



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



Client: **4041** Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 15/06/2026
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

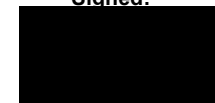
Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
943291	CP401	12	2.90	Not Given	B	Brownish grey very sandy CLAY		23.3											
943293	CP401	22	5.90	Not Given	B	Brown sandy CLAY		21.0											
943294	CP401	31	10.90	Not Given	B	Brownish grey slightly gravelly sandy CLAY		23.6											
943295	CP401	37	13.90	Not Given	B	Grey slightly gravelly sandy silty CLAY		28.2											
943296	CP402	12	2.90	Not Given	B	Brownish grey slightly gravelly sandy CLAY		28.1											
943299	CP402	24	6.90	Not Given	B	Brownish grey slightly gravelly slightly sandy CLAY		13.4											
943300	CP402	30	9.90	Not Given	B	Brownish grey slightly gravelly slightly sandy silty CLAY		31.2											
943302	TP403	6	1.50	Not Given	D	Yellowish brown slightly gravelly sandy CLAY		20.6											
943304	TP410	3	0.60	Not Given	D	Yellowish brown slightly gravelly sandy CLAY		16.1											
943305	TP411	3	0.60	Not Given	D	Yellowish grey slightly gravelly sandy CLAY		12.1											

Comments:

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Signed:



Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 24/06/2026

GF 126.20



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



Client: **4041** Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 15/06/2026
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
943307	WS402	3	0.70	Not Given	D	Yellowish grey silty CLAY		16.1											
943308	WS402	4	1.90	Not Given	D	Multicolour slightly sandy CLAY		20.8											
943309	WS403	1	1.20	1.65	D	Multicolour slightly sandy CLAY		22.1											
943310	WS404	4	0.60	Not Given	D	Yellowish brown slightly gravelly very sandy CLAY		22.5											
943311	WS405	2	0.50	Not Given	D	Yellowish grey sandy CLAY		19.1											
943312	WS405	3	1.30	Not Given	D	Yellowish grey sandy CLAY		17.5											
943313	WS407	4	2.30	Not Given	D	Yellowish grey very sandy CLAY		18.6											
943314	WS408A	4	0.50	Not Given	D	Brown slightly gravelly sandy CLAY		18.3											
943315	WS410	5	3.90	Not Given	D	Grey slightly gravelly very sandy CLAY		14.7											
943316	WS411	5	2.70	Not Given	D	Brown slightly sandy CLAY		22.4											

Comments:

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for and on behalf of i2 Analytical Ltd



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



Client: **4041** Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 15/06/2026
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
943317	WS412	2	1.20	Not Given	D	Brown very sandy CLAY		19.8											
943318	WS413	5	1.80	Not Given	D	Brown slightly gravelly CLAY		19.0											
943319	WS413	6	2.00	2.45	D	Brownish grey slightly gravelly slightly sandy CLAY		16.2											
943320	WS414	2	0.40	0.50	B	Brown CLAY		31.0											
943321	WS414	3	0.50	Not Given	D	Brown CLAY		31.3											
943322	WS414	4	1.00	Not Given	D	Brownish grey CLAY		20.6											
943323	WS414	5	1.90	Not Given	D	Grey gravelly CLAY		9.9											
943324	WS415	2	1.50	Not Given	D	Brownish grey very sandy CLAY		11.9											
943326	WS417	5	2.70	Not Given	D	Multicolour CLAY		22.0											

Comments:

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016,
BS 1377-2:2022 cl. 10



4041

Client: Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

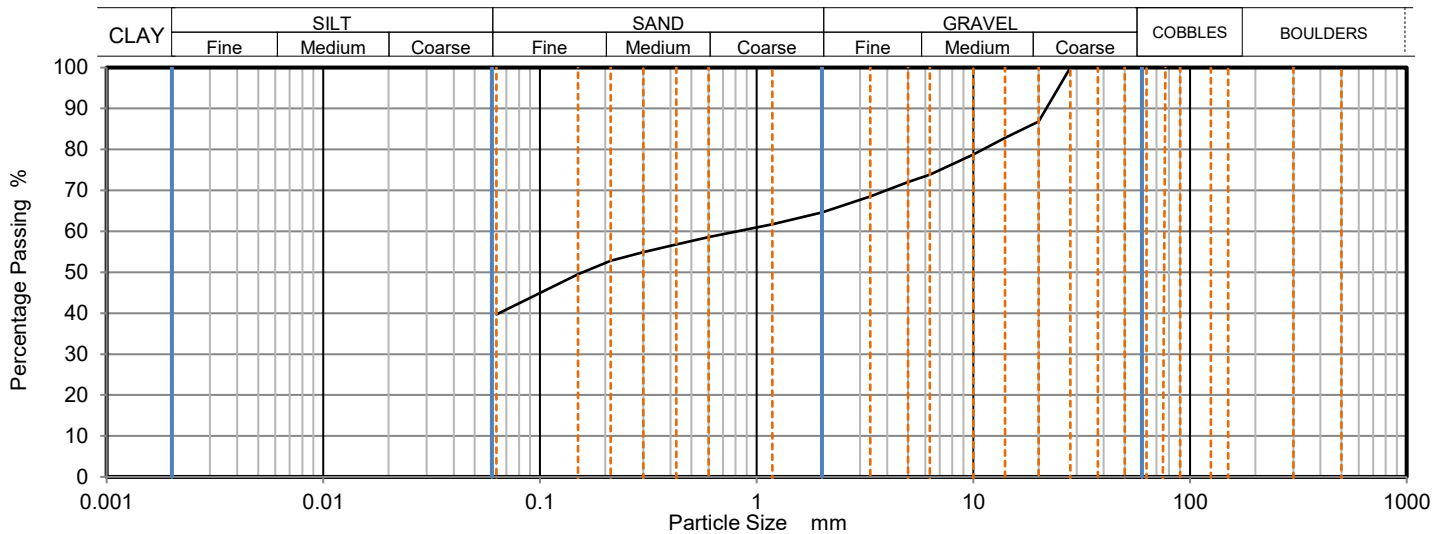
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 17/06/2026
Sampled By: Not Given

Test Results:

Laboratory Reference: 943290
Hole No.: CP401
Sample Reference: 3
Sample Description: Brown very sandy very clayey GRAVEL with fragments of bricks and glass
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 0.40
Depth Base [m]: 0.60
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	87		
14	83		
10	79		
6.3	74		
5	72		
3.35	69		
2	65		
1.18	62		
0.6	59		
0.425	57		
0.3	55		
0.212	53		
0.15	50		
0.063	40		

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	25
Fines <0.063 mm	40

Grading Analysis	
D100	mm 28
D60	mm 0.811
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016,
BS 1377-2:2022 cl. 10



4041

Client: Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

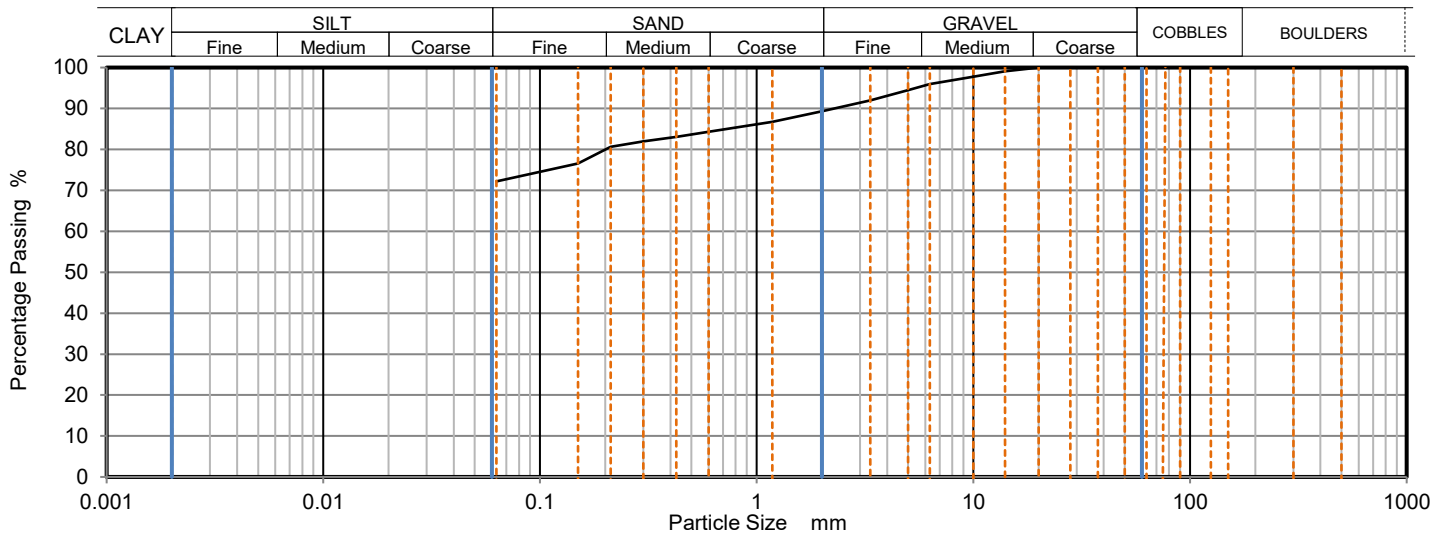
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 17/06/2026
Sampled By: Not Given

Test Results:

Laboratory Reference: 943298
Hole No.: CP402
Sample Reference: 18
Sample Description: Brown slightly gravelly slightly sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 4.70
Depth Base [m]: 4.90
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	98		
6.3	96		
5	95		
3.35	92		
2	89		
1.18	87		
0.6	84		
0.425	83		
0.3	82		
0.212	81		
0.15	77		
0.063	72		

Sample Proportions	% dry mass
Very coarse	0
Gravel	11
Sand	17
Fines <0.063 mm	72

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016,
BS 1377-2:2022 cl. 10



4041

Client: Stantec
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Contact: Tom Creighton
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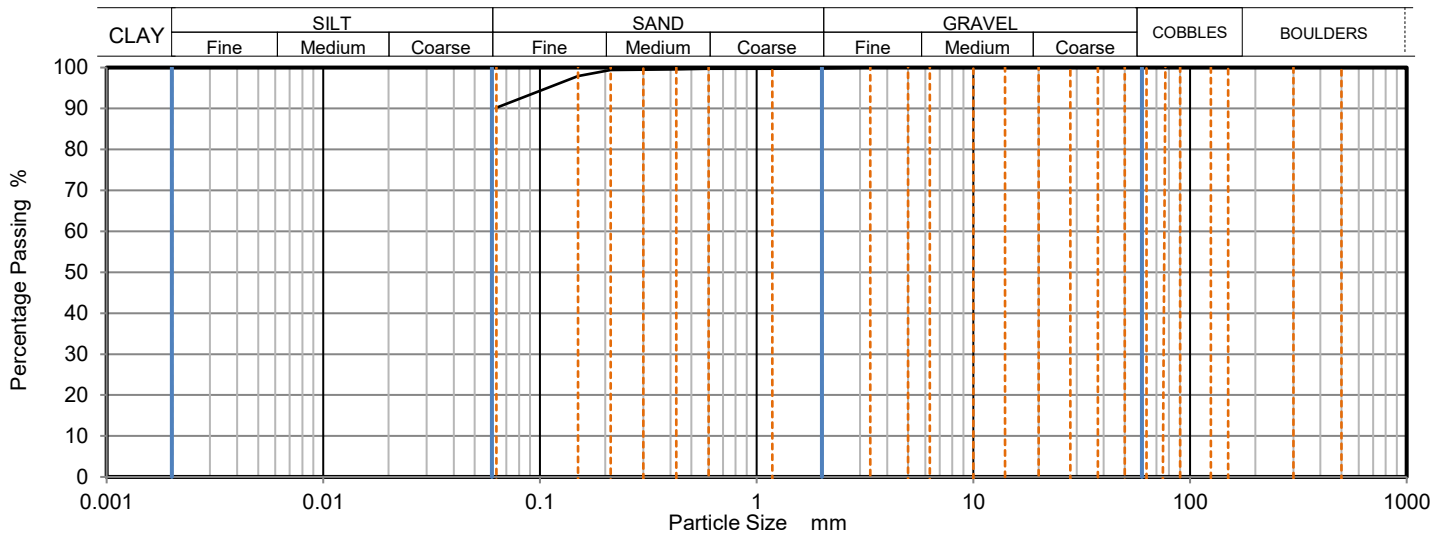
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 17/06/2026
Sampled By: Not Given

Test Results:

Laboratory Reference: 943301
Hole No.: TP401
Sample Reference: 5
Sample Description: Yellowish brown slightly sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 0.90
Depth Base [m]: 1.00
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	99		
0.15	98		
0.063	90		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	10
Fines <0.063 mm	90

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

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BS 1377-2:2022 cl. 10



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Contact: Tom Creighton
Site Address: Imberhorne Farm

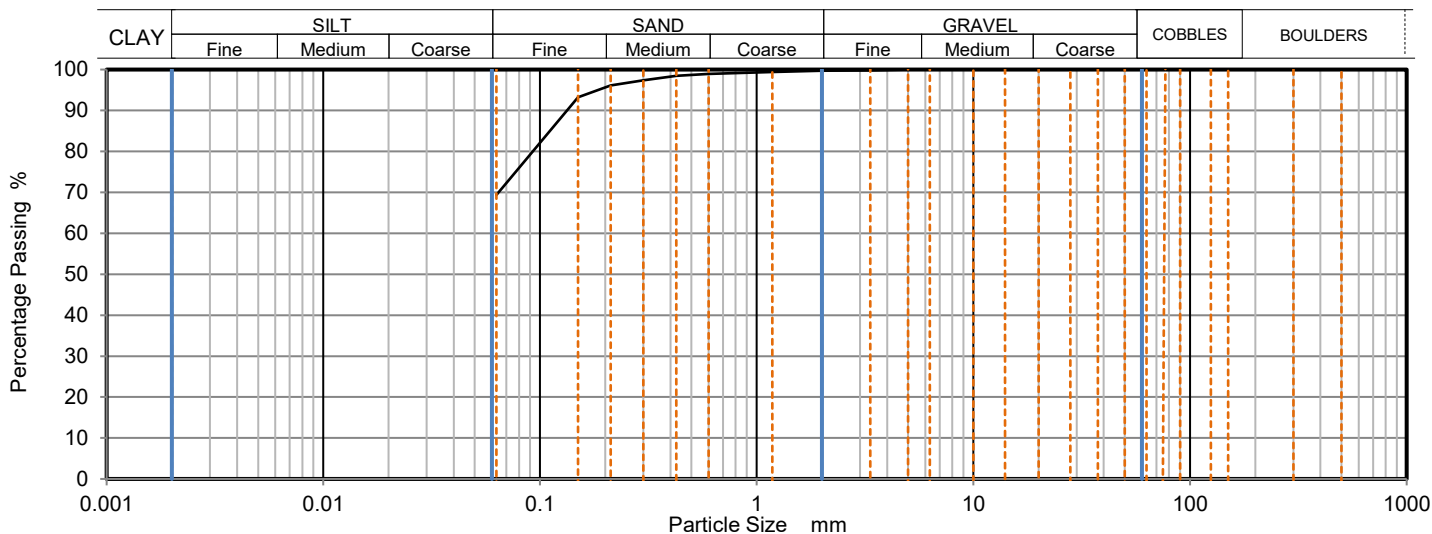
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 17/06/2026
Sampled By: Not Given

Test Results:

Laboratory Reference: 943303
Hole No.: TP406
Sample Reference: 8
Sample Description: Yellowish brown slightly sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 1.80
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	99		
0.6	99		
0.425	99		
0.3	97		
0.212	96		
0.15	93		
0.063	69		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	31
Fines <0.063 mm	69

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

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BS 1377-2:2022 cl. 10



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Client: Stantec
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Contact: Tom Creighton
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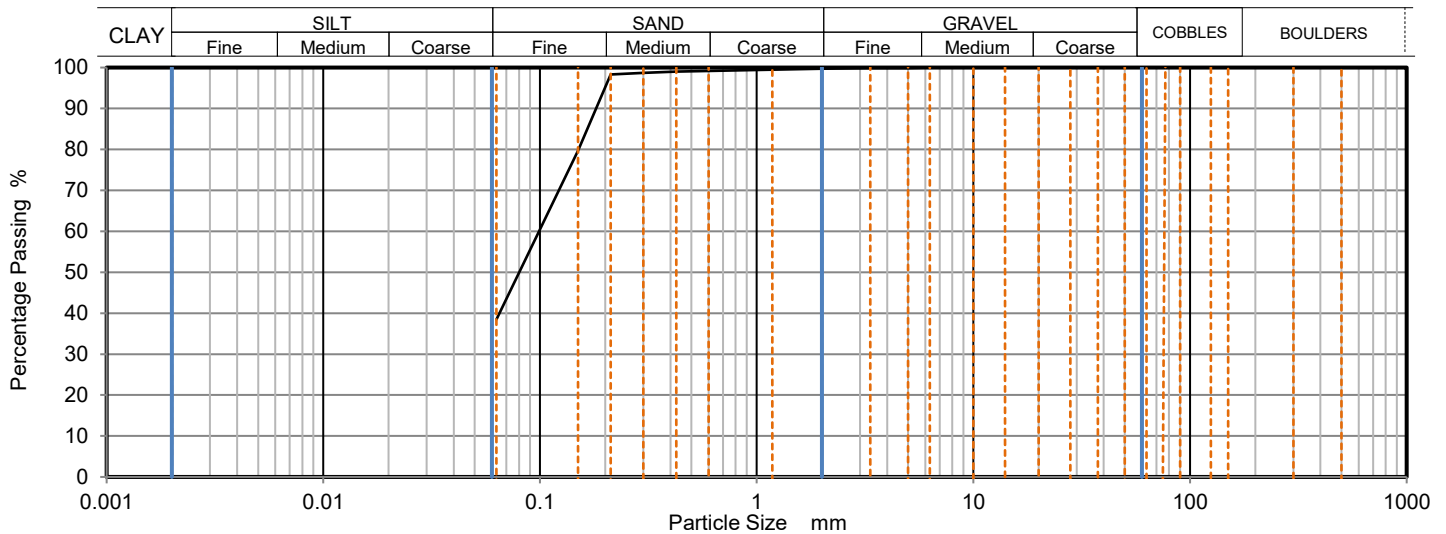
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 17/06/2026
Sampled By: Not Given

