

Report No	Date
25061/R3	June 2026
Project COED D'ARCY – PHASE 3 SOIL VERIFICATION REPORT: PLOTS 22 TO 25, 27 TO 29 AND 36	
Client	TRJ

Spectrum Geo Services
Foxglove Cottage,
Cwm Risca Lane,
Tondu,
BRIDGEND
CF32 0EH

Report No:	Date:
25061/R3	June 2026

Project:
COED D'ARCY – PHASE 3 SOIL VERIFICATION REPORT: PLOTS 22 TO 25, 27 TO 29 AND 36

Issue Number	Status	Description of Amendments
1	Draft	
2	Final	

Report prepared by:
Signed  BSc.(Hons), MSc., FGS, CGeol

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CONTENTS

FOREWORD.....	2
1.0 TERMS OF REFERENCE AND INTRODUCTION.....	3
1.2 Scope of Works.....	3
1.3 Development Proposals.....	3
1.4 Limitations.....	3
2.0 BACKGROUND INFORMATION	4
2.1 Verification Report Structure.....	4
2.2 Site Location	4
2.3 Previous Reports	4
2.4 Brief Background and Nature of the Proposed Verification.....	5
3.0 SOIL TESTING.....	6
3.1 Introduction	6
4.0 CONCLUSIONS	9
APPENDIX A	10
Drawings.....	10
APPENDIX B	11

FOREWORD

General Conditions Relating to a Verification Report

This investigation has been devised to generally comply with the relevant principles and requirements of B.S.10175:2011+A2:2017 'Investigation of potentially contaminated sites - Code of practice', science report SC050021/SR3 'Updated Technical Background to the CLEA Model' (Environment Agency, 2008), and DEFRA/Environment Agency (EA), 2019 'land contamination: risk management'. The recommendations made and opinions expressed in this report are based on the information obtained from the sources described using a methodology intended to provide reasonable consistency and robustness.

The opinions expressed in this report are based on the ground conditions revealed by the site works, together with an assessment of the site and of laboratory test results. Whilst opinions may be expressed relating to sub-soil conditions in parts of the site not investigated, for example between exploratory positions, these are only for guidance and no liability can be accepted for their accuracy.

Boring and sampling procedures are undertaken in accordance with B.S.5930:2015 +A1:2020 'Code of Practice for Ground Investigations'. Likewise, in-situ and laboratory testing complies with B.S.1377:1990 'Methods of Tests for Soils for Civil Engineering Purposes' and B.S.22475:2011, unless stated otherwise in the text. Chemical testing has been undertaken by a UKAS accredited laboratory.

Some items of the investigation have been provided by third parties and whilst Spectrum Geo Services Ltd (SGS) have no reason to doubt the accuracy, the items relied on have not been verified. No responsibility can be accepted for errors within third party items presented in this report.

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Any advice, opinions, or recommendations within this document should be read and relied upon only in the context of the document as a whole. The contents of this document are not to be construed as providing legal, business or tax advice or opinion.

1.0 TERMS OF REFERENCE AND INTRODUCTION

The work covered by this document was undertaken on behalf of TRJ, in general accordance with and amendment to the following document:

- *BP Area 1 Remediation. Validation Report. 44382729/BRRP0004. URS 18 January 2010*

The work described in this report represents validation and verification of the required remediation, within that report, comprising soil chemistry limits set out within that report.

1.2 Scope of Works

The objectives of this assessment are:

- To verify the chemical nature of the soils at Plots 22 to 25, 27 to 29 and 36, to ensure compliance with the validation suite set out by URS on Page 41 of their Remediation Report.
- This verification/validation does not include gas membrane assessments by others.

1.3 Development Proposals

It is understood that the intention is to develop the site for the purposes of a residential use, with soft landscaped gardens.

1.4 Limitations

Subsoils are inherently variable and by their very nature are hidden from view such that no investigation can be exhaustive to the extent that all soil conditions are revealed. Conditions may therefore be present beneath the site that was not apparent from the data available for review.

Unless specifically noted to the contrary, it should be assumed that this report has not been submitted to any regulatory authorities for approval. Redevelopment sites in particular may have planning conditions attached in respect of contaminated land assessment. Where we are made aware of such conditions in advance of scoping the works, we can tailor the report to the regulatory authority requirements. Where we are not made aware of any such requirements there can be no certainty that

our investigation will meet any or all the regulatory authority requirements.

