

**Project Number: 25110354**

Client: Earthworks Testing Ltd
Date Issued: 21/11/2025
Project Name: C1583 - Dove Valley Park

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
25110354-001	C1583/214-Trial Hole 5A	28/10/2025 00:00:00	SOLID	Silt Sample
25110354-002	C1583/215-Trial Hole 5B	28/10/2025 00:00:00	SOLID	Silt Sample
25110354-003	C1583/216-Trial Hole 5C	28/10/2025 00:00:00	SOLID	Silt Sample
25110354-004	C1583/217-Trial Hole 5D	28/10/2025 00:00:00	SOLID	Silt Sample
25110354-005	C1583/218-Trial Hole 5E	28/10/2025 00:00:00	SOLID	Silt Sample
25110354-006	C1583/219-Trial Hole 5F	28/10/2025 00:00:00	SOLID	Silt Sample

Analysis Results

		SOCOTEC Sample ID:		25110354-001	25110354-002	25110354-003	25110354-004	25110354-005
		Sampling Date:		28/10/2025 00:00	28/10/2025 00:00	28/10/2025 00:00	28/10/2025 00:00	28/10/2025 00:00
		Customer ID:		C1583/214-Trial	C1583/215-Trial	C1583/216-Trial	C1583/217-Trial	C1583/218-Trial
Method Code	Analysis	MDL	Accred.	Hole 5A	Hole 5B	Hole 5C	Hole 5D	Hole 5E
CLANDPREP	Total Moisture at 35°C	0.1 %	N	27.2	24.8	27.5	24.6	24.1
	Major Constituents	-	N	SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous
	Miscellaneous Constituents	-	N	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous
	Colour of Material	-	N	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
SUB035	Asbestos Identification	-	N	CH	NAIIS	NAIIS	NAIIS	NAIIS
SUB035	Asbestos Stage 2	0.001 %	N	0.1607				
AAR	Alkali/Acid Reserve	0.1 g/100g NaOH	N ^A	<0.1	<0.1	<0.1	<0.1	<0.1
SFAPI	Free Cyanide	0.5 mg/kg	M ^A	<0.7	<0.7	<0.7	<0.7	<0.7
SFAPI	Phenol Index	0.5 mg/kg	U ^A	1.0	<0.7	<0.7	<0.7	<0.7
ICPMSS	Arsenic as As	0.3 mg/kg	M ^A	36.5	41.9	28.4	27.3	25.4
ICPSOIL	Beryllium as Be	0.1 mg/kg	U ^A	2.13	1.48	1.09	1.53	1.74
ICPMSS	Cadmium as Cd	0.2 mg/kg	M ^A	3.3	14.0	2.5	2.1	3.2
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M ^A	118.0	99.4	174.7	87.9	96.5
CALC_CR3	Chromium (III)	1.2 mg/kg	N ^A	118	99.4	175	87.9	96.5
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N ^A	<0.1	<0.1	<0.1	<0.1	<0.1
ICPMSS	Copper as Cu	1.6 mg/kg	M ^A	976.7	467.8	244.8	227.4	408.3
ICPMSS	Lead as Pb	0.7 mg/kg	M ^A	906.6	1289	1512	1279	3155
ICPMSS	Mercury as Hg	0.5 mg/kg	M ^A	<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M ^A	<20.0	<20.0	78.1	71.2	75.3
ICPMSS	Selenium as Se	0.5 mg/kg	M ^A	0.9	1.0	0.7	1.0	1.1
ICPMSS	Vanadium as V	0.6 mg/kg	N ^A	44.5	41.0	42.0	42.0	44.3
ICPMSS	Zinc as Zn	16 mg/kg	M ^A	1029	769.7	763.5	626.0	775.8
ICPBOR	Boron as B	0.5 mg/kg	M ^A	4.1	1.2	4.2	1.5	4.1
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M ^A	1.66	1.37	1.50	0.593	0.740
TPHCALC	>C6-C40 (with >C10-C40 SCU) (HS+EH_CU_1D_Total)	10.2 mg/kg	N ^A	2930	1920	4400	2620	1320
TPHFIDUS (SCU)	>C10-C12 (SCU) (EH_CU_1D_Total)	4 mg/kg	N ^A	200	99.4	331	163	49.2
	>C10-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N ^A	2930	1920	4400	2620	1320
	>C12-C16 (SCU) (EH_CU_1D_Total)	4 mg/kg	N ^A	134	90.9	171	129	73.0
	>C16-C21 (SCU) (EH_CU_1D_Total)	4 mg/kg	N ^A	396	249	502	321	182
	>C21-C35 (SCU) (EH_CU_1D_Total)	10 mg/kg	N ^A	2020	1350	3030	1830	926
PAHMSUS	Acenaphthene	0.08 mg/kg	M ^A	3.06	0.56	1.41	1.33	1.12
	Acenaphthylene	0.08 mg/kg	U ^A	0.25	<0.11	0.12	0.12	0.11
	Anthracene	0.08 mg/kg	U ^A	3.55	1.03	2.24	2.25	2.80
	Benzo[a]anthracene	0.08 mg/kg	M ^A	3.95	2.00	3.66	3.32	4.49
	Benzo[a]pyrene	0.08 mg/kg	M ^A	3.66	1.90	3.43	3.21	3.93
	Benzo[b]fluoranthene	0.08 mg/kg	M ^A	4.38	2.46	4.46	4.13	4.84
	Benzo[g,h,i]perylene	0.08 mg/kg	M ^A	1.91	1.06	1.91	1.80	2.05
	Benzo[k]fluoranthene	0.08 mg/kg	M ^A	1.76	1.00	1.72	1.64	1.96
	Chrysene	0.08 mg/kg	M ^A	3.52	1.86	3.30	2.97	3.96
	Dibenzo[a,h]anthracene	0.08 mg/kg	M ^A	0.49	0.28	0.48	0.46	0.51
	Fluoranthene	0.08 mg/kg	M ^A	11.5	5.41	10.6	8.92	12.6
	Fluorene	0.08 mg/kg	M ^A	3.01	0.47	1.32	1.19	0.99
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M ^A	2.10	1.15	2.10	1.92	2.17
	Naphthalene	0.08 mg/kg	M ^A	5.38	0.31	0.57	0.65	0.37
	Phenanthrene	0.08 mg/kg	M ^A	12.7	2.89	7.65	6.30	7.61
	Pyrene	0.08 mg/kg	M ^A	9.45	4.60	8.76	7.37	10.3
	Total PAH 16	1.28 mg/kg	U ^A	70.7	27.1	53.8	47.6	59.8
SUB026	Interpretive Report (Solids)	-	N	See Attached	See Attached	See Attached	See Attached	See Attached

Analysis Results

SOCOTEC Sample ID: 25110354-006

Sampling Date: 28/10/2025 00:00

Customer ID: C1583/219-Trial

Method Code	Analysis	MDL	Accred.	Hole 5F
CLANDPREP	Total Moisture at 35°C	0.1 %	N	23.6
	Major Constituents	-	N	SILT
	Minor Constituents	-	N	Miscellaneous
	Miscellaneous Constituents	-	N	Miscellaneous
	Colour of Material	-	N	Dark Brown
SUB035	Asbestos Identification	-	N	NAIIS
AAR	Alkali/Acid Reserve	0.1 g/100g NaOH	N^	<0.1
SFAPI	Free Cyanide	0.5 mg/kg	M^	<0.7
SFAPI	Phenol Index	0.5 mg/kg	U^	<0.7
ICPMSS	Arsenic as As	0.3 mg/kg	M^	23.2
ICPSOIL	Beryllium as Be	0.1 mg/kg	U^	1.70
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^	2.3
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^	84.7
CALC_CR3	Chromium (III)	1.2 mg/kg	N^	84.7
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^	<0.1
ICPMSS	Copper as Cu	1.6 mg/kg	M^	186.2
ICPMSS	Lead as Pb	0.7 mg/kg	M^	670.6
ICPMSS	Mercury as Hg	0.5 mg/kg	M^	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^	60.7
ICPMSS	Selenium as Se	0.5 mg/kg	M^	0.7
ICPMSS	Vanadium as V	0.6 mg/kg	N^	46.8
ICPMSS	Zinc as Zn	16 mg/kg	M^	585.2
ICPBOR	Boron as B	0.5 mg/kg	M^	2.9
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^	0.935
TPHCALC	>C6-C40 (with >C10-C40 SCU) (HS+EH_CU_1D_Total)	10.2 mg/kg	N^	1510
TPHFIDUS (SCU)	>C10-C12 (SCU) (EH_CU_1D_Total)	4 mg/kg	N^	50.1
	>C10-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^	1510
	>C12-C16 (SCU) (EH_CU_1D_Total)	4 mg/kg	N^	117
	>C16-C21 (SCU) (EH_CU_1D_Total)	4 mg/kg	N^	214
	>C21-C35 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^	1030
PAHMSUS	Acenaphthene	0.08 mg/kg	M^	1.14
	Acenaphthylene	0.08 mg/kg	U^	<0.11
	Anthracene	0.08 mg/kg	U^	2.40
	Benzo[a]anthracene	0.08 mg/kg	M^	3.48
	Benzo[a]pyrene	0.08 mg/kg	M^	3.14
	Benzo[b]fluoranthene	0.08 mg/kg	M^	3.91
	Benzo[g,h,i]perylene	0.08 mg/kg	M^	1.71
	Benzo[k]fluoranthene	0.08 mg/kg	M^	1.55
	Chrysene	0.08 mg/kg	M^	2.98
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^	0.42
	Fluoranthene	0.08 mg/kg	M^	10.1
	Fluorene	0.08 mg/kg	M^	1.11
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^	1.81
	Naphthalene	0.08 mg/kg	M^	0.64
	Phenanthrene	0.08 mg/kg	M^	6.76
	Pyrene	0.08 mg/kg	M^	8.28
	Total PAH 16	1.28 mg/kg	U^	49.6
SUB026	Interpretive Report (Solids)	-	N	See Attached



The Testing Lab PLC
James Road, Adwick le Street
Doncaster, DN6 7HH
TEL: 08001 777 264

E-mail: info@thetestinglab.eu Web: www.thetestinglab.eu



CERTIFICATE OF ANALYSIS OF ASBESTOS IN SOILS

JOB NO: 146702/1/1

CLIENT DETAILS:

Client: SOCOTEC UK LIMITED For the attention of: SOCOTEC Purchasing
Client Address: Socotec House, Bretby Business Park, Ashby Road, Burton-upon-Trent, DE15 0YZ
Site Address: Socotec

SAMPLE DETAILS:

TTL Reference: J331484-25110354 Del 06-11-25-S No. Samples Reported: 6
Date of Sample Receipt: 6 Nov 2025 Date of Analysis: 12 Nov 2025, 7 Nov 2025
Sample Taken By: Client

LABORATORY RESULTS:

Aslab ID	Client Sample Reference	Qualitative	Quantitative %	Soil Matrix
146702/01	25110354-001	FREE FIBRES CHRYSTILE	0.1607	Soil
146702/02	25110354-002	NAD	-	Soil
146702/03	25110354-003	NAD	-	Soil
146702/04	25110354-004	NAD	-	Soil
146702/05	25110354-005	NAD	-	Soil
146702/06	25110354-006	NAD	-	Soil

Key: NAD - No Asbestos Detected in this sample

Method: Samples of materials, referenced as shown above, have been analysed qualitatively and or quantitatively subject to Customer requirements to determine the presence of asbestos fibres. Fibres in the sample were identified using a stereo microscope, polarised light and dispersion staining in accordance with in-house Procedure MQP118 based on Appendix 2 of HSG 248 'Asbestos: The analyst's guide'.
Disclaimer: Opinions and interpretations, including the description of material type, are outside the scope of our UKAS accreditation. Results apply only to the sample(s) listed in the table above. No responsibility is accepted for errors which may have arisen during sampling or transportation and responsibility cannot be taken for the accuracy, representative nature and location of samples taken by external customers. This test report shall not be reproduced except in full without our prior written approval. Records shall be held securely and electronically for a minimum of 6 years and samples retained for a minimum of 6 months.

Analyst(s): ELLIE WILLIAMS

Analyst Signature(s):

Analyst(s): CONNOR BAXTER

Analyst Signature(s):

Approved by: (Approval should be from Laboratory Manager or other authorised personnel)

Name: ALISA EGLITE

Position: LAB ANALYST

Authorised Signature:

Report Issue Date: 12 November 2025

Page 1 of 1

MQF3206 ISSUE NO.03 Issue Date: 04/2023

Ref: LO/NOR5001-221/001/RP Rev00

21 November 2025

Earthworks Testing Ltd
Unit 6 Eco Business Park
Eco Way
Dunscroft
Doncaster
DN7 4JJ



SOCOTEC

SOCOTEC UK Ltd
SOOCOTEC Central
Leofric Business Park
Progress Close
Coventry
CV3 2TF

Tel: +44 (0)2475 310700

For the attention of Helen Slinn

EARTHWORKS TESTING LTD, DOVE VALLEY PARK – (B001) LABORATORY ANALYSIS AND INDICATIVE WASTE CLASSIFICATION

Six soil samples were collected by Earthworks Testing Ltd and submitted to SOCOTEC UK Ltd for laboratory analysis and indicative waste classification. The samples were described by the SOCOTEC laboratory as comprising '*dark brown SILT with miscellaneous inclusions*'. The analytical results included in the laboratory report 25110354 Version 01 (Interim), as provided by the SOCOTEC laboratory on 19 November 2025, have been used for the current assessment.

The HazWasteOnline toolkit was used to undertake a Hazard Assessment Screen, to establish whether the soils represented by individual samples should be considered as either hazardous or non-hazardous waste. This classification process is in accordance with technical guidance document WM3, Guidance on the classification and assessment of waste (V1.2 GB 2021), published jointly by Natural Resources Wales, the Scottish Environment Protection Agency, the Environment Agency and the Northern Ireland Environment Agency. However, due to the fact that the samples were taken by the client, SOCOTEC cannot confirm whether the principles of representative sampling set out in WM3 have been followed.

Asbestos was detected in the form of chrysotile free fibres in sample 'C1583/214-Trial Hole 5A', at a concentration of 0.1607 % w/w. This concentration is above the hazardous waste threshold of 0.1% w/w, and, therefore, sample 'C1583/214-Trial Hole 5A' is classified as hazardous waste with regards to asbestos.

Asbestos was not detected in any of the other five samples analysed. However, it should be noted that the SOCOTEC Consultancy team, authoring this report, did not collect the samples or inspect the materials and, therefore, cannot confirm if there was any visual evidence of potential asbestos containing material within the wider volume of waste soils that was not sampled. Based on the laboratory analysis only, the samples 'C1583/215-Trial Hole 5B', 'C1583/216-Trial Hole 5C', 'C1583/217-Trial Hole 5D', 'C1583/218-Trial Hole 5E' and 'C1583/219-Trial Hole 5F' can be classified as non-hazardous waste with regards to asbestos.

The HazWasteOnline output sheet is appended to this letter, and the indicative waste classification of the samples is summarised below. Waste Acceptance Criteria (WAC) testing has not been undertaken at this time.

SOCOTEC UK Limited
Registered Office: SOCOTEC House, Bretby Business Park, Ashby Road, Burton upon Trent, DE15 0YZ

Incorporated in England : 02880501

www.socotec.co.uk

Sample reference	Indicative Waste Classification	List of Waste Code	Landfill type (based on classification assessment)
C1583/214-Trial Hole 5A	Hazardous, chemically and due to asbestos free fibres	17 05 03*	Hazardous WAC testing required before disposal at a hazardous landfill
C1583/215-Trial Hole 5B	Hazardous	17 05 03*	Hazardous WAC testing required before disposal at a hazardous landfill
C1583/216-Trial Hole 5C	Hazardous	17 05 03*	Hazardous WAC testing required before disposal at a hazardous landfill
C1583/217-Trial Hole 5D	Hazardous	17 05 03*	Hazardous WAC testing required before disposal at a hazardous landfill
C1583/218-Trial Hole 5E	Hazardous	17 05 03*	Hazardous WAC testing required before disposal at a hazardous landfill
C1583/219-Trial Hole 5F	Hazardous	17 05 03*	Hazardous WAC testing required before disposal at a hazardous landfill

The following assumptions and limitations apply to this assessment:

- The SOCOTEC Consultancy team (authoring this report) has not sampled or inspected the materials. This indicative waste classification assessment is based on the laboratory analysis results only.
- The List of Waste Code applied to the classification is based on information provided by the client on the nature and origin of the material.
- The number of samples required to adequately characterise waste soils, stones and dredging spoil is dependent on the nature and volume of waste to be disposed of. As the total volume of material to be removed from site is not known by SOCOTEC, the waste classification provided is considered to be indicative only.
- It is not confirmed by SOCOTEC that the samples are representative of the material requiring classification.
- The analysis suite was scheduled by the client with no input from SOCOTEC's Consultancy Team.
- This report provides only a high level assessment. Where the indicative waste classification indicates hazardous waste, it may be possible to reduce this to non-hazardous waste subject to further assessment and/or sampling and analysis. Further assessment may also be possible where there are exceedances of WAC thresholds. We would be happy to discuss options if this is the case.
- Depending on the volume to be removed, the receiving landfill may request that additional samples are collected from the materials to be disposed of and it is ultimately the decision of the waste receiver as to whether they will accept the material.
- All wastes removed from site should be consigned, transported and disposed of in full accordance with all relevant UK legislation. The waste receiver should be provided with a copy of this report, including the appended laboratory results and HazWasteOnline output.

SOCOTEC trust that this report meets your requirements, but please contact us should you require clarification on any of the matters raised.

Yours faithfully

for **SOCOTEC**



Ryan Paul
Environmental Consultant
ryan.paul@socotec.co.uk

Review Record

Issue No	Prepared by	Checked by	Approved by
Rev00	Ryan Paul MSc	Maria Tsamaki BSc(Hons) MSc FGS MIEnvSc	Maria Tsamaki BSc(Hons) MSc FGS MIEnvSc
			

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Whilst every effort has been made to ensure the accuracy of the data supplied and any analysis interpretation derived from it, the possibility exists of variations in the ground and groundwater conditions around and between the exploratory positions. No liability can be accepted for any such variations in these conditions. Furthermore, any recommendations are specific to the development as detailed in this Report and no liability will be accepted should they be used for the design of alternative schemes without prior consultant with SOCOTEC UK Limited.

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.



C00G1-JZH8X-CY93L

Report is invalid if pages are removed.

Job name

NOR5001-221-001 Earthworks Testing Ltd

Description/Comments

Project

NOR5001-221-001

Site

Dove Valley Park

Classified by

Name: **Ryan Paul**
Date: **21 Nov 2025 14:36 GMT**
Telephone: **07483097256**
Company: **SOCOTEC UK Limited**
Leofric Business Park
Progress Close,
Coventry
CV3 2TF

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

N/A

Post Code N/A

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

N/A

Description of the specific process, sub-process and/or activity that created the waste

N/A

Description of the waste

Dark brown SILT with miscellaneous inclusions

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	C1583/214-Trial Hole 5A		Hazardous	HP 7, HP 11, HP 14	3
2	C1583/215-Trial Hole 5B		Hazardous	HP 7, HP 11, HP 14	6
3	C1583/216-Trial Hole 5C		Hazardous	HP 7, HP 11, HP 14	9
4	C1583/217-Trial Hole 5D		Hazardous	HP 7, HP 11, HP 14	12
5	C1583/218-Trial Hole 5E		Hazardous	HP 7, HP 10, HP 11, HP 14	15
6	C1583/219-Trial Hole 5F		Hazardous	HP 7, HP 11	18

Related documents

#	Name	Description
1	1 SOCOTEC Consultancy Generic October 25 + Asbestos	waste stream template used to create this Job

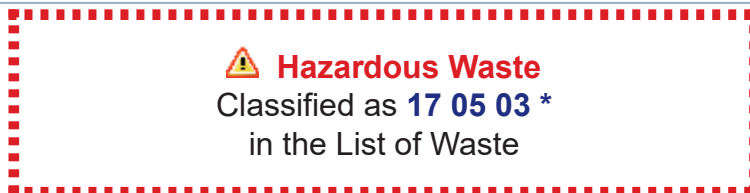
Report

Created by: Ryan Paul

Created date: 21 Nov 2025 14:36 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	21
Appendix B: Rationale for selection of metal species	22
Appendix C: Version	23

Classification of sample: C1583/214-Trial Hole 5A



Sample details

Sample name:	LoW Code:
C1583/214-Trial Hole 5A	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
27.2% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

asbestos (conc.: 0.161%)

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.293%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.293%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

dicopper oxide; copper (I) oxide (compound conc.: 0.11%)

zinc sulphate (compound conc.: 0.254%)

Determinands

Moisture content: **27.2% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	boron { diboron trioxide }				4.1 mg/kg	3.22	13.201 mg/kg	0.00132 %		
	005-008-00-8	215-125-8	1303-86-2							
2	arsenic { arsenic trioxide }				36.5 mg/kg	1.32	48.192 mg/kg	0.00482 %		
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				3.3 mg/kg	1.142	3.77 mg/kg	0.000377 %		
	048-002-00-0	215-146-2	1306-19-0							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
4	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		118	mg/kg	1.462	172.464	mg/kg	0.0172 %		
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	976.7	mg/kg	1.126	1099.655	mg/kg	0.11 %		
6	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	906.6	mg/kg	1.57	1423.267	mg/kg	0.0907 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	<20	mg/kg	2.976	<59.525	mg/kg	<0.00595 %		<LOD
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			0.9	mg/kg	1.405	1.265	mg/kg	0.000126 %		
10	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	1029	mg/kg	2.469	2540.906	mg/kg	0.254 %		
11	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	44.5	mg/kg	1.785	79.441	mg/kg	0.00794 %		
12	beryllium { beryllium chloride }	004-002-00-2	232-116-4	7787-47-5	2.13	mg/kg	8.868	18.889	mg/kg	0.00189 %		
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<LOD
15	phenol	604-001-00-2	203-632-7	108-95-2	1	mg/kg		1	mg/kg	0.0001 %		
16	TPH (C6 to C40) petroleum group			TPH	2930	mg/kg		2930	mg/kg	0.293 %		
17	acenaphthene		201-469-6	83-32-9	3.06	mg/kg		3.06	mg/kg	0.000306 %		
18	acenaphthylene		205-917-1	208-96-8	0.25	mg/kg		0.25	mg/kg	0.000025 %		
19	anthracene		204-371-1	120-12-7	3.55	mg/kg		3.55	mg/kg	0.000355 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	3.95	mg/kg		3.95	mg/kg	0.000395 %		
21	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	3.66	mg/kg		3.66	mg/kg	0.000366 %		
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	4.38	mg/kg		4.38	mg/kg	0.000438 %		
23	benzo[ghi]perylene		205-883-8	191-24-2	1.91	mg/kg		1.91	mg/kg	0.000191 %		
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	1.76	mg/kg		1.76	mg/kg	0.000176 %		
25	chrysene	601-048-00-0	205-923-4	218-01-9	3.52	mg/kg		3.52	mg/kg	0.000352 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.49	mg/kg		0.49	mg/kg	0.000049 %		
27	fluoranthene		205-912-4	206-44-0	11.5	mg/kg		11.5	mg/kg	0.00115 %		
28	fluorene		201-695-5	86-73-7	3.01	mg/kg		3.01	mg/kg	0.000301 %		
29	indeno[123-cd]pyrene		205-893-2	193-39-5	2.1	mg/kg		2.1	mg/kg	0.00021 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
30	naphthalene				5.38 mg/kg		5.38 mg/kg	0.000538 %		
	601-052-00-2	202-049-5	91-20-3							
31	phenanthrene				12.7 mg/kg		12.7 mg/kg	0.00127 %		
		201-581-5	85-01-8							
32	pyrene				9.45 mg/kg		9.45 mg/kg	0.000945 %		
		204-927-3	129-00-0							
33	pH: acid/alkali reserve				<0.1 gNaOH		<0.1 gNaOH	<0.1 gNaOH		<LOD
			ACID_ALK_RES							
34	asbestos				0.161 %		0.161 %	0.161 %		
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.949 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.293%)

Classification of sample: C1583/215-Trial Hole 5B

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
C1583/215-Trial Hole 5B	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
24.8% (no correction)	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.192%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.192%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.129%)

zinc sulphate (compound conc.: 0.19%)

Determinands

Moisture content: **24.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	boron { diboron trioxide }				1.2 mg/kg	3.22	3.864 mg/kg	0.000386 %			
	005-008-00-8	215-125-8	1303-86-2								
2	arsenic { arsenic trioxide }				41.9 mg/kg	1.32	55.322 mg/kg	0.00553 %			
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				14 mg/kg	1.142	15.993 mg/kg	0.0016 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				99.4 mg/kg	1.462	145.279 mg/kg	0.0145 %			
		215-160-9	1308-38-9								
5	copper { dicopper oxide; copper (I) oxide }				467.8 mg/kg	1.126	526.691 mg/kg	0.0527 %			
	029-002-00-X	215-270-7	1317-39-1								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
6	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	1289 mg/kg	1.57	2023.596 mg/kg	0.129 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		<20 mg/kg	2.976	<59.525 mg/kg	<0.00595 %		<LOD
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1 mg/kg	1.405	1.405 mg/kg	0.000141 %		
10	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		769.7 mg/kg	2.469	1900.617 mg/kg	0.19 %		
11	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		41 mg/kg	1.785	73.193 mg/kg	0.00732 %		
12	beryllium { beryllium chloride }	004-002-00-2	232-116-4	7787-47-5		1.48 mg/kg	8.868	13.125 mg/kg	0.00131 %		
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
15	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<LOD
16	TPH (C6 to C40) petroleum group			TPH		1920 mg/kg		1920 mg/kg	0.192 %		
17	acenaphthene		201-469-6	83-32-9		0.56 mg/kg		0.56 mg/kg	0.000056 %		
18	acenaphthylene		205-917-1	208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
19	anthracene		204-371-1	120-12-7		1.03 mg/kg		1.03 mg/kg	0.000103 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2 mg/kg		2 mg/kg	0.0002 %		
21	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.9 mg/kg		1.9 mg/kg	0.00019 %		
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.46 mg/kg		2.46 mg/kg	0.000246 %		
23	benzo[ghi]perylene		205-883-8	191-24-2		1.06 mg/kg		1.06 mg/kg	0.000106 %		
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1 mg/kg		1 mg/kg	0.0001 %		
25	chrysene	601-048-00-0	205-923-4	218-01-9		1.86 mg/kg		1.86 mg/kg	0.000186 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.28 mg/kg		0.28 mg/kg	0.000028 %		
27	fluoranthene		205-912-4	206-44-0		5.41 mg/kg		5.41 mg/kg	0.000541 %		
28	fluorene		201-695-5	86-73-7		0.47 mg/kg		0.47 mg/kg	0.000047 %		
29	indeno[123-cd]pyrene		205-893-2	193-39-5		1.15 mg/kg		1.15 mg/kg	0.000115 %		
30	naphthalene	601-052-00-2	202-049-5	91-20-3		0.31 mg/kg		0.31 mg/kg	0.000031 %		
31	phenanthrene		201-581-5	85-01-8		2.89 mg/kg		2.89 mg/kg	0.000289 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
32	pyrene	204-927-3	129-00-0		4.6 mg/kg		4.6 mg/kg	0.00046 %		
33	pH: acid/alkali reserve		ACID_ALK_RES		<0.1 gNaOH		<0.1 gNaOH	<0.1 gNaOH		<LOD
34	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		< %		< %	<		<LOD
Total:								0.597 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