Test Results:

Laboratory Reference: 943306
Hole No.: WS401
Sample Reference: 2
Sample Description: Yellowish brown very clayey SAND
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 0.50
Depth Base [m]: 0.60
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	99		
0.3	99		
0.212	98		
0.15	80		
0.063	39		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	62
Fines <0.063 mm	38

Grading Analysis	
D100	mm 6.3
D60	mm 0.0991
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

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DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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BS 1377-2:2022 cl. 10



4041

Client: Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

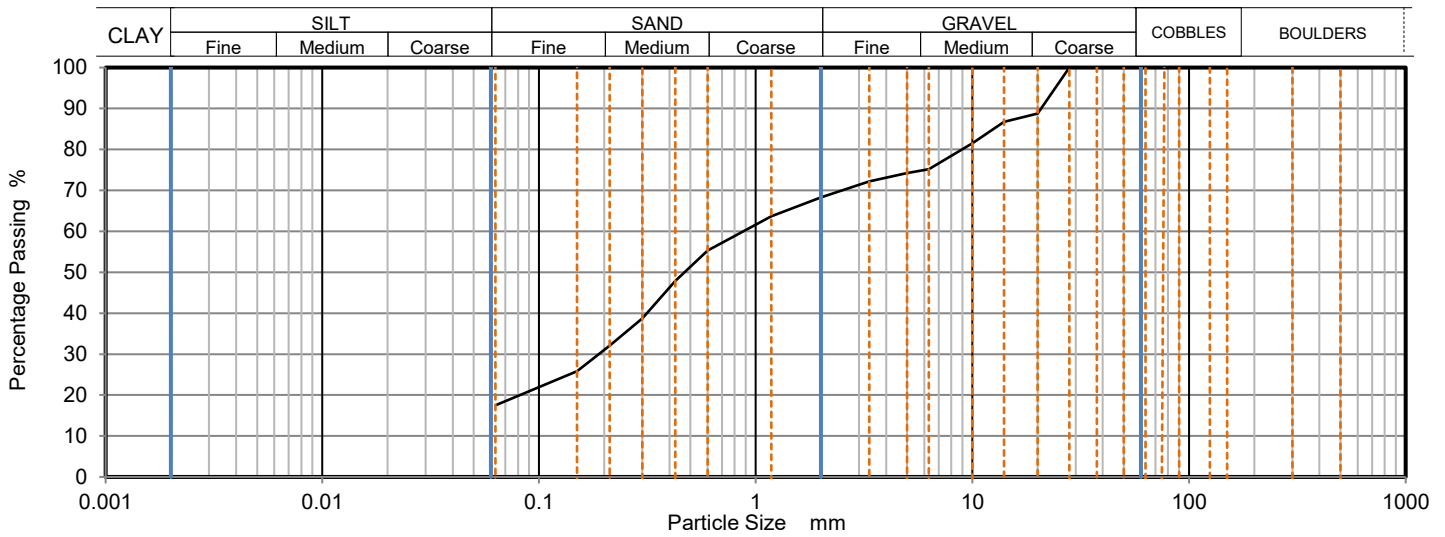
Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 17/06/2026
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 943325
Hole No.: WS417
Sample Reference: 2
Sample Description: Brown very gravelly clayey SAND with fragments of bricks and glass
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 0.50
Depth Base [m]: 0.60
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	89		
14	87		
10	82		
6.3	75		
5	74		
3.35	72		
2	68		
1.18	64		
0.6	55		
0.425	48		
0.3	39		
0.212	32		
0.15	26		
0.063	18		

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	51
Fines <0.063 mm	17

Grading Analysis		
D100	mm	28
D60	mm	0.878
D30	mm	0.189
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

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TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022



4041

Client: Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJ

Contact: Tom Creighton
Site Address: Imberhorne Farm

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 22/06/2026
Sampled By: Not Given

Test Results:

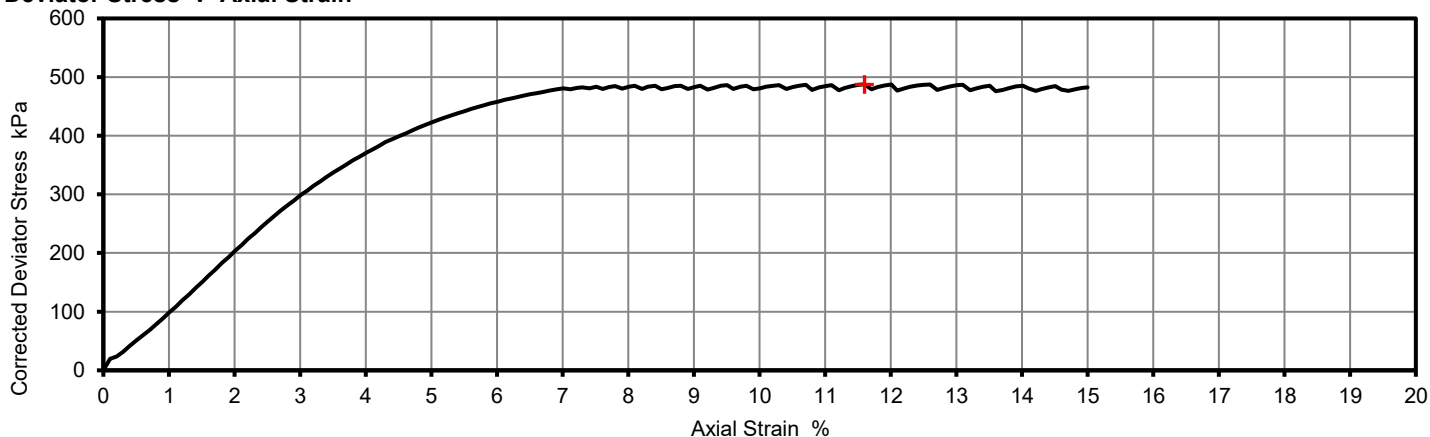
Laboratory Reference: 943292
Hole No.: CP401
Sample Reference: 13
Sample Description: Light brown silty CLAY
Sample Preparation: Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.

Depth Top [m]: 3.00
Depth Base [m]: 3.45
Sample Type: U

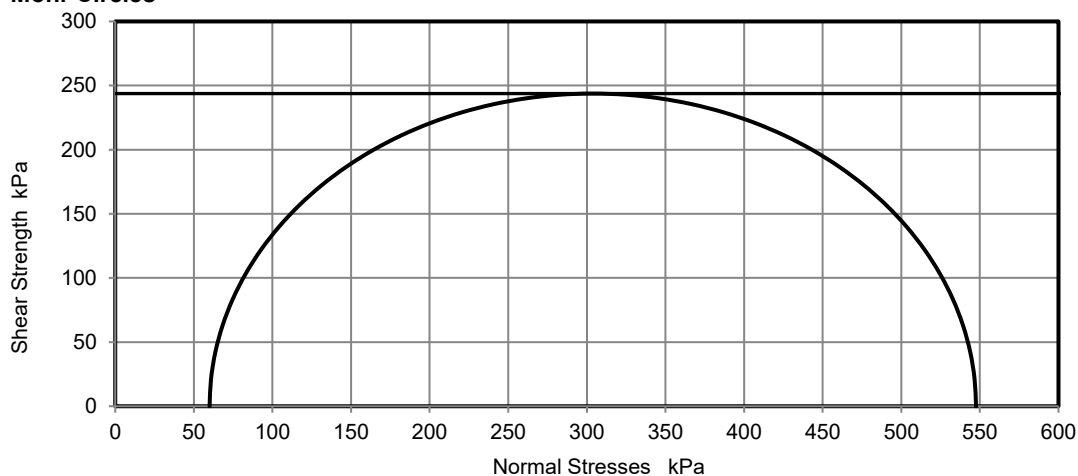
Test Number	1
Depth within Sample	- m
Length	200.03 mm
Diameter	103.94 mm
Length Prior to Shearing	200.03 mm
Bulk Density	2.23 Mg/m ³
Initial Water Content	12.6 %
Final Water Content	12.4 %
Dry Density	1.98 Mg/m ³

Rate of Strain	1.00 %/min
Cell Pressure	60 kPa
Axial Strain at Failure	11.6 %
Deviator Stress, ($\sigma_v - \sigma_h$)	488 kPa
Undrained Shear Strength, c_u	244 kPa $\frac{1}{2}(\sigma_v - \sigma_h)$
Mode of Failure	Compound
Membrane Thickness	0.32 mm
Membrane Correction	2.06 kPa

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

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4041

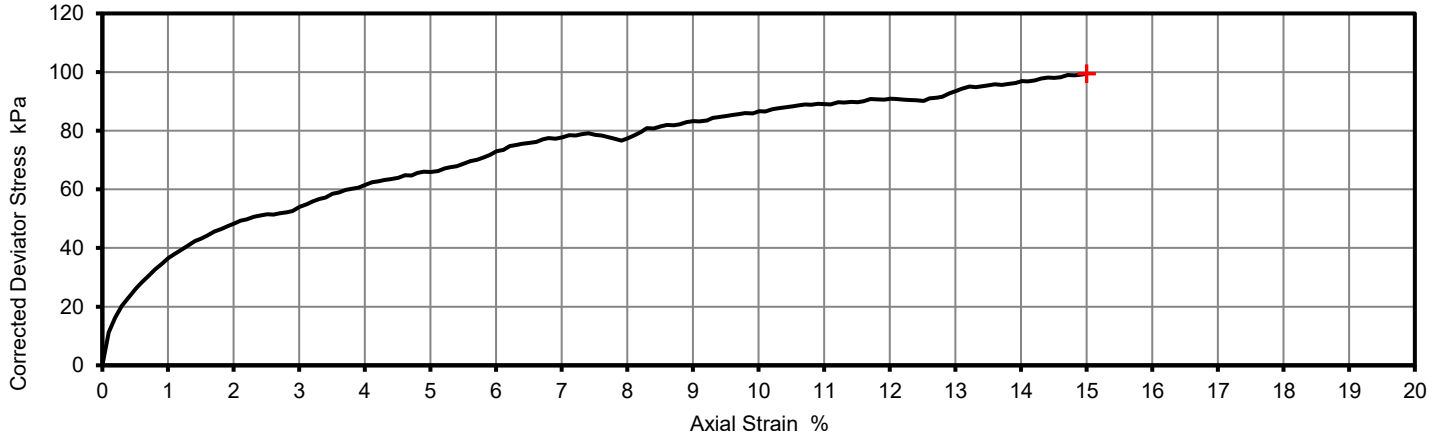
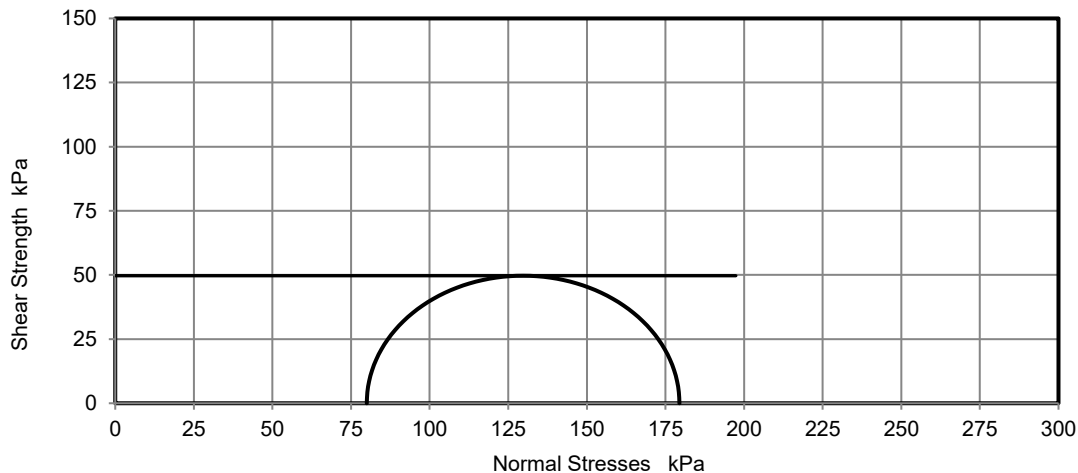
**TEST CERTIFICATE****UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022**Normec**
i2 AnalyticalClient: Stantec
Client Address: 1 Papermill Drive, Redditch,
B988QJContact: Tom Creighton
Site Address: Imberhorne FarmClient Reference: EPL060378
Job Number: 26-030460-1
Date Sampled: Not Given
Date Received: 05/06/2026
Date Tested: 22/06/2026
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

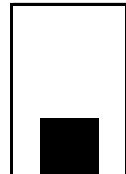
Test Results:Laboratory Reference: 943297
Hole No.: CP402
Sample Reference: 16
Sample Description: Brown silty CLAY
Sample Preparation: Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.Depth Top [m]: 4.00
Depth Base [m]: 4.45
Sample Type: U

Test Number	1
Depth within Sample	- m
Length	101.48 mm
Diameter	50.02 mm
Length Prior to Shearing	101.48 mm
Bulk Density	2.05 Mg/m ³
Initial Water Content	20.2 %
Final Water Content	20.7 %
Dry Density	1.71 Mg/m ³

Rate of Strain	1.00 %/min
Cell Pressure	80 kPa
Axial Strain at Failure	15.0 %
Deviator Stress, ($\sigma_v - \sigma_h$)	99 kPa
Undrained Shear Strength, c_u	50 kPa $\frac{1}{2}(\sigma_v - \sigma_h)$
Mode of Failure	Compound
Membrane Thickness	0.23 mm
Membrane Correction	3.98 kPa

Deviator Stress v Axial Strain**Mohr Circles**

Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:**Signed:**Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

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.

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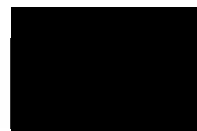
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Analytical Report Number : 26-030461

Project / Site name:	Imberhorne Farm	Samples received on:	05/06/2026
Your job number:	333701756	Samples instructed on/ Analysis started on:	08/06/2026
Your order number:	EPL060378	Analysis completed by:	18/06/2026
Report Issue Number:	1	Report issued on:	19/06/2026
Samples Analysed:	22 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: 26-030461
Project / Site name: Imberhorne Farm
Your Order No: EPL060378

Lab Sample Number	943327	943328	943329	943330	943331
Sample Reference	CP401	CP401	CP401	CP401	CP401
Sample Number	4	9	16	24	34
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.60	1.90	3.90	6.90	11.90
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	29	15	14	11
Total mass of sample received	kg	0.1	NONE	1.1	0.6	0.5	2	2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.4	6.7	5.9	6.6	7.6
Total Sulphate as SO ₄	%	0.005	MCERTS	0.041	0.056	0.014	0.006	0.154
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	64	210	45	22	1300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	31.9	105	22.7	10.8	666
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2	8	-	-	-
Total Sulphur	mg/kg	50	MCERTS	320	570	64	81	6200
Total Sulphur	%	0.005	MCERTS	0.032	0.057	0.006	0.008	0.624
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Nitrate as NO ₃ (Water Soluble) (2:1)	mg/kg	0.9	NONE	15.8	< 0.90	-	-	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	0.9	N/A	7.91	< 0.90	-	-	-

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	2.6	4	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	5.1	8	-	-	-

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

Analytical Report Number: 26-030461
Project / Site name: Imberhorne Farm
Your Order No: EPL060378

Lab Sample Number	943332	943333	943334	943335	943336
Sample Reference	CP401	CP402	CP402	CP402	CP402
Sample Number	38	6	12	19	29
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	14.90	0.90	2.90	4.90	9.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	13	22	14	9.9
Total mass of sample received	kg	0.1	NONE	2	1.1	0.2	1.1	0.7

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.8	7.4	6	6.3	8.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.06	0.025	0.281	0.021	0.082
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	76	55	2200	190	210
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	38.2	27.3	1120	96.1	103
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	2.2	6	-	-
Total Sulphur	mg/kg	50	MCERTS	420	230	3100	150	510
Total Sulphur	%	0.005	MCERTS	0.042	0.023	0.313	0.015	0.051
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Nitrate as NO ₃ (Water Soluble) (2:1)	mg/kg	0.9	NONE	-	4.4	< 0.90	-	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	0.9	N/A	-	2.2	< 0.90	-	-

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	< 2.5	26	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	< 5.0	51	-	-

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

Analytical Report Number: 26-030461
Project / Site name: Imberhorne Farm
Your Order No: EPL060378