2.0 BACKGROUND INFORMATION

2.1 Verification Report Structure

This document has been set out as follows:

- A brief background of the site and nature of the remediation verification planned.
- A description of the activities undertaken.
- Concluding with an assessment of the compliance with the URS validation suites limits.
- Further Recommendations if deemed necessary.

2.2 Site Location

The site is located at Coed D’Arcy, the site of the former BP Llandarcy oil refinery.

At the time of the investigation, the site comprised an open area of partially developed residential units.

2.3 Previous Reports

SGS had previously investigated the site within:

- *Integral Geotechnique: Coed D’Arcy – Additional Drilling Investigation and Phase 3 Coal Mining Risk Assessment 30 September 2019*
- *Integral Geotechnique: Coed D’Arcy – Proof Drilling of Plots 31 November 2019*
- *Integral Geotechnique: Phase 2 Heritage Park, Coed D’Arcy – Planning Condition 11. Planning Application P2019/0021 13 December 2019*
- *BP Area 1 Remediation. Validation Report. 44382729/BRRP0004. URS 18 January 2010*

These documents are appended to report 25061_R1.

2.4 Brief Background and Nature of the Proposed Verification

As part of the regeneration of the former BP Llandarcy oil refinery site, URS were commissioned by BP to develop a remediation strategy and validation for the site known as Area 1 (the site). The site location is shown in Figure 1.

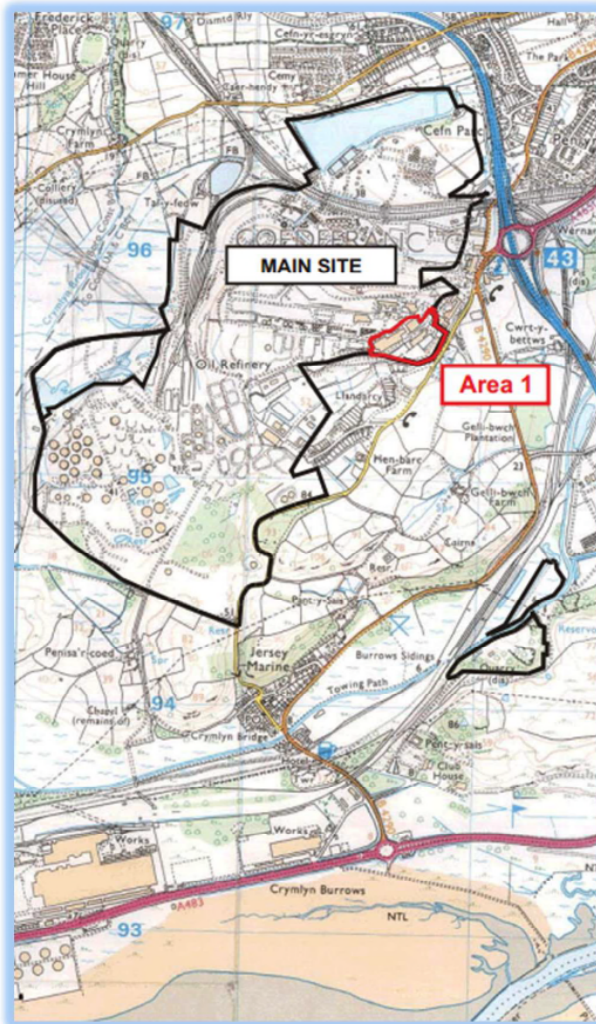


Figure 1: Area 1 Location

Following regulatory acceptance of the remediation strategy, the remediation of Area 1 was undertaken between 5 February 2007 and 29 June 2009. URS thence validated the remediated site, and proposed measures need for future validation of the site, once end use had been developed. These requirements are fully described in the appended URS Validation Report.

The main approved points for Area 1 were;

- a) Soils Validated to the agreed remedial criteria in the area excluding the Lower Car Park,
- b) In-situ validation of the soils prior to the final profiling (Report 25061_R1)
- c) Final validation of the soils within garden areas,
- d) Incorporation of passive venting and gas membranes beneath properties (not included in these reports, but verified by others.)

