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
130765-1	19/1	0.00-0.25	N	
130765-2	19/1	0.30-0.50	N	
130765-3	19/1	0.70-0.90	N	
130765-4	19/2	0.00-0.25	N	
130765-5	19/2	0.30-0.50	N	
130765-6	19/2	0.70-0.90	N	
130765-7	19/3A	0.00-0.20	N	
130765-8	19/4	0.30-0.50	N	
130765-9	19/4	0.70-0.90	N	
130765-10	19/5	0.30-0.50	N	
130765-11	19/5	0.70-0.90	N	
130765-12	19/6	0.30-0.50	N	
130765-13	19/6	0.70-0.90	N	
130765-14	19/7	0.50-0.70	N	
130765-15	19/7	0.70-0.90	N	
130765-16	19/8	0.30-0.50	N	
130765-17	19/8	0.70-0.90	N	
130765-18	19/9	0.50-0.70	N	
130765-19	19/9	0.70-0.90	N	
130765-20	19/10	0.30-0.50	N	
130765-21	19/10	0.70-0.90	N	
130765-22	20/1	0.30-0.50	N	
130765-23	20/1	0.70-0.90	N	
130765-24	20/2	0.20-0.40	N	
130765-25	20/2	0.70-0.90	N	
130765-26	20/3	0.30-0.45	N	
130765-27	20/3	0.70-0.90	N	
130765-28	20/4	0.60-0.85	N	
130765-29	Grey Fill	-	N	
130765-30	20/5	0.20-0.40	N	

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
130765-31	20/5	0.70-0.90	N	
130765-32	20/6	0.20-0.50	N	
130765-33	20/6	0.70-0.90	N	
130765-34	20/7	0.30-0.50	N	
130765-35	20/7	0.70-0.90	N	
130765-36	20/8	0.30-0.50	N	
130765-37	20/8	0.70-0.90	N	
130765-38	20/9	0.00-0.25	N	
130765-39	20/9	0.70-0.90	N	
130765-40	20/10	0.30-0.50	N	
130765-41	20/10	0.70-0.90	N	
130765-42	20/11	0.30-0.50	N	
130765-43	20/11	0.70-0.90	N	
130765-44	20/12	0.30-0.50	N	
130765-45	20/12	0.70-0.90	N	
130765-46	20/13	0.30-0.42	N	
130765-47	20/13	0.70-0.90	N	
130765-48	TR 19/1	-	N	
130765-49	AH 19/1	-	N	

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Soil/Solid samples will be disposed of 4 weeks from initial receipt unless otherwise agreed.

Waters and leachate samples will be disposed of 2 weeks from report issue unless otherwise agreed.

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For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis



CHEMTECH
environmental
part of Cawood

85

ANALYTICAL TEST REPORT

Contract no: 130766

Contract name: Cambridge Marleigh

Client reference: -

Clients name: Intersoil

Clients address: Suite 30
58 Low Friar Street
Newcastle Upon Tyne
NE1 5UE

Samples received: 21 February 2024

Analysis started: 21 February 2024

Analysis completed: 28 February 2024

Report issued: 28 February 2024

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:



Abbie Neasham-Bourn
Senior Reporting Administrator

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
130766-1	21/1	0.40-0.70	Sand with Gravel	-	-	15.4
130766-2	21/1	0.70-1.00	Sand with Gravel	-	-	17.5
130766-3	21/2	0.00-0.30	Sandy Clay with Gravel & Roots	-	-	17
130766-4	21/2	0.70-0.88	Sandy Clay with Gravel	-	-	11.1
130766-5	21/3	0.30-0.50	Sandy Clayey Loam with Gravel	-	-	15.5
130766-6	21/3	0.70-0.90	Sandy Clay with Gravel	-	-	15.9
130766-7	21/4	0.30-0.50	Sandy Clayey Loam with Gravel & Roots	-	-	12.3
130766-8	21/4	0.70-0.90	Sandy Clay with Gravel	-	-	13
130766-9	21/5	0.00-0.30	Sandy Clay with Gravel	-	-	16.2
130766-10	21/5	0.50-0.80	Loamy Clay with Gravel & Roots	-	-	14.2