Lab Sample Number	943337	943338	943339	943340	943341
Sample Reference	CP402	TP401	TP402	TP412	WS402
Sample Number	34	3	6	3	3
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	12.90	0.50	1.20	0.60	0.70
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	9.4	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	17	18	13	13
Total mass of sample received	kg	0.1	NONE	1.4	0.5	0.5	0.7	0.2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.3	5.8	6.4	6.9	5
Total Sulphate as SO ₄	%	0.005	MCERTS	0.215	0.088	0.026	0.046	0.025
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1600	48	60	53	38
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	799	23.9	30	26.4	19
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	1.6	-
Total Sulphur	mg/kg	50	MCERTS	6900	540	110	410	150
Total Sulphur	%	0.005	MCERTS	0.692	0.054	0.011	0.041	0.015
Organic Matter (automated)	%	0.1	MCERTS	-	-	-	-	-
Nitrate as NO ₃ (Water Soluble) (2:1)	mg/kg	0.9	NONE	-	-	-	10.7	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	0.9	N/A	-	-	-	5.34	-

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	2.6	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	5.2	-

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

Analytical Report Number: 26-030461
Project / Site name: Imberhorne Farm
Your Order No: EPL060378

Lab Sample Number	943342	943343	943344	943345	943346
Sample Reference	WS404	WS404	WS406	WS410	WS414
Sample Number	3	5	5	5	4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50-0.60	1.20-1.65	3.80	3.90	1.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	14	17	9.7	14
Total mass of sample received	kg	0.1	NONE	0.8	0.5	0.5	0.2	0.1

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	-	-	5.1	7.6	8
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	0.03	0.007	0.012
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	23	47	65
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	11.3	23.6	32.2
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	130	< 50	50
Total Sulphur	%	0.005	MCERTS	-	-	0.013	< 0.005	0.005
Organic Matter (automated)	%	0.1	MCERTS	0.6	0.4	-	-	-
Nitrate as NO ₃ (Water Soluble) (2:1)	mg/kg	0.9	NONE	-	-	-	-	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	0.9	N/A	-	-	-	-	-

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	-	-

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

Analytical Report Number: 26-030461
Project / Site name: Imberhorne Farm
Your Order No: EPL060378

Lab Sample Number				943347	943348
Sample Reference				WS415	WS416
Sample Number				2	4
Water Matrix				N/A	N/A
Depth (m)				1.50	2.50
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	20
Total mass of sample received	kg	0.1	NONE	0.2	0.6

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.2	7.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.03	0.054
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	82	370
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	40.8	184
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	5.5
Total Sulphur	mg/kg	50	MCERTS	120	640
Total Sulphur	%	0.005	MCERTS	0.012	0.064
Organic Matter (automated)	%	0.1	MCERTS	-	-
Nitrate as NO ₃ (Water Soluble) (2:1)	mg/kg	0.9	NONE	-	< 0.90
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	0.9	N/A	-	< 0.90

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	6.2
Magnesium (water soluble)	mg/kg	5	NONE	-	12

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

Analytical Report Number : 26-030461
Project / Site name: Imberhorne Farm

* 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 *
943327	CP401	4	0.6	Brown loam and sand with vegetation and gravel
943328	CP401	9	1.9	Brown clay
943329	CP401	16	3.9	Brown clay and sand
943330	CP401	24	6.9	Brown clay and sand
943331	CP401	34	11.9	Brown clay and sand
943332	CP401	38	14.9	Grey clay and sand with gravel
943333	CP402	6	0.9	Brown loam and clay with gravel
943334	CP402	12	2.9	Brown clay
943335	CP402	19	4.9	Brown clay and sand
943336	CP402	29	9	Grey clay and sand
943337	CP402	34	12.9	Grey clay and sand
943338	TP401	3	0.5	Brown loam and sand with gravel and stones
943339	TP402	6	1.2	Light brown clay with gravel
943340	TP412	3	0.6	Brown loam and clay with gravel
943341	WS402	3	0.7	Light brown clay and sand
943342	WS404	3	0.50-0.60	Brown clay and sand
943343	WS404	5	1.20-1.65	Brown clay and sand
943344	WS406	5	3.8	Brown clay
943345	WS410	5	3.9	Light grey clay and sand
943346	WS414	4	1	Light grey clay
943347	WS415	2	1.5	Light brown clay
943348	WS416	4	2.5	Brown clay

Analytical Report Number : 26-030461
Project / Site name: Imberhorne Farm

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
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
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	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
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
Water Soluble Nitrate (2:1) as NO ₃ in soil	Determination of nitrate as NO ₃ in soil by discrete method	In-house method by discrete analyzer based on TON as N, Total Oxidized Nitrogen (Vanadium Chloride reduction), Thermo Fisher Scientific, MANUAL 2015-0	L082B	W	NONE
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

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

Analytical Report Number : 26-030461

Project / Site name: Imberhorne Farm

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
CP401	16	S	943329	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP401	16	S	943329	a	Total Sulphur in soil	L038B	a
CP401	16	S	943329	a	Total sulphate (as SO4 in soil)	L038B	a
CP401	16	S	943329	a	pH in soil (automated)	L099-PL	a
CP401	24	S	943330	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP401	24	S	943330	a	Total Sulphur in soil	L038B	a
CP401	24	S	943330	a	Total sulphate (as SO4 in soil)	L038B	a
CP401	24	S	943330	a	pH in soil (automated)	L099-PL	a
CP401	34	S	943331	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP401	34	S	943331	a	Total Sulphur in soil	L038B	a
CP401	34	S	943331	a	Total sulphate (as SO4 in soil)	L038B	a
CP401	34	S	943331	a	pH in soil (automated)	L099-PL	a
CP401	38	S	943332	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP401	38	S	943332	a	Total Sulphur in soil	L038B	a
CP401	38	S	943332	a	Total sulphate (as SO4 in soil)	L038B	a
CP401	38	S	943332	a	pH in soil (automated)	L099-PL	a
CP401	4	S	943327	a	Chloride, water soluble, in soil	L082B	a
CP401	4	S	943327	a	Magnesium, water soluble, in soil	L038B	a
CP401	4	S	943327	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP401	4	S	943327	a	Total Sulphur in soil	L038B	a
CP401	4	S	943327	a	Total sulphate (as SO4 in soil)	L038B	a
CP401	4	S	943327	a	Water Soluble Nitrate (2:1) as N in soil	L082B	a
CP401	4	S	943327	a	Water Soluble Nitrate (2:1) as NO3 in soil	L082B	a
CP401	4	S	943327	a	pH in soil (automated)	L099-PL	a
CP401	9	S	943328	a	Chloride, water soluble, in soil	L082B	a
CP401	9	S	943328	a	Magnesium, water soluble, in soil	L038B	a
CP401	9	S	943328	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP401	9	S	943328	a	Total Sulphur in soil	L038B	a
CP401	9	S	943328	a	Total sulphate (as SO4 in soil)	L038B	a
CP401	9	S	943328	a	Water Soluble Nitrate (2:1) as N in soil	L082B	a
CP401	9	S	943328	a	Water Soluble Nitrate (2:1) as NO3 in soil	L082B	a
CP401	9	S	943328	a	pH in soil (automated)	L099-PL	a
CP402	12	S	943334	a	Chloride, water soluble, in soil	L082B	a
CP402	12	S	943334	a	Magnesium, water soluble, in soil	L038B	a
CP402	12	S	943334	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP402	12	S	943334	a	Total Sulphur in soil	L038B	a
CP402	12	S	943334	a	Total sulphate (as SO4 in soil)	L038B	a
CP402	12	S	943334	a	Water Soluble Nitrate (2:1) as N in soil	L082B	a
CP402	12	S	943334	a	Water Soluble Nitrate (2:1) as NO3 in soil	L082B	a
CP402	12	S	943334	a	pH in soil (automated)	L099-PL	a
CP402	19	S	943335	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP402	19	S	943335	a	Total Sulphur in soil	L038B	a
CP402	19	S	943335	a	Total sulphate (as SO4 in soil)	L038B	a
CP402	19	S	943335	a	pH in soil (automated)	L099-PL	a
CP402	29	S	943336	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP402	29	S	943336	a	Total Sulphur in soil	L038B	a
CP402	29	S	943336	a	Total sulphate (as SO4 in soil)	L038B	a
CP402	29	S	943336	a	pH in soil (automated)	L099-PL	a
CP402	34	S	943337	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP402	34	S	943337	a	Total Sulphur in soil	L038B	a
CP402	34	S	943337	a	Total sulphate (as SO4 in soil)	L038B	a
CP402	34	S	943337	a	pH in soil (automated)	L099-PL	a
CP402	6	S	943333	a	Chloride, water soluble, in soil	L082B	a
CP402	6	S	943333	a	Magnesium, water soluble, in soil	L038B	a
CP402	6	S	943333	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
CP402	6	S	943333	a	Total Sulphur in soil	L038B	a

Analytical Report Number : 26-030461

Project / Site name: Imberhorne Farm

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
CP402	6	S	943333	a	Total sulphate (as SO ₄ in soil)	L038B	a
CP402	6	S	943333	a	Water Soluble Nitrate (2:1) as N in soil	L082B	a
CP402	6	S	943333	a	Water Soluble Nitrate (2:1) as NO ₃ in soil	L082B	a
CP402	6	S	943333	a	pH in soil (automated)	L099-PL	a
TP401	3	S	943338	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
TP401	3	S	943338	a	Total Sulphur in soil	L038B	a
TP401	3	S	943338	a	Total sulphate (as SO ₄ in soil)	L038B	a
TP401	3	S	943338	a	pH in soil (automated)	L099-PL	a
TP402	6	S	943339	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
TP402	6	S	943339	a	Total Sulphur in soil	L038B	a
TP402	6	S	943339	a	Total sulphate (as SO ₄ in soil)	L038B	a
TP402	6	S	943339	a	pH in soil (automated)	L099-PL	a
TP412	3	S	943340	a	Chloride, water soluble, in soil	L082B	a
TP412	3	S	943340	a	Magnesium, water soluble, in soil	L038B	a
TP412	3	S	943340	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
TP412	3	S	943340	a	Total Sulphur in soil	L038B	a
TP412	3	S	943340	a	Total sulphate (as SO ₄ in soil)	L038B	a
TP412	3	S	943340	a	Water Soluble Nitrate (2:1) as N in soil	L082B	a
TP412	3	S	943340	a	Water Soluble Nitrate (2:1) as NO ₃ in soil	L082B	a
TP412	3	S	943340	a	pH in soil (automated)	L099-PL	a
WS402	3	S	943341	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
WS402	3	S	943341	a	Total Sulphur in soil	L038B	a
WS402	3	S	943341	a	Total sulphate (as SO ₄ in soil)	L038B	a
WS402	3	S	943341	a	pH in soil (automated)	L099-PL	a
WS404	3	S	943342	a	Organic matter (Automated) in soil	L009B	a
WS404	5	S	943343	a	Organic matter (Automated) in soil	L009B	a
WS406	5	S	943344	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
WS406	5	S	943344	a	Total Sulphur in soil	L038B	a
WS406	5	S	943344	a	Total sulphate (as SO ₄ in soil)	L038B	a
WS406	5	S	943344	a	pH in soil (automated)	L099-PL	a
WS410	5	S	943345	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
WS410	5	S	943345	a	Total Sulphur in soil	L038B	a
WS410	5	S	943345	a	Total sulphate (as SO ₄ in soil)	L038B	a
WS410	5	S	943345	a	pH in soil (automated)	L099-PL	a
WS414	4	S	943346	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
WS414	4	S	943346	a	Total Sulphur in soil	L038B	a
WS414	4	S	943346	a	Total sulphate (as SO ₄ in soil)	L038B	a
WS414	4	S	943346	a	pH in soil (automated)	L099-PL	a
WS415	2	S	943347	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
WS415	2	S	943347	a	Total Sulphur in soil	L038B	a
WS415	2	S	943347	a	Total sulphate (as SO ₄ in soil)	L038B	a
WS415	2	S	943347	a	pH in soil (automated)	L099-PL	a
WS416	4	S	943348	a	Chloride, water soluble, in soil	L082B	a
WS416	4	S	943348	a	Magnesium, water soluble, in soil	L038B	a
WS416	4	S	943348	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
WS416	4	S	943348	a	Total Sulphur in soil	L038B	a
WS416	4	S	943348	a	Total sulphate (as SO ₄ in soil)	L038B	a
WS416	4	S	943348	a	Water Soluble Nitrate (2:1) as N in soil	L082B	a
WS416	4	S	943348	a	Water Soluble Nitrate (2:1) as NO ₃ in soil	L082B	a
WS416	4	S	943348	a	pH in soil (automated)	L099-PL	a

Client Rangeford	Location or material to which this assessment applies Geology A		
Project Imberhorne Farm			
Job number 333701756			

Concrete in aggressive ground		After BRE Special Digest 1:2005 + 2017 3e	
Soil data			
	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	45	0	
No. tests in 20% data set	9		
No. tests with suspected pyrite		0	
Maximum value	2100		
Mean of highest two values	2000		
Mean of highest 20%	1400		
Characteristic Value	1400		
	[no pyrite]	[pyrite suspected]	
DS Class	DS-2		
If pyrite suspected, DS Class limited to			
Is pyrite assumed to be present? No Adopted DS Class = DS-2			
Water data			
	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)	
Characteristic Value (Maximum Level)	0	0	
DS Class			
pH data			
	Soil	Water	
Number of tests	45	0	
No. tests in 20% data set	9		
Lowest pH	5.0		
Mean of lowest 20%	5.7		
Characteristic value	5.7		
Design value	5.7		
Number of soil pH results less than 5.5 2			
DS Class design value		ACEC Class design value	
Based on higher of soil and water data		Natural ground	Mobile groundwater
		DS-2	AC-2

Client Rangeford	Location or material to which this assessment applies Grinstead Clay Member		
Project Imberhorne Farm			
Job number 333701756			

Concrete in aggressive ground		After BRE Special Digest 1:2005 + 2017 3e	
Soil data			
	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	10	10	
No. tests in 20% data set	2	2	
No. tests with suspected pyrite		2	
Maximum value	799	2.1	
Mean of highest two values	733	2	
Mean of highest 20%	700	2	
Characteristic Value	700	2	
	[no pyrite]	[pyrite suspected]	
DS Class	DS-2	DS-4	
If pyrite suspected, DS Class limited to		DS-4	
Is pyrite assumed to be present?	No	Adopted DS Class =	DS-2
Water data			
	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)	
Characteristic Value (Maximum Level)	0	0	
DS Class			
pH data			
	Soil	Water	
Number of tests	10	0	
No. tests in 20% data set	2		
Lowest pH	5.1		
Mean of lowest 20%	5.9		
Characteristic value	5.9		
Design value	5.9		
Number of soil pH results less than 5.5	1		
DS Class design value		ACEC Class design value	
Based on higher of soil and water data		Natural ground	Mobile groundwater
		DS-2	AC-2

Client Rangeford	Location or material to which this assessment applies Made Ground
Project Imberhorne Farm	
Job number 333701756	

Concrete in aggressive ground

After BRE Special Digest 1:2005 + 2017 3e

Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	4	4	2
No. tests in 20% data set	1	1	
No. tests with suspected pyrite		0	
Maximum value	34.6	0.2	2.6
Mean of highest two values	32	0	3
Mean of highest 20%			
Characteristic Value	34.6	0.2	2.6
			Mg not required
	[no pyrite]	[pyrite suspected]	
DS Class	DS-1	DS-1	
If pyrite suspected, DS Class limited to		DS-1	
Is pyrite assumed to be present?	No	Adopted DS Class =	DS-1

Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
Characteristic Value (Maximum Level)	0	0
		Mg not required
DS Class		

pH data

	Soil	Water
Number of tests	4	0
No. tests in 20% data set	1	
Lowest pH	5.8	
Mean of lowest 20%	5.8	
Characteristic value	5.8	
Design value	5.8	

Number of soil pH results less than 5.5 0

DS Class design value

Based on higher of soil and water data

ACEC Class design value

Brownfield
Mobile groundwater **AC-2z**

DS-1

Client Rangeford	Location or material to which this assessment applies Upper Tunbridge Wells Sand		
Project Imberhorne Farm			
Job number 333701756			

Concrete in aggressive ground		After BRE Special Digest 1:2005 + 2017 3e	
Soil data			
	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	6	6	1
No. tests in 20% data set	1	1	
No. tests with suspected pyrite		1	
Maximum value	1128.1	0.9	26
Mean of highest two values	622	1	26
Mean of highest 20%			
Characteristic Value	622	1	26
	[no pyrite]	[pyrite suspected]	
DS Class	DS-2	DS-3	
If pyrite suspected, DS Class limited to		DS-3	
Is pyrite assumed to be present?		No	Adopted DS Class = DS-2
Water data			
	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)	
Characteristic Value (Maximum Level)	0	0	
DS Class			
pH data			
	Soil	Water	
Number of tests	6	0	
No. tests in 20% data set	1		
Lowest pH	5.0		
Mean of lowest 20%	5.0		
Characteristic value	5.0		
Design value	5.0		
Number of soil pH results less than 5.5 1			
DS Class design value		ACEC Class design value	
Based on higher of soil and water data		DS-2	Natural ground Mobile groundwater AC-3z

Appendix E Contamination test results

E.1 Contamination test results





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Analytical Report Number : 26-027320

Project / Site name: Imberhorne Farm

Samples received on: 20/05/2026

Your job number: 333701756

**Samples instructed on/
Analysis started on:** 20/05/2026

Your order number: EPL060379

Analysis completed by: 08/06/2026

Report Issue Number: 1

Report issued on: 09/06/2026

Samples Analysed: 6 soil samples

Signe

Adan Cazas Garcia
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: 26-027320