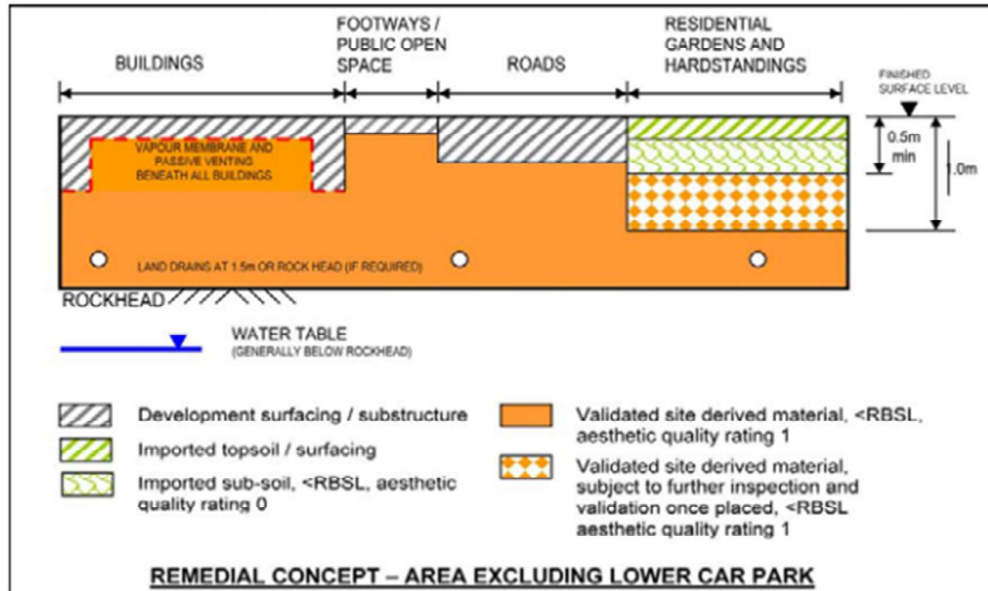
Thus, SGS undertook the following:

- i) Attend site to test and validate imported materials comprising the upper 500mm of imported topsoils validated site derived material, to inspect the thickness and compliance with the URS validation limits and to ensure the “no-dig” layer has been incorporated.

3.0 SOIL TESTING

3.1 Introduction

Testing of soils in accordance with the enclosed URS validation suite was undertaken at each of Area 1, Plots 22 to 25, 27 to 29 and 36, to determine the soil chemistry values of the imported topsoil and sub-soil. The materials tested in this Phase 2, correspond with the following URS diagram, being the upper 500mm of “Imported Topsoil and Imported sub-soil”, as approved by NPT in the URS validation report.



Testing was undertaken at a UKAS accredited laboratory. The results are appended to this report, together with an assessment of those values related to the approved URS validation suite.

Parameter	All remaining soils, excavated surplus soils and imported material ¹ (mg/kg) Residential	Excavated treated granular material (mg/kg)
Asbestos (sum of all types)	200	200
Arsenic ²	64	The quality of the material was not be affected by its treatment, other than as regards the asbestos content. Testing of this material for parameters other than asbestos had previously been undertaken.
Cadmium	3.6	
Chromium	130	
Mercury ²	1	
Nickel ²	50	
Selenium	3	
Lead ²	337	
Vanadium	416	
Copper ²	478	
Zinc ³	3280	
Benzene	0.12	
Ethylbenzene	37	
Toluene	36	
Xylene	32	
Benzo(a)pyrene ^{2,4}	0.9	
1,2-Dichloroethane	0.04	
Dichloromethane	5	
Tetrachloroethene	11	
Trichloroethene	1	
Vinyl Chloride	0.01	

Parameter	All remaining soils, excavated surplus soils and imported material ¹ (mg/kg) Residential	Excavated treated granular material (mg/kg)
1,2-Dichloroethene	4	
1,1,1-Trichloroethane	154	
TPH	1,717	

Table 3: URS Soil Validation Limits

Site testing was undertaken on 13 March 2026, and comprised hand dug trial pits to 600mm, or rockhead. All locations noted Made Ground, with no hydrocarbon odours.

4.0 CONCLUSIONS

All test results were in accordance with the limits set out by URS within Table 3.

In general, the plots have a clean cover system, over a no dig barrier to a total in excess of 500mm, and are thus compliant.