SOILS

Lab number			130766-1	130766-2	130766-3	130766-4	130766-5	130766-6
Sample id			21/1	21/1	21/2	21/2	21/3	21/3
Depth (m)			0.40-0.70	0.70-1.00	0.00-0.30	0.70-0.88	0.30-0.50	0.70-0.90
Date sampled			-	-	-	-	-	-
Test	Method	Units						
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.03	0.30	0.17	<0.02	0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	0.07	0.04	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.08	0.53	0.22	<0.02	0.08	<0.02
Pyrene	CE087 ^M	mg/kg	0.07	0.46	0.18	<0.02	0.09	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.04	0.26	0.10	<0.02	0.05	<0.02
Chrysene	CE087 ^M	mg/kg	0.04	0.27	0.11	<0.03	0.06	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.05	0.31	0.11	<0.02	0.06	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	0.15	0.05	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.04	0.28	0.09	<0.02	0.05	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.03	0.19	0.07	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.03	0.18	0.06	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	0.43	3.05	1.19	<0.34	0.40	<0.34
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	<10	19	<10	<10	15	<10

SOILS

Lab number			130766-7	130766-8	130766-9	130766-10
Sample id			21/4	21/4	21/5	21/5
Depth (m)			0.30-0.50	0.70-0.90	0.00-0.30	0.50-0.80
Date sampled			-	-	-	-
Test	Method	Units				
PAH						
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.35	<0.02	0.08	<0.02
Anthracene	CE087 ^U	mg/kg	0.11	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.95	<0.02	0.14	<0.02
Pyrene	CE087 ^M	mg/kg	0.94	<0.02	0.12	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.50	<0.02	0.07	<0.02
Chrysene	CE087 ^M	mg/kg	0.55	<0.03	0.08	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.68	<0.02	0.10	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.28	<0.03	0.04	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.62	<0.02	0.08	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.43	<0.02	0.06	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.10	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.43	<0.02	0.06	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	5.99	<0.34	0.82	<0.34
BTEX & TPH						
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH (>C5-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
EPH (>C10-C16)	CE033	mg/kg	<10	<10	<10	<10
EPH (>C16-C40)	CE033	mg/kg	281	<10	140	<10

GROUNDWATERS

Lab number			130766-11
Sample id			21/1
Depth (m)			-
Date sampled			-
Time sampled			-
Test	Method	Units	
PAH			
Naphthalene	CE051	µg/l	<0.1
Acenaphthylene	CE051	µg/l	<0.1
Acenaphthene	CE051	µg/l	<0.1
Fluorene	CE051	µg/l	<0.1
Phenanthrene	CE051	µg/l	6.4
Anthracene	CE051	µg/l	2.8
Fluoranthene	CE051	µg/l	22.1
Pyrene	CE051	µg/l	20.3
Benzo(a)anthracene	CE051	µg/l	11.7
Chrysene	CE051	µg/l	13.0
Benzo(b)fluoranthene	CE051	µg/l	15.7
Benzo(k)fluoranthene	CE051	µg/l	6.1
Benzo(a)pyrene	CE051	µg/l	15.4
Indeno(123cd)pyrene	CE051	µg/l	9.9
Dibenz(ah)anthracene	CE051	µg/l	1.9
Benzo(ghi)perylene	CE051	µg/l	9.4
PAH (total of USEPA 16)	CE051	µg/l	134.9
BTEX & TPH			
MTBE	CE057 ^u	µg/l	<2
Benzene	CE057 ^u	µg/l	<1
Toluene	CE057 ^u	µg/l	<1
Ethylbenzene	CE057 ^u	µg/l	<1
m & p-Xylene	CE057 ^u	µg/l	<2
o-Xylene	CE057 ^u	µg/l	<1
VPH (>C5-C10)	CE175	µg/l	<1
EPH (>C10-C16)	CE052	µg/l	1235
EPH (>C16-C40)	CE052	µg/l	4143

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.015	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.013	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.013	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.014	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.017	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.012	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.028	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.025	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.019	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.028	mg/kg
CE192	MTBE	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	Benzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Toluene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Ethylbenzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	m & p-Xylene	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	o-Xylene	Headspace GC-FID	As received	U	0.01	mg/kg
CE067	VPH (>C5-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE033	EPH (>C10-C16)	Solvent extraction, GC-FID	As received		10	mg/kg
CE033	EPH (>C16-C40)	Solvent extraction, GC-FID	As received		10	mg/kg