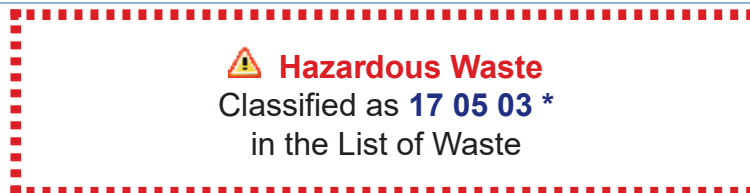
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.192%)

Classification of sample: C1583/216-Trial Hole 5C



Sample details

Sample name:	LoW Code:
C1583/216-Trial Hole 5C	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
27.5%	Entry:
(no correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.44%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.44%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.151%)

zinc sulphate (compound conc.: 0.189%)

Determinands

Moisture content: **27.5% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	 boron { diboron trioxide }				4.2	mg/kg	3.22	13.523	mg/kg	0.00135 %		
	005-008-00-8	215-125-8	1303-86-2									
2	 arsenic { arsenic trioxide }				28.4	mg/kg	1.32	37.497	mg/kg	0.00375 %		
	033-003-00-0	215-481-4	1327-53-3									
3	 cadmium { cadmium oxide }				2.5	mg/kg	1.142	2.856	mg/kg	0.000286 %		
	048-002-00-0	215-146-2	1306-19-0									
4	 chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				174.7	mg/kg	1.462	255.334	mg/kg	0.0255 %		
		215-160-9	1308-38-9									
5	 copper { dicopper oxide; copper (I) oxide }				244.8	mg/kg	1.126	275.617	mg/kg	0.0276 %		
	029-002-00-X	215-270-7	1317-39-1									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
6	lead {  lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	1512 mg/kg	1.57	2373.682 mg/kg	0.151 %			
7	mercury {  mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
8	nickel {  nickel chromate }	028-035-00-7	238-766-5	14721-18-7		78.1 mg/kg	2.976	232.446 mg/kg	0.0232 %			
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7 mg/kg	1.405	0.983 mg/kg	0.0000983 %			
10	zinc {  zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		763.5 mg/kg	2.469	1885.308 mg/kg	0.189 %			
11	vanadium {  divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		42 mg/kg	1.785	74.978 mg/kg	0.0075 %			
12	beryllium {  beryllium chloride }	004-002-00-2	232-116-4	7787-47-5		1.09 mg/kg	8.868	9.666 mg/kg	0.000967 %			
13	chromium in Cr(VI) compounds {  chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
14	cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %			<LOD
15	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %			<LOD
16	TPH (C6 to C40) petroleum group			TPH		4400 mg/kg		4400 mg/kg	0.44 %			
17	acenaphthene		201-469-6	83-32-9		1.41 mg/kg		1.41 mg/kg	0.000141 %			
18	acenaphthylene		205-917-1	208-96-8		0.12 mg/kg		0.12 mg/kg	0.000012 %			
19	anthracene		204-371-1	120-12-7		2.24 mg/kg		2.24 mg/kg	0.000224 %			
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.66 mg/kg		3.66 mg/kg	0.000366 %			
21	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3.43 mg/kg		3.43 mg/kg	0.000343 %			
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		4.46 mg/kg		4.46 mg/kg	0.000446 %			
23	benzo[ghi]perylene		205-883-8	191-24-2		1.91 mg/kg		1.91 mg/kg	0.000191 %			
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.72 mg/kg		1.72 mg/kg	0.000172 %			
25	chrysene	601-048-00-0	205-923-4	218-01-9		3.3 mg/kg		3.3 mg/kg	0.00033 %			
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.48 mg/kg		0.48 mg/kg	0.000048 %			
27	fluoranthene		205-912-4	206-44-0		10.6 mg/kg		10.6 mg/kg	0.00106 %			
28	fluorene		201-695-5	86-73-7		1.32 mg/kg		1.32 mg/kg	0.000132 %			
29	indeno[123-cd]pyrene		205-893-2	193-39-5		2.1 mg/kg		2.1 mg/kg	0.00021 %			
30	naphthalene	601-052-00-2	202-049-5	91-20-3		0.57 mg/kg		0.57 mg/kg	0.000057 %			
31	phenanthrene		201-581-5	85-01-8		7.65 mg/kg		7.65 mg/kg	0.000765 %			

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
32	pyrene	204-927-3	129-00-0		8.76 mg/kg		8.76 mg/kg	0.000876 %		
33	pH: acid/alkali reserve		ACID_ALK_RES		<0.1 gNaOH		<0.1 gNaOH	<0.1 gNaOH		<LOD
34	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		< %		< %	<		<LOD
Total:								0.875 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.44%)

Classification of sample: C1583/217-Trial Hole 5D

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
C1583/217-Trial Hole 5D	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
24.6% (no correction)		

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.262%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.262%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.128%)

zinc sulphate (compound conc.: 0.155%)

Determinands

Moisture content: **24.6% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	boron { diboron trioxide }				1.5 mg/kg	3.22	4.83 mg/kg		0.000483 %		
	005-008-00-8	215-125-8	1303-86-2								
2	arsenic { arsenic trioxide }				27.3 mg/kg	1.32	36.045 mg/kg		0.0036 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				2.1 mg/kg	1.142	2.399 mg/kg		0.00024 %		
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				87.9 mg/kg	1.462	128.471 mg/kg		0.0128 %		
		215-160-9	1308-38-9								
5	copper { dicopper oxide; copper (I) oxide }				227.4 mg/kg	1.126	256.027 mg/kg		0.0256 %		
	029-002-00-X	215-270-7	1317-39-1								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
6	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	1279 mg/kg	1.57	2007.897 mg/kg	0.128 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		71.2 mg/kg	2.976	211.91 mg/kg	0.0212 %		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1 mg/kg	1.405	1.405 mg/kg	0.000141 %		
10	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		626 mg/kg	2.469	1545.78 mg/kg	0.155 %		
11	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		42 mg/kg	1.785	74.978 mg/kg	0.0075 %		
12	beryllium { beryllium chloride }	004-002-00-2	232-116-4	7787-47-5		1.53 mg/kg	8.868	13.568 mg/kg	0.00136 %		
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %		<LOD
15	phenol	604-001-00-2	203-632-7	108-95-2		<0.7 mg/kg		<0.7 mg/kg	<0.00007 %		<LOD
16	TPH (C6 to C40) petroleum group			TPH		2620 mg/kg		2620 mg/kg	0.262 %		
17	acenaphthene		201-469-6	83-32-9		1.33 mg/kg		1.33 mg/kg	0.000133 %		
18	acenaphthylene		205-917-1	208-96-8		0.12 mg/kg		0.12 mg/kg	0.000012 %		
19	anthracene		204-371-1	120-12-7		2.25 mg/kg		2.25 mg/kg	0.000225 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.32 mg/kg		3.32 mg/kg	0.000332 %		
21	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3.21 mg/kg		3.21 mg/kg	0.000321 %		
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		4.13 mg/kg		4.13 mg/kg	0.000413 %		
23	benzo[ghi]perylene		205-883-8	191-24-2		1.8 mg/kg		1.8 mg/kg	0.00018 %		
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.64 mg/kg		1.64 mg/kg	0.000164 %		
25	chrysene	601-048-00-0	205-923-4	218-01-9		2.97 mg/kg		2.97 mg/kg	0.000297 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.46 mg/kg		0.46 mg/kg	0.000046 %		
27	fluoranthene		205-912-4	206-44-0		8.92 mg/kg		8.92 mg/kg	0.000892 %		
28	fluorene		201-695-5	86-73-7		1.19 mg/kg		1.19 mg/kg	0.000119 %		
29	indeno[123-cd]pyrene		205-893-2	193-39-5		1.92 mg/kg		1.92 mg/kg	0.000192 %		
30	naphthalene	601-052-00-2	202-049-5	91-20-3		0.65 mg/kg		0.65 mg/kg	0.000065 %		
31	phenanthrene		201-581-5	85-01-8		6.3 mg/kg		6.3 mg/kg	0.00063 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
32	pyrene	204-927-3	129-00-0		7.37 mg/kg		7.37 mg/kg	0.000737 %		
33	pH: acid/alkali reserve		ACID_ALK_RES		<0.1 gNaOH		<0.1 gNaOH	<0.1 gNaOH		<LOD
34	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		< %		< %	<		<LOD
Total:								0.622 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

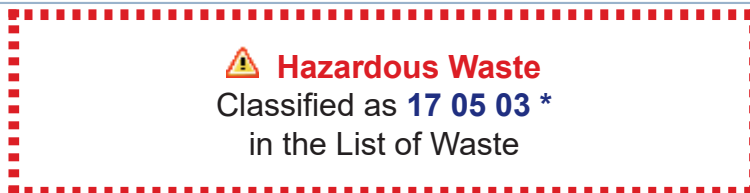
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.262%)

Classification of sample: C1583/218-Trial Hole 5E



Sample details

Sample name:	LoW Code:
C1583/218-Trial Hole 5E	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
24.1%	Entry:
(no correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.132%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 1A; H360Df "May damage the unborn child. Suspected of damaging fertility."

Because of determinand:

lead di(acetate) (Note 1 conc.: 0.316%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.132%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.316%)

zinc sulphate (compound conc.: 0.192%)

Determinands

Moisture content: **24.1%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	boron { diboron trioxide }				4.1 mg/kg	3.22	13.201 mg/kg	0.00132 %		
	005-008-00-8	215-125-8	1303-86-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
2	arsenic { arsenic trioxide }				25.4 mg/kg	1.32	33.536 mg/kg	0.00335 %			
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				3.2 mg/kg	1.142	3.655 mg/kg	0.000366 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				96.5 mg/kg	1.462	141.04 mg/kg	0.0141 %			
		215-160-9	1308-38-9								
5	copper { dicopper oxide; copper (I) oxide }				408.3 mg/kg	1.126	459.7 mg/kg	0.046 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead di(acetate) }			1	3155 mg/kg	1.57	4953.021 mg/kg	0.316 %			
	082-005-00-8	206-104-4	301-04-2								
7	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				75.3 mg/kg	2.976	224.113 mg/kg	0.0224 %			
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.1 mg/kg	1.405	1.546 mg/kg	0.000155 %			
	034-002-00-8										
10	zinc { zinc sulphate }				775.8 mg/kg	2.469	1915.68 mg/kg	0.192 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	vanadium { divanadium pentaoxide; vanadium pentoxide }				44.3 mg/kg	1.785	79.084 mg/kg	0.00791 %			
	023-001-00-8	215-239-8	1314-62-1								
12	beryllium { beryllium chloride }				1.74 mg/kg	8.868	15.43 mg/kg	0.00154 %			
	004-002-00-2	232-116-4	7787-47-5								
13	chromium in Cr(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.7 mg/kg	1.884	<1.319 mg/kg	<0.000132 %			<LOD
	006-007-00-5										
15	phenol				<0.7 mg/kg		<0.7 mg/kg	<0.00007 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
16	TPH (C6 to C40) petroleum group		TPH		1320 mg/kg		1320 mg/kg	0.132 %			
17	acenaphthene				1.12 mg/kg		1.12 mg/kg	0.000112 %			
		201-469-6	83-32-9								
18	acenaphthylene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
		205-917-1	208-96-8								
19	anthracene				2.8 mg/kg		2.8 mg/kg	0.00028 %			
		204-371-1	120-12-7								
20	benzo[a]anthracene				4.49 mg/kg		4.49 mg/kg	0.000449 %			
	601-033-00-9	200-280-6	56-55-3								
21	benzo[a]pyrene; benzo[def]chrysene				3.93 mg/kg		3.93 mg/kg	0.000393 %			
	601-032-00-3	200-028-5	50-32-8								
22	benzo[b]fluoranthene				4.84 mg/kg		4.84 mg/kg	0.000484 %			
	601-034-00-4	205-911-9	205-99-2								
23	benzo[ghi]perylene				2.05 mg/kg		2.05 mg/kg	0.000205 %			
		205-883-8	191-24-2								
24	benzo[k]fluoranthene				1.96 mg/kg		1.96 mg/kg	0.000196 %			
	601-036-00-5	205-916-6	207-08-9								
25	chrysene				3.96 mg/kg		3.96 mg/kg	0.000396 %			
	601-048-00-0	205-923-4	218-01-9								
26	dibenz[a,h]anthracene				0.51 mg/kg		0.51 mg/kg	0.000051 %			
	601-041-00-2	200-181-8	53-70-3								
27	fluoranthene				12.6 mg/kg		12.6 mg/kg	0.00126 %			
		205-912-4	206-44-0								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
28	fluorene	201-695-5	86-73-7		0.99 mg/kg		0.99 mg/kg	0.000099 %		
29	indeno[123-cd]pyrene	205-893-2	193-39-5		2.17 mg/kg		2.17 mg/kg	0.000217 %		
30	naphthalene	202-049-5	91-20-3		0.37 mg/kg		0.37 mg/kg	0.000037 %		
31	phenanthrene	201-581-5	85-01-8		7.61 mg/kg		7.61 mg/kg	0.000761 %		
32	pyrene	204-927-3	129-00-0		10.3 mg/kg		10.3 mg/kg	0.00103 %		
33	pH: acid/alkali reserve		ACID_ALK_RES		<0.1 gNaOH		<0.1 gNaOH	<0.1 gNaOH		<LOD
34	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		< %		< %	<		<LOD
Total:								0.742 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.132%)

Classification of sample: C1583/219-Trial Hole 5F

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
C1583/219-Trial Hole 5F	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
23.6%	Entry:
(no correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.151%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.151%)

Determinands

Moisture content: **23.6% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	boron { diboron trioxide }				2.9 mg/kg	3.22	9.338 mg/kg	0.000934 %		
	005-008-00-8	215-125-8	1303-86-2							
2	arsenic { arsenic trioxide }				23.2 mg/kg	1.32	30.632 mg/kg	0.00306 %		
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				2.3 mg/kg	1.142	2.627 mg/kg	0.000263 %		
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				84.7 mg/kg	1.462	123.794 mg/kg	0.0124 %		
		215-160-9	1308-38-9							
5	copper { dicopper oxide; copper (I) oxide }				186.2 mg/kg	1.126	209.64 mg/kg	0.021 %		
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead di(acetate) }			1	670.6 mg/kg	1.57	1052.772 mg/kg	0.0671 %		
	082-005-00-8	206-104-4	301-04-2							
7	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				60.7 mg/kg	2.976	180.659 mg/kg	0.0181 %		
	028-035-00-7	238-766-5	14721-18-7							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.7	mg/kg	1.405	0.983	mg/kg	0.0000983 %		
	034-002-00-8											
10	zinc { zinc sulphate }				585.2	mg/kg	2.469	1445.032	mg/kg	0.145 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	vanadium { divanadium pentaoxide; vanadium pentoxide }				46.8	mg/kg	1.785	83.547	mg/kg	0.00835 %		
	023-001-00-8	215-239-8	1314-62-1									
12	beryllium { beryllium chloride }				1.7	mg/kg	8.868	15.076	mg/kg	0.00151 %		
	004-002-00-2	232-116-4	7787-47-5									
13	chromium in Cr(VI) compounds { chromium(VI) oxide }				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.7	mg/kg	1.884	<1.319	mg/kg	<0.000132 %		<LOD
	006-007-00-5											
15	phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
16	TPH (C6 to C40) petroleum group				1510	mg/kg		1510	mg/kg	0.151 %		
			TPH									
17	acenaphthene				1.14	mg/kg		1.14	mg/kg	0.000114 %		
		201-469-6	83-32-9									
18	acenaphthylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		205-917-1	208-96-8									
19	anthracene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		204-371-1	120-12-7									
20	benzo[a]anthracene				3.48	mg/kg		3.48	mg/kg	0.000348 %		
	601-033-00-9	200-280-6	56-55-3									
21	benzo[a]pyrene; benzo[def]chrysene				3.14	mg/kg		3.14	mg/kg	0.000314 %		
	601-032-00-3	200-028-5	50-32-8									
22	benzo[b]fluoranthene				3.91	mg/kg		3.91	mg/kg	0.000391 %		
	601-034-00-4	205-911-9	205-99-2									
23	benzo[ghi]perylene				1.71	mg/kg		1.71	mg/kg	0.000171 %		
		205-883-8	191-24-2									
24	benzo[k]fluoranthene				1.55	mg/kg		1.55	mg/kg	0.000155 %		
	601-036-00-5	205-916-6	207-08-9									
25	chrysene				2.98	mg/kg		2.98	mg/kg	0.000298 %		
	601-048-00-0	205-923-4	218-01-9									
26	dibenz[a,h]anthracene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
	601-041-00-2	200-181-8	53-70-3									
27	fluoranthene				10.1	mg/kg		10.1	mg/kg	0.00101 %		
		205-912-4	206-44-0									
28	fluorene				1.11	mg/kg		1.11	mg/kg	0.000111 %		
		201-695-5	86-73-7									
29	indeno[123-cd]pyrene				1.81	mg/kg		1.81	mg/kg	0.000181 %		
		205-893-2	193-39-5									
30	naphthalene				0.64	mg/kg		0.64	mg/kg	0.000064 %		
	601-052-00-2	202-049-5	91-20-3									
31	phenanthrene				6.76	mg/kg		6.76	mg/kg	0.000676 %		
		201-581-5	85-01-8									
32	pyrene				8.28	mg/kg		8.28	mg/kg	0.000828 %		
		204-927-3	129-00-0									
33	pH: acid/alkali reserve				<0.1	gNaOH		<0.1	gNaOH	<0.1 gNaOH		<LOD
			ACID_ALK_RES									
34	asbestos				<	%		<	%	<		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.433 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.151%)

Appendix A: Classifier defined and non GB MCL determinands

• **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **lead di(acetate)** (EC Number: 206-104-4, CAS Number: 301-04-2)

GB MCL index number: 082-005-00-8

Description/Comments: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2.

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

• **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

• **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

• **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

• **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **pH: acid/alkali reserve** (CAS Number: ACID_ALK_RES)

Description/Comments: Appendix C4; unit: grams of sodium hydroxide (equivalent) per 100g of substance required to adjust the pH to the appropriate value
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

Appendix B: Rationale for selection of metal species

boron {diboron trioxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worst case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead di(acetate)}

Concentration of chromium VI is below the laboratory limit of detection, therefore the next worst case compound has been chosen.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc sulphate}

Concentration of chromium VI is below the laboratory limit of detection, therefore the next worst case compound has been chosen.

vanadium {divanadium pentaoxide; vanadium pentoxide}

Most likely worst case scenario

beryllium {beryllium chloride}

Most likely worst case scenario.

chromium in Cr(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2025.322.6869.12419 (18 Nov 2025)

HazWasteOnline Database: 2025.321.6868.12417 (17 Nov 2025)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

GB MCL List v6.0 - version 6.0 of 15th February 2025

GB MCL List v7.0 - version 7.0 of 23rd September 2025

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
AAR	Acid/Alkali Reserve	Air Dried & Ground
CALC_CR3	Chromium III (Trivalent) (Calc)	Air Dried & Ground
CLANDPREP	CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
GROHSA	GRO (>C6-C10) Total	As Received
ICPBOR	Boron (Water Soluble) by ICPOES	Air Dried & Ground
ICPMSS	Arsenic in Solids by ICPMS	Air Dried & Ground
ICPMSS	Cadmium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Chromium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Copper in Solids by ICPMS	Air Dried & Ground
ICPMSS	Lead in Solids by ICPMS	Air Dried & Ground
ICPMSS	Mercury in Solids by ICPMS	Air Dried & Ground
ICPMSS	Nickel in Solids by ICPMS	Air Dried & Ground
ICPMSS	Selenium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Vanadium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Zinc in Solids by ICPMS	Air Dried & Ground
ICPSOIL	Beryllium in Solids by ICPOES	Air Dried & Ground
KONENS	Chromium VI (Hexavalent) by Colorimetry	Air Dried & Ground
PAHMSUS	16 PAHs by GCMS	As Received
SFAPI	Cyanide (Free) by SFA	As Received
SFAPI	Phenol Index (Total) by SFA	As Received
SUB020	Asbestos Stage 1 (with Stage 2 Trigger)	
SUB020	Asbestos Stage 2: Quantification	
SUB026	CON-NOR Interpretive Report - Solids (Per Sample)	As Received
SUB035	Asbestos Stage 1 (with Stage 2 Trigger)	
SUB035	Asbestos Stage 2: Quantification	
TPHCALC	TPH (>C6-C40) Total (>C10-C40 SCU) (Calc)	As Received
TPHFIDUS (SCU)	TPH (>C10-C35) Banded plus (>C10-C40) Total with SCU	As Received



Project Number: 25110354

Client: Earthworks Testing Ltd
Date Issued: 21/11/2025
Project Name: C1583 - Dove Valley Park

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
---------------	-------------

- | | |
|---|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| B | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| C | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Project Number: 25110354

Client: Earthworks Testing Ltd
Date Issued: 21/11/2025
Project Name: C1583 - Dove Valley Park

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Laboratory Report	ETS/24037-24120	Contract Sample No	C1583/225-237
Report Date	18 November 2025	ETS Contract No	C1583/225-237
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	29/10/2025	
	Date Received	29/10/2025	
	Date Completed	17/11/2025	
	Sample Location	See Below	
	Client Reference	C1583/225-237	
Dove Valley Park			



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-059341

ETS Number	Sample Number	Location	Material	Testing
ETS/24037	225	U6 Layer 1	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24038	226	T6 Layer 2	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24039	227	W8 Layer 4	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24040	228	W9 Layer 2	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24114	231	U6 Layer 5	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24115	232	V6 Layer 6	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24116	233	T6 Layer 7	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24117	234	W10 Layer 1	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24118	235	W9 Layer 2	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24119	236	Marl Pit - SP4	Brown Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/24120	237	Marl Pit - SP4	Brown Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite

Authorised Signatory

T. McDonald

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-059341

Project / Site name:	Dove Valley Park	Samples received on:	31/10/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	31/10/2025
Your order number:	SC1175	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	11 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737384	737385	737386	737387	737388
Sample Reference	C1583/225	C1583/226	C1583/227	C1583/228	C1583/231
Sample Number	U6-L1	T6-L2	W8-L4	W9-L2	U6-L5
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	29/10/2025	29/10/2025	29/10/2025	29/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	19.7	< 0.1	10.7	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	20.7	< 0.1	6.1	3.3	< 0.1
Moisture Content	%	0.01	NONE	14	17	13	20	16
Total mass of sample received	kg	0.1	NONE	1	0.9	1	1.1	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-
Analysis completed	N/A	N/A	N/A	-	-	-	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	7.1	6.1	7.8	5.1
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	250	140	420	550	680
Total Sulphate as SO ₄	%	0.005	MCERTS	0.025	0.014	0.042	0.055	0.068
Acid Soluble Sulphur	%	0.003	NONE	0.008	0.005	0.014	0.018	0.023
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	200	94	100	150	150
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	99.6	47.2	51.7	74.3	76.3
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	99.6	47.2	51.7	74.3	76.3
Water Soluble Sulphur	%	0.0001	NONE	0.0066	0.0031	0.0034	0.005	0.0051
Total Potential Sulphate	mg/kg	30	NONE	610	270	520	770	650
Total Potential Sulphate	%	0.003	NONE	0.061	0.027	0.052	0.077	0.065
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	360	130	100	220	< 20
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.036	0.013	0.01	0.022	< 0.002
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	5.3	2.7	20	6.8	5.2
Total Sulphur	mg/kg	50	MCERTS	200	90	170	260	220
Total Sulphur	%	0.005	MCERTS	0.02	0.009	0.017	0.026	0.022
Organic Matter (automated)	%	0.1	MCERTS	0.5	0.4	0.4	1.5	0.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
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Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737384	737385	737386	737387	737388
Sample Reference	C1583/225	C1583/226	C1583/227	C1583/228	C1583/231
Sample Number	U6-L1	T6-L2	W8-L4	W9-L2	U6-L5
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	29/10/2025	29/10/2025	29/10/2025	29/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	-	-	-
Chromium (III)	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS,ID,TOTAL}	mg/kg	10	NONE	-	-	-	-	-
Petroleum Range Organics (EC6 - EC10) _{HS,ID,TOTAL}	mg/kg	1	ISO 17025	-	-	-	-	-
TPH (EC10 - EC40) _{EH,CU,ID,TOTAL}	mg/kg	10	MCERTS	-	-	-	-	-

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

Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737389	737390	737391	737392	737393
Sample Reference	C1583/232	C1583/233	C1583/234	C1583/235	C1583/236
Sample Number	V6-L6	T6-L7	W110-L1	W9-L2	Marl Pit-SP4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	5.6	< 0.1	< 0.1	21.3
Mass of stone > 2 mm	%	0.1	NONE	4.2	7.9	1.2	< 0.1	-
Moisture Content	%	0.01	NONE	14	15	15	15	26
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.8	0.9	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	WEM
Analysis completed	N/A	N/A	N/A	-	-	-	-	10/11/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	0.009
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	Loose Fibres, Bitumen
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.9	7.1	6.8	7.3	-
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	350	320	520	290	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.035	0.032	0.052	0.029	-
Acid Soluble Sulphur	%	0.003	NONE	0.012	0.011	0.017	0.01	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	92	120	160	40	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	45.8	60	79.1	20.2	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	45.8	60	79.1	20.2	-
Water Soluble Sulphur	%	0.0001	NONE	0.0031	0.004	0.0053	0.0013	-
Total Potential Sulphate	mg/kg	30	NONE	470	380	460	360	-
Total Potential Sulphate	%	0.003	NONE	0.047	0.038	0.046	0.036	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	120	65	< 20	77	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.012	0.006	< 0.002	0.008	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.2	2	4.7	1.8	-
Total Sulphur	mg/kg	50	MCERTS	160	130	150	120	-
Total Sulphur	%	0.005	MCERTS	0.016	0.013	0.015	0.012	-
Organic Matter (automated)	%	0.1	MCERTS	0.3	0.5	0.4	0.6	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
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Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737389	737390	737391	737392	737393
Sample Reference	C1583/232	C1583/233	C1583/234	C1583/235	C1583/236
Sample Number	V6-L6	T6-L7	W110-L1	W9-L2	Marl Pit-SP4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	1.2
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	0.23
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	2.1
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	13
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	3.7
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	18
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	16
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	8.6
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	8.3
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	9.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	3.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	7.7
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	3.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	0.62
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	4.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	101
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	29
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	2.5
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	3.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	3.8
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	-	-	< 1.8
Chromium (III)	mg/kg	1	NONE	-	-	-	-	120
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	120
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	290
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	620
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	62
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	1.2
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	50
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	1100

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	-	-	-	-	790
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	-	-	-	-	3.9
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	-	-	-	-	780