APPENDIX A

Drawings

Site Boundary



Phase 3 of the development is a residential development consisting of 100 residential units and 100 parking spaces. The development is located on the site of the former industrial site. The development is a residential development consisting of 100 residential units and 100 parking spaces. The development is located on the site of the former industrial site. The development is a residential development consisting of 100 residential units and 100 parking spaces. The development is located on the site of the former industrial site.

Key Ledger

- Electric Meter Box
- EV Charging
- BT
- SVP
- RWP
- ASHP
- PV Panel
- Tool/Bike Store
- Bin Store
- Rotary Clothes Line
- BATTERY



R.L. Architects Ltd.
10000 4th Ave
10000 4th Ave
10000 4th Ave
10000 4th Ave

Project Name
Residential Development
Coed Dancy Phase 2 (Plot 1)

Client Name



Drawing Title
Site Plan

Scale	Project No.
1/100 @ A1	9856
Status	Purpose Of Issue
C1	Issued for Construction
Drawn	By
1/15/11	RL
22	50
0920	002

APPENDIX B

Soil Validation

Pit Logs

Comparison with URS Validation Limits

Plates

Trial Pit/Trench Description

Project		Coed Darcy		Project No		25061	
Described by		PL		Trial Pit No		Plot 23	
Date		20.05.2026		Sheet No		1 of 1	
Face Sketch (Indicate stratum boundaries, codes and Face(s) sketched, use additional sheets as required)							
Samples and Tests			Strata				
Depth, m	Type & No	Results	Depth, m	Code	Description		
0.10 - 0.20	ES		GL - 0.20	1	MADE GROUND: Grey and black silty SAND AND GRAVEL. Sand is fine to coarse. Gravel is angular fine to medium of limestone. Fill.		
0.30 - 0.50	ES						
			0.20 - 0.50	2	MADE GROUND: Brown and grey slightly sandy clayey subangular to subrounded fine to coarse GRAVEL of sandstone with low cobble content of subangular to subrounded sandstone.		
					Possible bedrock at 0.50mbgl		
Groundwater Observations				Strike of Face A		deg	
None				Length of Face A		0.4 m	
				Width of Face B		0.4 m	
Method/plant				Hand tools		A B C D	
Stability				Stable			
Shoring				None			
Weather				Dry			
Sample Type:				Logger's Signature			
U Undisturbed, P Piston, D Disturbed, B Bulk, W Water				PL			
ES Environmental Soil Sample							
EW Environmental Water Sample							

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 26/07090
Issue Number: 1

Date: 22 June, 2026

Client: Spectrum Geo Services
Foxglove Cottage
Cwm Risca Lane
Tondu
Wales
CF32 0EH

Project Manager: Rob Griffiths
Project Name: Coed Darcy
Project Ref: 25061
Order No: 25061/01
Date Samples Received: 08/06/26
Date Instructions Received: 09/06/26
Date Analysis Completed: 22/06/26

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 26/07090

Client Project Name: Coed Darcy

Client Project Ref: 25061

Lab Sample ID	26/07090/1	26/07090/2	26/07090/3	26/07090/4	26/07090/5	26/07090/6	26/07090/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	22	23	23	24	24	27	28			
Depth to Top	0.20	0.10	0.30	0.10	0.20	0.60	0.10			
Depth To Bottom	0.50	0.20	0.50	0.20	0.40	0.80	0.20			
Date Sampled	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4AE	5AE	5AE	4AE	4AE	4AE			
% Stones >10mm _A	8.3	<0.1	6.2	<0.1	35.4	20.4	<0.1	% w/w	0.1	A-T-044
Arsenic _D ^{M#}	4	5	21	32	8	6	4	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	mg/kg	1	A-T-024s
Copper _D ^{M#}	17	21	5610	112	30	25	17	mg/kg	1	A-T-024s
Chromium _D ^{M#}	11	13	12	30	17	18	13	mg/kg	1	A-T-024s
Lead _D ^{M#}	18	22	52	215	50	29	17	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	22	26	32	26	14	19	25	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Vanadium _D ^{M#}	9	11	14	31	12	14	10	mg/kg	1	A-T-024s
Zinc _D ^{M#}	73	88	271	487	116	88	85	mg/kg	1	A-T-024s
Benzo(a)pyrene _A ^{M#}	<0.04	0.22	0.45	1.90	0.21	0.11	<0.04	mg/kg	0.04	A-T-019s
Vinyl Chloride (Chloroethene) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/kg	5	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s