METHOD DETAILS

METHOD	GROUNDWATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l
CE057	MTBE	Headspace GC-FID	U	2	µg/l
CE057	Benzene	Headspace GC-FID	U	1	µg/l
CE057	Toluene	Headspace GC-FID	U	1	µg/l
CE057	Ethylbenzene	Headspace GC-FID	U	1	µg/l
CE057	m & p-Xylene	Headspace GC-FID	U	2	µg/l
CE057	o-Xylene	Headspace GC-FID	U	1	µg/l
CE175	VPH (>C5-C10)	Headspace GC-FID		10	µg/l
CE052	EPH (>C10-C16)	Solvent extraction, GC-FID		10	µg/l
CE052	EPH (>C16-C40)	Solvent extraction, GC-FID		10	µg/l

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
130766-1	21/1	0.40-0.70	N	
130766-2	21/1	0.70-1.00	N	
130766-3	21/2	0.00-0.30	N	
130766-4	21/2	0.70-0.88	N	
130766-5	21/3	0.30-0.50	N	
130766-6	21/3	0.70-0.90	N	
130766-7	21/4	0.30-0.50	N	
130766-8	21/4	0.70-0.90	N	
130766-9	21/5	0.00-0.30	N	
130766-10	21/5	0.50-0.80	N	
130766-11	21/1	-	N	

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Soil/Solid samples will be disposed of 4 weeks from initial receipt unless otherwise agreed.

Waters and leachate samples will be disposed of 2 weeks from report issue unless otherwise agreed.

DEFRA Licence for the introduction and movement within England of prohibited soil for chemical and physical analysis Licence No: 132693/469907-0

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis

Denis Devane
Hill
The Power House,
Gunpowder Mill,
Powdermill Lane,
Waltham Abbey, EN9 1BN

Our Ref CRM.1027.067.GE.L.006.B

4 April 2024

Sent via email (DenisDevane@hill.co.uk)

Dear Denis

Wing, Cambridge, CB5 8AA Pipe Assessment

Site Works

Enzygo Geoenvironmental Ltd undertook a site visit on 21st to 25th March 2024 to sample soils at the above named site. Trial pits were excavated at the locations where Intersoil Ltd had identified hydrocarbon exceedances above the threshold values for plastic water pipes.

In addition, a further seven trial pits (TP101 to TP107) were excavated along the route of an existing water pipe. All of the locations are shown on the attached drawing.

Soil samples were collected at depths of 0 to 0.3m, 0.3 to 0.5m, 0.5 to 0.7m and 0.7 to 0.9m below ground level (bgl). These sample depths are based on the sample depths collected by Intersoil Ltd. Samples were collected in suitable containers provided by the laboratory and sample collection equipment was cleaned between each location to avoid potential cross contamination.

Laboratory Testing

Samples were sent for chemical analysis to the laboratories of I2 Analytical, who are MCERTS and UKAS accredited, for testing. Samples were tested for Total Petroleum Hydrocarbons (TPH: CWG) which were the only exceedances identified by Intersoil Ltd.

Results of the chemical testing is attached

Assessment

Results of the chemical testing were compared against the threshold values for plastic water pipes provided by Water UK. The only exceedances of the threshold values are those summarised on the table below:

Exploratory Hole	Depth (m)	Determinant	Concentration (mg/kg)	
			Soil	Threshold
2UXW	0 to 0.3	TPH C ₁₀ to C ₁₆	10.6	10
TP107	0 to 0.3	TPH C ₁₀ to C ₁₆	10	10

Samples collected from below those listed above showed no exceedance of the threshold values for plastic pipes. This indicates that the TPH exceedance identified is associated with surface spillage and has not permeated in to the underlying soils.

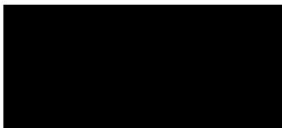
Water pipes were placed at depths of 0.7m bgl and no exceedance of the threshold values was identified at these depths.

None of the TPH concentrations exceed the GAC values for residential use with plant up-take and as such do not pose a risk to site users.

We hope that we have correctly interpreted your requirements.