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

Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737394			
Sample Reference	C1583/237			
Sample Number	Marl Pit-SP4			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	30/10/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	25.5
Mass of stone > 2 mm	%	0.1	NONE	-
Moisture Content	%	0.01	NONE	25
Total mass of sample received	kg	0.1	NONE	1.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected
Asbestos Analyst ID	N/A	N/A	N/A	WEM
Analysis completed	N/A	N/A	N/A	10/11/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected
Amosite detected	Type	N/A	ISO 17025	Detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.003
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres,
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-
Acid Soluble Sulphur	%	0.003	NONE	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-
Water Soluble Sulphur	%	0.0001	NONE	-
Total Potential Sulphate	mg/kg	30	NONE	-
Total Potential Sulphate	%	0.003	NONE	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	-
Total Sulphur	%	0.005	MCERTS	-
Organic Matter (automated)	%	0.1	MCERTS	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number					737394
Sample Reference					C1583/237
Sample Number					Marl Pit-SP4
Water Matrix					N/A
Depth (m)					None Supplied
Date Sampled					30/10/2025
Time Taken					None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.45
Acenaphthylene	mg/kg	0.05	MCERTS	0.14
Acenaphthene	mg/kg	0.05	MCERTS	0.84
Fluorene	mg/kg	0.05	MCERTS	0.92
Phenanthrene	mg/kg	0.05	MCERTS	6.1
Anthracene	mg/kg	0.05	MCERTS	1.9
Fluoranthene	mg/kg	0.05	MCERTS	10
Pyrene	mg/kg	0.05	MCERTS	9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.2
Chrysene	mg/kg	0.05	MCERTS	4.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	6.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	2.9
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.49
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	59.1
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	37
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.8
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	2.9 *U/S g
Chromium (III)	mg/kg	1	NONE	110 *U/S g
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	110
Copper (aqua regia extractable)	mg/kg	1	MCERTS	400
Lead (aqua regia extractable)	mg/kg	1	MCERTS	960
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	74
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	56
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	1100

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	510
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	510

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



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Analytical Report Number: **25-059341**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1175**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
737393	C1583/236	-	264	Loose Fibres, Bitumen	Amosite & Chrysotile	0.009	0.009	10/11/2025	WEM
737394	C1583/237	-	219	Loose Fibres,	Amosite & Chrysotile	0.003	0.003	10/11/2025	WEM

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

Analytical Report Number : 25-059341

Project / Site name: Dove Valley Park

* 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 *
737384	C1583/225	U6-L1	None Supplied	Brown clay and sand with gravel and stones
737385	C1583/226	T6-L2	None Supplied	Brown clay and sand with gravel and vegetation
737386	C1583/227	W8-L4	None Supplied	Brown clay and sand with gravel and stones
737387	C1583/228	W9-L2	None Supplied	Brown clay and sand with gravel
737388	C1583/231	U6-L5	None Supplied	Brown clay and sand
737389	C1583/232	V6-L6	None Supplied	Brown clay and sand with gravel
737390	C1583/233	T6-L7	None Supplied	Brown clay and sand with gravel and stones
737391	C1583/234	W110-L1	None Supplied	Brown clay and sand with gravel and stones
737392	C1583/235	W9-L2	None Supplied	Brown clay and sand with gravel and vegetation
737393	C1583/236	Marl Pit-SP4	None Supplied	Brown loam and clay with stones and vegetation
737394	C1583/237	Marl Pit-SP4	None Supplied	Brown loam and clay with stones and gravel

Analytical Report Number : 25-059341

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS

Analytical Report Number : 25-059341

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-059341

Project / Site name:	Dove Valley Park	Samples received on:	31/10/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	31/10/2025
Your order number:	SC1175	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	11 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737384	737385	737386	737387	737388
Sample Reference	C1583/225	C1583/226	C1583/227	C1583/228	C1583/231
Sample Number	U6-L1	T6-L2	W8-L4	W9-L2	U6-L5
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	29/10/2025	29/10/2025	29/10/2025	29/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	19.7	< 0.1	10.7	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	20.7	< 0.1	6.1	3.3	< 0.1
Moisture Content	%	0.01	NONE	14	17	13	20	16
Total mass of sample received	kg	0.1	NONE	1	0.9	1	1.1	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-
Analysis completed	N/A	N/A	N/A	-	-	-	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	7.1	6.1	7.8	5.1
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	250	140	420	550	680
Total Sulphate as SO ₄	%	0.005	MCERTS	0.025	0.014	0.042	0.055	0.068
Acid Soluble Sulphur	%	0.003	NONE	0.008	0.005	0.014	0.018	0.023
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	200	94	100	150	150
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	99.6	47.2	51.7	74.3	76.3
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	99.6	47.2	51.7	74.3	76.3
Water Soluble Sulphur	%	0.0001	NONE	0.0066	0.0031	0.0034	0.005	0.0051
Total Potential Sulphate	mg/kg	30	NONE	610	270	520	770	650
Total Potential Sulphate	%	0.003	NONE	0.061	0.027	0.052	0.077	0.065
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	360	130	100	220	< 20
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.036	0.013	0.01	0.022	< 0.002
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	5.3	2.7	20	6.8	5.2
Total Sulphur	mg/kg	50	MCERTS	200	90	170	260	220
Total Sulphur	%	0.005	MCERTS	0.02	0.009	0.017	0.026	0.022
Organic Matter (automated)	%	0.1	MCERTS	0.5	0.4	0.4	1.5	0.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
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Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737384	737385	737386	737387	737388
Sample Reference	C1583/225	C1583/226	C1583/227	C1583/228	C1583/231
Sample Number	U6-L1	T6-L2	W8-L4	W9-L2	U6-L5
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	29/10/2025	29/10/2025	29/10/2025	29/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	-	-	-
Chromium (III)	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	-	-	-	-	-
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	-	-	-	-	-
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	-	-	-	-	-

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

Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737389	737390	737391	737392	737393
Sample Reference	C1583/232	C1583/233	C1583/234	C1583/235	C1583/236
Sample Number	V6-L6	T6-L7	W110-L1	W9-L2	Marl Pit-SP4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	5.6	< 0.1	< 0.1	21.3
Mass of stone > 2 mm	%	0.1	NONE	4.2	7.9	1.2	< 0.1	-
Moisture Content	%	0.01	NONE	14	15	15	15	26
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.8	0.9	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	WEM
Analysis completed	N/A	N/A	N/A	-	-	-	-	10/11/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	0.009
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	Loose Fibres, Bitumen
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.9	7.1	6.8	7.3	-
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	350	320	520	290	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.035	0.032	0.052	0.029	-
Acid Soluble Sulphur	%	0.003	NONE	0.012	0.011	0.017	0.01	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	92	120	160	40	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	45.8	60	79.1	20.2	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	45.8	60	79.1	20.2	-
Water Soluble Sulphur	%	0.0001	NONE	0.0031	0.004	0.0053	0.0013	-
Total Potential Sulphate	mg/kg	30	NONE	470	380	460	360	-
Total Potential Sulphate	%	0.003	NONE	0.047	0.038	0.046	0.036	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	120	65	< 20	77	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.012	0.006	< 0.002	0.008	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.2	2	4.7	1.8	-
Total Sulphur	mg/kg	50	MCERTS	160	130	150	120	-
Total Sulphur	%	0.005	MCERTS	0.016	0.013	0.015	0.012	-
Organic Matter (automated)	%	0.1	MCERTS	0.3	0.5	0.4	0.6	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
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Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737389	737390	737391	737392	737393
Sample Reference	C1583/232	C1583/233	C1583/234	C1583/235	C1583/236
Sample Number	V6-L6	T6-L7	W110-L1	W9-L2	Marl Pit-SP4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	1.2
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	0.23
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	2.1
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	13
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	3.7
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	18
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	16
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	8.6
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	8.3
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	9.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	3.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	7.7
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	3.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	0.62
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	4.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	101
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	29
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	2.5
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	3.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	3.8
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	-	-	< 1.8
Chromium (III)	mg/kg	1	NONE	-	-	-	-	120
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	120
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	290
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	620
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	62
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	1.2
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	50
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	1100

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	-	-	-	-	790
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	-	-	-	-	3.9
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	-	-	-	-	780

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

Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number	737394			
Sample Reference	C1583/237			
Sample Number	Marl Pit-SP4			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	30/10/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	25.5
Mass of stone > 2 mm	%	0.1	NONE	-
Moisture Content	%	0.01	NONE	25
Total mass of sample received	kg	0.1	NONE	1.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected
Asbestos Analyst ID	N/A	N/A	N/A	WEM
Analysis completed	N/A	N/A	N/A	10/11/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected
Amosite detected	Type	N/A	ISO 17025	Detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.003
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres,
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-
Acid Soluble Sulphur	%	0.003	NONE	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-
Water Soluble Sulphur	%	0.0001	NONE	-
Total Potential Sulphate	mg/kg	30	NONE	-
Total Potential Sulphate	%	0.003	NONE	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	-
Total Sulphur	%	0.005	MCERTS	-
Organic Matter (automated)	%	0.1	MCERTS	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Analytical Report Number: 25-059341
Project / Site name: Dove Valley Park
Your Order No: SC1175

Lab Sample Number					737394
Sample Reference					C1583/237
Sample Number					Marl Pit-SP4
Water Matrix					N/A
Depth (m)					None Supplied
Date Sampled					30/10/2025
Time Taken					None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.45
Acenaphthylene	mg/kg	0.05	MCERTS	0.14
Acenaphthene	mg/kg	0.05	MCERTS	0.84
Fluorene	mg/kg	0.05	MCERTS	0.92
Phenanthrene	mg/kg	0.05	MCERTS	6.1
Anthracene	mg/kg	0.05	MCERTS	1.9
Fluoranthene	mg/kg	0.05	MCERTS	10
Pyrene	mg/kg	0.05	MCERTS	9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.2
Chrysene	mg/kg	0.05	MCERTS	4.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	6.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	2.9
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.49
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	59.1
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	37
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.8
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	2.9 *U/S g
Chromium (III)	mg/kg	1	NONE	110 *U/S g
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	110
Copper (aqua regia extractable)	mg/kg	1	MCERTS	400
Lead (aqua regia extractable)	mg/kg	1	MCERTS	960
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	74
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	56
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	1100

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	510
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	510

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



4041

Analytical Report Number: **25-059341**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1175**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
737393	C1583/236	-	264	Loose Fibres, Bitumen	Amosite & Chrysotile	0.009	0.009	10/11/2025	WEM
737394	C1583/237	-	219	Loose Fibres,	Amosite & Chrysotile	0.003	0.003	10/11/2025	WEM

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

Analytical Report Number : 25-059341

Project / Site name: Dove Valley Park

* 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 *
737384	C1583/225	U6-L1	None Supplied	Brown clay and sand with gravel and stones
737385	C1583/226	T6-L2	None Supplied	Brown clay and sand with gravel and vegetation
737386	C1583/227	W8-L4	None Supplied	Brown clay and sand with gravel and stones
737387	C1583/228	W9-L2	None Supplied	Brown clay and sand with gravel
737388	C1583/231	U6-L5	None Supplied	Brown clay and sand
737389	C1583/232	V6-L6	None Supplied	Brown clay and sand with gravel
737390	C1583/233	T6-L7	None Supplied	Brown clay and sand with gravel and stones
737391	C1583/234	W110-L1	None Supplied	Brown clay and sand with gravel and stones
737392	C1583/235	W9-L2	None Supplied	Brown clay and sand with gravel and vegetation
737393	C1583/236	Marl Pit-SP4	None Supplied	Brown loam and clay with stones and vegetation
737394	C1583/237	Marl Pit-SP4	None Supplied	Brown loam and clay with stones and gravel

Analytical Report Number : 25-059341

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS

Analytical Report Number : 25-059341

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Laboratory Report	ETS/24192-24194	Contract Sample No	C1583/241-243
Report Date	12 November 2025	ETS Contract No	C1583/241-243
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	31/10/2025	
	Date Received	31/10/2025	
	Date Completed	12/11/2025	
Dove Valley Park	Sample Location	See Below	
	Client Reference	C1583/241-243	



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-059515

ETS Number	Sample Number	Location	Material	Testing
ETS/24192	241	T7 Layer 2	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24193	242	U7 Layer 5	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24194	243	W9 Layer 3	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION

Authorised Signatory

T. McDonald

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-059515

Project / Site name:	Dove Valley Park	Samples received on:	03/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	03/11/2025
Your order number:	SC1182	Analysis completed by:	11/11/2025
Report Issue Number:	1	Report issued on:	12/11/2025
Samples Analysed:	3 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-059515
Project / Site name: Dove Valley Park
Your Order No: SC1182

Lab Sample Number	738429	738430	738431
Sample Reference	C1583/241/T7 - L2	C1583/242/U7 - L5	C1583/243/W9 - L3
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	31/10/2025	31/10/2025	31/10/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	3.7	1.7	< 0.1
Moisture Content	%	0.01	NONE	14	18	17
Total mass of sample received	kg	0.1	NONE	1	1	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.1	7.4	6.8
Total Sulphate as SO ₄	mg/kg	50	MCERTS	450	410	650
Total Sulphate as SO ₄	%	0.005	MCERTS	0.045	0.041	0.065
Acid Soluble Sulphur	%	0.003	NONE	0.015	0.014	0.022
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	110	300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	70.7	55.6	148
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	70.7	55.6	148
Water Soluble Sulphur	%	0.0001	NONE	0.0047	0.0037	0.0098
Total Potential Sulphate	mg/kg	30	NONE	520	360	650
Total Potential Sulphate	%	0.003	NONE	0.052	0.036	0.065
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	70	< 20	< 20
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.007	< 0.002	< 0.002
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17	3.8	20
Total Sulphur	mg/kg	50	MCERTS	170	120	220
Total Sulphur	%	0.005	MCERTS	0.017	0.012	0.022
Organic Matter (automated)	%	0.1	MCERTS	0.4	0.6	0.3

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

Analytical Report Number : 25-059515

Project / Site name: Dove Valley Park

* 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 *
738429	1583/241/T7 - L	None Supplied	None Supplied	Brown clay with gravel
738430	1583/242/U7 - L	None Supplied	None Supplied	Brown clay
738431	1583/243/W9 - L	None Supplied	None Supplied	Brown clay

Analytical Report Number : 25-059515

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-059515

Project / Site name:	Dove Valley Park	Samples received on:	03/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	03/11/2025
Your order number:	SC1182	Analysis completed by:	11/11/2025
Report Issue Number:	1	Report issued on:	12/11/2025
Samples Analysed:	3 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
air	- once the analysis is complete

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Some records may be kept for longer according to other legal/best practice requirements.

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: 25-059515
Project / Site name: Dove Valley Park
Your Order No: SC1182

Lab Sample Number	738429	738430	738431
Sample Reference	C1583/241/T7 - L2	C1583/242/U7 - L5	C1583/243/W9 - L3
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	31/10/2025	31/10/2025	31/10/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	3.7	1.7	< 0.1
Moisture Content	%	0.01	NONE	14	18	17
Total mass of sample received	kg	0.1	NONE	1	1	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.1	7.4	6.8
Total Sulphate as SO ₄	mg/kg	50	MCERTS	450	410	650
Total Sulphate as SO ₄	%	0.005	MCERTS	0.045	0.041	0.065
Acid Soluble Sulphur	%	0.003	NONE	0.015	0.014	0.022
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	110	300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	70.7	55.6	148
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	70.7	55.6	148
Water Soluble Sulphur	%	0.0001	NONE	0.0047	0.0037	0.0098
Total Potential Sulphate	mg/kg	30	NONE	520	360	650
Total Potential Sulphate	%	0.003	NONE	0.052	0.036	0.065
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	70	< 20	< 20
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.007	< 0.002	< 0.002
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17	3.8	20
Total Sulphur	mg/kg	50	MCERTS	170	120	220
Total Sulphur	%	0.005	MCERTS	0.017	0.012	0.022
Organic Matter (automated)	%	0.1	MCERTS	0.4	0.6	0.3

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

Analytical Report Number : 25-059515

Project / Site name: Dove Valley Park

* 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 *
738429	1583/241/T7 - L	None Supplied	None Supplied	Brown clay with gravel
738430	1583/242/U7 - L	None Supplied	None Supplied	Brown clay
738431	1583/243/W9 - L	None Supplied	None Supplied	Brown clay

Analytical Report Number : 25-059515

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-059515

Project / Site name:	Dove Valley Park	Samples received on:	03/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	03/11/2025
Your order number:	SC1182	Analysis completed by:	11/11/2025
Report Issue Number:	1	Report issued on:	12/11/2025
Samples Analysed:	3 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-059515
Project / Site name: Dove Valley Park
Your Order No: SC1182

Lab Sample Number	738429	738430	738431
Sample Reference	C1583/241/T7 - L2	C1583/242/U7 - L5	C1583/243/W9 - L3
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	31/10/2025	31/10/2025	31/10/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	3.7	1.7	< 0.1
Moisture Content	%	0.01	NONE	14	18	17
Total mass of sample received	kg	0.1	NONE	1	1	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.1	7.4	6.8
Total Sulphate as SO ₄	mg/kg	50	MCERTS	450	410	650
Total Sulphate as SO ₄	%	0.005	MCERTS	0.045	0.041	0.065
Acid Soluble Sulphur	%	0.003	NONE	0.015	0.014	0.022
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	110	300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	70.7	55.6	148
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	70.7	55.6	148
Water Soluble Sulphur	%	0.0001	NONE	0.0047	0.0037	0.0098
Total Potential Sulphate	mg/kg	30	NONE	520	360	650
Total Potential Sulphate	%	0.003	NONE	0.052	0.036	0.065
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	70	< 20	< 20
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.007	< 0.002	< 0.002
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17	3.8	20
Total Sulphur	mg/kg	50	MCERTS	170	120	220
Total Sulphur	%	0.005	MCERTS	0.017	0.012	0.022
Organic Matter (automated)	%	0.1	MCERTS	0.4	0.6	0.3

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

Analytical Report Number : 25-059515

Project / Site name: Dove Valley Park

* 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 *
738429	1583/241/T7 - L	None Supplied	None Supplied	Brown clay with gravel
738430	1583/242/U7 - L	None Supplied	None Supplied	Brown clay
738431	1583/243/W9 - L	None Supplied	None Supplied	Brown clay

Analytical Report Number : 25-059515

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/24234-24239	Contract Sample No	C1583/248-253
Report Date	18 November 2025	ETS Contract No	C1583/248-253
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	03/11/2025	
	Date Received	03/11/2025	
	Date Completed	17/11/2025	
Dove Valley Park	Sample Location	See Below	
	Client Reference	C1583/248-253	



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

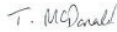
Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-060014

ETS Number	Sample Number	Location	Material	Testing
ETS/24234	248	W9 Layer 5	Bown Slightly Sandy Clay W/F-M Gravel +2% Lime (Class 4)	TRL 447, OM, PH, Chloride ION
ETS/24235	251	Marl Pit - SP1	Bown Slightly Sandy Clay W/F-M Gravel (Class 4)	Site Specific Chemical Suite
ETS/24236	252	Marl Pit - SP1	Bown Slightly Sandy Clay W/F-M Gravel (Class 4)	Site Specific Chemical Suite
ETS/24237	253	Marl Pit - SP1	Bown Slightly Sandy Clay W/F-M Gravel (Class 4)	Site Specific Chemical Suite

Authorised Signatory



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060014

Project / Site name:	Dove Valley Park	Samples received on:	05/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	05/11/2025
Your order number:	SC1195	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	4 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
air	- once the analysis is complete

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Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060014
Project / Site name: Dove Valley Park
Your Order No: SC1195

Lab Sample Number	740870	740871	740872	740873
Sample Reference	C1583/248	C1583/251	C1583/252	C1583/253
Sample Number	W9-L5	W18-L2	X16-L1	Y15-L1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.50	0.50	0.50
Date Sampled	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	33.8	-	-	-
Moisture Content	%	0.01	NONE	16	15	15	14
Total mass of sample received	kg	0.1	NONE	0.7	1.9	1.3	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	JWU	JWU	JWU
Analysis completed	N/A	N/A	N/A	-	14/11/2025	14/11/2025	14/11/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	11	-	-	-
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	760	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.076	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	0.025	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	240	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	119	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	119	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	0.0079	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	1200	-	-	-
Total Potential Sulphate	%	0.003	NONE	0.12	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	430	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.043	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	14	-	-	-
Total Sulphur	mg/kg	50	MCERTS	400	-	-	-
Total Sulphur	%	0.005	MCERTS	0.04	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	1.4	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-060014
Project / Site name: Dove Valley Park
Your Order No: SC1195

Lab Sample Number	740870	740871	740872	740873
Sample Reference	C1583/248	C1583/251	C1583/252	C1583/253
Sample Number	W9-L5	W18-L2	X16-L1	Y15-L1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.50	0.50	0.50
Date Sampled	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	0.09	0.12	0.28
Acenaphthylene	mg/kg	0.05	MCERTS	-	0.12	0.2	0.21
Acenaphthene	mg/kg	0.05	MCERTS	-	0.4	1.5	1.7
Fluorene	mg/kg	0.05	MCERTS	-	0.29	1.2	1.6
Phenanthrene	mg/kg	0.05	MCERTS	-	5.1	15	19
Anthracene	mg/kg	0.05	MCERTS	-	1.3	4.5	4.5
Fluoranthene	mg/kg	0.05	MCERTS	-	13	27	29
Pyrene	mg/kg	0.05	MCERTS	-	12	23	25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	5.8	11	11
Chrysene	mg/kg	0.05	MCERTS	-	6.3	11	12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	7.3	12	12
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	3	5.7	6.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	6.4	11	11
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	3.1	4.7	5.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.85	1.2	1.3
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	3.7	5.7	6.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	69.2	135	146
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	15	11	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	2	1.4	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.7	1.2	2.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.9	0.7	1
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	U/S ^u /S g	U/S ^u /S g	< 1.8
Chromium (III)	mg/kg	1	NONE	-	U/S ^u /S g	U/S ^u /S g	39
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	2.88	< 1.80	-
Chromium (III) by IC	mg/kg	1	NONE	-	43	30	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	46	30	39
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	72	54	77
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	190	88	200
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	38	29	34
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	43	35	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	260	190	300

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_1D_TOTAL}	mg/kg	10	NONE	-	170	170	310
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	-	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) _{EH,CU_1D_TOTAL}	mg/kg	10	MCERTS	-	170	170	310

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

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

* 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 *
740870	C1583/248	W9-L5	0.5	Brown clay and sand with gravel and vegetation
740871	C1583/251	W18-L2	0.5	Brown clay and loam with gravel and vegetation
740872	C1583/252	X16-L1	0.5	Brown clay and loam with vegetation and gravel
740873	C1583/253	Y15-L1	0.5	Brown clay and loam with vegetation and gravel

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060014

Project / Site name:	Dove Valley Park	Samples received on:	05/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	05/11/2025
Your order number:	SC1195	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	4 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060014
Project / Site name: Dove Valley Park
Your Order No: SC1195

Lab Sample Number	740870	740871	740872	740873
Sample Reference	C1583/248	C1583/251	C1583/252	C1583/253
Sample Number	W9-L5	W18-L2	X16-L1	Y15-L1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.50	0.50	0.50
Date Sampled	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	33.8	-	-	-
Moisture Content	%	0.01	NONE	16	15	15	14
Total mass of sample received	kg	0.1	NONE	0.7	1.9	1.3	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	JWU	JWU	JWU
Analysis completed	N/A	N/A	N/A	-	14/11/2025	14/11/2025	14/11/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	11	-	-	-
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	760	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.076	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	0.025	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	240	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	119	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	119	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	0.0079	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	1200	-	-	-
Total Potential Sulphate	%	0.003	NONE	0.12	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	430	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.043	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	14	-	-	-
Total Sulphur	mg/kg	50	MCERTS	400	-	-	-
Total Sulphur	%	0.005	MCERTS	0.04	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	1.4	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-060014
Project / Site name: Dove Valley Park
Your Order No: SC1195

Lab Sample Number	740870	740871	740872	740873
Sample Reference	C1583/248	C1583/251	C1583/252	C1583/253
Sample Number	W9-L5	W18-L2	X16-L1	Y15-L1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.50	0.50	0.50
Date Sampled	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	0.09	0.12	0.28
Acenaphthylene	mg/kg	0.05	MCERTS	-	0.12	0.2	0.21
Acenaphthene	mg/kg	0.05	MCERTS	-	0.4	1.5	1.7
Fluorene	mg/kg	0.05	MCERTS	-	0.29	1.2	1.6
Phenanthrene	mg/kg	0.05	MCERTS	-	5.1	15	19
Anthracene	mg/kg	0.05	MCERTS	-	1.3	4.5	4.5
Fluoranthene	mg/kg	0.05	MCERTS	-	13	27	29
Pyrene	mg/kg	0.05	MCERTS	-	12	23	25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	5.8	11	11
Chrysene	mg/kg	0.05	MCERTS	-	6.3	11	12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	7.3	12	12
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	3	5.7	6.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	6.4	11	11
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	3.1	4.7	5.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.85	1.2	1.3
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	3.7	5.7	6.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	69.2	135	146
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	15	11	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	2	1.4	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.7	1.2	2.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.9	0.7	1
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	U/S ^u /S g	U/S ^u /S g	< 1.8
Chromium (III)	mg/kg	1	NONE	-	U/S ^u /S g	U/S ^u /S g	39
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	2.88	< 1.80	-
Chromium (III) by IC	mg/kg	1	NONE	-	43	30	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	46	30	39
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	72	54	77
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	190	88	200
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	38	29	34
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	43	35	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	260	190	300

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	-	170	170	310
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	-	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	-	170	170	310

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

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

* 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 *
740870	C1583/248	W9-L5	0.5	Brown clay and sand with gravel and vegetation
740871	C1583/251	W18-L2	0.5	Brown clay and loam with gravel and vegetation
740872	C1583/252	X16-L1	0.5	Brown clay and loam with vegetation and gravel
740873	C1583/253	Y15-L1	0.5	Brown clay and loam with vegetation and gravel

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060014

Project / Site name:	Dove Valley Park	Samples received on:	05/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	05/11/2025
Your order number:	SC1195	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	4 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060014
Project / Site name: Dove Valley Park
Your Order No: SC1195

Lab Sample Number	740870	740871	740872	740873
Sample Reference	C1583/248	C1583/251	C1583/252	C1583/253
Sample Number	W9-L5	W18-L2	X16-L1	Y15-L1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.50	0.50	0.50
Date Sampled	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	33.8	-	-	-
Moisture Content	%	0.01	NONE	16	15	15	14
Total mass of sample received	kg	0.1	NONE	0.7	1.9	1.3	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	JWU	JWU	JWU
Analysis completed	N/A	N/A	N/A	-	14/11/2025	14/11/2025	14/11/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	11	-	-	-
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	760	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.076	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	0.025	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	240	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	119	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	119	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	0.0079	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	1200	-	-	-
Total Potential Sulphate	%	0.003	NONE	0.12	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	430	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.043	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	14	-	-	-
Total Sulphur	mg/kg	50	MCERTS	400	-	-	-
Total Sulphur	%	0.005	MCERTS	0.04	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	1.4	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-060014
Project / Site name: Dove Valley Park
Your Order No: SC1195