Project / Site name: Imberhorne Farm

Your Order No: EPL060379

Lab Sample Number	927423	927424	927425	927426	927427
Sample Reference	TP406 ES4	TP403 ES1	TP402 ES4	TP401 ES1	TP412 ES4
Sample Number	4	1	4	1	4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.50	0.40	1.10	0.40	1.00
Date Sampled	18/05/2026	18/05/2026	18/05/2026	18/05/2026	19/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	14.3	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	25	17	20	34
Total mass of sample received	kg	0.1	NONE	0.8	0.6	1.1	0.2	0.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	MJN	MJN	KJK	KJK
Analysis completed	N/A	N/A	N/A	08/06/2026	08/06/2026	08/06/2026	29/05/2026	29/05/2026
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	-	0.002	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	Loose Fibrous Debris	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.3	7	7.1	6	7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	78	80	88	4500
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0029	0.034	0.0033	0.021	0.059
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.3	-	-	2.1	5.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.73
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.25
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	1
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.85
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.33	< 0.05	0.3	2.9
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.09	< 0.05	0.07	1.5
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.1	< 0.05	0.7	8.3
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.96	< 0.05	0.64	7.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.63	< 0.05	0.35	3.6
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.6	< 0.05	0.38	4
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.79	< 0.05	0.49	5.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.29	< 0.05	0.22	1.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.69	< 0.05	0.34	4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.35	< 0.05	0.2	1.8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.09	< 0.05	0.06	0.4
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.4	< 0.05	0.2	2.2

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	6.32	< 0.80	3.94	45.7
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Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number	927423	927424	927425	927426	927427
Sample Reference	TP406 ES4	TP403 ES1	TP402 ES4	TP401 ES1	TP412 ES4
Sample Number	4	1	4	1	4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.50	0.40	1.10	0.40	1.00
Date Sampled	18/05/2026	18/05/2026	18/05/2026	18/05/2026	19/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.3	22	3.9	18	74
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.8	< 0.2	1.7	0.9
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	U/S ^{*U/S g}	< 1.8	U/S ^{*U/S g}	U/S ^{*U/S g}
Chromium (III)	mg/kg	1	NONE	33	U/S ^{*U/S g}	36	U/S ^{*U/S g}	U/S ^{*U/S g}
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	< 1.80	-	< 1.80	< 1.80
Chromium (III) by IC	mg/kg	1	NONE	-	26	-	29	62
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	26	36	29	62
Copper (aqua regia extractable)	mg/kg	1	MCERTS	37	1300	34	380	410
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	130	9.5	210	800
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.8	< 0.3	0.7	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.6	48	9.2	34	120
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.2	< 1.0	2
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	710	180	610	710

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	6.8
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	11
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	29
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	20	< 8.0	18	530
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	240
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	20	< 10	18	570
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	20	< 10	18	820

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	0.019	< 0.010	0.034	0.099
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	5.6
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	34
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	17	< 10	< 10	220
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	98
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	17	< 10	< 10	260
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	17	< 10	< 10	360

VOCs

Chloromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Chloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Bromomethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Trichlorofluoromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1-Dichloroethene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				927423	927424	927425	927426	927427
Sample Reference				TP406 ES4	TP403 ES1	TP402 ES4	TP401 ES1	TP412 ES4
Sample Number				4	1	4	1	4
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.50	0.40	1.10	0.40	1.00
Date Sampled				18/05/2026	18/05/2026	18/05/2026	18/05/2026	19/05/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,1-Dichloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Chloroform	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1,1-Trichloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2-Dichloroethane	µg/kg	7	MCERTS	< 7.0	-	-	-	< 7.0
1,1-Dichloropropene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2-Dichloropropane	µg/kg	6	MCERTS	< 6.0	-	-	-	< 6.0
Trichloroethene	µg/kg	10	MCERTS	< 10	-	-	-	< 10
Dibromomethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Bromodichloromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	< 10	-	-	-	< 10
Toluene	µg/kg	5	MCERTS	< 5.0	19	< 5.0	34	100
1,1,2-Trichloroethane	µg/kg	6	MCERTS	< 6.0	-	-	-	< 6.0
1,3-Dichloropropane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Dibromochloromethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Tetrachloroethene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2-Dibromoethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Chlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Bromoform	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Bromobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
n-Propylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
2-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
4-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
tert-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
sec-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,3-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
p-Isopropyltoluene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,4-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	< 8.0	-	-	-	< 8.0
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Hexachlorobutadiene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Total BTEX	µg/kg	10	MCERTS	< 10	-	-	34	100

Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number	927423	927424	927425	927426	927427
Sample Reference	TP406 ES4	TP403 ES1	TP402 ES4	TP401 ES1	TP412 ES4
Sample Number	4	1	4	1	4
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.50	0.40	1.10	0.40	1.00
Date Sampled	18/05/2026	18/05/2026	18/05/2026	18/05/2026	19/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	0.5
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	0.5
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	-	-	-	< 0.2
Azobenzene	mg/kg	0.3	NONE	< 0.3	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.30	-	-	-	< 0.30
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	0.4
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	-	-	-	1.5
Anthraquinone	mg/kg	0.3	NONE	< 0.3	-	-	-	< 0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	-	-	-	< 0.3

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



Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				927428
Sample Reference				TP410 ES1
Sample Number				1
Water Matrix				N/A
Depth (m)				0.20
Date Sampled				19/05/2026
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Mass of stone >10mm	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.1	NONE	0.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KJK
Analysis completed	N/A	N/A	N/A	29/05/2026
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	6.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	33
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0096
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-

Speciated PAHs

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80
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Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number	927428			
Sample Reference	TP410 ES1			
Sample Number	1			
Water Matrix	N/A			
Depth (m)	0.20			
Date Sampled	19/05/2026			
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	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (III)	mg/kg	1	NONE	28
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-
Chromium (III) by IC	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.8
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10

VOCs

Chloromethane	µg/kg	5	MCERTS	-
Chloroethane	µg/kg	5	MCERTS	-
Bromomethane	µg/kg	5	MCERTS	-
Vinyl Chloride	µg/kg	5	NONE	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0



Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				927428
Sample Reference				TP410 ES1
Sample Number				1
Water Matrix				N/A
Depth (m)				0.20
Date Sampled				19/05/2026
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
1,1-Dichloroethane	µg/kg	5	MCERTS	-
2,2-Dichloropropane	µg/kg	5	NONE	-
Chloroform	µg/kg	5	MCERTS	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-
Benzene	µg/kg	5	MCERTS	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-
Trichloroethene	µg/kg	10	MCERTS	-
Dibromomethane	µg/kg	5	MCERTS	-
Bromodichloromethane	µg/kg	5	MCERTS	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-
Toluene	µg/kg	5	MCERTS	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-
Dibromochloromethane	µg/kg	5	MCERTS	-
Tetrachloroethene	µg/kg	5	MCERTS	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-
Chlorobenzene	µg/kg	5	MCERTS	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
Styrene	µg/kg	5	MCERTS	-
Bromoform	µg/kg	5	MCERTS	-
o-Xylene	µg/kg	5	MCERTS	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-
Bromobenzene	µg/kg	5	MCERTS	-
n-Propylbenzene	µg/kg	5	MCERTS	-
2-Chlorotoluene	µg/kg	5	MCERTS	-
4-Chlorotoluene	µg/kg	5	MCERTS	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-
tert-Butylbenzene	µg/kg	5	MCERTS	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-
sec-Butylbenzene	µg/kg	5	MCERTS	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-
Butylbenzene	µg/kg	5	MCERTS	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-
Total BTEX	µg/kg	10	MCERTS	-



Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				927428
Sample Reference				TP410 ES1
Sample Number				1
Water Matrix				N/A
Depth (m)				0.20
Date Sampled				19/05/2026
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

SVOCs

Aniline	mg/kg	0.1	NONE	-
Phenol	mg/kg	0.2	ISO 17025	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-
2-Methylphenol	mg/kg	0.3	MCERTS	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-
Nitrobenzene	mg/kg	0.3	MCERTS	-
4-Methylphenol	mg/kg	0.2	NONE	-
Isophorone	mg/kg	0.2	MCERTS	-
2-Nitrophenol	mg/kg	0.3	NONE	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-
4-Chloroaniline	mg/kg	0.1	NONE	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-
Dibenzofuran	mg/kg	0.2	MCERTS	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-
4-Nitroaniline	mg/kg	0.2	NONE	-
Azobenzene	mg/kg	0.3	NONE	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-
Carbazole	mg/kg	0.3	MCERTS	-
Dibutyl phthalate	mg/kg	0.2	NONE	-
Anthraquinone	mg/kg	0.3	NONE	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-

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



Analytical Report Number: 26-027320
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

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.

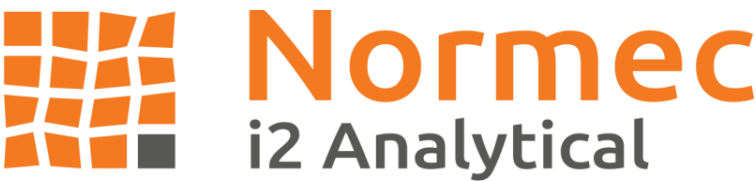
The limit of detection (reporting limit) of this method is 0.001 %.

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
927424	TP403 ES1	0.4	102	Loose Fibrous Debris	Chrysotile	0.002	0.002	08/06/2026	MJN

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



Analytical Report Number : 26-027320
Project / Site name: Imberhorne Farm

* 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 *
927423	TP406 ES4	4	1.5	Brown clay and sand with gravel
927424	TP403 ES1	1	0.4	Brown clay and sand with gravel and stones
927425	TP402 ES4	4	1.1	Brown clay and sand with gravel
927426	TP401 ES1	1	0.4	Brown sandy clay with gravel and vegetation
927427	TP412 ES4	4	1	Brown sandy clay with glass and vegetation
927428	TP410 ES1	1	0.2	Brown sand with gravel and vegetation

Analytical Report Number : 26-027320

Project / Site name: Imberhorne Farm

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
Total organic carbon (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
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
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	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
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID 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
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
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
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
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE



Analytical Report Number : 26-027320
Project / Site name: Imberhorne Farm

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 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
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

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 aravimetrically 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.



Analytical Report Number : 26-027320
Project / Site name: Imberhorne Farm

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
TP401 ES1	1	S	927426	b	Asbestos identification in Soil	A001B	b
TP410 ES1	1	S	927428	b	Asbestos identification in Soil	A001B	b
TP412 ES4	4	S	927427	b	Asbestos identification in Soil	A001B	b



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Analytical Report Number : 26-028565

Project / Site name:	Imberhorne Farm	Samples received on:	27/05/2026
Your job number:	333701756	Samples instructed on/ Analysis started on:	28/05/2026
Your order number:	EPL060379	Analysis completed by:	09/06/2026
Report Issue Number:	1	Report issued on:	09/06/2026
Samples Analysed:	2 soil samples		

Signed: _____

Dominika Liana
Junior Reporting Specialist
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: 26-028565
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number	933632			933633	
Sample Reference	WS416 ES1			WS416 ES3	
Sample Number	None Supplied			None Supplied	
Water Matrix	N/A			N/A	
Depth (m)	0.50			2.30	
Date Sampled	22/05/2026			22/05/2026	
Time Taken	None Supplied			None Supplied	
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	17
Total mass of sample received	kg	0.1	NONE	0.6	1

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WEM	WEM
Analysis completed	N/A	N/A	N/A	09/06/2026	09/06/2026

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	330	240
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.016	0.0039

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	3.5	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	2.4	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	3.2	< 0.05
Fluorene	mg/kg	0.05	MCERTS	7.6	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	45	0.18
Anthracene	mg/kg	0.05	MCERTS	13	0.06
Fluoranthene	mg/kg	0.05	MCERTS	49	0.43
Pyrene	mg/kg	0.05	MCERTS	38	0.45
Benzo(a)anthracene	mg/kg	0.05	MCERTS	21	0.32
Chrysene	mg/kg	0.05	MCERTS	16	0.29
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	20	0.51
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	6.9	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	17	0.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	7.3	0.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.06
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	7.6	0.39

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	257	3.71
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	31	26
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	99	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	110	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.8
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	75



Analytical Report Number: 26-028565
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				933632	933633
Sample Reference				WS416 ES1	WS416 ES3
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				0.50	2.30
Date Sampled				22/05/2026	22/05/2026
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	68	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	8.6	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	68	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	77	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	2.3	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	35	2.8
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	150	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	230	27
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	26	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	420	30
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	450	30

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0

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



Analytical Report Number : 26-028565
Project / Site name: Imberhorne Farm

* 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 *
933632	WS416 ES1	None Supplied	0.5	Brown clay and loam with gravel
933633	WS416 ES3	None Supplied	2.3	Brown clay and sand with gravel

Analytical Report Number : 26-028565

Project / Site name: Imberhorne Farm

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
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
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
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	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
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID 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
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
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
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
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS



Analytical Report Number : 26-028565
Project / Site name: Imberhorne Farm

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

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Analytical Report Number : 26-028567

Project / Site name:	Imberhorne Farm	Samples received on:	28/05/2026
Your job number:	333701756	Samples instructed on/ Analysis started on:	28/05/2026
Your order number:	EPL060379	Analysis completed by:	08/06/2026
Report Issue Number:	1	Report issued on:	08/06/2026
Samples Analysed:	4 soil samples - 1 leachate sample		

Signed: _____

Dominika Liana
Junior Reporting Specialist
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: 26-028567
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number	933635	933636	933637	933638
Sample Reference	WS413 ES3	WS406 ES3	WS410 ES1	WS415 ES1
Sample Number	3	3	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	1.00	1.80	0.50	0.50
Date Sampled	21/05/2026	22/05/2026	22/05/2026	22/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	41	22	17
Total mass of sample received	kg	0.1	NONE	0.2	0.5	0.5	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU	SPU
Analysis completed	N/A	N/A	N/A	08/06/2026	08/06/2026	08/06/2026	08/06/2026
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	-	-	0.012	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	Sheeting/Board Debris	-
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General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	-	-	7.3
pH (L099)	pH Units	N/A	MCERTS	7.8	6.5	7.2	7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	1.2	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	5000	270	87
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0036	0.069	0.03	0.0086
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	0.9
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	-	-	3.7
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	-	-	-	0.53

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.4	0.07	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.09	0.1	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	1	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.67	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.1	0.66	0.47
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.39	0.22	0.1
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	3.8	2.5	1.2
Pyrene	mg/kg	0.05	MCERTS	< 0.05	3.2	2.3	1.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.6	1.4	0.59
Chrysene	mg/kg	0.05	MCERTS	< 0.05	1.8	1.5	0.62
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	2.3	2.4	0.78
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.97	0.94	0.34
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.6	1.8	0.57
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.89	1.2	0.59
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.24	0.28	0.13
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.96	1.4	0.67
Coronene	mg/kg	0.05	NONE	-	-	-	0.16

Analytical Report Number: 26-028567
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				933635	933636	933637	933638
Sample Reference				WS413 ES3	WS406 ES3	WS410 ES1	WS415 ES1
Sample Number				3	3	1	1
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				1.00	1.80	0.50	0.50
Date Sampled				21/05/2026	22/05/2026	22/05/2026	22/05/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	21	16.7	7.15
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	-	7.3

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.8	150	31	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.1	1.1	1.8	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	U/S *U/S g	U/S *U/S g	< 1.8
Chromium (III)	mg/kg	1	NONE	37	U/S *U/S g	U/S *U/S g	27
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	< 1.80	< 1.80	-
Chromium (III) by IC	mg/kg	1	NONE	-	61	48	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	37	61	48	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	65	580	580	320
Lead (aqua regia extractable)	mg/kg	1	MCERTS	36	1100	190	64
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	3.1	1	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	50	130	66	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.1	< 1.0	1.9
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	240	1000	2100	150

Petroleum Hydrocarbons

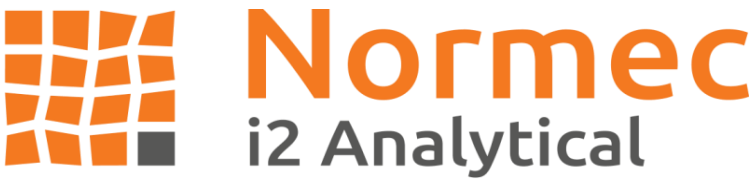
TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	13	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	70	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	620	68	12
TPHCWG - Aliphatic >EC35 - EC44 EH_CU_1D_AL	mg/kg	8.4	NONE	< 8.4	98	26	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	710	68	12
TPHCWG - Aliphatic >EC5 - EC44 EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	800	95	12

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	6	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	39	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	210	46	< 10
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	< 8.4	44	10	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	260	46	< 10
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	300	56	< 10

Mineral Oil (EC10 - EC40) EH_CU_1D_AL	mg/kg	10	NONE	-	-	-	16
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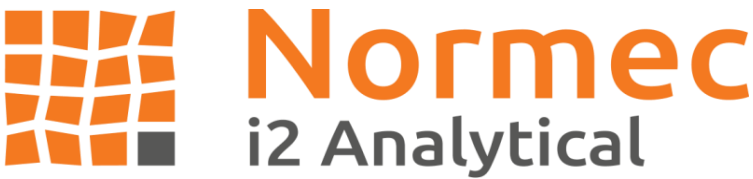
VOCs

Chloromethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Chloroethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Bromomethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-