Yours sincerely,

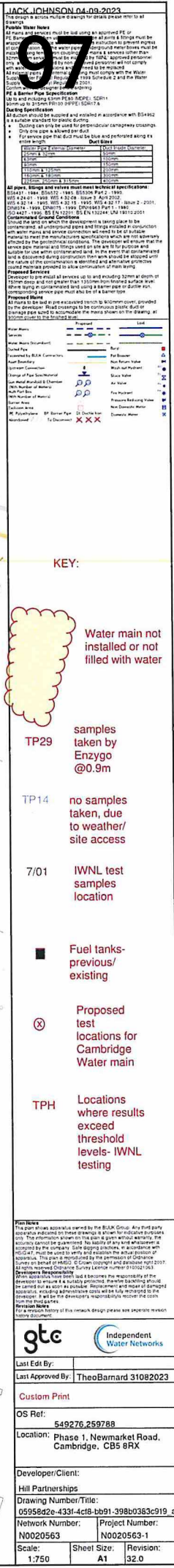
For and on behalf of Enzygo Geoenvironmental Ltd



Steve Rhodes BSc (Hon) MSc DIC CEng CGeol MIMMM FGS MIEEnv Sc

Director

Plan



Results

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Analytical Report Number : 24-010991

Project / Site name:	Wing	Samples received on:	26/03/2024
Your job number:	CRM.1027.067	Samples instructed on/ Analysis started on:	26/03/2024
Your order number:		Analysis completed by:	02/04/2024
Report Issue Number:	1	Report issued on:	03/04/2024
Samples Analysed:	56 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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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-010991
Project / Site name: Wing

Lab Sample Number	154975	154976	154977	154978	154979
Sample Reference	8/21	8/21	8/21	8/21	9/30
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.00-0.30	0.30-0.50	0.50-0.70	0.70-0.90	0.00-0.30
Date Sampled	22/03/2024	22/03/2024	22/03/2024	22/03/2024	22/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	42.4
Moisture Content	%	0.01	NONE	9.6	9.5	9.1	11	8.4
Total mass of sample received	kg	0.1	NONE	0.3	0.4	0.3	0.4	0.3

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	2.7	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	15	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	15	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	26	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	26	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Analytical Report Number: 24-010991
Project / Site name: Wing

Lab Sample Number	154980	154981	154982	154983	154984
Sample Reference	9/30	9/30	9/30	9/40	9/40
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.30-0.50	0.50-0.70	0.70-0.90	0.00-0.30	0.30-0.50
Date Sampled	22/03/2024	22/03/2024	22/03/2024	22/03/2024	22/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	40.4	40.2	< 0.1	36.7	< 0.1
Moisture Content	%	0.01	NONE	8.1	8.9	10	8.5	10
Total mass of sample received	kg	0.1	NONE	0.4	0.3	0.4	0.3	0.4

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	6.5	< 2.0	4.7	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	14	< 8.0	12	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	94	82	110	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	110	82	130	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	2.3	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	18	30	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	65	85	140	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	65	100	170	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Lab Sample Number	154985	154986	154987	154988	154989
Sample Reference	9/40	9/40	385	385	385
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50-0.70	0.70-0.90	0.00-0.30	0.30-0.50	0.50-0.70
Date Sampled	22/03/2024	22/03/2024	22/03/2024	22/03/2024	22/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	32.3	32.7	< 0.1
Moisture Content	%	0.01	NONE	11	10	12	7.8	14
Total mass of sample received	kg	0.1	NONE	0.3	0.4	0.3	0.4	0.3

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	2.5	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	9.4	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	100	55	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	110	55	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	11	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	71	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	82	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Lab Sample Number	154990	154991	154992	154993	154994
Sample Reference	385	2UXW	2UXW	2UXW	2UXW
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.70-0.90	0.00-0.30	0.30-0.50	0.50-0.70	0.70-0.90
Date Sampled	22/03/2024	22/03/2024	22/03/2024	22/03/2024	22/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	39.8	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7.8	9.9	16	15	15
Total mass of sample received	kg	0.1	NONE	0.4	0.3	0.4	0.3	0.4

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	6.5	6.1	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	15	14	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	140	99	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	160	120	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	2.6	4.5	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	19	41	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	180	160	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	200	210	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Lab Sample Number	154995	154996	154997	154998	154999
Sample Reference	19/1	19/1	19/1	19/1	19/3A
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.00-0.30	0.30-0.50	0.50-0.70	0.70-0.90	0.00-0.30
Date Sampled	22/03/2024	22/03/2024	22/03/2024	22/03/2024	22/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	11	10	14	7.5
Total mass of sample received	kg	0.1	NONE	0.3	0.4	0.3	0.4	0.3

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	18
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	18

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	16	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	16	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Lab Sample Number	155000	155001	155002	155003	155004
Sample Reference	19/3A	19/3A	19/3A	TP101	TP101
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.30-0.50	0.50-0.70	0.70-0.90	0.00-0.30	0.30-0.50
Date Sampled	22/03/2024	22/03/2024	22/03/2024	24/03/2024	24/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	56.4	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	17	15	17	17
Total mass of sample received	kg	0.1	NONE	0.4	0.3	0.4	0.3	0.4