Lab Sample Number	740870	740871	740872	740873
Sample Reference	C1583/248	C1583/251	C1583/252	C1583/253
Sample Number	W9-L5	W18-L2	X16-L1	Y15-L1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.50	0.50	0.50
Date Sampled	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	0.09	0.12	0.28
Acenaphthylene	mg/kg	0.05	MCERTS	-	0.12	0.2	0.21
Acenaphthene	mg/kg	0.05	MCERTS	-	0.4	1.5	1.7
Fluorene	mg/kg	0.05	MCERTS	-	0.29	1.2	1.6
Phenanthrene	mg/kg	0.05	MCERTS	-	5.1	15	19
Anthracene	mg/kg	0.05	MCERTS	-	1.3	4.5	4.5
Fluoranthene	mg/kg	0.05	MCERTS	-	13	27	29
Pyrene	mg/kg	0.05	MCERTS	-	12	23	25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	5.8	11	11
Chrysene	mg/kg	0.05	MCERTS	-	6.3	11	12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	7.3	12	12
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	3	5.7	6.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	6.4	11	11
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	3.1	4.7	5.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.85	1.2	1.3
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	3.7	5.7	6.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	69.2	135	146
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	15	11	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	2	1.4	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.7	1.2	2.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.9	0.7	1
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	U/S ^u /S g	U/S ^u /S g	< 1.8
Chromium (III)	mg/kg	1	NONE	-	U/S ^u /S g	U/S ^u /S g	39
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	2.88	< 1.80	-
Chromium (III) by IC	mg/kg	1	NONE	-	43	30	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	46	30	39
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	72	54	77
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	190	88	200
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	38	29	34
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	43	35	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	260	190	300

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	-	170	170	310
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	-	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	-	170	170	310

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

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

* 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 *
740870	C1583/248	W9-L5	0.5	Brown clay and sand with gravel and vegetation
740871	C1583/251	W18-L2	0.5	Brown clay and loam with gravel and vegetation
740872	C1583/252	X16-L1	0.5	Brown clay and loam with vegetation and gravel
740873	C1583/253	Y15-L1	0.5	Brown clay and loam with vegetation and gravel

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS

Analytical Report Number : 25-060014

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Laboratory Report	ETS/24317-24322	Contract Sample No	C1583/255-260
Report Date	18 November 2025	ETS Contract No	C1583/255-260
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	04/11/2025	
	Date Received	05/11/2025	
	Date Completed	17/11/2025	
Dove Valley Park	Sample Location	See Below	
	Client Reference	C1583/255-260	



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-060338

ETS Number	Sample Number	Location	Material	Testing
ETS/24317	255	Marl Pit - SP 2	Bown Slightly Sandy Clay W/F-M Gravel (Class 4)	Site Specific Chemical Suite
ETS/24322	256	Marl Pit - SP 2	Bown Slightly Sandy Clay W/F-M Gravel (Class 4)	Site Specific Chemical Suite
ETS/24320	258	W8 Layer 7	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24321	259	X10 Layer 8	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24322	260	W10 Layer 7	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION

Authorised Signatory

T. McDonald

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060338

Project / Site name:	Dove Valley Park	Samples received on:	06/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	06/11/2025
Your order number:	SC1200	Analysis completed by:	16/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	6 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742371	742372	742373	742374	742375
Sample Reference	C1583/255	C1583/256	C1583/258	C1583/259	C1583/260
Sample Number	Y14-L1	Z13-L2	W8-L7	X10-L8	W10-L7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	36.9	28.1	< 0.1	< 0.1	10.2
Mass of stone > 2 mm	%	0.1	NONE	-	-	27.7	1.7	18.5
Moisture Content	%	0.01	NONE	10	12	15	13	13
Total mass of sample received	kg	0.1	NONE	1.8	2	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	WEM	WEM	-	-	-
Analysis completed	N/A	N/A	N/A	15/11/2025	15/11/2025	-	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.008	0.001	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres, Loose Fibrous Debris	Loose Fibres	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	7.4	7.5	6.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	280	270	170
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	0.028	0.027	0.017
Acid Soluble Sulphur	%	0.003	NONE	-	-	0.009	0.009	0.006
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	110	99	48
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	55.3	49.5	24.1
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	55.3	49.5	24.1
Water Soluble Sulphur	%	0.0001	NONE	-	-	0.0037	0.0033	0.0016
Total Potential Sulphate	mg/kg	30	NONE	-	-	460	460	280
Total Potential Sulphate	%	0.003	NONE	-	-	0.046	0.046	0.028
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	180	190	110
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	0.018	0.019	0.011
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	5.9	2.5	13
Total Sulphur	mg/kg	50	MCERTS	-	-	150	150	95
Total Sulphur	%	0.005	MCERTS	-	-	0.015	0.015	0.009
Organic Matter (automated)	%	0.1	MCERTS	-	-	0.4	0.4	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
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Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742371	742372	742373	742374	742375
Sample Reference	C1583/255	C1583/256	C1583/258	C1583/259	C1583/260
Sample Number	Y14-L1	Z13-L2	W8-L7	X10-L8	W10-L7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.09	0.18	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.2	0.33	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.98	3.4	-	-	-
Fluorene	mg/kg	0.05	MCERTS	0.74	3.1	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	12	33	-	-	-
Anthracene	mg/kg	0.05	MCERTS	3.1	7.6	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	23	46	-	-	-
Pyrene	mg/kg	0.05	MCERTS	20	39	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	9.6	16	-	-	-
Chrysene	mg/kg	0.05	MCERTS	9	16	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	13	22	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4	7.1	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	9.5	17	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.4	8.4	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.85	1.5	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	5.2	9.6	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	115	230	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	20	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.1	2.4	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.9	1.9	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.5	1.8	-	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S ^{*U/S g}	U/S ^{*U/S g}	-	-	-
Chromium (III)	mg/kg	1	NONE	U/S ^{*U/S g}	U/S ^{*U/S g}	-	-	-
Chromium (VI) by IC	mg/kg	1.8	NONE	< 1.80	< 1.80	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	41	57	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	41	57	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	120	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	350	310	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	47	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.9	< 1.0	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	43	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	380	510	-	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	310	550	-	-	-
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	310	550	-	-	-

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

Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742376			
Sample Reference	C1583/264			
Sample Number	X10-L10			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	04/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	23
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.1	NONE	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-
Analysis completed	N/A	N/A	N/A	-
Actinolite detected	Type	N/A	ISO 17025	-
Amosite detected	Type	N/A	ISO 17025	-
Anthophyllite detected	Type	N/A	ISO 17025	-
Chrysotile detected	Type	N/A	ISO 17025	-
Crocidolite detected	Type	N/A	ISO 17025	-
Tremolite detected	Type	N/A	ISO 17025	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.4
Free Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	270
Total Sulphate as SO ₄	%	0.005	MCERTS	0.027
Acid Soluble Sulphur	%	0.003	NONE	0.009
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	110
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	57.4
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	57.4
Water Soluble Sulphur	%	0.0001	NONE	0.0038
Total Potential Sulphate	mg/kg	30	NONE	310
Total Potential Sulphate	%	0.003	NONE	0.031
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	36
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.004
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	7.2
Total Sulphur	mg/kg	50	MCERTS	100
Total Sulphur	%	0.005	MCERTS	0.01
Organic Matter (automated)	%	0.1	MCERTS	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
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Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number					742376
Sample Reference					C1583/264
Sample Number					X10-L10
Water Matrix					N/A
Depth (m)					None Supplied
Date Sampled					04/11/2025
Time Taken					None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-
Chromium (III)	mg/kg	1	NONE	-
Chromium (VI) by IC	mg/kg	1.8	NONE	-
Chromium (III) by IC	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_1D_TOTAL}	mg/kg	10	NONE	-
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	-
TPH (EC10 - EC40) _{EH,CU_1D_TOTAL}	mg/kg	10	MCERTS	-

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



4041

Analytical Report Number: **25-060338**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1200**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
742371	C1583/255	-	193	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile	0.008	0.008	15/11/2025	WEM
742372	C1583/256	-	210	Loose Fibres	Amosite & Chrysotile	0.001	0.001	15/11/2025	WEM

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

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

* 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 *
742371	C1583/255	Y14-L1	None Supplied	Brown loam and sand with vegetation and stones
742372	C1583/256	Z13-L2	None Supplied	Brown loam and sand with gravel and stones
742373	C1583/258	W8-L7	None Supplied	Brown clay
742374	C1583/259	X10-L8	None Supplied	Brown clay with vegetation
742375	C1583/260	W10-L7	None Supplied	Brown clay and sand with gravel and stones
742376	C1583/264	X10-L10	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060338

Project / Site name:	Dove Valley Park	Samples received on:	06/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	06/11/2025
Your order number:	SC1200	Analysis completed by:	16/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	6 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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742371	742372	742373	742374	742375
Sample Reference	C1583/255	C1583/256	C1583/258	C1583/259	C1583/260
Sample Number	Y14-L1	Z13-L2	W8-L7	X10-L8	W10-L7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	36.9	28.1	< 0.1	< 0.1	10.2
Mass of stone > 2 mm	%	0.1	NONE	-	-	27.7	1.7	18.5
Moisture Content	%	0.01	NONE	10	12	15	13	13
Total mass of sample received	kg	0.1	NONE	1.8	2	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	WEM	WEM	-	-	-
Analysis completed	N/A	N/A	N/A	15/11/2025	15/11/2025	-	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.008	0.001	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres, Loose Fibrous Debris	Loose Fibres	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	7.4	7.5	6.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	280	270	170
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	0.028	0.027	0.017
Acid Soluble Sulphur	%	0.003	NONE	-	-	0.009	0.009	0.006
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	110	99	48
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	55.3	49.5	24.1
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	55.3	49.5	24.1
Water Soluble Sulphur	%	0.0001	NONE	-	-	0.0037	0.0033	0.0016
Total Potential Sulphate	mg/kg	30	NONE	-	-	460	460	280
Total Potential Sulphate	%	0.003	NONE	-	-	0.046	0.046	0.028
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	180	190	110
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	0.018	0.019	0.011
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	5.9	2.5	13
Total Sulphur	mg/kg	50	MCERTS	-	-	150	150	95
Total Sulphur	%	0.005	MCERTS	-	-	0.015	0.015	0.009
Organic Matter (automated)	%	0.1	MCERTS	-	-	0.4	0.4	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
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Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742371	742372	742373	742374	742375
Sample Reference	C1583/255	C1583/256	C1583/258	C1583/259	C1583/260
Sample Number	Y14-L1	Z13-L2	W8-L7	X10-L8	W10-L7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.09	0.18	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.2	0.33	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.98	3.4	-	-	-
Fluorene	mg/kg	0.05	MCERTS	0.74	3.1	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	12	33	-	-	-
Anthracene	mg/kg	0.05	MCERTS	3.1	7.6	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	23	46	-	-	-
Pyrene	mg/kg	0.05	MCERTS	20	39	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	9.6	16	-	-	-
Chrysene	mg/kg	0.05	MCERTS	9	16	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	13	22	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4	7.1	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	9.5	17	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.4	8.4	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.85	1.5	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	5.2	9.6	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	115	230	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	20	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.1	2.4	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.9	1.9	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.5	1.8	-	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S ^{*U/S g}	U/S ^{*U/S g}	-	-	-
Chromium (III)	mg/kg	1	NONE	U/S ^{*U/S g}	U/S ^{*U/S g}	-	-	-
Chromium (VI) by IC	mg/kg	1.8	NONE	< 1.80	< 1.80	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	41	57	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	41	57	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	120	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	350	310	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	47	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.9	< 1.0	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	43	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	380	510	-	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	310	550	-	-	-
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	310	550	-	-	-

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

Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742376			
Sample Reference	C1583/264			
Sample Number	X10-L10			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	04/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	23
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.1	NONE	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-
Analysis completed	N/A	N/A	N/A	-
Actinolite detected	Type	N/A	ISO 17025	-
Amosite detected	Type	N/A	ISO 17025	-
Anthophyllite detected	Type	N/A	ISO 17025	-
Chrysotile detected	Type	N/A	ISO 17025	-
Crocidolite detected	Type	N/A	ISO 17025	-
Tremolite detected	Type	N/A	ISO 17025	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.4
Free Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	270
Total Sulphate as SO ₄	%	0.005	MCERTS	0.027
Acid Soluble Sulphur	%	0.003	NONE	0.009
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	110
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	57.4
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	57.4
Water Soluble Sulphur	%	0.0001	NONE	0.0038
Total Potential Sulphate	mg/kg	30	NONE	310
Total Potential Sulphate	%	0.003	NONE	0.031
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	36
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.004
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	7.2
Total Sulphur	mg/kg	50	MCERTS	100
Total Sulphur	%	0.005	MCERTS	0.01
Organic Matter (automated)	%	0.1	MCERTS	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
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Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number					742376
Sample Reference					C1583/264
Sample Number					X10-L10
Water Matrix					N/A
Depth (m)					None Supplied
Date Sampled					04/11/2025
Time Taken					None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-
Chromium (III)	mg/kg	1	NONE	-
Chromium (VI) by IC	mg/kg	1.8	NONE	-
Chromium (III) by IC	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_1D_TOTAL}	mg/kg	10	NONE	-
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	-
TPH (EC10 - EC40) _{EH,CU_1D_TOTAL}	mg/kg	10	MCERTS	-

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



4041

Analytical Report Number: **25-060338**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1200**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
742371	C1583/255	-	193	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile	0.008	0.008	15/11/2025	WEM
742372	C1583/256	-	210	Loose Fibres	Amosite & Chrysotile	0.001	0.001	15/11/2025	WEM

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

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

* 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 *
742371	C1583/255	Y14-L1	None Supplied	Brown loam and sand with vegetation and stones
742372	C1583/256	Z13-L2	None Supplied	Brown loam and sand with gravel and stones
742373	C1583/258	W8-L7	None Supplied	Brown clay
742374	C1583/259	X10-L8	None Supplied	Brown clay with vegetation
742375	C1583/260	W10-L7	None Supplied	Brown clay and sand with gravel and stones
742376	C1583/264	X10-L10	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060338

Project / Site name:	Dove Valley Park	Samples received on:	06/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	06/11/2025
Your order number:	SC1200	Analysis completed by:	16/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	6 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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742371	742372	742373	742374	742375
Sample Reference	C1583/255	C1583/256	C1583/258	C1583/259	C1583/260
Sample Number	Y14-L1	Z13-L2	W8-L7	X10-L8	W10-L7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	36.9	28.1	< 0.1	< 0.1	10.2
Mass of stone > 2 mm	%	0.1	NONE	-	-	27.7	1.7	18.5
Moisture Content	%	0.01	NONE	10	12	15	13	13
Total mass of sample received	kg	0.1	NONE	1.8	2	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	WEM	WEM	-	-	-
Analysis completed	N/A	N/A	N/A	15/11/2025	15/11/2025	-	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.008	0.001	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres, Loose Fibrous Debris	Loose Fibres	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	7.4	7.5	6.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	280	270	170
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	0.028	0.027	0.017
Acid Soluble Sulphur	%	0.003	NONE	-	-	0.009	0.009	0.006
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	110	99	48
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	55.3	49.5	24.1
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	55.3	49.5	24.1
Water Soluble Sulphur	%	0.0001	NONE	-	-	0.0037	0.0033	0.0016
Total Potential Sulphate	mg/kg	30	NONE	-	-	460	460	280
Total Potential Sulphate	%	0.003	NONE	-	-	0.046	0.046	0.028
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	180	190	110
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	0.018	0.019	0.011
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	5.9	2.5	13
Total Sulphur	mg/kg	50	MCERTS	-	-	150	150	95
Total Sulphur	%	0.005	MCERTS	-	-	0.015	0.015	0.009
Organic Matter (automated)	%	0.1	MCERTS	-	-	0.4	0.4	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
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Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742371	742372	742373	742374	742375
Sample Reference	C1583/255	C1583/256	C1583/258	C1583/259	C1583/260
Sample Number	Y14-L1	Z13-L2	W8-L7	X10-L8	W10-L7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.09	0.18	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.2	0.33	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.98	3.4	-	-	-
Fluorene	mg/kg	0.05	MCERTS	0.74	3.1	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	12	33	-	-	-
Anthracene	mg/kg	0.05	MCERTS	3.1	7.6	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	23	46	-	-	-
Pyrene	mg/kg	0.05	MCERTS	20	39	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	9.6	16	-	-	-
Chrysene	mg/kg	0.05	MCERTS	9	16	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	13	22	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4	7.1	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	9.5	17	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.4	8.4	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.85	1.5	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	5.2	9.6	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	115	230	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	20	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.1	2.4	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.9	1.9	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.5	1.8	-	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S ^{*U/S g}	U/S ^{*U/S g}	-	-	-
Chromium (III)	mg/kg	1	NONE	U/S ^{*U/S g}	U/S ^{*U/S g}	-	-	-
Chromium (VI) by IC	mg/kg	1.8	NONE	< 1.80	< 1.80	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	41	57	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	41	57	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	120	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	350	310	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	47	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.9	< 1.0	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	43	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	380	510	-	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	310	550	-	-	-
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	310	550	-	-	-

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

Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number	742376			
Sample Reference	C1583/264			
Sample Number	X10-L10			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	04/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	23
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.1	NONE	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-
Analysis completed	N/A	N/A	N/A	-
Actinolite detected	Type	N/A	ISO 17025	-
Amosite detected	Type	N/A	ISO 17025	-
Anthophyllite detected	Type	N/A	ISO 17025	-
Chrysotile detected	Type	N/A	ISO 17025	-
Crocidolite detected	Type	N/A	ISO 17025	-
Tremolite detected	Type	N/A	ISO 17025	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.4
Free Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	270
Total Sulphate as SO ₄	%	0.005	MCERTS	0.027
Acid Soluble Sulphur	%	0.003	NONE	0.009
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	110
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	57.4
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	57.4
Water Soluble Sulphur	%	0.0001	NONE	0.0038
Total Potential Sulphate	mg/kg	30	NONE	310
Total Potential Sulphate	%	0.003	NONE	0.031
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	36
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.004
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	7.2
Total Sulphur	mg/kg	50	MCERTS	100
Total Sulphur	%	0.005	MCERTS	0.01
Organic Matter (automated)	%	0.1	MCERTS	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
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Analytical Report Number: 25-060338
Project / Site name: Dove Valley Park
Your Order No: SC1200

Lab Sample Number					742376
Sample Reference					C1583/264
Sample Number					X10-L10
Water Matrix					N/A
Depth (m)					None Supplied
Date Sampled					04/11/2025
Time Taken					None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-
Chromium (III)	mg/kg	1	NONE	-
Chromium (VI) by IC	mg/kg	1.8	NONE	-
Chromium (III) by IC	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_1D_TOTAL}	mg/kg	10	NONE	-
Petroleum Range Organics (EC6 - EC10) _{HS_1D_TOTAL}	mg/kg	1	ISO 17025	-
TPH (EC10 - EC40) _{EH,CU_1D_TOTAL}	mg/kg	10	MCERTS	-

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



4041

Analytical Report Number: **25-060338**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1200**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
742371	C1583/255	-	193	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile	0.008	0.008	15/11/2025	WEM
742372	C1583/256	-	210	Loose Fibres	Amosite & Chrysotile	0.001	0.001	15/11/2025	WEM

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

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

* 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 *
742371	C1583/255	Y14-L1	None Supplied	Brown loam and sand with vegetation and stones
742372	C1583/256	Z13-L2	None Supplied	Brown loam and sand with gravel and stones
742373	C1583/258	W8-L7	None Supplied	Brown clay
742374	C1583/259	X10-L8	None Supplied	Brown clay with vegetation
742375	C1583/260	W10-L7	None Supplied	Brown clay and sand with gravel and stones
742376	C1583/264	X10-L10	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 25-060338

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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

Laboratory Report	ETS/24365-24366	Contract Sample No	C1583/270-271
Report Date	18 November 2025	ETS Contract No	C1583/270-271
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	06/11/2025	
	Date Received	06/11/2025	
	Date Completed	17/11/2025	
	Sample Location	See Below	
	Client Reference	C1583/270-271	
Dove Valley Park			



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-060513

ETS Number	Sample Number	Location	Material	Testing
ETS/24365	270	Y11 Layer 2	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/24366	271	X11 Layer 3	Brown Clay W/F-M Gravel (Class 7)	TRL 447, OM, PH, Chloride ION

Authorised Signatory



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060513

Project / Site name:	Dove Valley Park	Samples received on:	07/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	07/11/2025
Your order number:	SC1201	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	2 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060513
 Project / Site name: Dove Valley Park
 Your Order No: SC1201

Lab Sample Number				743334	743335
Sample Reference				C1583/270	C1583/271
Sample Number				Y11 - L2	X11 - L3
Water Matrix				N/A	N/A
Depth (m)				None Supplied	None Supplied
Date Sampled				06/11/2025	06/11/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	16.3
Mass of stone > 2 mm	%	0.1	NONE	21.7	33.1
Moisture Content	%	0.01	NONE	16	12
Total mass of sample received	kg	0.1	NONE	1.1	1.2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8	7.8
Total Sulphate as SO ₄	mg/kg	50	MCERTS	220	270
Total Sulphate as SO ₄	%	0.005	MCERTS	0.022	0.027
Acid Soluble Sulphur	%	0.003	NONE	0.007	0.009
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	42	93
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	20.8	46.7
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	20.8	46.7
Water Soluble Sulphur	%	0.0001	NONE	0.0014	0.0031
Total Potential Sulphate	mg/kg	30	NONE	320	410
Total Potential Sulphate	%	0.003	NONE	0.032	0.041
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	110	140
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.011	0.014
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	9.3	9.5
Total Sulphur	mg/kg	50	MCERTS	110	140
Total Sulphur	%	0.005	MCERTS	0.011	0.014
Organic Matter (automated)	%	0.1	MCERTS	0.1	0.3

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

Analytical Report Number : 25-060513

Project / Site name: Dove Valley Park

* 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 *
743334	C1583/270	Y11 - L2	None Supplied	Brown loam and clay with gravel
743335	C1583/271	X11 - L3	None Supplied	Brown clay and loam with gravel and stones

Analytical Report Number : 25-060513

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-060513

Project / Site name:	Dove Valley Park	Samples received on:	07/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	07/11/2025
Your order number:	SC1201	Analysis completed by:	17/11/2025
Report Issue Number:	1	Report issued on:	17/11/2025
Samples Analysed:	2 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-060513
Project / Site name: Dove Valley Park
Your Order No: SC1201

Lab Sample Number				743334	743335
Sample Reference				C1583/270	C1583/271
Sample Number				Y11 - L2	X11 - L3
Water Matrix				N/A	N/A
Depth (m)				None Supplied	None Supplied
Date Sampled				06/11/2025	06/11/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	16.3
Mass of stone > 2 mm	%	0.1	NONE	21.7	33.1
Moisture Content	%	0.01	NONE	16	12
Total mass of sample received	kg	0.1	NONE	1.1	1.2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8	7.8
Total Sulphate as SO ₄	mg/kg	50	MCERTS	220	270
Total Sulphate as SO ₄	%	0.005	MCERTS	0.022	0.027
Acid Soluble Sulphur	%	0.003	NONE	0.007	0.009
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	42	93
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	20.8	46.7
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	20.8	46.7
Water Soluble Sulphur	%	0.0001	NONE	0.0014	0.0031
Total Potential Sulphate	mg/kg	30	NONE	320	410
Total Potential Sulphate	%	0.003	NONE	0.032	0.041
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	110	140
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.011	0.014
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	9.3	9.5
Total Sulphur	mg/kg	50	MCERTS	110	140
Total Sulphur	%	0.005	MCERTS	0.011	0.014
Organic Matter (automated)	%	0.1	MCERTS	0.1	0.3

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

Analytical Report Number : 25-060513

Project / Site name: Dove Valley Park

* 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 *
743334	C1583/270	Y11 - L2	None Supplied	Brown loam and clay with gravel
743335	C1583/271	X11 - L3	None Supplied	Brown clay and loam with gravel and stones

Analytical Report Number : 25-060513

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-062412

Project / Site name:	Dove Valley Park	Samples received on:	18/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	18/11/2025
Your order number:	SC1236	Analysis completed by:	27/11/2025
Report Issue Number:	1	Report issued on:	27/11/2025
Samples Analysed:	1 soil sample		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-062412
Project / Site name: Dove Valley Park
Your Order No: SC1236

Lab Sample Number	753217			
Sample Reference	C1583/274/X14-L3			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	47.1
Moisture Content	%	0.01	NONE	15
Total mass of sample received	kg	0.1	NONE	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN
Analysis completed	N/A	N/A	N/A	25/11/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected
Amosite detected	Type	N/A	ISO 17025	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.005
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibrous Debris
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General Inorganics

Free Cyanide	mg/kg	1	MCERTS	< 1.0
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Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	0.07
Acenaphthylene	mg/kg	0.05	MCERTS	0.1
Acenaphthene	mg/kg	0.05	MCERTS	0.58
Fluorene	mg/kg	0.05	MCERTS	0.45
Phenanthrene	mg/kg	0.05	MCERTS	6.7
Anthracene	mg/kg	0.05	MCERTS	2
Fluoranthene	mg/kg	0.05	MCERTS	15
Pyrene	mg/kg	0.05	MCERTS	13
Benzo(a)anthracene	mg/kg	0.05	MCERTS	6.1
Chrysene	mg/kg	0.05	MCERTS	6.6
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	7.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	3.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	3.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.66
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.8

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	75.9
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Analytical Report Number: 25-062412
Project / Site name: Dove Valley Park
Your Order No: SC1236

Lab Sample Number	753217			
Sample Reference	C1583/274/X14-L3			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (III)	mg/kg	1	NONE	38
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.6
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	280

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH, CU+HS, ID, TOTAL}	mg/kg	10	NONE	120
Petroleum Range Organics (EC6 - EC10) _{HS, ID, TOTAL}	mg/kg	1	ISO 17025	< 1.0
TPH (EC10 - EC40) _{EH, CU, ID, TOTAL}	mg/kg	10	MCERTS	120

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



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Analytical Report Number: **25-062412**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1236**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
753217	C1583/274/ X14-L3	-	277	Loose Fibrous Debris	Chrysotile	0.005	0.005	25/11/2025	MJN

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



Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

* 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 *
753217	1583/274/X14-L	None Supplied	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025



Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Sample Deviation Report



Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

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

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

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
C1583/274/X14-L3	N/A	S	753217	c	Free cyanide in soil	L080-PL	c
C1583/274/X14-L3	N/A	S	753217	c	Monohydric phenols in soil	L080-PL	c
C1583/274/X14-L3	N/A	S	753217	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
C1583/274/X14-L3	N/A	S	753217	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
C1583/274/X14-L3	N/A	S	753217	c	Total petroleum hydrocarbons by HS-GC-MS in soil	L129-PL	c



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-062412

Project / Site name:	Dove Valley Park	Samples received on:	18/11/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	18/11/2025
Your order number:	SC1236	Analysis completed by:	27/11/2025
Report Issue Number:	1	Report issued on:	27/11/2025
Samples Analysed:	1 soil sample		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-062412
Project / Site name: Dove Valley Park
Your Order No: SC1236

Lab Sample Number	753217			
Sample Reference	C1583/274/X14-L3			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	47.1
Moisture Content	%	0.01	NONE	15
Total mass of sample received	kg	0.1	NONE	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN
Analysis completed	N/A	N/A	N/A	25/11/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected
Amosite detected	Type	N/A	ISO 17025	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.005
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibrous Debris
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General Inorganics