Envirolab Job Number: 26/07090

Client Project Name: Coed Darcy

Client Project Ref: 25061

Lab Sample ID	26/07090/1	26/07090/2	26/07090/3	26/07090/4	26/07090/5	26/07090/6	26/07090/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	22	23	23	24	24	27	28			
Depth to Top	0.20	0.10	0.30	0.10	0.20	0.60	0.10			
Depth To Bottom	0.50	0.20	0.50	0.20	0.40	0.80	0.20			
Date Sampled	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4AE	5AE	5AE	4AE	4AE	4AE			
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 26/07090

Client Project Name: Coed Darcy

Client Project Ref: 25061

Lab Sample ID	26/07090/1	26/07090/2	26/07090/3	26/07090/4	26/07090/5	26/07090/6	26/07090/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	22	23	23	24	24	27	28			
Depth to Top	0.20	0.10	0.30	0.10	0.20	0.60	0.10			
Depth To Bottom	0.50	0.20	0.50	0.20	0.40	0.80	0.20			
Date Sampled	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4AE	5AE	5AE	4AE	4AE	4AE			
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	2	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	2	2	<1	3	<1	8	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	10	16	7	18	6	45	11	mg/kg	1	A-T-055s
Total Aliphatics _A	12	18	7	21	6	55	11	mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	2	<1	3	<1	3	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	2	7	2	10	3	11	2	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	5	21	13	51	12	26	8	mg/kg	1	A-T-055s
Total Aromatics _A	8	31	16	64	16	40	11	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	20	49	22	85	22	94	21	mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 26/07090

Client Project Name: Coed Darcy

Client Project Ref: 25061

Lab Sample ID	26/07090/8	26/07090/9	26/07090/10	26/07090/11	26/07090/12	26/07090/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	28	29	36	36	25	28				
Depth to Top	0.50	0.10	0.10	0.50	0.10	0.40				
Depth To Bottom	0.65	0.20	0.20	0.60	0.20	0.80				
Date Sampled	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5AE	4AE	4AE	4AE	4AE	4AE				
% Stones >10mm _A	<0.1	<0.1	3.3	20.8	5.8	5.5		% w/w	0.1	A-T-044
Arsenic _D ^{M#}	8	4	3	4	9	4		mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-024s
Copper _D ^{M#}	27	18	14	16	63	17		mg/kg	1	A-T-024s
Chromium _D ^{M#}	15	13	11	12	25	12		mg/kg	1	A-T-024s
Lead _D ^{M#}	28	17	15	20	54	17		mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	22	25	24	19	21	24		mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Vanadium _D ^{M#}	15	11	9	11	14	9		mg/kg	1	A-T-024s
Zinc _D ^{M#}	97	82	65	62	242	72		mg/kg	1	A-T-024s
Benzo(a)pyrene _A ^{M#}	0.78	<0.04	<0.04	0.06	0.13	<0.04		mg/kg	0.04	A-T-019s
Vinyl Chloride (Chloroethene) _A [#]	<1	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s
Dichloromethane _A	<5	<5	<5	<5	<5	<5		µg/kg	5	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2		µg/kg	2	A-T-006s
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/kg	1	A-T-006s

Envirolab Job Number: 26/07090

Client Project Name: Coed Darcy

Client Project Ref: 25061

Lab Sample ID	26/07090/8	26/07090/9	26/07090/10	26/07090/11	26/07090/12	26/07090/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	28	29	36	36	25	28				
Depth to Top	0.50	0.10	0.10	0.50	0.10	0.40				
Depth To Bottom	0.65	0.20	0.20	0.60	0.20	0.80				
Date Sampled	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5AE	4AE	4AE	4AE	4AE	4AE				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 26/07090