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Lab Sample Number	155005	155006	155007	155008	155009
Sample Reference	TP101	TP101	TP102	TP102	TP102
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50-0.70	0.70-0.90	0.00-0.30	0.30-0.50	0.50-0.70
Date Sampled	24/03/2024	24/03/2024	24/03/2024	24/03/2024	24/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	15	15	15	15
Total mass of sample received	kg	0.1	NONE	0.3	0.4	0.3	0.4	0.3

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Lab Sample Number	155010	155011	155012	155013	155014
Sample Reference	TP102	TP103	TP103	TP103	TP103
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.70-0.90	0.00-0.30	0.30-0.50	0.50-0.70	0.70-0.90
Date Sampled	24/03/2024	24/03/2024	24/03/2024	24/03/2024	24/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	14	15	13
Total mass of sample received	kg	0.1	NONE	0.4	0.3	0.4	0.3	0.4

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Analytical Report Number: 24-010991
Project / Site name: Wing

Lab Sample Number	155015	155016	155017	155018	155019
Sample Reference	TP104	TP104	TP104	TP104	TP105
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.00-0.30	0.30-0.50	0.50-0.70	0.70-0.90	0.00-0.30
Date Sampled	24/03/2024	24/03/2024	24/03/2024	24/03/2024	24/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	11	15	10	14
Total mass of sample received	kg	0.1	NONE	0.3	0.4	0.3	0.4	0.3

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Analytical Report Number: 24-010991
Project / Site name: Wing

Lab Sample Number	155020	155021	155022	155023	155024
Sample Reference	TP105	TP105	TP105	TP106	TP106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.30-0.50	0.50-0.70	0.70-0.90	0.00-0.30	0.30-0.50
Date Sampled	24/03/2024	24/03/2024	24/03/2024	24/03/2024	24/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	16	14	16	13
Total mass of sample received	kg	0.1	NONE	0.4	0.3	0.4	0.3	0.4

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Analytical Report Number: 24-010991
Project / Site name: Wing

Lab Sample Number	155025	155026	155027	155028	155029
Sample Reference	TP106	TP106	TP107	TP107	TP107
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50-0.70	0.70-0.90	0.00-0.30	0.30-0.50	0.50-0.70
Date Sampled	24/03/2024	24/03/2024	24/03/2024	24/03/2024	24/03/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	15	11	13	14
Total mass of sample received	kg	0.1	NONE	0.3	0.4	0.3	0.4	0.3

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	6.8	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	15	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	67	20	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	89	20	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	3.2	4.3	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	46	24	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	59	28	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Analytical Report Number: 24-010991
Project / Site name: Wing

Lab Sample Number	155030			
Sample Reference	TP107			
Sample Number	None Supplied			
Depth (m)	0.70-0.90			
Date Sampled	24/03/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection		

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	13
Total mass of sample received	kg	0.1	NONE	0.4