Free Cyanide	mg/kg	1	MCERTS	< 1.0
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Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	0.07
Acenaphthylene	mg/kg	0.05	MCERTS	0.1
Acenaphthene	mg/kg	0.05	MCERTS	0.58
Fluorene	mg/kg	0.05	MCERTS	0.45
Phenanthrene	mg/kg	0.05	MCERTS	6.7
Anthracene	mg/kg	0.05	MCERTS	2
Fluoranthene	mg/kg	0.05	MCERTS	15
Pyrene	mg/kg	0.05	MCERTS	13
Benzo(a)anthracene	mg/kg	0.05	MCERTS	6.1
Chrysene	mg/kg	0.05	MCERTS	6.6
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	7.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	3.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	3.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.66
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.8

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	75.9
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Analytical Report Number: 25-062412

Project / Site name: Dove Valley Park

Your Order No: SC1236

Lab Sample Number	753217			
Sample Reference	C1583/274/X14-L3			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/11/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (III)	mg/kg	1	NONE	38
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.6
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	280

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH, CU+HS, ID, TOTAL}	mg/kg	10	NONE	120
Petroleum Range Organics (EC6 - EC10) _{HS, ID, TOTAL}	mg/kg	1	ISO 17025	< 1.0
TPH (EC10 - EC40) _{EH, CU, ID, TOTAL}	mg/kg	10	MCERTS	120

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



4041



Analytical Report Number: **25-062412**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1236**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
753217	C1583/274/ X14-L3	-	277	Loose Fibrous Debris	Chrysotile	0.005	0.005	25/11/2025	MJN

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



Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

* 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 *
753217	1583/274/X14-L	None Supplied	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025



Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

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The result for sum should be interpreted with caution



Sample Deviation Report



Analytical Report Number : 25-062412

Project / Site name: Dove Valley Park

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

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

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
C1583/274/X14-L3	N/A	S	753217	c	Free cyanide in soil	L080-PL	c
C1583/274/X14-L3	N/A	S	753217	c	Monohydric phenols in soil	L080-PL	c
C1583/274/X14-L3	N/A	S	753217	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
C1583/274/X14-L3	N/A	S	753217	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
C1583/274/X14-L3	N/A	S	753217	c	Total petroleum hydrocarbons by HS-GC-MS in soil	L129-PL	c

Laboratory Report	ETS/25016-25017	Contract Sample No	C1583/331A-332C
Report Date	11 December 2025	ETS Contract No	C1583/331A-332C
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	03/12/2025	
	Date Received	03/12/2025	
	Date Completed	10/12/2025	
Dove Valley Park	Sample Location	See Below	
	Client Reference	C1583/331A-332C	



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-065634

ETS Number	Sample Number	Location	Material	Testing
ETS/25016	331A	Marl Pit - Stockpile 3	Brown Slightly Sandy Clay W/F-M Gravel (Made Ground)	OM
ETS/25016	331B	Marl Pit - Stockpile 3	Brown Slightly Sandy Clay W/F-M Gravel (Made Ground)	OM
ETS/25016	331C	Marl Pit - Stockpile 3	Brown Slightly Sandy Clay W/F-M Gravel (Made Ground)	OM
ETS/25017	332A	Marl Pit - Stockpile 4	Brown Slightly Sandy Clay W/F-M Gravel (Made Ground)	OM
ETS/25017	332B	Marl Pit - Stockpile 4	Brown Slightly Sandy Clay W/F-M Gravel (Made Ground)	OM
ETS/25017	332C	Marl Pit - Stockpile 4	Brown Slightly Sandy Clay W/F-M Gravel (Made Ground)	OM

Authorised Signatory





Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-065634

Project / Site name:	Dove Valley Park	Samples received on:	04/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	04/12/2025
Your order number:	SC1271	Analysis completed by:	10/12/2025
Report Issue Number:	1	Report issued on:	10/12/2025
Samples Analysed:	6 soil samples		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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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: 25-065634
 Project / Site name: Dove Valley Park
 Your Order No: SC1271

Lab Sample Number				771624	771625	771626	771627	771628
Sample Reference				C1583/331 A	C1583/331 B	C1583/331 C	C1583/332 A	C1583/332 B
Sample Number				Marl Pit - Stockpile 3	Marl Pit - Stockpile 3	Marl Pit - Stockpile 3	Marl Pit - Stockpile 4	Marl Pit - Stockpile 4
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/12/2025	03/12/2025	03/12/2025	03/12/2025	03/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	11.4
Moisture Content	%	0.01	NONE	19	21	19	27	22
Total mass of sample received	kg	0.1	NONE	0.2	0.2	0.2	0.2	0.2

General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3.8	3.8	4.8	7	4.7
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 25-065634
 Project / Site name: Dove Valley Park
 Your Order No: SC1271

Lab Sample Number		771629		
Sample Reference		C1583/332 C		
Sample Number		Mari Pit - Stockpile 4		
Water Matrix		N/A		
Depth (m)		None Supplied		
Date Sampled		03/12/2025		
Time Taken		None Supplied		
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	25
Total mass of sample received	kg	0.1	NONE	0.2

General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	5.8
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 25-065634

Project / Site name: Dove Valley Park

* 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 *
771624	C1583/331 A	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel
771625	C1583/331 B	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel
771626	C1583/331 C	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation
771627	C1583/332 A	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation
771628	C1583/332 B	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and stones
771629	C1583/332 C	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation



Analytical Report Number : 25-065634

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

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The result for sum should be interpreted with caution



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-065634

Project / Site name:	Dove Valley Park	Samples received on:	04/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	04/12/2025
Your order number:	SC1271	Analysis completed by:	10/12/2025
Report Issue Number:	1	Report issued on:	10/12/2025
Samples Analysed:	6 soil samples		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

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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
air	- once the analysis is complete

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An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-065634

Project / Site name: Dove Valley Park

Your Order No: SC1271

Lab Sample Number				771624	771625	771626	771627	771628
Sample Reference				C1583/331 A	C1583/331 B	C1583/331 C	C1583/332 A	C1583/332 B
Sample Number				Marl Pit - Stockpile 3	Marl Pit - Stockpile 3	Marl Pit - Stockpile 3	Marl Pit - Stockpile 4	Marl Pit - Stockpile 4
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/12/2025	03/12/2025	03/12/2025	03/12/2025	03/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	11.4
Moisture Content	%	0.01	NONE	19	21	19	27	22
Total mass of sample received	kg	0.1	NONE	0.2	0.2	0.2	0.2	0.2

General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3.8	3.8	4.8	7	4.7
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 25-065634

Project / Site name: Dove Valley Park

Your Order No: SC1271

Lab Sample Number				771629
Sample Reference				C1583/332 C
Sample Number				Mari Pit - Stockpile 4
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				03/12/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	25
Total mass of sample received	kg	0.1	NONE	0.2

General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	5.8
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 25-065634

Project / Site name: Dove Valley Park

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
771624	C1583/331 A	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel
771625	C1583/331 B	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel
771626	C1583/331 C	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation
771627	C1583/332 A	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation
771628	C1583/332 B	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and stones
771629	C1583/332 C	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-065634

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

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Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-065634

Project / Site name:	Dove Valley Park	Samples received on:	04/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	04/12/2025
Your order number:	SC1271	Analysis completed by:	10/12/2025
Report Issue Number:	1	Report issued on:	10/12/2025
Samples Analysed:	6 soil samples		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

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soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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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: 25-065634

Project / Site name: Dove Valley Park

Your Order No: SC1271

Lab Sample Number				771624	771625	771626	771627	771628
Sample Reference				C1583/331 A	C1583/331 B	C1583/331 C	C1583/332 A	C1583/332 B
Sample Number				Marl Pit - Stockpile 3	Marl Pit - Stockpile 3	Marl Pit - Stockpile 3	Marl Pit - Stockpile 4	Marl Pit - Stockpile 4
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/12/2025	03/12/2025	03/12/2025	03/12/2025	03/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	11.4
Moisture Content	%	0.01	NONE	19	21	19	27	22
Total mass of sample received	kg	0.1	NONE	0.2	0.2	0.2	0.2	0.2

General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	3.8	3.8	4.8	7	4.7
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U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 25-065634

Project / Site name: Dove Valley Park

Your Order No: SC1271

Lab Sample Number				771629
Sample Reference				C1583/332 C
Sample Number				Mari Pit - Stockpile 4
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				03/12/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	25
Total mass of sample received	kg	0.1	NONE	0.2

General Inorganics

Organic Matter (automated)	%	0.1	MCERTS	5.8
----------------------------	---	-----	--------	-----

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



Analytical Report Number : 25-065634

Project / Site name: Dove Valley Park

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
771624	C1583/331 A	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel
771625	C1583/331 B	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel
771626	C1583/331 C	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation
771627	C1583/332 A	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation
771628	C1583/332 B	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and stones
771629	C1583/332 C	arl Pit - Stockpile	None Supplied	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-065634

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

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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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/25257A-25266	Contract Sample No	C1583/336A-345
Report Date	05 January 2026	ETS Contract No	C1583/336A-345
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	10/12/2025	
	Date Received	11/12/2025	
	Date Completed	31/12/2025	
	Sample Location	See Below	
	Client Reference	C1583/336A-345	



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-067587

ETS Number	Sample Number	Location	Material	Testing
ETS/25257A	336A	Marl Pit SP5	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/25257B	336B	Marl Pit SP5	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/25257C	336C	Marl Pit SP5	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/25258A	337A	Marl Pit SP6	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/25258B	337B	Marl Pit SP6	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/25259	338	Marl Pit SP6C	Brown Clay W/F-M Gravel & Ash (Made Ground)	Site Specific Chemical Suite
ETS/25260A	339A	Marl Pit SP7	Brown Clay W/F-M Gravel & Ash (Made Ground)	Site Specific Chemical Suite
ETS/25260B	339B	Marl Pit SP7	Brown Clay W/F-M Gravel & Ash (Made Ground)	Site Specific Chemical Suite
ETS/25262	341	Z5 FFL	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/25263	342	Y4 FFL	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/25265	344	X5 FFL	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride ION
ETS/25266	345	W6 FFL	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride ION

Authorised Signatory

T. McDonald

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-067587

Project / Site name:	Dove Valley Park	Samples received on:	15/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	15/12/2025
Your order number:	SC1304	Analysis completed by:	30/12/2025
Report Issue Number:	1	Report issued on:	31/12/2025
Samples Analysed:	12 soil samples		



Signed:

Rafał Szczepańczyk
Technical Reviewer
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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782651	782652	782653	782654	782655
Sample Reference				C1583/336 A/ Marl Pit - Stockpile 5	C1583/336 B/ Marl Pit - Stockpile 5	C1583/336 C/ Marl Pit - Stockpile 5	C1583/337 A/ Marl Pit - Stockpile 6	C1583/337 B/ Marl Pit - Stockpile 6
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				10/12/2025	10/12/2025	10/12/2025	10/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	8.8	10.5	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	-	-
Moisture Content	%	0.01	NONE	24	25	26	26	25
Total mass of sample received	kg	0.1	NONE	1.7	1.7	1.7	1.9	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	SCA	SCA
Analysis completed	N/A	N/A	N/A	29/12/2025	29/12/2025	29/12/2025	29/12/2025	29/12/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	0.009	0.013	0.016	0.002
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	Loose Fibrous Debris	Loose Fibrous Debris	Loose Fibrous Debris	Loose Fibrous Debris, Loose Fibres
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	-	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	-	-
Total Potential Sulphate	%	0.003	NONE	-	-	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782651	782652	782653	782654	782655
Sample Reference				C1583/336 A/ Marl Pit - Stockpile 5	C1583/336 B/ Marl Pit - Stockpile 5	C1583/336 C/ Marl Pit - Stockpile 5	C1583/337 A/ Marl Pit - Stockpile 6	C1583/337 B/ Marl Pit - Stockpile 6
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				10/12/2025	10/12/2025	10/12/2025	10/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.3	0.37	0.39	0.33	0.14
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	0.1	0.12	0.12	0.06
Acenaphthene	mg/kg	0.05	MCERTS	0.85	1.1	2.4	1	0.31
Fluorene	mg/kg	0.05	MCERTS	0.89	1.4	3.4	1.4	0.27
Phenanthrene	mg/kg	0.05	MCERTS	7.6	8.3	24	14	2.6
Anthracene	mg/kg	0.05	MCERTS	2.4	2.3	8.8	5.7	0.7
Fluoranthene	mg/kg	0.05	MCERTS	12	13	34	23	6
Pyrene	mg/kg	0.05	MCERTS	11	12	28	19	5.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.5	5.5	12	8.5	2.8
Chrysene	mg/kg	0.05	MCERTS	5	4.9	12	7.5	2.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	5.9	5	10	7	3.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	2.4	2.4	4.4	3.4	1.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	5	4.1	8.2	5.6	2.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.1	1.8	3.1	2.5	1.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52	0.47	0.9	0.65	0.34
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.2	1.9	3.3	2.7	1.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	63.4	64.3	157	103	32.5
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	23	19	34	35
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.9	2.2	1.8	3	2.2
Boron (water soluble)	mg/kg	0.2	MCERTS	3.3	4	3.1	3.4	2.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7	1.9	1.6	2.7	3.7
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	3.8	< 1.8	2	< 1.8
Chromium (III)	mg/kg	1	NONE	71	84	110	88	99
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	71	88	110	88	99
Copper (aqua regia extractable)	mg/kg	1	MCERTS	230	180	160	310	370
Lead (aqua regia extractable)	mg/kg	1	MCERTS	690	460	580	1100	690
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	50	62	52	78	79
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.4
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	51	42	53	43
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	500	640	540	800	700

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	230	890	3400	670	710
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	1.5	< 1.0	< 1.0
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	230	890	3400	670	710

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

Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782656	782657	782658	782659	782660
Sample Reference				C1583/338/ Marl Pit - Stockpile 6C	C1583/339 A/ Marl Pit - Stockpile 7	C1583/339 B/ Marl Pit - Stockpile 7	C1583/341/ Z5 - FFL	C1583/342/ Y4 - FFL
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/12/2025	11/12/2025	11/12/2025	11/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	19.7	19.8	56
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	32.5	43.8
Moisture Content	%	0.01	NONE	26	24	21	13	8
Total mass of sample received	kg	0.1	NONE	2	1.8	1.7	1	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	-	-
Analysis completed	N/A	N/A	N/A	29/12/2025	29/12/2025	29/12/2025	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.014	0.002	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibrous Debris	Loose Fibrous Debris	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	12.3	12.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	1100	640
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	0.108	0.064
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	0.036	0.021
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	12	10
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	6.07	5.06
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	6.07	5.06
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	0.0004	0.0003
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	1200	700
Total Potential Sulphate	%	0.003	NONE	-	-	-	0.118	0.07
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	96	60
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	0.01	0.006
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	5.5	6.1
Total Sulphur	mg/kg	50	MCERTS	-	-	-	390	230
Total Sulphur	%	0.005	MCERTS	-	-	-	0.039	0.023
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	1.3	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number					782656	782657	782658	782659	782660
Sample Reference					C1583/338/ Marl Pit - Stockpile 6C	C1583/339 A/ Marl Pit - Stockpile 7	C1583/339 B/ Marl Pit - Stockpile 7	C1583/341/ Z5 - FFL	C1583/342/ Y4 - FFL
Sample Number					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix					N/A	N/A	N/A	N/A	N/A
Depth (m)					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					11/12/2025	11/12/2025	11/12/2025	11/12/2025	11/12/2025
Time Taken					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status						

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.38	0.07	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	1.5	0.15	0.13	-	-
Fluorene	mg/kg	0.05	MCERTS	1.7	0.18	0.15	-	-
Phenanthrene	mg/kg	0.05	MCERTS	12	0.66	0.82	-	-
Anthracene	mg/kg	0.05	MCERTS	4	0.16	0.35	-	-
Fluoranthene	mg/kg	0.05	MCERTS	20	0.89	1.4	-	-
Pyrene	mg/kg	0.05	MCERTS	16	0.72	1.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	8	0.3	0.65	-	-
Chrysene	mg/kg	0.05	MCERTS	7	0.33	0.66	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	7.4	0.44	0.91	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	3.4	0.15	0.27	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6	0.27	0.59	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.6	0.16	0.36	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52	< 0.05	0.11	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7	0.14	0.38	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	93.1	4.63	8.11	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	28	7.9	8.8	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.7	1.5	1.5	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3	7.5	6.1	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.2	0.4	0.5	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	2	< 1.8	< 1.8	-	-
Chromium (III)	mg/kg	1	NONE	78	41	40	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	78	41	40	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	250	49	77	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	630	53	120	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	59	32	31	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	48	38	37	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	810	130	240	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	1000	81	52	-	-
Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	1000	81	52	-	-

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

Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782661	782662
Sample Reference				C1583/344/ X5 - FFL	C1583/345 / W6 - FFL
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				None Supplied	None Supplied
Date Sampled				11/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	38.8	42.6
Mass of stone > 2 mm	%	0.1	NONE	34.9	27.3
Moisture Content	%	0.01	NONE	14	16
Total mass of sample received	kg	0.1	NONE	1	1.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-
Analysis completed	N/A	N/A	N/A	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.1	11
Free Cyanide	mg/kg	1	MCERTS	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000	1400
Total Sulphate as SO ₄	%	0.005	MCERTS	0.1	0.14
Acid Soluble Sulphur	%	0.003	NONE	0.033	0.047
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	570
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	69.7	286
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	69.7	286
Water Soluble Sulphur	%	0.0001	NONE	0.0046	0.0191
Total Potential Sulphate	mg/kg	30	NONE	1000	1700
Total Potential Sulphate	%	0.003	NONE	0.101	0.172
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	< 20	320
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	< 0.002	0.032
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.1	13
Total Sulphur	mg/kg	50	MCERTS	340	570
Total Sulphur	%	0.005	MCERTS	0.034	0.057
Organic Matter (automated)	%	0.1	MCERTS	1	1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782661	782662
Sample Reference	C1583/344/ X5 - FFL	C1583/345 / W6 - FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	11/12/2025	11/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection Test Accreditation Status

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-
Chromium (III)	mg/kg	1	NONE	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	-	-
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	-	-
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	-	-

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



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Analytical Report Number: **25-067587**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1304**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
782651	C1583/336 A/ Marl Pit - Stockpile 5	-	192	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001	29/12/2025	SCA
782652	C1583/336 B/ Marl Pit - Stockpile 5	-	186	Loose Fibrous Debris	Amosite & Chrysotile	0.009	0.009	29/12/2025	SCA
782653	C1583/336 C/ Marl Pit - Stockpile 5	-	196	Loose Fibrous Debris	Amosite & Chrysotile	0.013	0.013	29/12/2025	SCA
782654	C1583/337 A/ Marl Pit - Stockpile 6	-	233	Loose Fibrous Debris	Amosite & Chrysotile	0.016	0.016	29/12/2025	SCA
782655	C1583/337 B/ Marl Pit - Stockpile 6	-	258	Loose Fibrous Debris, Loose Fibres	Amosite & Chrysotile & Crocidolite	0.002	0.002	29/12/2025	SCA
782656	C1583/338/ Marl Pit - Stockpile 6C	-	241	Loose Fibrous Debris	Amosite & Chrysotile	0.014	0.014	29/12/2025	SCA
782657	C1583/339 A/ Marl Pit - Stockpile 7	-	210	Loose Fibrous Debris	Chrysotile	0.002	0.002	29/12/2025	SCA

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

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

* 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 *
782651	86 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with stones and gravel
782652	86 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel and stones
782653	86 C/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782654	87 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782655	87 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
782656	88/ Marl Pit - Sto	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
782657	89 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782658	89 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with stones and gravel
782659	1583/341/ Z5 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782660	1583/342/ Y4 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782661	1583/344/ X5 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782662	1583/345/ W6- F	None Supplied	None Supplied	Brown sand with stones and gravel

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-067587

Project / Site name:	Dove Valley Park	Samples received on:	15/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	15/12/2025
Your order number:	SC1304	Analysis completed by:	30/12/2025
Report Issue Number:	1	Report issued on:	31/12/2025
Samples Analysed:	12 soil samples		



Signed:

Rafał Szczepańczyk
Technical Reviewer
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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782651	782652	782653	782654	782655
Sample Reference				C1583/336 A/ Marl Pit - Stockpile 5	C1583/336 B/ Marl Pit - Stockpile 5	C1583/336 C/ Marl Pit - Stockpile 5	C1583/337 A/ Marl Pit - Stockpile 6	C1583/337 B/ Marl Pit - Stockpile 6
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				10/12/2025	10/12/2025	10/12/2025	10/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	8.8	10.5	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	-	-
Moisture Content	%	0.01	NONE	24	25	26	26	25
Total mass of sample received	kg	0.1	NONE	1.7	1.7	1.7	1.9	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	SCA	SCA
Analysis completed	N/A	N/A	N/A	29/12/2025	29/12/2025	29/12/2025	29/12/2025	29/12/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	0.009	0.013	0.016	0.002
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	Loose Fibrous Debris	Loose Fibrous Debris	Loose Fibrous Debris	Loose Fibrous Debris, Loose Fibres
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	-	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	-	-
Total Potential Sulphate	%	0.003	NONE	-	-	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782651				782652	782653	782654	782655
Sample Reference	C1583/336 A/ Marl Pit - Stockpile 5				C1583/336 B/ Marl Pit - Stockpile 5	C1583/336 C/ Marl Pit - Stockpile 5	C1583/337 A/ Marl Pit - Stockpile 6	C1583/337 B/ Marl Pit - Stockpile 6
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A				N/A	N/A	N/A	N/A
Depth (m)	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	10/12/2025				10/12/2025	10/12/2025	10/12/2025	11/12/2025
Time Taken	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.3	0.37	0.39	0.33	0.14
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	0.1	0.12	0.12	0.06
Acenaphthene	mg/kg	0.05	MCERTS	0.85	1.1	2.4	1	0.31
Fluorene	mg/kg	0.05	MCERTS	0.89	1.4	3.4	1.4	0.27
Phenanthrene	mg/kg	0.05	MCERTS	7.6	8.3	24	14	2.6
Anthracene	mg/kg	0.05	MCERTS	2.4	2.3	8.8	5.7	0.7
Fluoranthene	mg/kg	0.05	MCERTS	12	13	34	23	6
Pyrene	mg/kg	0.05	MCERTS	11	12	28	19	5.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.5	5.5	12	8.5	2.8
Chrysene	mg/kg	0.05	MCERTS	5	4.9	12	7.5	2.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	5.9	5	10	7	3.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	2.4	2.4	4.4	3.4	1.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	5	4.1	8.2	5.6	2.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.1	1.8	3.1	2.5	1.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52	0.47	0.9	0.65	0.34
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.2	1.9	3.3	2.7	1.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	63.4	64.3	157	103	32.5
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	23	19	34	35
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.9	2.2	1.8	3	2.2
Boron (water soluble)	mg/kg	0.2	MCERTS	3.3	4	3.1	3.4	2.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7	1.9	1.6	2.7	3.7
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	3.8	< 1.8	2	< 1.8
Chromium (III)	mg/kg	1	NONE	71	84	110	88	99
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	71	88	110	88	99
Copper (aqua regia extractable)	mg/kg	1	MCERTS	230	180	160	310	370
Lead (aqua regia extractable)	mg/kg	1	MCERTS	690	460	580	1100	690
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	50	62	52	78	79
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.4
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	51	42	53	43
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	500	640	540	800	700

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	230	890	3400	670	710
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	1.5	< 1.0	< 1.0
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	230	890	3400	670	710

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

Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782656	782657	782658	782659	782660
Sample Reference				C1583/338/ Marl Pit - Stockpile 6C	C1583/339 A/ Marl Pit - Stockpile 7	C1583/339 B/ Marl Pit - Stockpile 7	C1583/341/ Z5 - FFL	C1583/342/ Y4 - FFL
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/12/2025	11/12/2025	11/12/2025	11/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	19.7	19.8	56
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	32.5	43.8
Moisture Content	%	0.01	NONE	26	24	21	13	8
Total mass of sample received	kg	0.1	NONE	2	1.8	1.7	1	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	-	-
Analysis completed	N/A	N/A	N/A	29/12/2025	29/12/2025	29/12/2025	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.014	0.002	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibrous Debris	Loose Fibrous Debris	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	12.3	12.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	1100	640
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	0.108	0.064
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	0.036	0.021
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	12	10
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	6.07	5.06
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	6.07	5.06
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	0.0004	0.0003
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	1200	700
Total Potential Sulphate	%	0.003	NONE	-	-	-	0.118	0.07
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	96	60
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	0.01	0.006
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	5.5	6.1
Total Sulphur	mg/kg	50	MCERTS	-	-	-	390	230
Total Sulphur	%	0.005	MCERTS	-	-	-	0.039	0.023
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	1.3	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782656			782657	782658	782659	782660
Sample Reference	C1583/338/ Marl Pit - Stockpile 6C			C1583/339 A/ Marl Pit - Stockpile 7	C1583/339 B/ Marl Pit - Stockpile 7	C1583/341/ Z5 - FFL	C1583/342/ Y4 - FFL
Sample Number	None Supplied			None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A			N/A	N/A	N/A	N/A
Depth (m)	None Supplied			None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	11/12/2025			11/12/2025	11/12/2025	11/12/2025	11/12/2025
Time Taken	None Supplied			None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.38	0.07	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	1.5	0.15	0.13	-	-
Fluorene	mg/kg	0.05	MCERTS	1.7	0.18	0.15	-	-
Phenanthrene	mg/kg	0.05	MCERTS	12	0.66	0.82	-	-
Anthracene	mg/kg	0.05	MCERTS	4	0.16	0.35	-	-
Fluoranthene	mg/kg	0.05	MCERTS	20	0.89	1.4	-	-
Pyrene	mg/kg	0.05	MCERTS	16	0.72	1.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	8	0.3	0.65	-	-
Chrysene	mg/kg	0.05	MCERTS	7	0.33	0.66	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	7.4	0.44	0.91	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	3.4	0.15	0.27	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6	0.27	0.59	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.6	0.16	0.36	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52	< 0.05	0.11	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7	0.14	0.38	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	93.1	4.63	8.11	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	28	7.9	8.8	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.7	1.5	1.5	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3	7.5	6.1	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.2	0.4	0.5	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	2	< 1.8	< 1.8	-	-
Chromium (III)	mg/kg	1	NONE	78	41	40	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	78	41	40	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	250	49	77	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	630	53	120	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	59	32	31	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	48	38	37	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	810	130	240	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	1000	81	52	-	-
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	1000	81	52	-	-

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

Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782661	782662
Sample Reference	C1583/344/ X5 - FFL	C1583/345 / W6 - FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	11/12/2025	11/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection Test Accreditation Status

Stone Content	%	0.1	NONE	38.8	42.6
Mass of stone > 2 mm	%	0.1	NONE	34.9	27.3
Moisture Content	%	0.01	NONE	14	16
Total mass of sample received	kg	0.1	NONE	1	1.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-
Analysis completed	N/A	N/A	N/A	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.1	11
Free Cyanide	mg/kg	1	MCERTS	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000	1400
Total Sulphate as SO ₄	%	0.005	MCERTS	0.1	0.14
Acid Soluble Sulphur	%	0.003	NONE	0.033	0.047
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	570
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	69.7	286
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	69.7	286
Water Soluble Sulphur	%	0.0001	NONE	0.0046	0.0191
Total Potential Sulphate	mg/kg	30	NONE	1000	1700
Total Potential Sulphate	%	0.003	NONE	0.101	0.172
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	< 20	320
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	< 0.002	0.032
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.1	13
Total Sulphur	mg/kg	50	MCERTS	340	570
Total Sulphur	%	0.005	MCERTS	0.034	0.057
Organic Matter (automated)	%	0.1	MCERTS	1	1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782661	782662
Sample Reference	C1583/344/ X5 - FFL	C1583/345 / W6 - FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	11/12/2025	11/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection Test Accreditation Status