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Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				933635	933636	933637	933638
Sample Reference				WS413 ES3	WS406 ES3	WS410 ES1	WS415 ES1
Sample Number				3	3	1	1
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				1.00	1.80	0.50	0.50
Date Sampled				21/05/2026	22/05/2026	22/05/2026	22/05/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	< 5.0	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	< 5.0	-
Chloroform	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	< 7.0	< 7.0	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	< 6.0	< 6.0	-
Trichloroethene	µg/kg	10	MCERTS	-	< 10	< 10	-
Dibromomethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Bromodichloromethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	< 10	< 10	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	< 6.0	< 6.0	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Dibromochloromethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Tetrachloroethene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Chlorobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Bromoform	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	< 5.0	-
Bromobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
n-Propylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-



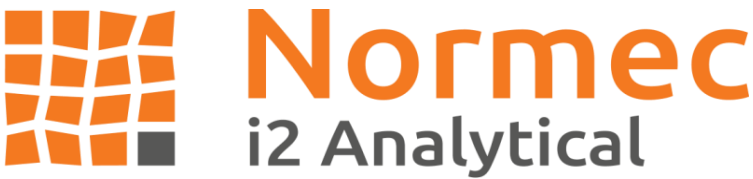
Analytical Report Number: 26-028567
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				933635	933636	933637	933638
Sample Reference				WS413 ES3	WS406 ES3	WS410 ES1	WS415 ES1
Sample Number				3	3	1	1
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				1.00	1.80	0.50	0.50
Date Sampled				21/05/2026	22/05/2026	22/05/2026	22/05/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	< 8.0	< 8.0	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-

Total BTEX	µg/kg	10	MCERTS	-	-	-	< 10
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SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	< 0.2	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	0.2	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1	< 0.1	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2	< 0.2	-
Azobenzene	mg/kg	0.3	NONE	-	< 0.3	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.30	< 0.30	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	0.5	0.4	-
Anthraquinone	mg/kg	0.3	NONE	-	0.4	< 0.3	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3	< 0.3	-



Analytical Report Number: 26-028567
Project / Site name: Imberhorne Farm
Your Order No: EPL060379

Lab Sample Number				933635	933636	933637	933638
Sample Reference				WS413 ES3	WS406 ES3	WS410 ES1	WS415 ES1
Sample Number				3	3	1	1
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				1.00	1.80	0.50	0.50
Date Sampled				21/05/2026	22/05/2026	22/05/2026	22/05/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	< 0.007

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



Analytical Report Number: **26-028567**
Project / Site name: **Imberhorne Farm**
Your Order No: **EPL060379**

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
933637	WS410 ES1	0.5	100	Sheeting/Board Debris	Chrysotile	0.012	0.012	08/06/2026	SPU

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



Analytical Report Number: 26-028567
Project / Site name: Imberhorne Farm

Your Order No: EPL060379

Lab Sample Number				933638
Sample Reference				WS415 ES1
Sample Number				1
Water Matrix				N/A
Depth (m)				0.50
Date Sampled				22/05/2026
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status	

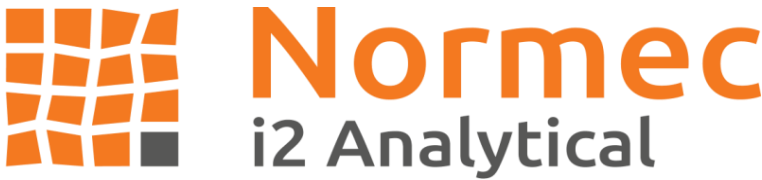
10:1 WAC Leachate

Arsenic	mg/l	0.001	ISO 17025	< 0.00100
Barium	mg/l	0.00005	ISO 17025	0.00583
Cadmium	mg/l	0.0001	ISO 17025	< 0.000100
Chromium	mg/l	0.0004	ISO 17025	< 0.00040
Copper	mg/l	0.0007	ISO 17025	0.00077
Mercury	mg/l	0.0005	ISO 17025	< 0.000500
Molybdenum	mg/l	0.0004	ISO 17025	< 0.000400
Nickel	mg/l	0.0003	ISO 17025	< 0.00030
Lead	mg/l	0.001	ISO 17025	< 0.0010
Antimony	mg/l	0.0017	ISO 17025	< 0.0017
Selenium	mg/l	0.004	ISO 17025	< 0.0040
Zinc	mg/l	0.0004	ISO 17025	0.0045
Chloride	mg/l	0.15	ISO 17025	1.1
Fluoride	mg/l	0.05	ISO 17025	0.092
Sulphate	mg/l	0.045	ISO 17025	3.4
Total dissolved solids	mg/l	6	ISO 17025	17
Total monohydric phenols	mg/l	0.01	ISO 17025	< 0.010
Dissolved organic carbon	mg/l	0.1	NONE	6.08

10:1 WAC Leachate

Arsenic	mg/kg	0.01	NONE	< 0.0100
Barium	mg/kg	0.0005	NONE	0.0583
Cadmium	mg/kg	0.001	NONE	< 0.00100
Chromium	mg/kg	0.004	NONE	< 0.0040
Copper	mg/kg	0.007	NONE	0.0077
Mercury	mg/kg	0.005	NONE	< 0.00500
Molybdenum	mg/kg	0.004	NONE	< 0.00400
Nickel	mg/kg	0.003	NONE	< 0.0030
Lead	mg/kg	0.01	NONE	< 0.010
Antimony	mg/kg	0.017	NONE	< 0.017
Selenium	mg/kg	0.04	NONE	< 0.040
Zinc	mg/kg	0.004	NONE	0.045
Chloride	mg/kg	1.5	NONE	11
Fluoride	mg/kg	0.5	NONE	0.92
Sulphate	mg/kg	0.45	NONE	34
Total dissolved solids	mg/kg	60	NONE	170
Total monohydric phenols	mg/kg	0.1	NONE	< 0.10
Dissolved organic carbon	mg/kg	1	NONE	60.7

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



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Waste Acceptance Criteria Analytical Results							
Report No:	26-028567						
					Client: Stantec		
Location	Imberhorne Farm						
Lab Reference (Sample Number)	933638				Landfill Waste Acceptance Criteria		
Sampling Date	22/05/2026				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS415 ES1 1						
Depth (m)	0.50						
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	3.7				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	16				500	--	--
Total PAH (WAC-17) (mg/kg)	7.3				100	--	--
pH (units)**	7.3				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0.53				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.00583			0.0583	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	< 0.00040			< 0.0040	0.5	10	70
Copper *	0.00077			0.0077	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	< 0.000400			< 0.00400	0.5	10	30
Nickel *	< 0.00030			< 0.0030	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0045			0.045	4	50	200
Chloride *	1.1			11	800	15000	25000
Fluoride*	0.092			0.92	10	150	500
Sulphate *	3.4			34	1000	20000	50000
TDS*	17			170	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	6.08			60.7	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.6						
Dry Matter (%)	83						
Moisture (%)	17						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



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* 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 *
933635	WS413 ES3	3	1	Brown clay and sand with gravel
933636	WS406 ES3	3	1.8	Brown clay and sand with gravel and vegetation
933637	WS410 ES1	1	0.5	Brown clay and sand with glass and vegetation
933638	WS415 ES1	1	0.5	Brown clay and sand with gravel

Analytical Report Number : 26-028567

Project / Site name: Imberhorne Farm

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
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
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
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	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
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID 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
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
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
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
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
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

Analytical Report Number : 26-028567

Project / Site name: Imberhorne Farm

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 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
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Total organic carbon (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
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
One stage WAC 10:1 leachate preparation	One stage batch test at a liquid to solid ratio of 10 L/kg	BS EN 12457-2-2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	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	NONE
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025



Analytical Report Number : 26-028567
Project / Site name: Imberhorne Farm

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
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	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.



Analytical Report Number : 26-028567
Project / Site name: Imberhorne Farm

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
WS413 ES3	3	S	933635	b	Asbestos identification in Soil	A001B	b
WS415 ES1	1	L	933638	b	One stage WAC 10:1 leachate preparation	L043B	b

E.2 GAC derivation

Background

Initially, the Stantec GAC were derived following the publishing of soil guideline values (SGV), toxicological (TOX) reports and associated publications by the Environment Agency (EA) in 2009 referenced under Science Report SC050021 (EA, 2009a, b, c, d). The Stantec GAC have then been periodically updated following publication of new information on toxicological, physico-chemical, land use or receptor parameters, namely:

- LQM/CIEH, 2009. LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment, second edition. Nathaniel, C. P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A. G., Ogden, R. C. and Scott, D.
- CL:AIRE, 2010. 'The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment'. Environmental Industries Commission, The Association of Geotechnical and Geoenvironmental Specialists and Contaminated Land: Applications in Real Environment.
- CL:AIRE, 2014. 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination', Revision 2, DEFRA research project SP1010.
- LQM/CIEH, 2015. 'The LQM/CIEH S4ULs for Human Health Risk Assessment'. Nathaniel, C. P., McCaffrey, C., Gillet, A. G., Ogden, R. C. and Nathaniel, J. F.
- CL:AIRE, 2021-2024. 'C4SL Phase 2 Technical Reports'.
- CL:AIRE, 2022. C4SL Phase 2 Technical Report for 1,2-dichloroethane.
- CL:AIRE, 2024. C4SL Phase 2 Technical Reports for cis-1,2-dichloroethene, trans-1,2-dichloroethene, naphthalene, PFAS and inorganic mercury.

Land use scenarios

Stantec has derived generic assessment criteria (GAC) for human health based on the six exposure scenarios defined in CL:AIRE (2014) using generic default assumptions from published guidance. GAC for each exposure scenario have been derived for three soil organic matter (SOM) contents, 1%, 2.5% and 6%.

All GAC have been rounded to two significant figures.

Exposure parameters

The exposure parameters used for the Stantec GAC are the default parameters stated in SR3, unless updated in CL:AIRE (2014) where the CL:AIRE (2014) values have been adopted.

Approach to consumption rates

Stantec has adopted the 90th percentile consumption rates from Table 3.4 of CL:AIRE (2014) for all produce types. This is noted to be more conservative than the "top two" approach taken in the derivation of C4SLs.

Approach to plant uptake for GAC omitted in CL:AIRE (2010)

Plant uptake factors were not identified in CL:AIRE (2010) for antimony, barium and molybdenum. Stantec has sourced the required parameter values from ORNL (1984) in order to derive GAC that are inclusive of the homegrown produce exposure pathway.

Chemical and toxicity parameters



The chemical and toxicity parameters have been adopted based on the following documents:

- IRIS, 2016. 'Toxicological Review of Trimethylbenzenes'. Integrated Risk Information System, National Centre for Environmental Assessment, office of Research and Development, U.S. Environmental Protection Agency.
- LQM/CIEH, 2015.
- ORNL, 1984. 'ORNL-5786. A Review and Analysis of Parameters for Assessing Transport of Environmentally released Radionuclides through Agriculture'. Oak Ridge National Laboratory.
- CL:AIRE, 2010.
- RIVM, 2001. RIVM Report 711701 025 'HCV Re-evaluation of human-toxicological maximum-permissible risk levels'. National Institute of Public Health and the Environment.
- LQM/CIEH, 2009.
- EA, 2009a.

Approach to Cyanide GAC

The Stantec GAC for free cyanide have been derived based on ingestion of a bolus of contaminated soil. The GAC are derived for acute exposure of a child (0-6 years old) for all land uses except commercial, where the GAC are derived for acute exposure of an adult (16-65 years old). For the purpose of GQRA, the child value may be adopted for all land use scenarios.

For complex cyanide, the GAC have been derived based on chronic exposure, using the default exposure scenarios but excluding the consumption of homegrown produce, soil attached to homegrown produce, indoor vapour and outdoor vapour pathways. The chronic health criteria value (HCV) for complex cyanide is based on the EA (2009a) HCV for free cyanide and the ratio of toxicity between free and complex cyanide proposed by RIVM (2001).

Approach to Phenol GAC

In accordance with the EA Science Report SC050021 / Phenol SGV, a $GAC_{ing/inh}$ has been derived for ingested and inhaled phenol using the CLEA model, with a GAC_{derm} derived for dermal contact using Equation 5.7 within SR3. The lower of the $GAC_{ing/inh}$ and GAC_{derm} has been adopted as the final GAC.

Approach to PCB GAC

GAC for assessing the non-dioxin-like risk from PCBs have been based on the "Dutch 7". As the TDI used by the authors of the Dutch guidance is for the sum of the 7 individual congeners, the TDI has been divided by 7 to create a TDI for each congener. The non-dioxin-like risk from PCBs is therefore assessed using a Hazard Index approach as for total petroleum hydrocarbons (TPH).

Sub-surface soil to indoor air correction factors

Reflecting the approach taken by the Environment Agency in the development of revised SGV in 2009 for BTEX, a sub-surface soil to indoor air correction factor of 10 has been applied for petroleum hydrocarbons in order to account for over-prediction of vapour intrusion into building using the Johnson and Ettinger approach.

The correction factor of 10 has been applied to the following petroleum hydrocarbons (it makes negligible difference to less volatile TPH and PAH compounds):



Ground Investigation Report

Appendix E Contamination test results

- TPHCWG fractions, namely aliphatic EC>5-44 and aromatic EC>6-44;
- PAHs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene), benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h,)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, pyrene);
- BTEX;
- Isopropylbenzene;
- Propylbenzene;
- 1,2,4- and 1,3,5-trimethylbenzene; and
- Styrene.

Approach to saturation limits

The CLEA model includes a traffic light colour system to highlight when saturated soil conditions have potentially been exceeded for the vapour pathways during calculation of assessment criteria. The colours represent:

- Green: the assessment criteria do not exceed the saturated soil concentration.
- Amber: the assessment criteria exceed the saturated soil concentration but the contribution of the indoor and outdoor vapour pathway to total exposure is less than 10% and will not significantly affect the assessment criteria.
- Red: the assessment criteria exceed the saturated soil concentration and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10% and will significantly affect the assessment criteria.

Stantec has not applied any further calculations or assessment in relation to saturation limits during GAC derivation, with the CLEA-modelled GAC being presented as the GAC. Consideration of saturation limits is undertaken during the data assessment stage.

References

- CL:AIRE, 2010. 'The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment'. Environmental Industries Commission, The Association of Geotechnical and Geoenvironmental Specialists and Contaminated Land: Applications in Real Environment.
- CL:AIRE, 2014. 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination', Revision 2, DEFRA research project SP1010.
- CL:AIRE, 2021-2024. C4SL Phase 2 Technical Reports for tetrachloroethene, trichloroethene and vinyl chloride.
- CL:AIRE, 2022. C4SL Phase 2 Technical Report for 1,2-dichloroethane. Contaminated Land: Applications in Real Environment.
- CL:AIRE, 2024. C4SL Phase 2 Technical Reports for cis-1,2-dichloroethene, trans-1,2-dichloroethene, naphthalene, PFAS, and inorganic mercury.



Ground Investigation Report

Appendix E Contamination test results

- EA, 2009a. 'Science Reports SC050021 – SGV and TOX reports for: benzene, toluene, ethylbenzene, xylene, arsenic, nickel, mercury, selenium, cadmium, inorganic cyanide, phenol, dioxins, furans and dioxin-like PCBs'; 'Supplementary information for the derivation of SGV for: benzene, toluene, ethylbenzene, xylene, arsenic, nickel, mercury, selenium, cadmium, inorganic cyanide, phenol, dioxins, furans and dioxin-like PCBs', and 'Contaminants in soil: updated collation of toxicological data and intake values for humans: benzene, toluene, ethylbenzene, xylene, arsenic, nickel, mercury, selenium, cadmium, inorganic cyanide, phenol, dioxins, furans and dioxin-like PCBs'. Environment Agency.
- EA, 2009b. 'Science Report – SC050021/SR2. Human health toxicological assessment of contaminants in soil'. Environment Agency.
- EA, 2009c. 'Science Report – SC050021/SR3. Updated technical background to the CLEA model'. Environment Agency.
- EA, 2009d. 'Science Report – SC050021/SR4. CLEA Software (version 1.05) Handbook'. Environment Agency.
- IRIS, 2016. 'Toxicological Review of Trimethylbenzenes'. Integrated Risk Information System, National Centre for Environmental Assessment, office of Research and Development, U.S. Environmental Protection Agency.
- LQM/CIEH, 2009. LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment, second edition. Nathanial, C. P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A. G., Ogden, R. C. and Scott, D.
- LQM/CIEH, 2015. 'The LQM/CIEH S4ULs for Human Health Risk Assessment'. Nathanial, C. P., McCaffrey, C., Gillet, A. G., Ogden, R. C. and Nathanial, J. F.
- ORNL, 1984. 'ORNL-5786. A Review and Analysis of Parameters for Assessing Transport of Environmentally released Radionuclides through Agriculture'. Oak Ridge National Laboratory.
- RIVM, 2001. RIVM Report 711701 025 'HCV Re-evaluation of human-toxicological maximum-permissible risk levels'. National Institute of Public Health and the Environment.