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

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

Analytical Report Number : 24-010991

Project / Site name: Wing

* 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 *
154975	21.sie	None Supplied	0.00-0.30	Brown clay and sand with gravel
154976	21.sie	None Supplied	0.30-0.50	Brown clay and sand with gravel
154977	21.sie	None Supplied	0.50-0.70	Brown sandy clay with gravel
154978	21.sie	None Supplied	0.70-0.90	Brown sandy clay with gravel
154979	30.wrz	None Supplied	0.00-0.30	Brown sand with gravel and stones
154980	30.wrz	None Supplied	0.30-0.50	Brown sandy clay with gravel and stones
154981	30.wrz	None Supplied	0.50-0.70	Brown clay and sand with gravel and stones
154982	30.wrz	None Supplied	0.70-0.90	Brown clay and sand with gravel and brick
154983	wrz.40	None Supplied	0.00-0.30	Brown sand with gravel and stones
154984	wrz.40	None Supplied	0.30-0.50	Brown clay and sand with gravel
154985	wrz.40	None Supplied	0.50-0.70	Brown clay and sand with gravel
154986	wrz.40	None Supplied	0.70-0.90	Brown clay and sand with gravel
154987	385	None Supplied	0.00-0.30	Brown sandy clay with gravel and stones
154988	385	None Supplied	0.30-0.50	Brown sandy clay with gravel and stones
154989	385	None Supplied	0.50-0.70	Brown clay and loam with gravel and vegetation
154990	385	None Supplied	0.70-0.90	Brown clay and sand with gravel and rubble
154991	TP8	None Supplied	0.00-0.30	Brown clay and sand with gravel and stones
154992	TP8	None Supplied	0.30-0.50	Brown clay and sand with gravel
154993	TP8	None Supplied	0.50-0.70	Brown clay and sand with gravel
154994	TP8	None Supplied	0.70-0.90	Brown clay and sand with gravel
154995	19/1	None Supplied	0.00-0.30	Brown clay and sand with gravel
154996	19/1	None Supplied	0.30-0.50	Brown clay and sand with gravel
154997	19/1	None Supplied	0.50-0.70	Brown clay and sand with gravel
154998	19/1	None Supplied	0.70-0.90	Brown clay and sand
154999	19/3A	None Supplied	0.00-0.30	Brown clay and sand with gravel
155000	19/3A	None Supplied	0.30-0.50	Brown gravelly sand with stones
155001	19/3A	None Supplied	0.50-0.70	Brown clay and sand
155002	19/3A	None Supplied	0.70-0.90	Brown clay and sand with gravel
155003	TP101	None Supplied	0.00-0.30	Brown clay and loam with gravel and vegetation
155004	TP101	None Supplied	0.30-0.50	Brown clay and sand with gravel
155005	TP101	None Supplied	0.50-0.70	Brown clay and sand with gravel
155006	TP101	None Supplied	0.70-0.90	Brown clay and sand with gravel and vegetation
155007	TP102	None Supplied	0.00-0.30	Brown clay and loam with gravel and vegetation
155008	TP102	None Supplied	0.30-0.50	Brown clay and sand with gravel and vegetation
155009	TP102	None Supplied	0.50-0.70	Brown clay and sand with gravel and vegetation
155010	TP102	None Supplied	0.70-0.90	Brown clay and sand with gravel and vegetation
155011	TP103	None Supplied	0.00-0.30	Brown clay and sand with gravel and vegetation
155012	TP103	None Supplied	0.30-0.50	Brown clay and sand with gravel and vegetation
155013	TP103	None Supplied	0.50-0.70	Brown clay and sand with gravel and vegetation
155014	TP103	None Supplied	0.70-0.90	Brown clay and sand with gravel
155015	TP104	None Supplied	0.00-0.30	Brown clay and loam with gravel and vegetation
155016	TP104	None Supplied	0.30-0.50	Brown sandy clay with gravel and vegetation
155017	TP104	None Supplied	0.50-0.70	Brown clay and sand with gravel and vegetation
155018	TP104	None Supplied	0.70-0.90	Brown clay and sand with gravel and vegetation
155019	TP105	None Supplied	0.00-0.30	Brown clay and sand with gravel and vegetation
155020	TP105	None Supplied	0.30-0.50	Brown sandy clay with gravel and vegetation
155021	TP105	None Supplied	0.50-0.70	Brown clay and sand with gravel and vegetation
155022	TP105	None Supplied	0.70-0.90	Brown clay and sand with gravel and vegetation
155023	TP106	None Supplied	0.00-0.30	Brown clay and sand with gravel and vegetation
155024	TP106	None Supplied	0.30-0.50	Brown clay and sand with gravel
155025	TP106	None Supplied	0.50-0.70	Brown clay and sand with gravel
155026	TP106	None Supplied	0.70-0.90	Brown clay and sand with gravel
155027	TP107	None Supplied	0.00-0.30	Brown loam and sand with gravel and vegetation
155028	TP107	None Supplied	0.30-0.50	Brown clay and sand with gravel
155029	TP107	None Supplied	0.50-0.70	Brown clay and sand with gravel
155030	TP107	None Supplied	0.70-0.90	Brown clay and sand with gravel

Analytical Report Number : 24-010991

Project / Site name: Wing

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
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/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 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Plan Showing Extent of Tank Leakage



KEY

Phase 1A Boundary

Phase 1B Boundary

25 Plot number



REV	DATE	DESCRIPTION	BY	CHECKED
1	04/05/21	Final Issue		

PRELIMINARY

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**Pollard
Thomas
Edwards**

PROJECT	JOB NUMBER	CLIENT	DATE	FILE VERSION
Marleigh Phase 1b	16-097-DS	As indicated@AO	May '21	

Site Layout -
Phase 1B Full

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