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-
Chromium (III)	mg/kg	1	NONE	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	-	-
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	-	-
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	-	-

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



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Analytical Report Number: **25-067587**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1304**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
782651	C1583/336 A/ Marl Pit - Stockpile 5	-	192	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001	29/12/2025	SCA
782652	C1583/336 B/ Marl Pit - Stockpile 5	-	186	Loose Fibrous Debris	Amosite & Chrysotile	0.009	0.009	29/12/2025	SCA
782653	C1583/336 C/ Marl Pit - Stockpile 5	-	196	Loose Fibrous Debris	Amosite & Chrysotile	0.013	0.013	29/12/2025	SCA
782654	C1583/337 A/ Marl Pit - Stockpile 6	-	233	Loose Fibrous Debris	Amosite & Chrysotile	0.016	0.016	29/12/2025	SCA
782655	C1583/337 B/ Marl Pit - Stockpile 6	-	258	Loose Fibrous Debris, Loose Fibres	Amosite & Chrysotile & Crocidolite	0.002	0.002	29/12/2025	SCA
782656	C1583/338/ Marl Pit - Stockpile 6C	-	241	Loose Fibrous Debris	Amosite & Chrysotile	0.014	0.014	29/12/2025	SCA
782657	C1583/339 A/ Marl Pit - Stockpile 7	-	210	Loose Fibrous Debris	Chrysotile	0.002	0.002	29/12/2025	SCA

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

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

* 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 *
782651	86 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with stones and gravel
782652	86 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel and stones
782653	86 C/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782654	87 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782655	87 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
782656	88/ Marl Pit - Sto	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
782657	89 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782658	89 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with stones and gravel
782659	1583/341/ Z5 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782660	1583/342/ Y4 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782661	1583/344/ X5 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782662	1583/345/ W6- F	None Supplied	None Supplied	Brown sand with stones and gravel

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-067587

Project / Site name:	Dove Valley Park	Samples received on:	15/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	15/12/2025
Your order number:	SC1304	Analysis completed by:	30/12/2025
Report Issue Number:	1	Report issued on:	31/12/2025
Samples Analysed:	12 soil samples		



Signed:

Rafał Szczepańczyk
Technical Reviewer
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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782651	782652	782653	782654	782655
Sample Reference				C1583/336 A/ Marl Pit - Stockpile 5	C1583/336 B/ Marl Pit - Stockpile 5	C1583/336 C/ Marl Pit - Stockpile 5	C1583/337 A/ Marl Pit - Stockpile 6	C1583/337 B/ Marl Pit - Stockpile 6
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				10/12/2025	10/12/2025	10/12/2025	10/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	8.8	10.5	< 0.1	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	-	-
Moisture Content	%	0.01	NONE	24	25	26	26	25
Total mass of sample received	kg	0.1	NONE	1.7	1.7	1.7	1.9	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	SCA	SCA
Analysis completed	N/A	N/A	N/A	29/12/2025	29/12/2025	29/12/2025	29/12/2025	29/12/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	0.009	0.013	0.016	0.002
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	Loose Fibrous Debris	Loose Fibrous Debris	Loose Fibrous Debris	Loose Fibrous Debris, Loose Fibres
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	-	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	-	-
Total Potential Sulphate	%	0.003	NONE	-	-	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782651	782652	782653	782654	782655
Sample Reference	C1583/336 A/ Marl Pit - Stockpile 5	C1583/336 B/ Marl Pit - Stockpile 5	C1583/336 C/ Marl Pit - Stockpile 5	C1583/337 A/ Marl Pit - Stockpile 6	C1583/337 B/ Marl Pit - Stockpile 6
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	10/12/2025	10/12/2025	10/12/2025	10/12/2025	11/12/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.3	0.37	0.39	0.33	0.14
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	0.1	0.12	0.12	0.06
Acenaphthene	mg/kg	0.05	MCERTS	0.85	1.1	2.4	1	0.31
Fluorene	mg/kg	0.05	MCERTS	0.89	1.4	3.4	1.4	0.27
Phenanthrene	mg/kg	0.05	MCERTS	7.6	8.3	24	14	2.6
Anthracene	mg/kg	0.05	MCERTS	2.4	2.3	8.8	5.7	0.7
Fluoranthene	mg/kg	0.05	MCERTS	12	13	34	23	6
Pyrene	mg/kg	0.05	MCERTS	11	12	28	19	5.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.5	5.5	12	8.5	2.8
Chrysene	mg/kg	0.05	MCERTS	5	4.9	12	7.5	2.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	5.9	5	10	7	3.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	2.4	2.4	4.4	3.4	1.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	5	4.1	8.2	5.6	2.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.1	1.8	3.1	2.5	1.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52	0.47	0.9	0.65	0.34
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.2	1.9	3.3	2.7	1.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	63.4	64.3	157	103	32.5
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	23	19	34	35
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.9	2.2	1.8	3	2.2
Boron (water soluble)	mg/kg	0.2	MCERTS	3.3	4	3.1	3.4	2.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7	1.9	1.6	2.7	3.7
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	3.8	< 1.8	2	< 1.8
Chromium (III)	mg/kg	1	NONE	71	84	110	88	99
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	71	88	110	88	99
Copper (aqua regia extractable)	mg/kg	1	MCERTS	230	180	160	310	370
Lead (aqua regia extractable)	mg/kg	1	MCERTS	690	460	580	1100	690
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	50	62	52	78	79
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.4
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	51	42	53	43
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	500	640	540	800	700

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	230	890	3400	670	710
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	1.5	< 1.0	< 1.0
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	230	890	3400	670	710

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

Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number				782656	782657	782658	782659	782660
Sample Reference				C1583/338/ Marl Pit - Stockpile 6C	C1583/339 A/ Marl Pit - Stockpile 7	C1583/339 B/ Marl Pit - Stockpile 7	C1583/341/ Z5 - FFL	C1583/342/ Y4 - FFL
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/12/2025	11/12/2025	11/12/2025	11/12/2025	11/12/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	19.7	19.8	56
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	32.5	43.8
Moisture Content	%	0.01	NONE	26	24	21	13	8
Total mass of sample received	kg	0.1	NONE	2	1.8	1.7	1	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	-	-
Analysis completed	N/A	N/A	N/A	29/12/2025	29/12/2025	29/12/2025	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.014	0.002	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibrous Debris	Loose Fibrous Debris	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	12.3	12.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	1100	640
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	0.108	0.064
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	0.036	0.021
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	12	10
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	6.07	5.06
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	6.07	5.06
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	0.0004	0.0003
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	1200	700
Total Potential Sulphate	%	0.003	NONE	-	-	-	0.118	0.07
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	96	60
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	0.01	0.006
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	5.5	6.1
Total Sulphur	mg/kg	50	MCERTS	-	-	-	390	230
Total Sulphur	%	0.005	MCERTS	-	-	-	0.039	0.023
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	1.3	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number					782656	782657	782658	782659	782660
Sample Reference					C1583/338/ Marl Pit - Stockpile 6C	C1583/339 A/ Marl Pit - Stockpile 7	C1583/339 B/ Marl Pit - Stockpile 7	C1583/341/ Z5 - FFL	C1583/342/ Y4 - FFL
Sample Number					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix					N/A	N/A	N/A	N/A	N/A
Depth (m)					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					11/12/2025	11/12/2025	11/12/2025	11/12/2025	11/12/2025
Time Taken					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status						

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.38	0.07	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	1.5	0.15	0.13	-	-
Fluorene	mg/kg	0.05	MCERTS	1.7	0.18	0.15	-	-
Phenanthrene	mg/kg	0.05	MCERTS	12	0.66	0.82	-	-
Anthracene	mg/kg	0.05	MCERTS	4	0.16	0.35	-	-
Fluoranthene	mg/kg	0.05	MCERTS	20	0.89	1.4	-	-
Pyrene	mg/kg	0.05	MCERTS	16	0.72	1.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	8	0.3	0.65	-	-
Chrysene	mg/kg	0.05	MCERTS	7	0.33	0.66	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	7.4	0.44	0.91	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	3.4	0.15	0.27	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	6	0.27	0.59	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.6	0.16	0.36	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.52	< 0.05	0.11	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7	0.14	0.38	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	93.1	4.63	8.11	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	28	7.9	8.8	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.7	1.5	1.5	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3	7.5	6.1	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.2	0.4	0.5	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	2	< 1.8	< 1.8	-	-
Chromium (III)	mg/kg	1	NONE	78	41	40	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	78	41	40	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	250	49	77	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	630	53	120	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	59	32	31	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	48	38	37	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	810	130	240	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	1000	81	52	-	-
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	1000	81	52	-	-

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

Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782661	782662
Sample Reference	C1583/344/ X5 - FFL	C1583/345 / W6 - FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	11/12/2025	11/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection Test Accreditation Status

Stone Content	%	0.1	NONE	38.8	42.6
Mass of stone > 2 mm	%	0.1	NONE	34.9	27.3
Moisture Content	%	0.01	NONE	14	16
Total mass of sample received	kg	0.1	NONE	1	1.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-
Analysis completed	N/A	N/A	N/A	-	-
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.1	11
Free Cyanide	mg/kg	1	MCERTS	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000	1400
Total Sulphate as SO ₄	%	0.005	MCERTS	0.1	0.14
Acid Soluble Sulphur	%	0.003	NONE	0.033	0.047
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	140	570
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	69.7	286
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	69.7	286
Water Soluble Sulphur	%	0.0001	NONE	0.0046	0.0191
Total Potential Sulphate	mg/kg	30	NONE	1000	1700
Total Potential Sulphate	%	0.003	NONE	0.101	0.172
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	< 20	320
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	< 0.002	0.032
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.1	13
Total Sulphur	mg/kg	50	MCERTS	340	570
Total Sulphur	%	0.005	MCERTS	0.034	0.057
Organic Matter (automated)	%	0.1	MCERTS	1	1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-
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Analytical Report Number: 25-067587
Project / Site name: Dove Valley Park
Your Order No: SC1304

Lab Sample Number	782661	782662
Sample Reference	C1583/344/ X5 - FFL	C1583/345 / W6 - FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	11/12/2025	11/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection Test Accreditation Status

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-
Chromium (III)	mg/kg	1	NONE	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-

Petroleum Hydrocarbons

TPH Total >EC6 - EC40 _{EH,CU+HS_ID_TOTAL}	mg/kg	10	NONE	-	-
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Petroleum Range Organics (EC6 - EC10) _{HS_ID_TOTAL}	mg/kg	1	ISO 17025	-	-
TPH (EC10 - EC40) _{EH,CU_ID_TOTAL}	mg/kg	10	MCERTS	-	-

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



4041

Analytical Report Number: **25-067587**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1304**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
782651	C1583/336 A/ Marl Pit - Stockpile 5	-	192	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001	29/12/2025	SCA
782652	C1583/336 B/ Marl Pit - Stockpile 5	-	186	Loose Fibrous Debris	Amosite & Chrysotile	0.009	0.009	29/12/2025	SCA
782653	C1583/336 C/ Marl Pit - Stockpile 5	-	196	Loose Fibrous Debris	Amosite & Chrysotile	0.013	0.013	29/12/2025	SCA
782654	C1583/337 A/ Marl Pit - Stockpile 6	-	233	Loose Fibrous Debris	Amosite & Chrysotile	0.016	0.016	29/12/2025	SCA
782655	C1583/337 B/ Marl Pit - Stockpile 6	-	258	Loose Fibrous Debris, Loose Fibres	Amosite & Chrysotile & Crocidolite	0.002	0.002	29/12/2025	SCA
782656	C1583/338/ Marl Pit - Stockpile 6C	-	241	Loose Fibrous Debris	Amosite & Chrysotile	0.014	0.014	29/12/2025	SCA
782657	C1583/339 A/ Marl Pit - Stockpile 7	-	210	Loose Fibrous Debris	Chrysotile	0.002	0.002	29/12/2025	SCA

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

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

* 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 *
782651	86 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with stones and gravel
782652	86 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel and stones
782653	86 C/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782654	87 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782655	87 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
782656	88/ Marl Pit - Sto	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
782657	89 A/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with gravel
782658	89 B/ Marl Pit - S	None Supplied	None Supplied	Brown clay and sand with stones and gravel
782659	1583/341/ Z5 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782660	1583/342/ Y4 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782661	1583/344/ X5 - F	None Supplied	None Supplied	Brown sand with stones and gravel
782662	1583/345/ W6- F	None Supplied	None Supplied	Brown sand with stones and gravel

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS

Analytical Report Number : 25-067587

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/25374-25375	Contract Sample No	C1583/349-350
Report Date	05 January 2026	ETS Contract No	C1583/349-350
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	12/12/2025	
	Date Received	12/12/2025	
	Date Completed	30/12/2025	
	Sample Location	See Below	
	Client Reference	C1583/349-350	
Dove Valley Park			



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-067881

ETS Number	Sample Number	Location	Material	Testing
ETS/25374	349	V9 L1	Brown Clay W/F-M Gravel 2% Lime Class 7	OM, PH, Chloride ION
ETS/25375	350	T7 7-FFL	Brown Clay W/F-M Gravel 2% Lime Class 7	OM, PH, Chloride ION

Authorised Signatory

T. McDonald



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

t: 01923 225404

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-067881

Project / Site name:	Dove Valley Park	Samples received on:	16/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	16/12/2025
Your order number:	SC1312	Analysis completed by:	30/12/2025
Report Issue Number:	1	Report issued on:	30/12/2025
Samples Analysed:	2 soil samples		

Signed:

Rachel Chappell
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-067881
Project / Site name: Dove Valley Park
Your Order No: SC1312

Lab Sample Number	784010	784011
Sample Reference	C1583/349/V9 L1	C1583/350/T7 7-FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	12/12/2025	12/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	30	36.9
Moisture Content	%	0.01	NONE	19	19
Total mass of sample received	kg	0.1	NONE	0.9	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.2
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2900	2800
Total Sulphate as SO ₄	%	0.005	MCERTS	0.288	0.28
Acid Soluble Sulphur	%	0.003	NONE	0.096	0.093
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	20	41
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	9.99	20.7
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	9.99	20.7
Water Soluble Sulphur	%	0.0001	NONE	0.0007	0.0014
Total Potential Sulphate	mg/kg	30	NONE	3400	3400
Total Potential Sulphate	%	0.003	NONE	0.336	0.336
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	480	560
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.048	0.056
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	14	37
Total Sulphur	mg/kg	50	MCERTS	1100	1100
Total Sulphur	%	0.005	MCERTS	0.112	0.112
Organic Matter (automated)	%	0.1	MCERTS	0.8	0.6

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



Analytical Report Number : 25-067881

Project / Site name: Dove Valley Park

* 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 *
784010	C1583/349/V9 L	None Supplied	None Supplied	Brown clay and sand with gravel
784011	C1583/350/T7 7-F	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-067881
Project / Site name: Dove Valley Park

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS



Analytical Report Number : 25-067881
Project / Site name: Dove Valley Park

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution



Earthworks Testing Ltd
Unit 6, Eco Way
Duncroft
Doncaster
DN7 4JJ

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

t:

t: 01923 225404

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-067881

Project / Site name:	Dove Valley Park	Samples received on:	16/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	16/12/2025
Your order number:	SC1312	Analysis completed by:	30/12/2025
Report Issue Number:	1	Report issued on:	30/12/2025
Samples Analysed:	2 soil samples		

Signed:

Rachel Chappell
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting
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Some records may be kept for longer according to other legal/best practice requirements.

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: 25-067881

Project / Site name: Dove Valley Park

Your Order No: SC1312

Lab Sample Number	784010	784011
Sample Reference	C1583/349/V9 L1	C1583/350/T7 7-FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	12/12/2025	12/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	30	36.9
Moisture Content	%	0.01	NONE	19	19
Total mass of sample received	kg	0.1	NONE	0.9	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.2
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2900	2800
Total Sulphate as SO ₄	%	0.005	MCERTS	0.288	0.28
Acid Soluble Sulphur	%	0.003	NONE	0.096	0.093
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	20	41
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	9.99	20.7
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	9.99	20.7
Water Soluble Sulphur	%	0.0001	NONE	0.0007	0.0014
Total Potential Sulphate	mg/kg	30	NONE	3400	3400
Total Potential Sulphate	%	0.003	NONE	0.336	0.336
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	480	560
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.048	0.056
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	14	37
Total Sulphur	mg/kg	50	MCERTS	1100	1100
Total Sulphur	%	0.005	MCERTS	0.112	0.112
Organic Matter (automated)	%	0.1	MCERTS	0.8	0.6

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



Analytical Report Number : 25-067881

Project / Site name: Dove Valley Park

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
784010	C1583/349/V9 L	None Supplied	None Supplied	Brown clay and sand with gravel
784011	C1583/350/T7 7-F	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-067881

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS



Analytical Report Number : 25-067881
Project / Site name: Dove Valley Park

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

t: 01923 225404

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-067881

Project / Site name:	Dove Valley Park	Samples received on:	16/12/2025
Your job number:	C1583	Samples instructed on/ Analysis started on:	16/12/2025
Your order number:	SC1312	Analysis completed by:	30/12/2025
Report Issue Number:	1	Report issued on:	30/12/2025
Samples Analysed:	2 soil samples		

Signed:

Rachel Chappell
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-067881
Project / Site name: Dove Valley Park
Your Order No: SC1312

Lab Sample Number	784010	784011
Sample Reference	C1583/349/V9 L1	C1583/350/T7 7-FFL
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	12/12/2025	12/12/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	30	36.9
Moisture Content	%	0.01	NONE	19	19
Total mass of sample received	kg	0.1	NONE	0.9	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.2
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2900	2800
Total Sulphate as SO ₄	%	0.005	MCERTS	0.288	0.28
Acid Soluble Sulphur	%	0.003	NONE	0.096	0.093
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	20	41
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	9.99	20.7
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	9.99	20.7
Water Soluble Sulphur	%	0.0001	NONE	0.0007	0.0014
Total Potential Sulphate	mg/kg	30	NONE	3400	3400
Total Potential Sulphate	%	0.003	NONE	0.336	0.336
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	480	560
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.048	0.056
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	14	37
Total Sulphur	mg/kg	50	MCERTS	1100	1100
Total Sulphur	%	0.005	MCERTS	0.112	0.112
Organic Matter (automated)	%	0.1	MCERTS	0.8	0.6

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



Analytical Report Number : 25-067881

Project / Site name: Dove Valley Park

* 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 *
784010	C1583/349/V9 L1	None Supplied	None Supplied	Brown clay and sand with gravel
784011	C1583/350/T7 7-F	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 25-067881
Project / Site name: Dove Valley Park

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS



Analytical Report Number : 25-067881
Project / Site name: Dove Valley Park

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Preliminary Report Number : 26-000674

Project / Site name:	Dove Valley Park	Samples received on:	08/01/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	08/01/2026
Your order number:	SC1344	Analysis completed by:	Not complete
Report Issue Number:	0	Report issued on:	16/01/2026
Samples Analysed:	11 soil samples		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Preliminary reports provided at the request of the client should be considered as incomplete and have not been through the complete quality control procedure.

Results contained in preliminary reports may be subject to change and therefore should not be used as a basis for decision making, except at the risk of the client.

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: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796021	796022	796023	796024	796025
Sample Reference	C1583/363	C1583/364	C1583/365 A	C1583/365 B	C1583/365 C
Sample Number	X9 L1	W9 L6	Marl Pit - SP8	Marl Pit - SP8	Marl Pit - SP8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	06/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	24.4	24.5
Mass of stone > 2 mm	%	0.1	NONE	31.5	32.6	-	-	-
Moisture Content	%	0.01	NONE	17	16	21	20	18
Total mass of sample received	kg	0.1	NONE	0.9	1	2	2	< 0.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	Detected	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	-	-	MJN	MJN	MJN
Analysis completed	N/A	N/A	N/A	-	-	14/01/2026	14/01/2026	14/01/2026
Actinolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	Detected	Detected	Detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	Not-detected	Detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	< 0.001	< 0.001	0.001
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	Loose Fibres	Loose Fibres	Loose Fibres, Loose Fibrous Debris
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.3	-	-	-
Free Cyanide	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000	1200	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.1	0.116	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	0.033	0.039	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	17	10	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	8.45	5.18	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	8.45	5.18	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	0.0006	0.0003	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	1100	1200	-	-	-
Total Potential Sulphate	%	0.003	NONE	0.109	0.123	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	89	72	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.009	0.007	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	5.8	6.6	-	-	-
Total Sulphur	mg/kg	50	MCERTS	360	410	-	-	-
Total Sulphur	%	0.005	MCERTS	0.036	0.041	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	1.1	1.2	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796021	796022	796023	796024	796025
Sample Reference	C1583/363	C1583/364	C1583/365 A	C1583/365 B	C1583/365 C
Sample Number	X9 L1	W9 L6	Marl Pit - SP8	Marl Pit - SP8	Marl Pit - SP8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	06/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	0.1	0.24	0.16
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	0.2	0.69	0.21
Fluorene	mg/kg	0.05	MCERTS	-	-	0.18	0.6	0.19
Phenanthrene	mg/kg	0.05	MCERTS	-	-	1.1	3.8	1.2
Anthracene	mg/kg	0.05	MCERTS	-	-	0.3	0.99	0.33
Fluoranthene	mg/kg	0.05	MCERTS	-	-	1.9	6.3	2.4
Pyrene	mg/kg	0.05	MCERTS	-	-	1.6	5.3	2.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	0.72	2.5	1
Chrysene	mg/kg	0.05	MCERTS	-	-	0.75	2.4	1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.87	2.4	1.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.31	1.2	0.59
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	0.68	2.2	1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	0.38	1.1	0.61
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	0.1	0.28	0.14
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	0.41	1.2	0.65

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	9.62	31.3	12.8
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	15	17	16
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	1.4	1.7	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	1.3	3	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	0.6	1.9	0.9
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	-	-	39	47	42
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	39	47	42
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	81	110	230
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	130	240	280
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	33	38	38
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	41	45	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	180	780	320

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.01	MCERTS	-	-	< 0.010	0.047	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	< 1.0	5.1	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	2.5	20	4.5
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	< 8.0	32	11
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	41	130	52
TPHCWG - Aliphatic >EC35 - EC44 EH_CU_1D_AL	mg/kg	8.4	NONE	-	-	12	63	19
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	43	180	67
TPHCWG - Aliphatic >EC5 - EC44 EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	56	250	86

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number				796021	796022	796023	796024	796025
Sample Reference				C1583/363	C1583/364	C1583/365 A	C1583/365 B	C1583/365 C
Sample Number				X9 L1	W9 L6	Marl Pit - SP8	Marl Pit - SP8	Marl Pit - SP8
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/01/2026	06/01/2026	06/01/2026	06/01/2026	06/01/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	-	-	0.025	0.083	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	13	37	< 10
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	-	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	-	-	14	38	< 10
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	-	-	14	38	< 10
TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	-	-	79	270	81
Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	mg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	-	-	79	270	81
Miscellaneous Organics								
Petroleum ether extractable matter	mg/kg	100	NONE	-	-	to follow	to follow	to follow

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

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796026	796027	796028	796029	796030
Sample Reference	C1583/365 D	C1583/366 A	C1583/366 B	C1583/369	C1583/373
Sample Number	Marl Pit - SP8	Remaining Marl Pit Excavation	Remaining Marl Pit Excavation	AB9 L6	AB9 L8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	07/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	12.7	< 0.1	17.9	17.3	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	35.4	30.5
Moisture Content	%	0.01	NONE	19	20	19	16	16
Total mass of sample received	kg	0.1	NONE	2	2	2	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	KJK	KJK	KJK	-	-
Analysis completed	N/A	N/A	N/A	14/01/2026	14/01/2026	14/01/2026	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.002	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres, Loose Fibrous Debris	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	12.3	12.3
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	4500	1200
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	0.453	0.124
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	0.15	0.041
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	13	11
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	6.47	5.36
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	6.47	5.36
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	0.0004	0.0004
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	5200	1400
Total Potential Sulphate	%	0.003	NONE	-	-	-	0.52	0.14
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	680	160
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	0.068	0.016
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	8.4	5.5
Total Sulphur	mg/kg	50	MCERTS	-	-	-	1700	470
Total Sulphur	%	0.005	MCERTS	-	-	-	0.173	0.047
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	1	1.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Analytical Report Number: 26-000674

Project / Site name: Dove Valley Park

Your Order No: SC1344

Lab Sample Number	796026	796027	796028	796029	796030
Sample Reference	C1583/365 D	C1583/366 A	C1583/366 B	C1583/369	C1583/373
Sample Number	Marl Pit - SP8	Remaining Marl Pit Excavation	Remaining Marl Pit Excavation	AB9 L6	AB9 L8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	07/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.74	< 0.05	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.85	< 0.05	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	0.68	< 0.05	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	2.9	0.19	0.07	-	-
Anthracene	mg/kg	0.05	MCERTS	0.75	< 0.05	< 0.05	-	-
Fluoranthene	mg/kg	0.05	MCERTS	4.2	0.27	0.08	-	-
Pyrene	mg/kg	0.05	MCERTS	3.4	0.25	0.07	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.7	0.14	< 0.05	-	-
Chrysene	mg/kg	0.05	MCERTS	1.7	0.14	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.8	0.14	< 0.05	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.88	0.07	< 0.05	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.6	0.13	< 0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.92	0.07	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	< 0.05	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.99	0.08	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	23.3	1.47	< 0.80	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	4.4	5	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	2	1.7	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	2.9	1.5	1.5	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8	0.4	< 0.2	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	-	-
Chromium (III)	mg/kg	1	NONE	53	53	48	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	53	53	48	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	110	42	42	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	230	9.6	8.4	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	51	40	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	44	43	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	250	97	80	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.01	MCERTS	0.062	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	1.9	< 1.0	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	12	< 2.0	< 2.0	-	-
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	19	< 8.0	< 8.0	-	-
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	71	< 8.0	< 8.0	-	-
TPHCWG - Aliphatic >EC35 - EC44 EH_CU_1D_AL	mg/kg	8.4	NONE	32	< 8.4	< 8.4	-	-
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	100	< 10	< 10	-	-
TPHCWG - Aliphatic >EC5 - EC44 EH_CU+HS_1D_AL	mg/kg	10	NONE	140	< 10	< 10	-	-

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number				796026	796027	796028	796029	796030
Sample Reference				C1583/365 D	C1583/366 A	C1583/366 B	C1583/369	C1583/373
Sample Number				Marl Pit - SP8	Remaining Marl Pit Excavation	Remaining Marl Pit Excavation	AB9 L6	AB9 L8
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/01/2026	06/01/2026	06/01/2026	06/01/2026	07/01/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	0.01	< 0.010	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	0.073	< 0.020	< 0.020	-	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	-	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	21	< 10	< 10	-	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	-	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	21	< 10	< 10	-	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	21	< 10	< 10	-	-
TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	150	< 10	< 10	-	-
Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	150	< 10	< 10	-	-
Miscellaneous Organics								
Petroleum ether extractable matter	mg/kg	100	NONE	to follow	to follow	to follow	-	-