E.3 Human health GAC screening results



[illegible]

[illegible]

Assessment of Chemicals of Potential Concern to Human Health

Risk parameter: Client: Site: Job No.: Lab. report no(s):										Default - Human Health - residential without home-grown produce (1/2/2020)										Data files: HLL NUT 0.3										Stantec									
Dyckhoff Thruway Health - residential without home-grown produce (1/2/2020)										Dyckhoff Thruway Health - residential without home-grown produce (1/2/2020)										Dyckhoff Thruway Health - residential without home-grown produce (1/2/2020)										Dyckhoff Thruway Health - residential without home-grown produce (1/2/2020)									
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Risk parameter: Client: Site: Job no: Lab report no:	Default - Human Health - residential without home-grown produce (RNSOM) Range: Min Max All LF 0.3 3										Stantec Logo Stantec		Date 2010/1/1 2011/1/1 2012/1/1 2013/1/1 2014/1/1 2015/1/1 2016/1/1 2017/1/1 2018/1/1 2019/1/1 2020/1/1 2021/1/1 2022/1/1 2023/1/1 2024/1/1 2025/1/1 2026/1/1 2027/1/1 2028/1/1 2029/1/1 2030/1/1 2031/1/1 2032/1/1 2033/1/1 2034/1/1 2035/1/1 2036/1/1 2037/1/1 2038/1/1 2039/1/1 2040/1/1 2041/1/1 2042/1/1 2043/1/1 2044/1/1 2045/1/1 2046/1/1 2047/1/1 2048/1/1 2049/1/1 2050/1/1 2051/1/1 2052/1/1 2053/1/1 2054/1/1 2055/1/1 2056/1/1 2057/1/1 2058/1/1 2059/1/1 2060/1/1 2061/1/1 2062/1/1 2063/1/1 2064/1/1 2065/1/1 2066/1/1 2067/1/1 2068/1/1 2069/1/1 2070/1/1 2071/1/1 2072/1/1 2073/1/1 2074/1/1 2075/1/1 2076/1/1 2077/1/1 2078/1/1 2079/1/1 2080/1/1 2081/1/1 2082/1/1 2083/1/1 2084/1/1 2085/1/1 2086/1/1 2087/1/1 2088/1/1 2089/1/1 2090/1/1 2091/1/1 2092/1/1 2093/1/1 2094/1/1 2095/1/1 2096/1/1 2097/1/1 2098/1/1 2099/1/1 2100/1/1 2101/1/1 2102/1/1 2103/1/1 2104/1/1 2105/1/1 2106/1/1 2107/1/1 2108/1/1 2109/1/1 2110/1/1 2111/1/1 2112/1/1 2113/1/1 2114/1/1 2115/1/1 2116/1/1 2117/1/1 2118/1/1 2119/1/1 2120/1/1 2121/1/1 2122/1/1 2123/1/1 2124/1/1 2125/1/1 2126/1/1 2127/1/1 2128/1/1 2129/1/1 2130/1/1 2131/1/1 2132/1/1 2133/1/1 2134/1/1 2135/1/1 2136/1/1 2137/1/1 2138/1/1 2139/1/1 2140/1/1 2141/1/1 2142/1/1 2143/1/1 2144/1/1 2145/1/1 2146/1/1 2147/1/1 2148/1/1 2149/1/1 2150/1/1 2151/1/1 2152/1/1 2153/1/1 2154/1/1 2155/1/1 2156/1/1 2157/1/1 2158/1/1 2159/1/1 2160/1/1 2161/1/1 2162/1/1 2163/1/1 2164/1/1 2165/1/1 2166/1/1 2167/1/1 2168/1/1 2169/1/1 2170/1/1 2171/1/1 2172/1/1 2173/1/1 2174/1/1 2175/1/1 2176/1/1 2177/1/1 2178/1/1 2179/1/1 2180/1/1 2181/1/1 2182/1/1 2183/1/1 2184/1/1 2185/1/1 2186/1/1 2187/1/1 2188/1/1 2189/1/1 2190/1/1 2191/1/1 2192/1/1 2193/1/1 2194/1/1 2195/1/1 2196/1/1 2197/1/1 2198/1/1 2199/1/1 2200/1/1 2201/1/1 2202/1/1 2203/1/1 2204/1/1 2205/1/1 2206/1/1 2207/1/1 2208/1/1 2209/1/1 2210/1/1 2211/1/1 2212/1/1 2213/1/1 2214/1/1 2215/1/1 2216/1/1 2217/1/1 2218/1/1 2219/1/1 2220/1/1 2221/1/1 2222/1/1 2223/1/1 2224/1/1 2225/1/1 2226/1/1 2227/1/1 2228/1/1 2229/1/1 2230/1/1 2231/1/1 2232/1/1 2233/1/1 2234/1/1 2235/1/1 2236/1/1 2237/1/1 2238/1/1 2239/1/1 2240/1/1 2241/1/1 2242/1/1 2243/1/1 2244/1/1 2245/1/1 2246/1/1 2247/1/1 2248/1/1 2249/1/1 2250/1/1 2251/1/1 2252/1/1 2253/1/1 2254/1/1 2255/1/1 2256/1/1 2257/1/1 2258/1/1 2259/1/1 2260/1/1 2261/1/1 2262/1/1 2263/1/1 2264/1/1 2265/1/1 2266/1/1 2267/1/1 2268/1/1 2269/1/1 2270/1/1 2271/1/1 2272/1/1 2273/1/1 2274/1/1 2275/1/1 2276
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Risk parameter:

Client:

Site:

JOB no:

Lab report no(s):

Default: Human Health - residential without home-grown produce (RNSOM)

Rangeford

Imberhorne Farm

31-00

22/29785, 22/20005

Data from:

Zone:

Metre:

Depth Min (m bgl):

Depth Max (m bgl):

All

LF

0.3

0

Default mean SC0M:

Scenario SC0M:

No. Samples >= GAC A x LoD:

Soil Saturation Limit (g/g) SC0M:

GAC:

GAC Source:

Date

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Assessment of Chemicals of Potential Concern to Human Health

[illegible]

[illegible]

Risk parameter:

Client:

Site:

Job no.:

Lab. report no(s):

Default - Human Health - residential without home-grown produce (150SOM)

Rangeford Inberhome Farm

36-02

22/19784, 22/20005

Zone:

Data:

ALL

N/A/T

0.3

Depth Min (m - 1g/L)

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Stantec

Date	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/1/02	28/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Assessment of Chemicals of Potential Concern to Human Health

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Assessment of Chemicals of Potential Concern to Human Health

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Assessment of Chemicals of Potential Concern to Human Health

Risk parameter:			Deaford - Human Health - residential without home-grown produce [NORM]		Data Files			
Client:	Raeferford		Zone		TS			
Site:	Imberhorne Farm		Topsoil		1			
Job no.:	JH-08		Depth Min (m) test		0.3			
Lab. report no(s):	2275784, 2270005		Depth Max (m) test		3			
All values in mg/kg unless otherwise stated			Detected mean SCOMs		1			
CAS No / P Code			Chemical or Potential Concern		Units			
LAD			No. Samples		Min. Value			
Max. Value			Mean		Median			
Standard Deviation			No. Samples >= GAC & > LAD		Soil Saturation Limit @ 1% SOM			
GAC			GAC Source		Strata			
Date			DN1502		DN1502			
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Assessment of Chemicals of Potential Concern to Human Health

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Assessment of Chemicals of Potential Concern to Human Health

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E.4 Phytotoxic GAC screening results



Assessment of Chemicals of Potential Concern to Plant Life

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E.5 Controlled waters GAC screening results



Home You can cut and paste selected lines from this page into the relevant tables in the report template.											
DATA SHOWN BELOW WILL MATCH FILTERS & SCENARIOS ON THE ASSESSMENT SHEET Controlled Waters (England & Wales) 											
Chemical of Potential Concern	Unit	EQS (inland) (England and Wales)	WQT Header	WQT Header	Screening Value (minimum of WQT)	No. Samples	Min	Max	No. Samples Equal to, or Greater Than WQT	Exceedances	
Electrical conductivity (µS/cm)	µS/cm	-	-	-	-	0	-	-	-		
Cyanide (free) (hydrogen cyanide)	µg/l	1	-	-	1	0	-	-	0		
Cyanide (total)	µg/l	-	-	-	-	5	0.01	0.90	-		
Dissolved Organic Carbon (DOC) (mg)	mg/l	-	-	-	-	0	-	-	-		
Ammonium (NH ₄ ⁺)	µg/l	-	-	-	-	0	-	-	-		
Ammoniacal Nitrogen (as N)	µg/l	300	-	-	300	0	-	-	0		
Ammonia (unionised) (NH ₃ as N) (free)	µg/l	-	-	-	-	0	-	-	-		
Bromate (BrO ₃)	mg/l	-	-	-	-	0	-	-	-		
Chloride (Cl ⁻)	mg/l	250	-	-	250	0	-	-	0		
Fluoride (F ⁻)	µg/l	1000	-	-	1000	0	-	-	0		
Nitrate (NO ₃ ⁻)	mg/l	-	-	-	-	0	-	-	-		
Nitrite (NO ₂ ⁻)	µg/l	-	-	-	-	0	-	-	-		
Sulfate (SO ₄ ²⁻)	mg/l	400	-	-	400	5	13.90	127.50	0		
Aluminium (Al) (dissolved)	µg/l	-	-	-	-	0	-	-	-		
Antimony (Sb) (dissolved)	µg/l	-	-	-	-	0	-	-	-		
Arsenic (As) (dissolved)	µg/l	50	-	-	50	5	2.50	2.50	0		
Barium (Ba) (dissolved)	µg/l	-	-	-	-	5	42.00	84.00	-		
Boron (B) (dissolved)	µg/l	2000	-	-	2000	5	14.00	193.00	0		
Cadmium (Cd) (dissolved)	µg/l	0.08	-	-	0.08	5	0.50	0.50	0	TP312 @ 29/11/2022, TP315 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022, TP310A @ 30/11/2022	
Calcium (Ca) (dissolved)	mg/l	-	-	-	-	0	-	-	-		
Chromium (Cr III) (dissolved)	µg/l	4.7	-	-	4.7	5	0.01	0.01	0		
Chromium (Cr VI) (dissolved)	µg/l	9.4	-	-	9.4	5	0.01	0.01	0		
Chromium (Cr) (dissolved)	µg/l	-	-	-	-	5	1.50	1.50	-		
Cobalt (Co) (dissolved)	µg/l	3	-	-	3	0	-	-	0		
Copper (Cu) (dissolved)	µg/l	1	-	-	1	5	7.00	7.00	0	TP312 @ 29/11/2022, TP315 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022, TP310A @ 30/11/2022	
Iron (Fe) (dissolved)	mg/l	1	-	-	1	0	-	-	0		
Lead (Pb) (dissolved)	µg/l	1.2	-	-	1.2	5	5.00	5.00	0	TP312 @ 29/11/2022, TP315 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022, TP310A @ 30/11/2022	
Magnesium (Mg) (dissolved)	mg/l	-	-	-	-	0	-	-	-		
Manganese (Mn) (dissolved)	µg/l	123	-	-	123	0	-	-	0		
Mercury (Hg) (dissolved)	µg/l	0.07	-	-	0.07	5	1.00	1.00	0	TP312 @ 29/11/2022, TP315 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022, TP310A @ 30/11/2022	
Nickel (Ni) (dissolved)	µg/l	4	-	-	4	5	2.00	4.00	0		
Selenium (Se) (dissolved)	µg/l	-	-	-	-	5	3.00	3.00	-		
Silver (Ag) (dissolved)	µg/l	0.05	-	-	0.05	0	-	-	0		
Sodium (Na) (dissolved)	mg/l	-	-	-	-	0	-	-	-		
Tin (Sn) (dissolved)	µg/l	25	-	-	25	0	-	-	0		
Vanadium (V) (dissolved)	µg/l	20	-	-	20	5	1.50	1.80	0		
Zinc (Zn) (dissolved)	µg/l	10.9	-	-	10.9	5	3.00	30.00	1	TP315 @ 29/11/2022	
Acenaphthene	µg/l	-	-	-	-	5	0.01	0.39	-		
Acenaphthylene	µg/l	-	-	-	-	5	0.01	0.02	-		
Anthracene	µg/l	0.1	-	-	0.1	5	0.01	0.08	0		
Benzo[a]anthracene	µg/l	-	-	-	-	5	0.01	0.14	-		
Benzo[a]pyrene	µg/l	0.00017	-	-	0.00017	5	0.01	0.17	4	TP312 @ 29/11/2022, TP315 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022, TP310A @ 30/11/2022	
Benzo[b]fluoranthene	µg/l	0.017	-	-	0.017	5	0.01	0.20	3	TP312 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022	
Benzo[k]perylene	µg/l	0.0082	-	-	0.0082	5	0.01	0.08	2	TP312 @ 29/11/2022, TP317 @ 29/11/2022	
Benzo[k]fluoranthene	µg/l	0.017	-	-	0.017	5	0.01	0.08	2	TP312 @ 29/11/2022, TP317 @ 29/11/2022	
Chrysene	µg/l	-	-	-	-	5	0.01	0.16	-		
Dibenz[a,h]anthracene	µg/l	-	-	-	-	5	0.01	0.01	-		
Fluoranthene	µg/l	0.0061	-	-	0.0061	5	0.01	0.51	5	TP312 @ 29/11/2022, TP315 @ 29/11/2022, TP316 @ 29/11/2022, TP317 @ 29/11/2022, TP310A @ 30/11/2022	
Fluorene	µg/l	-	-	-	-	5	0.01	0.46	-		
Indeno[1,2,3-cd]pyrene	µg/l	-	-	-	-	5	0.01	0.10	-		
Naphthalene	µg/l	2	-	-	2	5	0.10	0.70	0		
Phenanthrene	µg/l	-	-	-	-	5	0.01	0.30	-		
Pyrene	µg/l	-	-	-	-	5	0.01	0.43	-		
PAHs = sum of benzo[b]fluoranthene	µg/l	-	-	-	-	5	0.17	2.61	-		
Total Phenols	µg/l	7.7	-	-	7.7	5	0.05	0.05	0		
Aliphatic >ECS-EC6	µg/l	10	-	-	10	0	-	-	0		
Aliphatic >ECS-EC8	µg/l	10	-	-	10	0	-	-	0		
Aliphatic >ECS-EC10	µg/l	10	-	-	10	5	10.00	10.00	0		
Aliphatic >EC10-EC12	µg/l	10	-	-	10	5	10.00	10.00	-		
Aliphatic >EC13-EC16	µg/l	10	-	-	10	5	10.00	10.00	0		
Aliphatic >EC16-EC21	µg/l	-	-	-	-	5	10.00	10.00	-		
Aliphatic >EC21-EC35	µg/l	-	-	-	-	5	10.00	3720.00	-		
Aliphatic >EC16-EC35	µg/l	10	-	-	10	5	10.00	3720.00	1	TP312 @ 29/11/2022	
Aliphatic >EC35-EC44	µg/l	10	-	-	10	0	-	-	0		
Aliphatic >ECS-EC35	µg/l	-	-	-	-	0	-	-	-		
Aliphatic >ECS-EC44	µg/l	-	-	-	-	0	-	-	-		
Aromatic ECS-EC7	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC7-EC8	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC8-EC10	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC10-EC12	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC12-EC16	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC16-EC21	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC21-EC35	µg/l	10	-	-	10	0	-	-	0		
Aromatic >EC35-EC44	µg/l	10	-	-	10	0	-	-	0		
Aromatic >ECS-EC35	µg/l	-	-	-	-	0	-	-	-		
Aromatic >ECS-EC44	µg/l	-	-	-	-	0	-	-	-		
TPH ECS-44	µg/l	-	-	-	-	0	-	-	-		
Benzene	µg/l	10	-	-	10	0	-	-	0		
Toluene	µg/l	74	-	-	74	0	-	-	-		
Ethylbenzene	µg/l	20	-	-	20	0	-	-	0		
m,p-Xylene	µg/l	30	-	-	30	0	-	-	0		
o-Xylene	µg/l	30	-	-	30	0	-	-	0		
Methyl tertiary butyl ether (MTBE)	µg/l	-	-	-	-	0	-	-	-		
m,p,o-Xylene (sum)	µg/l	30	-	-	30	0	-	-	0		
1,1,1,2-Tetrachloroethane	µg/l	-	-	-	-	0	-	-	-		
1,1,1-Trichloroethane	µg/l	100	-	-	100	0	-	-	0		
1,1,2,2-Tetrachloroethane	µg/l	-	-	-	-	0	-	-	-		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/l	-	-	-	-	0	-	-	-		
1,1,2-Trichloroethane	µg/l	400	-	-	400	0	-	-	0		
1,1-Dichloroethane	µg/l	-	-	-	-	0	-	-	-		
1,1-Dichloropropane	µg/l	-	-	-	-	0	-	-	-		
1,2,3,4-Tetrachlorobenzene	µg/l	-	-	-	-	0	-	-	-		
1,2,3,5-Tetrachlorobenzene	µg/l	-	-	-	-	0	-	-	-		
1,2,3-Trichlorobenzene	µg/l	-	-	-	-	0	-	-	-		
1,2,4,5-Tetrachlorobenzene	µg/l	-	-	-	-	0	-	-	-		
1,2,4-Trichlorobenzene	µg/l	-	-	-	-	0	-	-	-		
1,2,4-Trimethylbenzene	µg/l	-	-	-	-	0	-	-	-		
1,2-Dibromo-3-chloropropane	µg/l	-	-	-	-	0	-	-	-		
1,2-Dibromobenzene	µg/l	20	-	-	20	0	-	-	0		
1,2-Dichloroethane (EDC)	µg/l	10	-	-	10	0	-	-	0		
1,2-Dichloropropane	µg/l	-	-	-	-	0	-	-	-		
1,3,5-Trichlorobenzene	µg/l	-	-	-	-	0	-	-	-		
1,3,5-Trimethylbenzene	µg/l	-	-	-	-	0	-	-	-		
1,3-Dichlorobenzene	µg/l	10	-	-	10	0	-	-	-		
1,3-Dichloropropane	µg/l	-	-	-	-	0	-	-	-		
1,4-Dichlorobenzene	µg/l	20	-	-	20	0	-	-	0		
2,2-Dichloropropane	µg/l	-	-	-	-	0	-	-	-		
2-Chlorotoluene	µg/l	-	-	-	-	0	-	-	-		
4-Chlorotoluene	µg/l	-	-	-	-	0	-	-	-		
Bromobenzene	µg/l	-	-	-	-	0	-	-	-		
Bromodichloromethane	µg/l	-	-	-	-	0	-	-	-		
Bromomethane	µg/l	-	-	-	-	0	-	-	-		
Butylbenzene	µg/l	-	-	-	-	0	-	-	-		
Chlorobenzene	µg/l	-	-	-	-	0	-	-	-		
Chloroethane	µg/l	-	-	-	-	0	-	-	-		
Chloromethane	µg/l	-	-	-	-	0	-	-	-		
cis 1,2-Dichloroethene (cis 1,2 DCE)	µg/l	-	-	-	-	0	-	-	-		