Client Project Name: Coed Darcy

Client Project Ref: 25061

Lab Sample ID	26/07090/8	26/07090/9	26/07090/10	26/07090/11	26/07090/12	26/07090/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	28	29	36	36	25	28				
Depth to Top	0.50	0.10	0.10	0.50	0.10	0.40				
Depth To Bottom	0.65	0.20	0.20	0.60	0.20	0.80				
Date Sampled	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26	04-Jun-26				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5AE	4AE	4AE	4AE	4AE	4AE				
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	2	<1	1	<1		mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	8	10	18	9	12	7		mg/kg	1	A-T-055s
Total Aliphatics _A	8	10	20	11	13	7		mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	2	2	5	2	3	1		mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	9	7	11	7	10	4		mg/kg	1	A-T-055s
Total Aromatics _A	12	10	17	10	13	6		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	20	19	37	20	27	12		mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
Subscript “@”	Result is an opinion
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
 Stones etc. are not removed from the sample prior to analysis
 “Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
 Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
 Tel. 0161 368 4921
 email. ask@envirolab.co.uk

Client: Spectrum Geo Services, Foxglove Cottage, Cwm Risca Lane, Tondur, Wales, **Project No:** 26/07090
 CF32 0EH **Date Received:** 09/06/2026 (am)
Project: Coed Darcy **Cool Box Temperatures (°C):** 12.5-12.8
Clients Project No: 25061

Lab Sample ID	26/07090/1	26/07090/2	26/07090/3	26/07090/4	26/07090/5	26/07090/6	26/07090/7	26/07090/8	26/07090/9	26/07090/10	26/07090/11	26/07090/12
Client Sample No												
Client Sample ID/Depth	22 0.20-0.50m	23 0.10-0.20m	23 0.30-0.50m	24 0.10-0.20m	24 0.20-0.40m	27 0.60-0.80m	28 0.10-0.20m	28 0.50-0.65m	29 0.10-0.20m	36 0.10-0.20m	36 0.50-0.60m	25 0.10-0.20m
Date Sampled	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26
Deviation Code												
B1 (no VPH)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
B2 (no VOC)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
C (Headspace for Volatile)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
D (no glass)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Sample ID	26/07090/13
Client Sample No	
Client Sample ID/Depth	28 0.40-0.80m
Date Sampled	04/06/26
Deviation Code	
B1 (no VPH)	✓
B2 (no VOC)	✓
C (Headspace for Volatile)	✓
D (no glass)	✓

Key

- B1 (no VPH) Separate container not supplied for VPH/BTEX analysis
- B2 (no VOC) Separate container not supplied for VOC analysis
- C (Headspace for Volatile) Headspace included in volatiles container which may affect volatile organic analytes eg: VPH, VOC, Oxygenates, Gases, Alcohols or VFA
- D (no glass) Glass container not provided for extractable organics analysis

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3,

ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	26/07090/1	26/07090/2	26/07090/3	26/07090/4	26/07090/5	26/07090/6	26/07090/7	26/07090/8	26/07090/9	26/07090/10	26/07090/11	26/07090/12
Client Sample No												
Client Sample ID/Depth	22 0.20-0.50m	23 0.10-0.20m	23 0.30-0.50m	24 0.10-0.20m	24 0.20-0.40m	27 0.60-0.80m	28 0.10-0.20m	28 0.50-0.65m	29 0.10-0.20m	36 0.10-0.20m	36 0.50-0.60m	25 0.10-0.20m
Date Sampled	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26	04/06/26
A-T-006s	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026	19/06/2026
A-T-019s	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026
A-T-022s	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026	12/06/2026
A-T-024s	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026
A-T-044	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026	22/06/2026
A-T-045	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026
A-T-055s	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026
Calc-As Recd	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026	16/06/2026

Lab Sample ID	26/07090/13
Client Sample No	
Client Sample ID/Depth	28 0.40-0.80m
Date Sampled	04/06/26
A-T-006s	19/06/2026
A-T-019s	12/06/2026
A-T-022s	19/06/2026
A-T-024s	22/06/2026
A-T-044	22/06/2026
A-T-045	11/06/2026
A-T-055s	16/06/2026
Calc-As Recd	19/06/2026

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

[illegible]



20/5/26

COED DARCY
25061
PLOT 22
G1 000-50

PROJECT
PROJECT NO
TP
DEPTH (M)
FACE





20/5/26

PROJECT
PROJECT NO
TP
DEPTH (M)
FACE

COED DARCY

25061

PLOT 23

GL 0-50









2015/26

PROJECT
PROJECT NO
TP
DEPTH (M)
FACE

COED DARCY

25061

PLOT 29

GL 0.60