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

Analytical Report Number: 26-000674

Project / Site name: Dove Valley Park

Your Order No: SC1344

Lab Sample Number	796031			
Sample Reference	C1583/375			
Sample Number	V9 L4			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	31.7
Moisture Content	%	0.01	NONE	16
Total mass of sample received	kg	0.1	NONE	1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-
Analysis completed	N/A	N/A	N/A	-
Actinolite detected	Type	N/A	ISO 17025	-
Amosite detected	Type	N/A	ISO 17025	-
Anthophyllite detected	Type	N/A	ISO 17025	-
Chrysotile detected	Type	N/A	ISO 17025	-
Crocidolite detected	Type	N/A	ISO 17025	-
Tremolite detected	Type	N/A	ISO 17025	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.4
Free Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	900
Total Sulphate as SO ₄	%	0.005	MCERTS	0.09
Acid Soluble Sulphur	%	0.003	NONE	0.03
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	19
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent)	mg/l	1.25	MCERTS	9.53
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	9.53
Water Soluble Sulphur	%	0.0001	NONE	0.0006
Total Potential Sulphate	mg/kg	30	NONE	1100
Total Potential Sulphate	%	0.003	NONE	0.106
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	150
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.015
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	4.9
Total Sulphur	mg/kg	50	MCERTS	350
Total Sulphur	%	0.005	MCERTS	0.035
Organic Matter (automated)	%	0.1	MCERTS	1.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
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Analytical Report Number: 26-000674

Project / Site name: Dove Valley Park

Your Order No: SC1344

Lab Sample Number				796031
Sample Reference				C1583/375
Sample Number				V9 L4
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				07/01/2026
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-
Chromium (III)	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796031			
Sample Reference	C1583/375			
Sample Number	V9 L4			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	-
TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	-
Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	mg/kg	1	ISO 17025	-
TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	-
Miscellaneous Organics				
Petroleum ether extractable matter	mg/kg	100	NONE	-

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



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Analytical Report Number: **26-000674**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1344**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
796023	C1583/365 A	-	260	Loose Fibres	Amosite	< 0.001	< 0.001	14/01/2026	MJN
796024	C1583/365 B	-	250	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001	14/01/2026	MJN
796025	C1583/365 C	-	233	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile	0.001	0.001	14/01/2026	MJN
796026	C1583/365 D	-	231	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile & Crocidolite	0.002	0.002	14/01/2026	KJK

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

Analytical Report Number : 26-000674

Project / Site name: Dove Valley Park

* 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 *
796021	C1583/363	X9 L1	None Supplied	Brown loam and sand with gravel
796022	C1583/364	W9 L6	None Supplied	Brown loam and sand with gravel and vegetation
796023	C1583/365 A	Marl Pit - SP8	None Supplied	Brown clay and sand with gravel
796024	C1583/365 B	Marl Pit - SP8	None Supplied	Brown clay and sand with stones and gravel
796025	C1583/365 C	Marl Pit - SP8	None Supplied	Brown clay and sand with stones and gravel
796026	C1583/365 D	Marl Pit - SP8	None Supplied	Brown clay and sand with stones and gravel
796027	C1583/366 A	ing Marl Pit Exc	None Supplied	Brown clay with gravel
796028	C1583/366 B	ing Marl Pit Exc	None Supplied	Brown clay with stones and gravel
796029	C1583/369	AB9 L6	None Supplied	Brown loam and sand with stones and gravel
796030	C1583/373	AB9 L8	None Supplied	Brown loam and sand with gravel
796031	C1583/375	V9 L4	None Supplied	Brown loam and sand with gravel

Analytical Report Number : 26-000674

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS

Analytical Report Number : 26-000674

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Petroleum Ether Extractable Matter in soil	Gravimetrically determined through extraction with petroleum ether	In-house method	TN_ORG_25	D	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

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 300C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/25594-25624	Contract Sample No	C1583/363-375
Report Date	17 January 2026	ETS Contract No	C1583/363-375
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
Dove Valley Park	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	06/01/2026	
	Date Received	06/01/2026	
	Date Completed	16/01/2026	
	Sample Location	See Below	
Client Reference	C1583/363-375		



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 26-00674

ETS Number	Sample Number	Location	Material	Testing
ETS/25594	363	X9 Layer 1	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion
ETS/25595	364	W9 Layer 6	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion
ETS/25596	365A	Marl Pit SP 8	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite
ETS/25596	365B	Marl Pit SP 8	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite #118589
ETS/25596	365C	Marl Pit SP 8	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite #118589
ETS/25596	365D	Marl Pit SP 8	Brown Greyish Clay W/F-M Gravel (Made Ground)	Site Specific Chemical Suite #118589
ETS/25597	366A	Remaining Marl Pit Excavation	Brown Clay W/F-M Gravel	Site Specific Chemical Suite #118589
ETS/25597	366B	Remaining Marl Pit Excavation	Brown Clay W/F-M Gravel	Site Specific Chemical Suite #118589
ETS/25600	369	AB9 Layer 6	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion
ETS/25622	373	AB9 Layer 8	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion
ETS/25624	375	V9 Layer 4	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion

Authorised Signatory

T. McDonald



Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Preliminary Report Number : 26-000674

Project / Site name:	Dove Valley Park	Samples received on:	08/01/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	08/01/2026
Your order number:	SC1344	Analysis completed by:	Not complete
Report Issue Number:	0	Report issued on:	16/01/2026
Samples Analysed:	11 soil samples		

Signed:

Charlotte Andrew
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Preliminary reports provided at the request of the client should be considered as incomplete and have not been through the complete quality control procedure.

Results contained in preliminary reports may be subject to change and therefore should not be used as a basis for decision making, except at the risk of the client.

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: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796021	796022	796023	796024	796025
Sample Reference	C1583/363	C1583/364	C1583/365 A	C1583/365 B	C1583/365 C
Sample Number	X9 L1	W9 L6	Marl Pit - SP8	Marl Pit - SP8	Marl Pit - SP8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	06/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	24.4	24.5
Mass of stone > 2 mm	%	0.1	NONE	31.5	32.6	-	-	-
Moisture Content	%	0.01	NONE	17	16	21	20	18
Total mass of sample received	kg	0.1	NONE	0.9	1	2	2	< 0.1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	Detected	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	-	-	MJN	MJN	MJN
Analysis completed	N/A	N/A	N/A	-	-	14/01/2026	14/01/2026	14/01/2026
Actinolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	Detected	Detected	Detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	Not-detected	Detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	< 0.001	< 0.001	0.001
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	Loose Fibres	Loose Fibres	Loose Fibres, Loose Fibrous Debris
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.3	-	-	-
Free Cyanide	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000	1200	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.1	0.116	-	-	-
Acid Soluble Sulphur	%	0.003	NONE	0.033	0.039	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	17	10	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	8.45	5.18	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	8.45	5.18	-	-	-
Water Soluble Sulphur	%	0.0001	NONE	0.0006	0.0003	-	-	-
Total Potential Sulphate	mg/kg	30	NONE	1100	1200	-	-	-
Total Potential Sulphate	%	0.003	NONE	0.109	0.123	-	-	-
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	89	72	-	-	-
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.009	0.007	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	5.8	6.6	-	-	-
Total Sulphur	mg/kg	50	MCERTS	360	410	-	-	-
Total Sulphur	%	0.005	MCERTS	0.036	0.041	-	-	-
Organic Matter (automated)	%	0.1	MCERTS	1.1	1.2	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796021	796022	796023	796024	796025
Sample Reference	C1583/363	C1583/364	C1583/365 A	C1583/365 B	C1583/365 C
Sample Number	X9 L1	W9 L6	Marl Pit - SP8	Marl Pit - SP8	Marl Pit - SP8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	06/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	0.1	0.24	0.16
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	0.2	0.69	0.21
Fluorene	mg/kg	0.05	MCERTS	-	-	0.18	0.6	0.19
Phenanthrene	mg/kg	0.05	MCERTS	-	-	1.1	3.8	1.2
Anthracene	mg/kg	0.05	MCERTS	-	-	0.3	0.99	0.33
Fluoranthene	mg/kg	0.05	MCERTS	-	-	1.9	6.3	2.4
Pyrene	mg/kg	0.05	MCERTS	-	-	1.6	5.3	2.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	0.72	2.5	1
Chrysene	mg/kg	0.05	MCERTS	-	-	0.75	2.4	1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.87	2.4	1.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.31	1.2	0.59
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	0.68	2.2	1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	0.38	1.1	0.61
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	0.1	0.28	0.14
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	0.41	1.2	0.65

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	9.62	31.3	12.8
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	15	17	16
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	1.4	1.7	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	1.3	3	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	0.6	1.9	0.9
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	-	-	39	47	42
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	39	47	42
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	81	110	230
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	130	240	280
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	33	38	38
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	41	45	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	180	780	320

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS,1D,AL}	mg/kg	0.01	MCERTS	-	-	< 0.010	0.047	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH,CU,1D,AL}	mg/kg	1	MCERTS	-	-	< 1.0	5.1	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH,CU,1D,AL}	mg/kg	2	MCERTS	-	-	2.5	20	4.5
TPHCWG - Aliphatic >EC16 - EC21 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	-	-	< 8.0	32	11
TPHCWG - Aliphatic >EC21 - EC35 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	-	-	41	130	52
TPHCWG - Aliphatic >EC35 - EC44 _{EH,CU,1D,AL}	mg/kg	8.4	NONE	-	-	12	63	19
TPHCWG - Aliphatic >EC5 - EC35 _{EH,CU+HS,1D,AL}	mg/kg	10	NONE	-	-	43	180	67
TPHCWG - Aliphatic >EC5 - EC44 _{EH,CU+HS,1D,AL}	mg/kg	10	NONE	-	-	56	250	86

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number				796021	796022	796023	796024	796025
Sample Reference				C1583/363	C1583/364	C1583/365 A	C1583/365 B	C1583/365 C
Sample Number				X9 L1	W9 L6	Marl Pit - SP8	Marl Pit - SP8	Marl Pit - SP8
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/01/2026	06/01/2026	06/01/2026	06/01/2026	06/01/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	-	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	-	-	0.025	0.083	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-	-	13	37	< 10
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	-	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	-	-	14	38	< 10
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	-	-	14	38	< 10
TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	-	-	79	270	81
Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	mg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	-	-	79	270	81
Miscellaneous Organics								
Petroleum ether extractable matter	mg/kg	100	NONE	-	-	to follow	to follow	to follow

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

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796026	796027	796028	796029	796030
Sample Reference	C1583/365 D	C1583/366 A	C1583/366 B	C1583/369	C1583/373
Sample Number	Marl Pit - SP8	Remaining Marl Pit Excavation	Remaining Marl Pit Excavation	AB9 L6	AB9 L8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	07/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	12.7	< 0.1	17.9	17.3	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	-	-	-	35.4	30.5
Moisture Content	%	0.01	NONE	19	20	19	16	16
Total mass of sample received	kg	0.1	NONE	2	2	2	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	KJK	KJK	KJK	-	-
Analysis completed	N/A	N/A	N/A	14/01/2026	14/01/2026	14/01/2026	-	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	0.002	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres, Loose Fibrous Debris	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	-	12.3	12.3
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	4500	1200
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	0.453	0.124
Acid Soluble Sulphur	%	0.003	NONE	-	-	-	0.15	0.041
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	13	11
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	6.47	5.36
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	-	-	-	6.47	5.36
Water Soluble Sulphur	%	0.0001	NONE	-	-	-	0.0004	0.0004
Total Potential Sulphate	mg/kg	30	NONE	-	-	-	5200	1400
Total Potential Sulphate	%	0.003	NONE	-	-	-	0.52	0.14
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	-	-	-	680	160
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	-	-	-	0.068	0.016
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	8.4	5.5
Total Sulphur	mg/kg	50	MCERTS	-	-	-	1700	470
Total Sulphur	%	0.005	MCERTS	-	-	-	0.173	0.047
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	1	1.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number	796026	796027	796028	796029	796030
Sample Reference	C1583/365 D	C1583/366 A	C1583/366 B	C1583/369	C1583/373
Sample Number	Marl Pit - SP8	Remaining Marl Pit Excavation	Remaining Marl Pit Excavation	AB9 L6	AB9 L8
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/01/2026	06/01/2026	06/01/2026	06/01/2026	07/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.74	< 0.05	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.85	< 0.05	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	0.68	< 0.05	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	2.9	0.19	0.07	-	-
Anthracene	mg/kg	0.05	MCERTS	0.75	< 0.05	< 0.05	-	-
Fluoranthene	mg/kg	0.05	MCERTS	4.2	0.27	0.08	-	-
Pyrene	mg/kg	0.05	MCERTS	3.4	0.25	0.07	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.7	0.14	< 0.05	-	-
Chrysene	mg/kg	0.05	MCERTS	1.7	0.14	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.8	0.14	< 0.05	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.88	0.07	< 0.05	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.6	0.13	< 0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.92	0.07	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	< 0.05	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.99	0.08	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	23.3	1.47	< 0.80	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	4.4	5	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	2	1.7	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	2.9	1.5	1.5	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8	0.4	< 0.2	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	-	-
Chromium (III)	mg/kg	1	NONE	53	53	48	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	53	53	48	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	110	42	42	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	230	9.6	8.4	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	51	40	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	44	43	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	250	97	80	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/kg	0.01	MCERTS	0.062	< 0.010	< 0.010	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH, CU, 1D, AL}	mg/kg	1	MCERTS	1.9	< 1.0	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH, CU, 1D, AL}	mg/kg	2	MCERTS	12	< 2.0	< 2.0	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	19	< 8.0	< 8.0	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	71	< 8.0	< 8.0	-	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH, CU, 1D, AL}	mg/kg	8.4	NONE	32	< 8.4	< 8.4	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	100	< 10	< 10	-	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	140	< 10	< 10	-	-

Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number				796026	796027	796028	796029	796030
Sample Reference				C1583/365 D	C1583/366 A	C1583/366 B	C1583/369	C1583/373
Sample Number				Marl Pit - SP8	Remaining Marl Pit Excavation	Remaining Marl Pit Excavation	AB9 L6	AB9 L8
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/01/2026	06/01/2026	06/01/2026	06/01/2026	07/01/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	0.01	< 0.010	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	0.073	< 0.020	< 0.020	-	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	-	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	21	< 10	< 10	-	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	-	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	21	< 10	< 10	-	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	21	< 10	< 10	-	-
TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	150	< 10	< 10	-	-
Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	-	-
TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	150	< 10	< 10	-	-
Miscellaneous Organics								
Petroleum ether extractable matter	mg/kg	100	NONE	to follow	to follow	to follow	-	-

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

Analytical Report Number: 26-000674

Project / Site name: Dove Valley Park

Your Order No: SC1344

Lab Sample Number	796031			
Sample Reference	C1583/375			
Sample Number	V9 L4			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	31.7
Moisture Content	%	0.01	NONE	16
Total mass of sample received	kg	0.1	NONE	1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-
Analysis completed	N/A	N/A	N/A	-
Actinolite detected	Type	N/A	ISO 17025	-
Amosite detected	Type	N/A	ISO 17025	-
Anthophyllite detected	Type	N/A	ISO 17025	-
Chrysotile detected	Type	N/A	ISO 17025	-
Crocidolite detected	Type	N/A	ISO 17025	-
Tremolite detected	Type	N/A	ISO 17025	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.4
Free Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	900
Total Sulphate as SO ₄	%	0.005	MCERTS	0.09
Acid Soluble Sulphur	%	0.003	NONE	0.03
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	19
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent)	mg/l	1.25	MCERTS	9.53
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	9.53
Water Soluble Sulphur	%	0.0001	NONE	0.0006
Total Potential Sulphate	mg/kg	30	NONE	1100
Total Potential Sulphate	%	0.003	NONE	0.106
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	150
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.015
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	4.9
Total Sulphur	mg/kg	50	MCERTS	350
Total Sulphur	%	0.005	MCERTS	0.035
Organic Matter (automated)	%	0.1	MCERTS	1.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
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Analytical Report Number: 26-000674
Project / Site name: Dove Valley Park
Your Order No: SC1344

Lab Sample Number				796031
Sample Reference				C1583/375
Sample Number				V9 L4
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				07/01/2026
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-
Chromium (III)	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH, CU, 1D, AL}	mg/kg	1	MCERTS	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH, CU, 1D, AL}	mg/kg	2	MCERTS	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH, CU, 1D, AL}	mg/kg	8.4	NONE	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	-

Analytical Report Number: 26-000674

Project / Site name: Dove Valley Park

Your Order No: SC1344

Lab Sample Number	796031			
Sample Reference	C1583/375			
Sample Number	V9 L4			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	07/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.02	MCERTS	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR	mg/kg	10	NONE	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_ID_AR	mg/kg	10	NONE	-
TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	-
Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	mg/kg	1	ISO 17025	-
TPH (EC10 - EC40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	-
Miscellaneous Organics				
Petroleum ether extractable matter	mg/kg	100	NONE	-

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



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Analytical Report Number: **26-000674**
Project / Site name: **Dove Valley Park**
Your Order No: **SC1344**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
796023	C1583/365 A	-	260	Loose Fibres	Amosite	< 0.001	< 0.001	14/01/2026	MJN
796024	C1583/365 B	-	250	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001	14/01/2026	MJN
796025	C1583/365 C	-	233	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile	0.001	0.001	14/01/2026	MJN
796026	C1583/365 D	-	231	Loose Fibres, Loose Fibrous Debris	Amosite & Chrysotile & Crocidolite	0.002	0.002	14/01/2026	KJK

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

Analytical Report Number : 26-000674

Project / Site name: Dove Valley Park

* 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 *
796021	C1583/363	X9 L1	None Supplied	Brown loam and sand with gravel
796022	C1583/364	W9 L6	None Supplied	Brown loam and sand with gravel and vegetation
796023	C1583/365 A	Marl Pit - SP8	None Supplied	Brown clay and sand with gravel
796024	C1583/365 B	Marl Pit - SP8	None Supplied	Brown clay and sand with stones and gravel
796025	C1583/365 C	Marl Pit - SP8	None Supplied	Brown clay and sand with stones and gravel
796026	C1583/365 D	Marl Pit - SP8	None Supplied	Brown clay and sand with stones and gravel
796027	C1583/366 A	ing Marl Pit Exc	None Supplied	Brown clay with gravel
796028	C1583/366 B	ing Marl Pit Exc	None Supplied	Brown clay with stones and gravel
796029	C1583/369	AB9 L6	None Supplied	Brown loam and sand with stones and gravel
796030	C1583/373	AB9 L8	None Supplied	Brown loam and sand with gravel
796031	C1583/375	V9 L4	None Supplied	Brown loam and sand with gravel

Analytical Report Number : 26-000674

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS

Analytical Report Number : 26-000674

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Petroleum Ether Extractable Matter in soil	Gravimetrically determined through extraction with petroleum ether	In-house method	TN_ORG_25	D	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

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 300C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/25653-25659	Contract Sample No	C1583/377-383																																			
Report Date	20 January 2026	ETS Contract No	C1583/377-383																																			
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below																																				
	Source	Ex-Site																																				
	Supplier	Ex-Site																																				
	Date Sampled	08/01/2026																																				
	Date Received	08/012026																																				
	Date Completed	19/01/2026																																				
	Sample Location	See Below																																				
	Client Reference	C1583/377-383																																				
ETL ETL EARTHWORKS TESTING LTD Unit 6 Eco Park, Eco Way Bootham Lane Dunscroft Doncaster DN7 4JJ Tel: 0345 2162900 Email: ops@earthworkstesting.co.uk Testing Lab: I2 Analytical LTD Report Number: 26-000869 <table><thead><tr><th>ETS Number</th><th>Sample Number</th><th>Location</th><th>Material</th><th>Testing</th></tr></thead><tbody><tr><td>ETS/25653</td><td>377</td><td>AB9 Layer 13</td><td>Brown Clay W/F-M Gravel + 2% Lime (Class 7)</td><td>TRL 447, OM, PH, Chloride Ion</td></tr><tr><td>ETS/25654</td><td>378</td><td>W9 Layer 12</td><td>Brown Clay W/F-M Gravel + 2% Lime (Class 7)</td><td>TRL 447, OM, PH, Chloride Ion</td></tr><tr><td>ETS/25656</td><td>380</td><td>SP 5</td><td>Brown Greyish Clay W/F-M Gravel (Made Ground)</td><td>TRL 447, OM, PH, Initial Consumption of Lime</td></tr><tr><td>ETS/25657</td><td>381</td><td>SP 6</td><td>Brown Greyish Clay W/F-M Gravel (Made Ground)</td><td>TRL 447, OM, PH, Initial Consumption of Lime</td></tr><tr><td>ETS/25658</td><td>382</td><td>SP 7</td><td>Brown Greyish Clay W/F-M Gravel (Made Ground)</td><td>TRL 447, OM, PH, Initial Consumption of Lime</td></tr><tr><td>ETS/25659</td><td>383</td><td>SP 8</td><td>Brown Greyish Clay W/F-M Gravel (Made Ground)</td><td>TRL 447, OM, PH, Initial Consumption of Lime</td></tr></tbody></table> Authorised Signatory T. McDonald				ETS Number	Sample Number	Location	Material	Testing	ETS/25653	377	AB9 Layer 13	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion	ETS/25654	378	W9 Layer 12	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion	ETS/25656	380	SP 5	Brown Greyish Clay W/F-M Gravel (Made Ground)	TRL 447, OM, PH, Initial Consumption of Lime	ETS/25657	381	SP 6	Brown Greyish Clay W/F-M Gravel (Made Ground)	TRL 447, OM, PH, Initial Consumption of Lime	ETS/25658	382	SP 7	Brown Greyish Clay W/F-M Gravel (Made Ground)	TRL 447, OM, PH, Initial Consumption of Lime	ETS/25659	383	SP 8	Brown Greyish Clay W/F-M Gravel (Made Ground)	TRL 447, OM, PH, Initial Consumption of Lime
ETS Number	Sample Number	Location	Material	Testing																																		
ETS/25653	377	AB9 Layer 13	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion																																		
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Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-000869

Project / Site name:	Dove Valley Park	Samples received on:	09/01/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	09/01/2026
Your order number:	SC1345	Analysis completed by:	19/01/2026
Report Issue Number:	1	Report issued on:	19/01/2026
Samples Analysed:	6 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 26-000869
Project / Site name: Dove Valley Park
Your Order No: SC1345

Lab Sample Number	797030	797031	797032	797033	797034
Sample Reference	C1583/377	C1583/378	C1583/380	C1583/381	C1583/382
Sample Number	AB9 L13	W9 L12	SP-5	SP-6	SP-7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/01/2026	08/01/2026	08/01/2026	08/01/2026	08/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	10	< 0.1	27.3	24.7	11.9
Mass of stone > 2 mm	%	0.1	NONE	7.2	16.9	33.6	6.6	19.5
Moisture Content	%	0.01	NONE	13	12	21	18	23
Total mass of sample received	kg	0.1	NONE	1.1	1.1	2	2	2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.4	9.1	8.3	8.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	650	640	1400	1000	1600
Total Sulphate as SO ₄	%	0.005	MCERTS	0.065	0.064	0.143	0.103	0.162
Acid Soluble Sulphur	%	0.003	NONE	0.022	0.021	0.048	0.034	0.054
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	5.8	4.5	630	440	600
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	2.89	2.26	314	218	301
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	2.89	2.26	314	218	301
Water Soluble Sulphur	%	0.0001	NONE	0.0002	0.0002	0.0209	0.0145	0.0201
Total Potential Sulphate	mg/kg	30	NONE	800	720	6100	4100	9200
Total Potential Sulphate	%	0.003	NONE	0.08	0.072	0.615	0.413	0.92
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	150	78	4700	3100	7600
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.015	0.008	0.471	0.311	0.758
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.9	3.7	-	-	-
Total Sulphur	mg/kg	50	MCERTS	270	240	2000	1400	3100
Total Sulphur	%	0.005	MCERTS	0.027	0.024	0.205	0.138	0.307
Organic Matter (automated)	%	0.1	MCERTS	0.7	0.6	5	3.5	4.8

Initial Consumption of Lime Test

pH @ lime content 1%	pH Units	N/A	NONE	-	-	11.9	11.9	11.9
pH @ lime content 2%	pH Units	N/A	NONE	-	-	12.2	12.2	12.2
pH @ lime content 3%	pH Units	N/A	NONE	-	-	12.3	12.3	12.3
pH @ lime content 4%	pH Units	N/A	NONE	-	-	12.3	12.3	12.3
pH @ lime content 5%	pH Units	N/A	NONE	-	-	12.4	12.4	12.3
pH @ lime content 6%	pH Units	N/A	NONE	-	-	12.4	12.4	12.4

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

Analytical Report Number: 26-000869
Project / Site name: Dove Valley Park
Your Order No: SC1345

Lab Sample Number	797035			
Sample Reference	C1583/383			
Sample Number	SP-8			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	08/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	34.4
Moisture Content	%	0.01	NONE	20
Total mass of sample received	kg	0.1	NONE	2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000
Total Sulphate as SO ₄	%	0.005	MCERTS	0.105
Acid Soluble Sulphur	%	0.003	NONE	0.035
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	280
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	141
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	141
Water Soluble Sulphur	%	0.0001	NONE	0.0094
Total Potential Sulphate	mg/kg	30	NONE	6900
Total Potential Sulphate	%	0.003	NONE	0.69
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	5900
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.585
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	2300
Total Sulphur	%	0.005	MCERTS	0.23
Organic Matter (automated)	%	0.1	MCERTS	3.9

Initial Consumption of Lime Test

pH @ lime content 1%	pH Units	N/A	NONE	12
pH @ lime content 2%	pH Units	N/A	NONE	12.3
pH @ lime content 3%	pH Units	N/A	NONE	12.3
pH @ lime content 4%	pH Units	N/A	NONE	12.4
pH @ lime content 5%	pH Units	N/A	NONE	12.4
pH @ lime content 6%	pH Units	N/A	NONE	12.4

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

Analytical Report Number : 26-000869

Project / Site name: Dove Valley Park

* 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 *
797030	C1583/377	AB9 L13	None Supplied	Brown clay and sand with stones
797031	C1583/378	W9 L12	None Supplied	Brown clay and sand with gravel
797032	C1583/380	SP-5	None Supplied	Brown clay and sand with vegetation and stones
797033	C1583/381	SP-6	None Supplied	Brown clay and sand with vegetation and stones
797034	C1583/382	SP-7	None Supplied	Brown clay and loam with stones and vegetation
797035	C1583/383	SP-8	None Supplied	Brown sandy clay with gravel

Analytical Report Number : 26-000869

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 26-000869

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Initial Consumption of Lime	Initial Consumption of Lime Test - pH at different lime content	In-house method based on BS 1924:1990	L005B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-000869

Project / Site name:	Dove Valley Park	Samples received on:	09/01/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	09/01/2026
Your order number:	SC1345	Analysis completed by:	19/01/2026
Report Issue Number:	1	Report issued on:	19/01/2026
Samples Analysed:	6 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
air	- once the analysis is complete

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Some records may be kept for longer according to other legal/best practice requirements.