[illegible]

Perfluorobutane Sulfonate (PFBS)	µg/l	-	-	-	-	0	-	-	-
Perfluorodecanoic Acid (PFDA)	µg/l	-	-	-	-	0	-	-	-
Perfluorododecanoic Acid (PFdDA)	µg/l	-	-	-	-	0	-	-	-
Perfluorododecane sulfonic acid (PFIS)	µg/l	-	-	-	-	0	-	-	-
Perfluorodecane Sulfonic Acid (PFDS)	µg/l	-	-	-	-	0	-	-	-
Perfluoro-4-ethyl cyclohexane sulfonate	µg/l	-	-	-	-	0	-	-	-
Perfluoro(2-ethoxyethane) sulphonic acid	µg/l	-	-	-	-	0	-	-	-
Perfluorooctanoic acid (PFHxA)	µg/l	-	-	-	-	0	-	-	-
Perfluorooctane Sulfonic Acid (PFHxS)	µg/l	-	-	-	-	0	-	-	-
Perfluorohexanoic Acid (PFHxA)	µg/l	-	-	-	-	0	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	µg/l	-	-	-	-	0	-	-	-
Perfluorohexane Sulfonate (PFHxS)	µg/l	-	-	-	-	0	-	-	-
Perfluoro-4-methoxybutanoic acid (PFMA)	µg/l	-	-	-	-	0	-	-	-
Perfluoro-3-methoxypropanoic acid	µg/l	-	-	-	-	0	-	-	-
Perfluorononanoic Acid (PFNA)	µg/l	-	-	-	-	0	-	-	-
Perfluorononane Sulfonic Acid (PFNS)	µg/l	-	-	-	-	0	-	-	-
Perfluorooctadecanoic acid (PFODAA)	µg/l	-	-	-	-	0	-	-	-
Perfluoropentanoic acid (PFPeA)	µg/l	-	-	-	-	0	-	-	-
Perfluoropentane Sulfonic Acid (PFPS)	µg/l	-	-	-	-	0	-	-	-
Perfluorotridecanoic Acid (PFTriDA)	µg/l	-	-	-	-	0	-	-	-
Perfluorotetradecanoic Acid (PFTetraDA)	µg/l	-	-	-	-	0	-	-	-
Perfluoroundecanoic Acid (PFUnDA)	µg/l	-	-	-	-	0	-	-	-
Perfluoroundecane sulfonic acid (PFIS)	µg/l	-	-	-	-	0	-	-	-
Sum of PFAS DWI 47	µg/l	-	-	-	-	0	-	-	-
Dioxins and dioxin-like compounds	µg/l	-	-	-	-	0	-	-	-
Dioxin (2,3,7,8-TCDD)	µg/l	-	-	-	-	0	-	-	-
Bromine (Br)	µg/l	2	-	-	-	2	0	-	0
Chlorine (total free available)	µg/l	2	-	-	-	2	0	-	0
Chlorate	µg/l	-	-	-	-	0	-	-	-
Chlorite	µg/l	-	-	-	-	0	-	-	-
EDTA (edetic acid)	µg/l	400	-	-	-	400	0	-	0
Epichlorohydrin	µg/l	-	-	-	-	0	-	-	-
Malachite green	µg/l	0.5	-	-	-	0.5	0	-	0
Monochloramine	µg/l	-	-	-	-	0	-	-	-
Monochloroacetate (Chloroacetic Acid)	µg/l	-	-	-	-	0	-	-	-
NTA (nitrilotriacetic acid)	µg/l	1000	-	-	-	1000	0	-	0
Trichloroethanoic acid (trichloroacetic acid)	µg/l	-	-	-	-	0	-	-	-
Tributyl tin compounds	µg/l	0.0002	-	-	-	0.0002	0	-	0
Hydrogen Sulphide	µg/l	0.25	-	-	-	0.25	0	-	0
Perchlorate	µg/l	-	-	-	-	0	-	-	-
Total anions	µg/l	250000	-	-	-	250000	0	-	0
U (dissolved)	µg/l	-	-	-	-	0	-	-	-
Beryllium	µg/l	-	-	-	-	0	-	-	-
Thallium	µg/l	-	-	-	-	0	-	-	-
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	µg/l	-	-	-	-	0	-	-	-
2,4-D (2,4-Dichlorophenoxyacetic acid)	µg/l	0.3	-	-	-	0.3	0	-	0
2,4-DB (4-(2,4-dichlorophenoxy) butanol)	µg/l	-	-	-	-	0	-	-	-
Abamectin	µg/l	0.01	-	-	-	0.01	0	-	0
Actinofen	µg/l	0.12	-	-	-	0.12	0	-	0
Alachlor	µg/l	0.3	-	-	-	0.3	0	-	0
Aldicarb	µg/l	-	-	-	-	0	-	-	-
Aldrin	µg/l	-	-	-	-	0	-	-	-
Aldrin & dieldrin	µg/l	-	-	-	-	0	-	-	-
Atrazine	µg/l	0.6	-	-	-	0.6	0	-	0
Azinphos	µg/l	-	-	-	-	0	-	-	-
Azinphos ethyl	µg/l	-	-	-	-	0	-	-	-
Azinphos-methyl	µg/l	0.01	-	-	-	0.01	0	-	0
Bentazone	µg/l	500	-	-	-	500	0	-	0
Bifenox	µg/l	0.012	-	-	-	0.012	0	-	0
Bromoxynil	µg/l	100	-	-	-	100	0	-	0
Carbendazim	µg/l	0.15	-	-	-	0.15	0	-	0
Carbofuran	µg/l	-	-	-	-	0	-	-	-
Chlordane	µg/l	-	-	-	-	0	-	-	-
Chlorofenvinphos	µg/l	0.1	-	-	-	0.1	0	-	0
Chloroprotham	µg/l	10	-	-	-	10	0	-	0
Chlorpyrifos	µg/l	0.03	-	-	-	0.03	0	-	0
Chlorothalonil	µg/l	0.035	-	-	-	0.035	0	-	0
Chlorotoluron	µg/l	2	-	-	-	2	0	-	0
Cyclodest pesticides, sum of Aldrin	µg/l	0.01	-	-	-	0.01	0	-	0
Coumaphos	µg/l	0.03	-	-	-	0.03	0	-	0
Cyanazine	µg/l	-	-	-	-	0	-	-	-
Cybutryne	µg/l	0.0025	-	-	-	0.0025	0	-	0
Cyfluthrin	µg/l	0.001	-	-	-	0.001	0	-	0
Cypermethrin	µg/l	0.00008	-	-	-	0.00008	0	-	0
Dilapron	µg/l	-	-	-	-	0	-	-	-
DOT total (dichlorodiphenyltrichloroethane)	µg/l	0.025	-	-	-	0.025	0	-	0
Demeton	µg/l	0.5	-	-	-	0.5	0	-	0
Diazinon (sheep dip)	µg/l	0.01	-	-	-	0.01	0	-	0
Dichloroprop	µg/l	-	-	-	-	0	-	-	-
Dichlorvos	µg/l	0.0006	-	-	-	0.0006	0	-	0
Dicofol	µg/l	0.0013	-	-	-	0.0013	0	-	0
Dieldrin	µg/l	-	-	-	-	0	-	-	-
Diflubenzuron	µg/l	0.001	-	-	-	0.001	0	-	0
Dimethoate	µg/l	0.48	-	-	-	0.48	0	-	0
Dinoseb	µg/l	-	-	-	-	0	-	-	-
Disquat	µg/l	-	-	-	-	0	-	-	-
Diuron	µg/l	0.2	-	-	-	0.2	0	-	0
Doramectin	µg/l	0.001	-	-	-	0.001	0	-	0
Endosulfan	µg/l	0.005	-	-	-	0.005	0	-	0
Endosulfan (alpha)	µg/l	-	-	-	-	0	-	-	-
Endosulfan (beta)	µg/l	-	-	-	-	0	-	-	-
Endrin	µg/l	-	-	-	-	0	-	-	-
Fenclorophos	µg/l	0.03	-	-	-	0.03	0	-	0
Fenitrothion	µg/l	0.01	-	-	-	0.01	0	-	0
Fenoprop (E,2,4,5-trichlorophenoxy)propanol	µg/l	-	-	-	-	0	-	-	-
Fenitrothion	µg/l	-	-	-	-	0	-	-	-
Fluocifur	µg/l	1	-	-	-	1	0	-	0
Formaldehyde (methanal)	µg/l	5	-	-	-	5	0	-	0
Glyphosate	µg/l	196	-	-	-	196	0	-	0
Heptachlor	µg/l	0.0000002	-	-	-	0.0000002	0	-	0
Heptachlor & Heptachlor epoxide	µg/l	0.0000002	-	-	-	0.0000002	0	-	0
Heptachlor epoxide	µg/l	0.0000002	-	-	-	0.0000002	0	-	0
Hexachlorocyclohexane (includes lindane)	µg/l	0.02	-	-	-	0.02	0	-	0
Isonyl	µg/l	10	-	-	-	10	0	-	0
Isozin	µg/l	-	-	-	-	0	-	-	-
Isoprothuron	µg/l	0.3	-	-	-	0.3	0	-	0
Ivermectin	µg/l	0.0001	-	-	-	0.0001	0	-	0
Linuron	µg/l	0.5	-	-	-	0.5	0	-	0
Malathion	µg/l	0.01	-	-	-	0.01	0	-	0
Mancozeb	µg/l	2	-	-	-	2	0	-	0
Maneb	µg/l	3	-	-	-	3	0	-	0
MCPA (4-(2-methyl-4-chlorophenoxy)propanoic acid)	µg/l	12	-	-	-	12	0	-	0
Mecoprop	µg/l	18	-	-	-	18	0	-	0
Methidathion	µg/l	0.01	-	-	-	0.01	0	-	0
Methoxychlor	µg/l	-	-	-	-	0	-	-	-
Metolachlor	µg/l	-	-	-	-	0	-	-	-
Mevinphos	µg/l	0.02	-	-	-	0.02	0	-	0
Molinate	µg/l	-	-	-	-	0	-	-	-
Ormethoate	µg/l	0.01	-	-	-	0.01	0	-	0
Oxamyl	µg/l	-	-	-	-	0	-	-	-
para-para-DDT	µg/l	0.01	-	-	-	0.01	0	-	0
Parathion	µg/l	-	-	-	-	0	-	-	-
Parathion-methyl	µg/l	-	-	-	-	0	-	-	-
PCSDs (cyfluthrin, sulfoxuron, flucifur)	µg/l	0.05	-	-	-	0.05	0	-	0
Pendimethalin	µg/l	0.3	-	-	-	0.3	0	-	0
Pentachlorophenol	µg/l	0.4	-	-	-	0.4	0	-	0
Permethrin	µg/l	0.001	-	-	-	0.001	0	-	0
Pesticides (individual) (other than alachlor)	µg/l	-	-	-	-	0	-	-	-
Pesticides (total)	µg/l	-	-	-	-	0	-	-	-
Pirimicarb	µg/l	1	-	-	-	1	0	-	0
Pirimiphos - methyl	µg/l	0.015	-	-	-	0.015	0	-	0
Prochloraz	µg/l	4	-	-	-	4	0	-	0
Propetamphos	µg/l	0.03	-	-	-	0.03	0	-	0
Propylamide	µg/l	100	-	-	-	100	0	-	0
Pyridoxifen	µg/l	-	-	-	-	0	-	-	-

Quinoxifen	µg/l	0.15	-	-	0.15	0	-	-	0
Simazine	µg/l	1	-	-	1	0	-	-	0
Sulcofuron	µg/l	25	-	-	25	0	-	-	0
Tecnazene (total)	µg/l	1	-	-	1	0	-	-	0
Terbutryn	µg/l	0.062	-	-	0.062	0	-	-	0
Terbutylazine	µg/l	-	-	-	-	0	-	-	-
Thiabendazole	µg/l	5	-	-	5	0	-	-	0
Triallate	µg/l	0.25	-	-	0.25	0	-	-	0
Triazaphos	µg/l	0.005	-	-	0.005	0	-	-	0
Trifluralin	µg/l	0.03	-	-	0.03	0	-	-	0
Triphenyltin and derivatives	µg/l	0.02	-	-	0.02	0	-	-	0
Potassium (K) (dissolved)	µg/l	-	-	-	-	0	-	-	-
Carbonate (CO ₃ ²⁻)	µg/l	-	-	-	-	0	-	-	-
Bicarbonate (HCO ₃ ⁻)	µg/l	-	-	-	-	0	-	-	-
Carbon disulphide	µg/l	-	-	-	-	0	-	-	-
Cylindrospermopsins	µg/l	-	-	-	-	0	-	-	-
Saccharins	µg/l	-	-	-	-	0	-	-	-
Determinand 1	µg/l	-	-	-	-	0	-	-	-
Determinand 2	µg/l	-	-	-	-	0	-	-	-
Determinand 3	µg/l	-	-	-	-	0	-	-	-
Determinand 4	µg/l	-	-	-	-	0	-	-	-
Determinand 5	µg/l	-	-	-	-	0	-	-	-
Determinand 6	µg/l	-	-	-	-	0	-	-	-
Determinand 7	µg/l	-	-	-	-	0	-	-	-
Determinand 8	µg/l	-	-	-	-	0	-	-	-
Determinand 9	µg/l	-	-	-	-	0	-	-	-
Determinand 10	µg/l	-	-	-	-	0	-	-	-
Determinand 11	µg/l	-	-	-	-	0	-	-	-
Determinand 12	µg/l	-	-	-	-	0	-	-	-
Determinand 13	µg/l	-	-	-	-	0	-	-	-
Determinand 14	µg/l	-	-	-	-	0	-	-	-
Determinand 15	µg/l	-	-	-	-	0	-	-	-
Determinand 16	µg/l	-	-	-	-	0	-	-	-
Determinand 17	µg/l	-	-	-	-	0	-	-	-
Determinand 18	µg/l	-	-	-	-	0	-	-	-
Determinand 19	µg/l	-	-	-	-	0	-	-	-
Determinand 20	µg/l	-	-	-	-	0	-	-	-

DATA SHOWN BELOW WILL MATCH FILTERS & SCENARIOS ON THE ASSESSMENT SHEET
Controlled Waters (England & Wales)