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: 26-000869
Project / Site name: Dove Valley Park
Your Order No: SC1345

Lab Sample Number	797030	797031	797032	797033	797034
Sample Reference	C1583/377	C1583/378	C1583/380	C1583/381	C1583/382
Sample Number	AB9 L13	W9 L12	SP-5	SP-6	SP-7
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/01/2026	08/01/2026	08/01/2026	08/01/2026	08/01/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	10	< 0.1	27.3	24.7	11.9
Mass of stone > 2 mm	%	0.1	NONE	7.2	16.9	33.6	6.6	19.5
Moisture Content	%	0.01	NONE	13	12	21	18	23
Total mass of sample received	kg	0.1	NONE	1.1	1.1	2	2	2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.4	9.1	8.3	8.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	650	640	1400	1000	1600
Total Sulphate as SO ₄	%	0.005	MCERTS	0.065	0.064	0.143	0.103	0.162
Acid Soluble Sulphur	%	0.003	NONE	0.022	0.021	0.048	0.034	0.054
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	5.8	4.5	630	440	600
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	2.89	2.26	314	218	301
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	2.89	2.26	314	218	301
Water Soluble Sulphur	%	0.0001	NONE	0.0002	0.0002	0.0209	0.0145	0.0201
Total Potential Sulphate	mg/kg	30	NONE	800	720	6100	4100	9200
Total Potential Sulphate	%	0.003	NONE	0.08	0.072	0.615	0.413	0.92
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	150	78	4700	3100	7600
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.015	0.008	0.471	0.311	0.758
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.9	3.7	-	-	-
Total Sulphur	mg/kg	50	MCERTS	270	240	2000	1400	3100
Total Sulphur	%	0.005	MCERTS	0.027	0.024	0.205	0.138	0.307
Organic Matter (automated)	%	0.1	MCERTS	0.7	0.6	5	3.5	4.8

Initial Consumption of Lime Test

pH @ lime content 1%	pH Units	N/A	NONE	-	-	11.9	11.9	11.9
pH @ lime content 2%	pH Units	N/A	NONE	-	-	12.2	12.2	12.2
pH @ lime content 3%	pH Units	N/A	NONE	-	-	12.3	12.3	12.3
pH @ lime content 4%	pH Units	N/A	NONE	-	-	12.3	12.3	12.3
pH @ lime content 5%	pH Units	N/A	NONE	-	-	12.4	12.4	12.3
pH @ lime content 6%	pH Units	N/A	NONE	-	-	12.4	12.4	12.4

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

Analytical Report Number: 26-000869
Project / Site name: Dove Valley Park
Your Order No: SC1345

Lab Sample Number	797035			
Sample Reference	C1583/383			
Sample Number	SP-8			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	08/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	34.4
Moisture Content	%	0.01	NONE	20
Total mass of sample received	kg	0.1	NONE	2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000
Total Sulphate as SO ₄	%	0.005	MCERTS	0.105
Acid Soluble Sulphur	%	0.003	NONE	0.035
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	280
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	141
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	141
Water Soluble Sulphur	%	0.0001	NONE	0.0094
Total Potential Sulphate	mg/kg	30	NONE	6900
Total Potential Sulphate	%	0.003	NONE	0.69
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	5900
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.585
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	2300
Total Sulphur	%	0.005	MCERTS	0.23
Organic Matter (automated)	%	0.1	MCERTS	3.9

Initial Consumption of Lime Test

pH @ lime content 1%	pH Units	N/A	NONE	12
pH @ lime content 2%	pH Units	N/A	NONE	12.3
pH @ lime content 3%	pH Units	N/A	NONE	12.3
pH @ lime content 4%	pH Units	N/A	NONE	12.4
pH @ lime content 5%	pH Units	N/A	NONE	12.4
pH @ lime content 6%	pH Units	N/A	NONE	12.4

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

Analytical Report Number : 26-000869

Project / Site name: Dove Valley Park

* 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 *
797030	C1583/377	AB9 L13	None Supplied	Brown clay and sand with stones
797031	C1583/378	W9 L12	None Supplied	Brown clay and sand with gravel
797032	C1583/380	SP-5	None Supplied	Brown clay and sand with vegetation and stones
797033	C1583/381	SP-6	None Supplied	Brown clay and sand with vegetation and stones
797034	C1583/382	SP-7	None Supplied	Brown clay and loam with stones and vegetation
797035	C1583/383	SP-8	None Supplied	Brown sandy clay with gravel

Analytical Report Number : 26-000869

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 26-000869

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Initial Consumption of Lime	Initial Consumption of Lime Test - pH at different lime content	In-house method based on BS 1924:1990	L005B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/25870-25873	Contract Sample No	C1583/391-394
Report Date	28 January 2026	ETS Contract No	C1583/391-394
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	14/01/2026	
	Date Received	14/01/2026	
	Date Completed	27/01/2026	
	Sample Location	See Below	
	Client Reference	C1583/391-394	
Dove Valley Park			



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 26-002532

ETS Number	Sample Number	Location	Material	Testing
ETS/25653	391	AB9 Layer 13	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion
ETS/25654	394	W9 Layer 12	Brown Clay W/F-M Gravel + 2% Lime (Class 7)	TRL 447, OM, PH, Chloride Ion

Authorised Signatory

T. McDonald

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-002532

Project / Site name:	Dove Valley Park	Samples received on:	16/01/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	16/01/2026
Your order number:	SC1374	Analysis completed by:	27/01/2026
Report Issue Number:	1	Report issued on:	27/01/2026
Samples Analysed:	2 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 26-002532
Project / Site name: Dove Valley Park
Your Order No: SC1374

Lab Sample Number	805306	805307
Sample Reference	C1583/391	C1583/394
Sample Number	AA3-L4	AA3-L5
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	14/01/2026	15/01/2026
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	50.3	30.3
Mass of stone > 2 mm	%	0.1	NONE	44.6	20.1
Moisture Content	%	0.01	NONE	14	19
Total mass of sample received	kg	0.1	NONE	0.9	0.9
Whole Sample Crushed	N/A	N/A	NONE	Crushed	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1100	840
Total Sulphate as SO ₄	%	0.005	MCERTS	0.114	0.084
Acid Soluble Sulphur	%	0.003	NONE	0.038	0.028
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	12	5.1
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	6.18	2.55
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	6.18	2.55
Water Soluble Sulphur	%	0.0001	NONE	0.0004	0.0002
Total Potential Sulphate	mg/kg	30	NONE	1300	900
Total Potential Sulphate	%	0.003	NONE	0.132	0.09
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	180	57
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.018	0.006
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	16	13
Total Sulphur	mg/kg	50	MCERTS	440	300
Total Sulphur	%	0.005	MCERTS	0.044	0.03
Organic Matter (automated)	%	0.1	MCERTS	0.9	0.6

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



Analytical Report Number : 26-002532

Project / Site name: Dove Valley Park

* 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 *
805306	C1583/391	AA3-L4	None Supplied	Brown clay and sand with gravel and stones
805307	C1583/394	AA3-L5	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 26-002532

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Whole Sample Crushed	Either: Client specific preparation instructions - sample(s) crushed whole prior to analysis OR Sample unsuitable for standard preparation and therefore crushed whole prior to analysis	In house method, applicable to dry samples only	L019B	D	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

Analytical Report Number : 26-002532

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-002532

Project / Site name:	Dove Valley Park	Samples received on:	16/01/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	16/01/2026
Your order number:	SC1374	Analysis completed by:	27/01/2026
Report Issue Number:	1	Report issued on:	27/01/2026
Samples Analysed:	2 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
air	- once the analysis is complete

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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: 26-002532
Project / Site name: Dove Valley Park
Your Order No: SC1374

Lab Sample Number	805306	805307
Sample Reference	C1583/391	C1583/394
Sample Number	AA3-L4	AA3-L5
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	14/01/2026	15/01/2026
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	50.3	30.3
Mass of stone > 2 mm	%	0.1	NONE	44.6	20.1
Moisture Content	%	0.01	NONE	14	19
Total mass of sample received	kg	0.1	NONE	0.9	0.9
Whole Sample Crushed	N/A	N/A	NONE	Crushed	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3	12.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1100	840
Total Sulphate as SO ₄	%	0.005	MCERTS	0.114	0.084
Acid Soluble Sulphur	%	0.003	NONE	0.038	0.028
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	12	5.1
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	6.18	2.55
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	6.18	2.55
Water Soluble Sulphur	%	0.0001	NONE	0.0004	0.0002
Total Potential Sulphate	mg/kg	30	NONE	1300	900
Total Potential Sulphate	%	0.003	NONE	0.132	0.09
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	180	57
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.018	0.006
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	16	13
Total Sulphur	mg/kg	50	MCERTS	440	300
Total Sulphur	%	0.005	MCERTS	0.044	0.03
Organic Matter (automated)	%	0.1	MCERTS	0.9	0.6

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

Analytical Report Number : 26-002532

Project / Site name: Dove Valley Park

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
805306	C1583/391	AA3-L4	None Supplied	Brown clay and sand with gravel and stones
805307	C1583/394	AA3-L5	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 26-002532

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Whole Sample Crushed	Either: Client specific preparation instructions - sample(s) crushed whole prior to analysis OR Sample unsuitable for standard preparation and therefore crushed whole prior to analysis	In house method, applicable to dry samples only	L019B	D	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

Analytical Report Number : 26-002532

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
Unit 6, Eco Way
Dunscroft
Doncaster
DN7 4JJ

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

t:
e: hs@earthworkstesting.co.uk
subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-005539

Project / Site name:	Dove Valley Park	Samples received on:	03/02/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	04/02/2026
Your order number:	SC1403 R1	Analysis completed by:	11/02/2026
Report Issue Number:	1	Report issued on:	11/02/2026
Samples Analysed:	1 soil sample		



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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 26-005539
Project / Site name: Dove Valley Park
Your Order No: SC1403 R1

Lab Sample Number	820854			
Sample Reference	C1583/428/S8 - L1			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	None Supplied			
Date Sampled	30/01/2026			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	5.8
Mass of stone > 2 mm	%	0.1	NONE	19.3
Moisture Content	%	0.01	NONE	20
Total mass of sample received	kg	0.1	NONE	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	12.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2000
Total Sulphate as SO ₄	%	0.005	MCERTS	0.202
Acid Soluble Sulphur	%	0.003	NONE	0.067
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	13
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	6.7
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	6.7
Water Soluble Sulphur	%	0.0001	NONE	0.0004
Total Potential Sulphate	mg/kg	30	NONE	2000
Total Potential Sulphate	%	0.003	NONE	0.205
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	27
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.003
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	14
Total Sulphur	mg/kg	50	MCERTS	680
Total Sulphur	%	0.005	MCERTS	0.068
Organic Matter (automated)	%	0.1	MCERTS	0.7

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

Analytical Report Number : 26-005539

Project / Site name: Dove Valley Park

* 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 *
820854	1583/428/S8 - L	None Supplied	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 26-005539

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd
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i2 Analytical Ltd.
7 Woodshots Meadow,
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WD18 8YS

t:
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subcontractors@earthworkstesting.co.uk

t: 01923 225404
f: 01923 237404
e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-005831

Project / Site name:	Dove Valley Park	Samples received on:	05/02/2026
Your job number:	C1583	Samples instructed on/ Analysis started on:	05/02/2026
Your order number:	SC1410	Analysis completed by:	13/02/2026
Report Issue Number:	1	Report issued on:	13/02/2026
Samples Analysed:	2 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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 26-005831
Project / Site name: Dove Valley Park
Your Order No: SC1410

Lab Sample Number	822142	822143
Sample Reference	C1583/434/S8-L7	C1583/436/S9-L9
Sample Number	None Supplied	None Supplied
Water Matrix	N/A	N/A
Depth (m)	None Supplied	None Supplied
Date Sampled	05/02/2026	05/02/2026
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Mass of stone > 2 mm	%	0.1	NONE	14.7	31.3
Moisture Content	%	0.01	NONE	23	16
Total mass of sample received	kg	0.1	NONE	0.9	0.9

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	11.4	12.4
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1000	1500
Total Sulphate as SO ₄	%	0.005	MCERTS	0.105	0.155
Acid Soluble Sulphur	%	0.003	NONE	0.035	0.052
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	220	28
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	109	14
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	109	14
Water Soluble Sulphur	%	0.0001	NONE	0.0073	0.0009
Total Potential Sulphate	mg/kg	30	NONE	1100	2200
Total Potential Sulphate	%	0.003	NONE	0.111	0.221
Oxidisable Sulphide (as SO ₄)	mg/kg	20	NONE	69	660
Oxidisable Sulphide (as SO ₄)	%	0.002	NONE	0.007	0.066
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	13	9.3
Total Sulphur	mg/kg	50	MCERTS	370	740
Total Sulphur	%	0.005	MCERTS	0.037	0.074
Organic Matter (automated)	%	0.1	MCERTS	0.6	1

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

Analytical Report Number : 26-005831

Project / Site name: Dove Valley Park

* 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 *
822142	C1583/434/S8-L	None Supplied	None Supplied	Brown clay and sand with gravel
822143	C1583/436/S9-L	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 26-005831

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	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
Acid Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method.	L038B	D	NONE
Oxidisable Sulphide in soil	Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Total potential sulphate in soil	Determination of total potential sulphate in soil by calculation from total sulphur	By calculation - In-house method based on TRL 447 report.	L038B	D	NONE
Water Soluble Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Laboratory Report	ETS/22109	Contract Sample No	C1583/3	 Unit 6 Eco Park, Eco Way Bootham Lane Dunscroft Doncaster DN7 4JJ Tel: 0345 2162900 Email: ops@earthworkstesting.co.uk									
Report Date	02 December 2025	ETS Contract No	C1583/3										
Collins Earthworks Ltd	Material Description	See Below											
Whiteley Road													
Ripley													
Derbyshire													
DES SQL	Source	Ex-Site											
	Supplier	Ex-Site											
	Date Sampled	Not Stated											
	Date Received	09/09/2025											
	Date Completed	01/12/2025											
	Sample Location	See Below											
	Client Reference	C1583/3											
Testing Lab: Socotec Report Number: SC025-02183/S001/M1													
<table><tr><th>ETS Number</th><th>Sample Number</th><th>Location</th><th>Material</th><th>Testing</th></tr><tr><td>ETS/22109</td><td>3</td><td>81,82,85,810,811,83,84,88,89,817,814,815,816 Combined</td><td>Light Grey SL Sandy Gravel Combined 2% OPC</td><td>Frost Susceptibility</td></tr></table>				ETS Number	Sample Number	Location	Material	Testing	ETS/22109	3	81,82,85,810,811,83,84,88,89,817,814,815,816 Combined	Light Grey SL Sandy Gravel Combined 2% OPC	Frost Susceptibility
ETS Number	Sample Number	Location	Material	Testing									
ETS/22109	3	81,82,85,810,811,83,84,88,89,817,814,815,816 Combined	Light Grey SL Sandy Gravel Combined 2% OPC	Frost Susceptibility									
Authorised Signatory T. McDonald													

Determination of Frost Susceptibility

Report No:	SCO25-02183/S001/M1	Report Date:	28 November 2025
Client:	EARTHWORKS TESTING LTD	Our Contract Ref:	P255036
Address:	UNIT 6, ECO BUSINESS PARK ECO WAY DUNSCROFT DONCASTER DN7 4JJ	Sample No.	02183/S001
Client Contact:	Helen Slinn	Client Sample Ref:	3
Site:	C1583 – Dove Valley Park	Date Sampled:	Data Not Supplied
Location:	B1,B2,B5,B10,B11,B3,B4,B8,B9,B17,B14,B15,B16	Date Received:	06 Oct 2025
Description:	Light grey slightly sandy, gravel + 2% OPC	Date Tested:	19 Nov 2025 to 28 Nov 2025
Material Specification:	Not Stated	Tested By:	SOCOTEC Glasgow
		Material Supplier:	Not given
		Material Source:	Not given
		Sampling Certificate:	Received
		Sampled by:	Client

Results :

Frost Susceptibility

Maximum Heave after 96 hrs (mm)				Classification
Individual Specimens			Mean	NON-FROST SUSCEPTIBLE
4.5	3.5	5.5	4.5	

Mean Maximum Heave after 96hrs to be $\leq 15\text{mm}$

Particle Size Distribution (BS EN 933-1:2012 Washing and sieving method)

Sieve (mm)	% Passing		Specification
	Submitted Sample	Stable Specimen	
63	-	-	-
31.5	-	-	-
16	-	-	-
8	-	-	-
4	-	-	-
2	-	-	-
1	-	-	-
0.063	-	-	-

Validity of Test Run

Parameter	Result (mm)			Criteria
Heave of individual reference specimens	10.5	11.0	10.0	N/A
Mean Heave of Reference	10.5			13.6 $\pm$ 4.0mm
Maximum Range in any set of 3 No Test Specimens	4.0			Not to exceed 6mm

CONDITION REQUIREMENTS: SATISFACTORY

Laboratory Reference Density and Water Content (BSEN 13286-4:2021)

Optimum Water Content (%)	Maximum Dry Density (Mg/m ³)
N/A	N/A

Comments: Sample specimens compacted by client

Certified that the testing was carried out in accordance with BS 812-124:2009

Signed:



Malcolm Lawson – Technical Manager
for and on behalf of SOCOTEC UK Limited

Determination of Frost Susceptibility

Report No:	SCO25-02183/S002/M1	Report Date:	5 December 2025
Client:	EARTHWORKS TESTING LTD	Our Contract Ref:	P255036
Address:	UNIT 6, ECO BUSINESS PARK ECO WAY DUNSCROFT DONCASTER DN7 4JJ	Sample No.	02183/S002
Client Contact:	Helen Slinn	Client Sample Ref:	7
Site:	C1583 – Dove Valley Park	Date Sampled:	Data Not Supplied
Location:	B6, B7, B12	Date Received:	06 Oct 2025
Description:	Firm reddish brown mottled grey slightly sandy, slightly silty CLAY + 2% OPC	Date Tested:	26 Nov 2025 to 5 Dec 2025
Material Specification:	Not Stated	Tested By:	SOCOTEC Glasgow
		Material Supplier:	Not given
		Material Source:	Not given
		Sampling Certificate:	Received
		Sampled by:	Client

Results :

Frost Susceptibility

Maximum Heave after 96 hrs (mm)				Classification
Individual Specimens			Mean	NON-FROST SUSCEPTIBLE
16.0	11.5	14.5	14.0	

Mean Maximum Heave after 96hrs to be $\leq 15\text{mm}$

Particle Size Distribution (BS EN 933-1:2012 Washing and sieving method)

Sieve (mm)	% Passing		Specification
	Submitted Sample	Stable Specimen	
63	-	-	-
31.5	-	-	-
16	-	-	-
8	-	-	-
4	-	-	-
2	-	-	-
1	-	-	-
0.063	-	-	-

Validity of Test Run

Parameter	Result (mm)			Criteria
Heave of individual reference specimens	11.0	10.5	11.0	N/A
Mean Heave of Reference	10.8			13.6 $\pm$ 4.0mm
Maximum Range in any set of 3 No Test Specimens	4.5			Not to exceed 6mm

CONDITION REQUIREMENTS: SATISFACTORY

Laboratory Reference Density and Water Content (BS EN 13286-4:2021)

Optimum Water Content (%)	Maximum Dry Density (Mg/m ³)
N/A	N/A

Comments: Sample specimens compacted by client

Certified that the testing was carried out in accordance with BS 812-124:2009

Signed:



Malcolm Lawson – Technical Manager
for and on behalf of SOCOTEC UK Limited

Laboratory Report	ETS/22113	Contract Sample No	C1583/7
Report Date	08 January 2026	ETS Contract No	C1583/7
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL		Material Description	See Below
Dove Valley Park		Source	Ex-Site
		Supplier	Ex-Site
		Date Sampled	N/S
		Date Received	N/S
		Date Completed	07/01/2026
		Sample Location	See Below
		Client Reference	C1583/7



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: Socotec

Report Number: P255036

ETS Number	Sample Number	Location	Material	Testing
ETS/22113	7	B6,B7,B12 Combined	Firm Reddish Brown Mottled Grey SL Sandy SL Silty Clay Combined 2% OPC	Frost

Authorised Signatory

T. McDonald

Determination of Frost Susceptibility

Report No:	SCO25-02183/S002/M1	Report Date:	5 December 2025
Client:	EARTHWORKS TESTING LTD	Our Contract Ref:	P255036
Address:	UNIT 6, ECO BUSINESS PARK ECO WAY DUNSCROFT DONCASTER DN7 4JJ	Sample No.	02183/S002
Client Contact:	Helen Slinn	Client Sample Ref:	7
Site:	C1583 – Dove Valley Park	Date Sampled:	Data Not Supplied
Location:	B6, B7, B12	Date Received:	06 Oct 2025
Description:	Firm reddish brown mottled grey slightly sandy, slightly silty CLAY + 2% OPC	Date Tested:	26 Nov 2025 to 5 Dec 2025
Material Specification:	Not Stated	Tested By:	SOCOTEC Glasgow
		Material Supplier:	Not given
		Material Source:	Not given
		Sampling Certificate:	Received
		Sampled by:	Client

Results :

Frost Susceptibility

Maximum Heave after 96 hrs (mm)				Classification
Individual Specimens			Mean	NON-FROST SUSCEPTIBLE
16.0	11.5	14.5	14.0	

Mean Maximum Heave after 96hrs to be $\leq 15\text{mm}$

Particle Size Distribution (BS EN 933-1:2012 Washing and sieving method)

Sieve (mm)	% Passing		Specification
	Submitted Sample	Stable Specimen	
63	-	-	-
31.5	-	-	-
16	-	-	-
8	-	-	-
4	-	-	-
2	-	-	-
1	-	-	-
0.063	-	-	-

Validity of Test Run

Parameter	Result (mm)			Criteria
Heave of individual reference specimens	11.0	10.5	11.0	N/A
Mean Heave of Reference	10.8			13.6 $\pm$ 4.0mm
Maximum Range in any set of 3 No Test Specimens	4.5			Not to exceed 6mm

CONDITION REQUIREMENTS: SATISFACTORY

Laboratory Reference Density and Water Content (BSEN 13286-4:2021)

Optimum Water Content (%)	Maximum Dry Density (Mg/m ³)
N/A	N/A

Comments: Sample specimens compacted by client

Certified that the testing was carried out in accordance with BS 812-124:2009

Signed:



Malcolm Lawson – Technical Manager
for and on behalf of SOCOTEC UK Limited

Determination of Frost Susceptibility

Report No:	SCO25-02183/S001/M1	Report Date:	28 November 2025
Client:	EARTHWORKS TESTING LTD	Our Contract Ref:	P255036
Address:	UNIT 6, ECO BUSINESS PARK ECO WAY DUNSCROFT DONCASTER DN7 4JJ	Sample No.	02183/S001
Client Contact:	Helen Slinn	Client Sample Ref:	3
Site:	C1583 – Dove Valley Park	Date Sampled:	Data Not Supplied
Location:	B1,B2,B5,B10,B11,B3,B4,B8,B9,B17,B14,B15,B16	Date Received:	06 Oct 2025
Description:	Light grey slightly sandy, gravel + 2% OPC	Date Tested:	19 Nov 2025 to 28 Nov 2025
Material Specification:	Not Stated	Tested By:	SOCOTEC Glasgow
		Material Supplier:	Not given
		Material Source:	Not given
		Sampling Certificate:	Received
		Sampled by:	Client

Results :

Frost Susceptibility

Maximum Heave after 96 hrs (mm)				Classification
Individual Specimens			Mean	NON-FROST SUSCEPTIBLE
4.5	3.5	5.5	4.5	

Mean Maximum Heave after 96hrs to be $\leq 15\text{mm}$

Particle Size Distribution (BS EN 933-1:2012 Washing and sieving method)

Sieve (mm)	% Passing		Specification
	Submitted Sample	Stable Specimen	
63	-	-	-
31.5	-	-	-
16	-	-	-
8	-	-	-
4	-	-	-
2	-	-	-
1	-	-	-
0.063	-	-	-

Validity of Test Run

Parameter	Result (mm)			Criteria
Heave of individual reference specimens	10.5	11.0	10.0	N/A
Mean Heave of Reference	10.5			13.6 $\pm$ 4.0mm
Maximum Range in any set of 3 No Test Specimens	4.0			Not to exceed 6mm

CONDITION REQUIREMENTS: SATISFACTORY

Laboratory Reference Density and Water Content (BSEN 13286-4:2021)

Optimum Water Content (%)	Maximum Dry Density (Mg/m ³)
N/A	N/A

Comments: Sample specimens compacted by client

Certified that the testing was carried out in accordance with BS 812-124:2009

Signed:



Malcolm Lawson – Technical Manager
for and on behalf of SOCOTEC UK Limited

Laboratory Report	ETS/23711	Contract Sample No	C1583/169
Report Date	12 November 2025	ETS Contract No	C1583/169
Collins Earthworks Ltd Whiteley Road Ripley Derbyshire DE5 3QL	Material Description	See Below	
	Source	Ex-Site	
	Supplier	Ex-Site	
	Date Sampled	17/10/2025	
	Date Received	17/10/2025	
	Date Completed	10/11/2025	
	Sample Location	See Below	
	Client Reference	C1583/169	
Dove Valley Park			



Unit 6 Eco Park, Eco Way
Bootham Lane
Dunscroft
Doncaster
DN7 4JJ

Tel: 0345 2162900
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-056819-1

ETS Number	Sample Number	Location	Material	Testing
ETS/23711	169	X4 Layer 2	Sand & Gravel (Class 6)	LA

Authorised Signatory

T. McDonald



TEST CERTIFICATE

DETERMINATION OF RESISTANCE TO FRAGMENTATION BY THE LOS ANGELES TEST METHOD

Tested in Accordance with: BS EN 1097-2:2020



Normec
i2 Analytical

4041

Client: Earthworks Testing Ltd
Client Address: Unit 6, Eco Way, Dunscroft,
Doncaster, DN7 4JJ

Contact: Helen Slinn
Site Address: Dove Valley Park

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: C1583
Job Number: 25-056819-1
Date Sampled: 17/10/2025
Date Received: 21/10/2025
Date Tested: 06/11/2025
Sampled By: Client - ETL

Test Results:

Laboratory Reference: 722001
Client ID: C1583/169/X4-L2
Sample Reference: Class 6
Sample Description: Brown very sandy GRAVEL

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B

Size Fraction which test portion obtained		Specification %
Sieve Size	Percent Passing	
14.0 mm	100	100
11.2 mm	36	30-40
10.0 mm	0	Zero
Los Angeles Coefficient	19	

This sample meets the requirements for material type - 6F2

Specification for Highway Works, Volume 1, Series 600, TABLE 6/1

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing. Unless otherwise instructed, decision rules to determine conformity will be based on Simple Acceptance, which is a decision rule in which the acceptance limit is the same as the tolerance limit; resulting in a binary Pass or Fail being reported. This is in accordance with ILAC G8 "Guidelines on Decision Rules and Statements of Conformity"

Signed:

Page 1 of 1

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 11/11/2025

GF 143.17

APPENDIX 9: Tabulated Summary of Test Results

Collins Earthworks Ltd
Dove Valley Park

TRL 447, OM, PH, Chloride Ion, Site specific Chem