Chemical of Potential Concern	Unit	EQS (Inland) (England and Wales)	WQT Header	WQT Header	Screening Value (minimum of WQT)	No. Samples	Min	Max	No. Samples Equal to, or Greater Than WQT	Exceedances
Electrical conductivity ($\mu\text{S}/\text{cm}$)	$\mu\text{S}/\text{cm}$	-	-	-	-	0	-	-	-	-
Cyanide (free) (hydrogen cyanide)	$\mu\text{g}/\text{l}$	1	-	-	-	1	0	-	-	0
Cyanide (total)	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.10	-	-
Dissolved Organic Carbon (DOC) (mg)	mg/l	-	-	-	-	0	-	-	-	-
Ammonium (NH_4^+)	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Ammoniacal Nitrogen (as N)	$\mu\text{g}/\text{l}$	300	-	-	-	300	0	-	-	0
Ammonia (un-ionised) (NH_3 as N) (ft)	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Bromate (BrO_3)	mg/l	-	-	-	-	0	-	-	-	-
Chloride (Cl^-)	mg/l	250	-	-	-	250	0	-	-	0
Fluoride (F^-)	$\mu\text{g}/\text{l}$	1000	-	-	-	1000	0	-	-	0
Nitrate (NO_3^-)	mg/l	-	-	-	-	0	-	-	-	-
Nitrite (NO_2^-)	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Sulfate (SO_4^{2-})	mg/l	400	-	-	-	400	0	-	-	0
Aluminium (Al) (dissolved)	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Antimony (Sb) (dissolved)	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Arsenic (As) (dissolved)	$\mu\text{g}/\text{l}$	50	-	-	-	50	3	2.50	2.50	0
Barium (Ba) (dissolved)	$\mu\text{g}/\text{l}$	-	-	-	-	3	38.00	164.00	-	-
Boron (B) (dissolved)	$\mu\text{g}/\text{l}$	2000	-	-	-	2000	3	58.00	287.00	0
Cadmium (Cd) (dissolved)	$\mu\text{g}/\text{l}$	0.08	-	-	-	0.08	3	0.50	0.50	0
Calcium (Ca) (dissolved)	mg/l	-	-	-	-	0	-	-	-	RC301 @ 5/1/2023, RC302 @ 5/1/2023, RC303 @ 5/1/2023
Chromium (Cr III) (dissolved)	$\mu\text{g}/\text{l}$	4.7	-	-	-	4.7	3	6.00	6.00	0
Chromium (Cr VI) (dissolved)	$\mu\text{g}/\text{l}$	3.4	-	-	-	3.4	3	0.01	0.01	0
Chromium (Cr) (dissolved)	$\mu\text{g}/\text{l}$	-	-	-	-	3	1.50	1.50	-	RC301 @ 5/1/2023, RC302 @ 5/1/2023, RC303 @ 5/1/2023
Cobalt (Co) (dissolved)	$\mu\text{g}/\text{l}$	3	-	-	-	3	0	-	-	0
Copper (Cu) (dissolved)	$\mu\text{g}/\text{l}$	1	-	-	-	1	3	7.00	7.00	0
Iron (Fe) (dissolved)	mg/l	1	-	-	-	1	0	-	-	RC301 @ 5/1/2023, RC302 @ 5/1/2023, RC303 @ 5/1/2023
Lead (Pb) (dissolved)	$\mu\text{g}/\text{l}$	1.2	-	-	-	1.2	3	5.00	5.00	0
Magnesium (Mg) (dissolved)	mg/l	-	-	-	-	0	-	-	-	RC301 @ 5/1/2023, RC302 @ 5/1/2023, RC303 @ 5/1/2023
Manganese (Mn) (dissolved)	$\mu\text{g}/\text{l}$	123	-	-	-	123	0	-	-	0
Mercury (Hg) (dissolved)	$\mu\text{g}/\text{l}$	0.07	-	-	-	0.07	3	1.00	1.00	0
Nickel (Ni) (dissolved)	$\mu\text{g}/\text{l}$	4	-	-	-	4	3	2.00	37.00	2
Selenium (Se) (dissolved)	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	RC301 @ 5/1/2023, RC302 @ 5/1/2023
Silver (Ag) (dissolved)	$\mu\text{g}/\text{l}$	0.05	-	-	-	0.05	0	-	-	0
Sodium (Na) (dissolved)	mg/l	-	-	-	-	0	-	-	-	-
Tin (Sn) (dissolved)	$\mu\text{g}/\text{l}$	25	-	-	-	25	0	-	-	0
Vanadium (V) (dissolved)	$\mu\text{g}/\text{l}$	20	-	-	-	20	3	1.50	1.50	0
Zinc (Zn) (dissolved)	$\mu\text{g}/\text{l}$	10.9	-	-	-	10.9	3	3.00	104.00	1
Acenaphthene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.14	-	RC301 @ 5/1/2023
Acenaphthylene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
Anthracene	$\mu\text{g}/\text{l}$	0.1	-	-	-	0.1	3	0.01	0.01	0
Benzo[a]anthracene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
Benzo[a]pyrene	$\mu\text{g}/\text{l}$	0.00017	-	-	-	0.00017	3	0.01	0.01	0
Benzo[b]fluoranthene	$\mu\text{g}/\text{l}$	0.017	-	-	-	0.017	3	0.01	0.01	0
Benzo[ghi]perylene	$\mu\text{g}/\text{l}$	0.0082	-	-	-	0.0082	3	0.01	0.01	-
Benzo[k]fluoranthene	$\mu\text{g}/\text{l}$	0.017	-	-	-	0.017	3	0.01	0.01	0
Chrysene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
Dibenz[a,h]anthracene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
Fluoranthene	$\mu\text{g}/\text{l}$	0.0063	-	-	-	0.0063	3	0.01	0.01	0
Fluorene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.03	-	-
Indeno[1,2,3-cd]pyrene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
Naphthalene	$\mu\text{g}/\text{l}$	2	-	-	-	2	3	0.10	0.10	0
Phenanthrene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
Pyrene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.01	0.01	-	-
PAHs = sum of benzo[b]fluoranthene	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.17	0.17	-	-
Total Phenols	$\mu\text{g}/\text{l}$	7.7	-	-	-	7.7	3	0.15	0.15	0
Aliphatic >EC5-EC6	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aliphatic >EC6-EC8	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aliphatic >EC8-EC10	$\mu\text{g}/\text{l}$	10	-	-	-	10	3	10.00	10.00	0
Aliphatic >EC10-EC12	$\mu\text{g}/\text{l}$	10	-	-	-	10	3	10.00	10.00	0
Aliphatic >EC12-EC16	$\mu\text{g}/\text{l}$	10	-	-	-	10	3	10.00	10.00	0
Aliphatic >EC16-EC21	$\mu\text{g}/\text{l}$	-	-	-	-	3	10.00	10.00	-	-
Aliphatic >EC21-EC35	$\mu\text{g}/\text{l}$	-	-	-	-	3	10.00	10.00	-	-
Aliphatic >EC16-EC35	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aliphatic >EC35-EC44	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aliphatic >EC5-EC35	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Aliphatic >EC5-EC44	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Aromatic >EC5-EC7	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC7-EC8	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC8-EC10	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC10-EC12	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic > EC12-EC16	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC16-EC21	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC21-EC35	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC35-EC44	$\mu\text{g}/\text{l}$	10	-	-	-	10	0	-	-	0
Aromatic >EC5-EC35	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Aromatic >EC5-EC44	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
TPH EC5-44	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
Benzene	$\mu\text{g}/\text{l}$	10	-	-	-	10	3	0.50	0.50	0
Toluene	$\mu\text{g}/\text{l}$	74	-	-	-	74	3	5.00	5.00	0
Ethylbenzene	$\mu\text{g}/\text{l}$	20	-	-	-	20	3	1.00	1.00	0
m,p-Xylene	$\mu\text{g}/\text{l}$	30	-	-	-	30	3	2.00	2.00	0
o-Xylene	$\mu\text{g}/\text{l}$	30	-	-	-	30	3	1.00	1.00	0
Methyl tertiary butyl ether (MTBE)	$\mu\text{g}/\text{l}$	-	-	-	-	3	0.10	0.10	-	-
m,p,o-Xylene (sum)	$\mu\text{g}/\text{l}$	30	-	-	-	30	0	-	-	0
1,1,1,2-Tetrachloroethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
1,1,1-Trichloroethane	$\mu\text{g}/\text{l}$	100	-	-	-	100	3	2.00	2.00	0
1,1,2,2-Tetrachloroethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	4.00	4.00	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
1,1,2-Trichloroethane	$\mu\text{g}/\text{l}$	400	-	-	-	400	3	2.00	2.00	0
1,1-Dichloroethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,1-Dichloroethene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,1-Dichloropropene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,2,3,4-Tetrachlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
1,2,3,5-Tetrachlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
1,2,3-Trichlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,2,4,5-Tetrachlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
1,2,4-Trichlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,2,4-Trimethylbenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,2-Dibromo-3-chloropropane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
1,2-Dibromoethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
1,2-Dichlorobenzene	$\mu\text{g}/\text{l}$	20	-	-	-	20	3	3.00	3.00	0
1,2-Dichloroethane (EDC)	$\mu\text{g}/\text{l}$	10	-	-	-	10	3	2.00	2.00	0
1,2-Dichloropropane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
1,3,5-Trichlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	0	-	-	-	-
1,3,5-Trimethylbenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,3-Dichlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
1,3-Dichloropropane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
1,4-Dichlorobenzene	$\mu\text{g}/\text{l}$	20	-	-	-	20	3	3.00	3.00	0
2,2-Dichloropropane	$\mu\text{g}/\text{l}$	-	-	-	-	3	1.00	1.00	-	-
2-Chlorotoluene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
4-Chlorotoluene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
Bromobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
Bromodichloromethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
Bromomethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	1.00	1.00	-	-
Butylbenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
Chlorobenzene	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
Chloroethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
Chloromethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
cis 1,2-Dichloroethene (cis 1,2 DCE)	$\mu\text{g}/\text{l}$	-	-	-	-	3	3.00	3.00	-	-
cis 1,3-Dichloropropene	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
Dibromochloromethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
Dibromomethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-
Dichlorodifluoromethane	$\mu\text{g}/\text{l}$	-	-	-	-	3	2.00	2.00	-	-

Dichloromethane (DCM)	µg/l	20	-	-	20	0	-	-	0
Hexachlorobutadiene (HCBD)	µg/l	0.6	-	-	0.6	3	3.00	3.00	0 RC301 @ 5/1/2023, RC302 @ 5/1/2023, RC303 @ 5/1/2023
Isopropylbenzene	µg/l	-	-	-	-	3	3.00	3.00	-
n-Propylbenzene	µg/l	-	-	-	-	3	3.00	3.00	-
p-Isopropyltoluene	µg/l	-	-	-	-	3	3.00	3.00	-
sec-Butylbenzene	µg/l	-	-	-	-	0	-	-	-
Styrene	µg/l	50	-	-	50	3	2.00	2.00	0
tert-Butylbenzene	µg/l	-	-	-	-	0	-	-	-
Tetrachloroethene (PCA)	µg/l	140	-	-	140	0	-	-	0
Tetrachloroethene (PCE)	µg/l	10	-	-	10	3	3.00	3.00	-
Tetrachloromethane (Carbon Tetrachloride)	µg/l	12	-	-	12	0	-	-	0
trans 1,2-Dichloroethene (trans 1,2-DCE)	µg/l	-	-	-	-	3	3.00	3.00	-
trans 1,3-Dichloropropene	µg/l	-	-	-	-	3	2.00	2.00	-
Tribromomethane (bromoform)	µg/l	-	-	-	-	3	2.00	2.00	-
Trichloroethene (TCE)	µg/l	10	-	-	10	3	3.00	3.00	0
Trichlorofluoromethane (CFC-11)	µg/l	-	-	-	-	3	3.00	3.00	-
Trichloromethane (chloroform)	µg/l	2.5	-	-	2.5	3	2.00	2.00	0
Vinyl chloride (chloroethene) (VC)	µg/l	-	-	-	-	3	0.10	0.10	-
Tetrachloroethene (PCE) and trichloroethene (TCE)	µg/l	-	-	-	-	0	-	-	-
Total 1,2-Dichloroethene	µg/l	-	-	-	-	0	-	-	-
Total 1,3-Dichloropropene	µg/l	-	-	-	-	0	-	-	-
Total Dichlorobenzenes (1,2-, 1,3- & 1,4-)	µg/l	20	-	-	20	0	-	-	0
Total Trichlorobenzenes	µg/l	0.4	-	-	0.4	0	-	-	0
Total Trihalomethanes, sum of trichloromethane, bromoform, and chloroform	µg/l	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/l	-	-	-	-	3	0.50	0.50	-
2,4,6-Trichlorophenol	µg/l	-	-	-	-	3	1.00	1.00	-
2,4-Dichlorophenol	µg/l	4.2	-	-	4.2	3	0.50	0.50	0
2,4-Dimethylphenol	µg/l	-	-	-	-	3	1.00	1.00	-
2,4-Dinitrotoluene	µg/l	-	-	-	-	3	0.50	0.50	-
2,6-Dinitrotoluene	µg/l	-	-	-	-	3	1.00	1.00	-
2-Chloronaphthalene	µg/l	-	-	-	-	3	1.00	1.00	-
2-Chlorophenol	µg/l	50	-	-	50	3	1.00	1.00	0
2-Methylnaphthalene	µg/l	-	-	-	-	3	1.00	1.00	-
2-Methylphenol	µg/l	-	-	-	-	3	0.50	0.50	-
2-Nitrophenol	µg/l	-	-	-	-	3	0.50	0.50	-
3&4 Methylphenol	µg/l	-	-	-	-	0	-	-	-
3,4-Dichloroaniline	µg/l	0.2	-	-	0.2	0	-	-	0
3-Chlorophenol	µg/l	50	-	-	50	0	-	-	0
4-Chloro, 3-methylphenol	µg/l	40	-	-	40	3	0.50	0.50	0
4-Chloroaniline	µg/l	-	-	-	-	3	1.00	1.00	-
4-Chlorophenol	µg/l	50	-	-	50	0	-	-	0
4-Chlorophenyl phenyl ether	µg/l	-	-	-	-	3	1.00	1.00	-
4-Methylphenol	µg/l	-	-	-	-	3	1.00	1.00	-
4-Nitroaniline	µg/l	-	-	-	-	3	0.50	0.50	-
Aniline	µg/l	-	-	-	-	0	-	-	-
Anthraquinone	µg/l	-	-	-	-	0	-	-	-
Azobenzene	µg/l	-	-	-	-	3	0.50	0.50	-
Benzyl butyl phthalate	µg/l	7.5	-	-	7.5	0	-	-	0
Bis(2-chloroethoxy)methane	µg/l	-	-	-	-	3	0.50	0.50	-
Bis(2-chloroethylether)	µg/l	-	-	-	-	3	1.00	1.00	-
Bis(2-chloroisopropylether)	µg/l	-	-	-	-	0	-	-	-
Bromophenyl phenyl ether	µg/l	-	-	-	-	0	-	-	-
Carbazole	µg/l	-	-	-	-	3	0.50	0.50	-
Di(2-ethylhexylphthalate) (DEHP)	µg/l	1.3	-	-	1.3	0	-	-	0
Dibenzofuran	µg/l	-	-	-	-	3	0.50	0.50	-
Dibutyl phthalate	µg/l	8	-	-	8	0	-	-	0
Diethyl phthalate (DEP)	µg/l	200	-	-	200	0	-	-	0
Dimethyl phthalate (DMP)	µg/l	800	-	-	800	0	-	-	-
Diethyl phthalate	µg/l	20	-	-	20	0	-	-	-
Hexachlorobenzene	µg/l	0.05	-	-	0.05	3	1.00	1.00	0 RC301 @ 5/1/2023, RC302 @ 5/1/2023, RC303 @ 5/1/2023
Hexachloroethane	µg/l	-	-	-	-	2	1.00	1.00	-
Isophorone	µg/l	-	-	-	-	3	0.50	0.50	-
Nitrobenzene	µg/l	-	-	-	-	3	1.00	1.00	-
Nonylphenol (4-Nonylphenol)	µg/l	0.3	-	-	0.3	0	-	-	0
Octylphenol (4-(1', 3', 3'-tetramethylbutyl)phenol)	µg/l	0.1	-	-	0.1	0	-	-	0
Pentachlorobenzene	µg/l	0.007	-	-	0.007	0	-	-	0
Phenol	µg/l	7.7	-	-	7.7	3	1.00	1.00	0
Ferrous iron (Fe2+)	µg/l	-	-	-	-	0	-	-	-
Ferric iron (Fe3+)	µg/l	-	-	-	-	0	-	-	-
Manganese (II)	µg/l	-	-	-	-	0	-	-	-
Manganese (IV)	µg/l	-	-	-	-	0	-	-	-
Redox Potential	µg/l	-	-	-	-	0	-	-	-
Alkalinity	µg/l	-	-	-	-	0	-	-	-
Dissolved Carbon Dioxide	µg/l	-	-	-	-	0	-	-	-
Dissolved Methane	µg/l	-	-	-	-	0	-	-	-
Dissolved Oxygen	µg/l	-	-	-	-	0	-	-	-
PCB Congener 28	µg/l	-	-	-	-	3	0.10	0.10	-
PCB Congener 52	µg/l	-	-	-	-	3	0.10	0.10	-
PCB Congener 101	µg/l	-	-	-	-	3	0.10	0.10	-
PCB Congener 118	µg/l	-	-	-	-	3	0.10	0.10	-
PCB Congener 138	µg/l	-	-	-	-	3	0.10	0.10	-
PCB Congener 153	µg/l	-	-	-	-	3	0.10	0.10	-
PCB Congener 180	µg/l	-	-	-	-	3	0.10	0.10	-
Polychlorinated Biphenyls (PCB) (ICE)	µg/l	-	-	-	-	3	0.70	0.70	-
PCB Congener 77	µg/l	-	-	-	-	0	-	-	-
PCB Congener 81	µg/l	-	-	-	-	0	-	-	-
PCB Congener 105	µg/l	-	-	-	-	0	-	-	-
PCB Congener 114	µg/l	-	-	-	-	0	-	-	-
PCB Congener 123	µg/l	-	-	-	-	0	-	-	-
PCB Congener 126	µg/l	-	-	-	-	0	-	-	-
PCB Congener 156	µg/l	-	-	-	-	0	-	-	-
PCB Congener 157	µg/l	-	-	-	-	0	-	-	-
PCB Congener 167	µg/l	-	-	-	-	0	-	-	-
PCB Congener 169	µg/l	-	-	-	-	0	-	-	-
PCB Congener 189	µg/l	-	-	-	-	0	-	-	-
Total PCBs (WHO12)	µg/l	-	-	-	-	0	-	-	-
m-Xylene	µg/l	30	-	-	30	0	-	-	0
p-Xylene	µg/l	30	-	-	30	0	-	-	0
1,4-dioxane	µg/l	-	-	-	-	0	-	-	-
Acrylamide	µg/l	-	-	-	-	0	-	-	-
Biphenyl (cyclohexorocyclohexane)	µg/l	25	-	-	25	0	-	-	0
Brominated diphenylethers (Sum of 2,2',4,4'-tetrabromodiphenylether, 2,2',4,4'-tetrabromodiphenylether, 2,2',4,4'-tetrabromodiphenylether, 2,2',4,4'-tetrabromodiphenylether)	µg/l	0.14	-	-	0.14	0	-	-	0
Chloroalkanes C10-C13	µg/l	0.4	-	-	0.4	0	-	-	0
Chloronitrobenzenes	µg/l	10	-	-	10	0	-	-	0
Dibromooacetone	µg/l	-	-	-	-	0	-	-	-
Dichloroacetate	µg/l	-	-	-	-	0	-	-	-
Dichloroacetone	µg/l	-	-	-	-	0	-	-	-
Hexabromocyclododecanes (HBCDD)	µg/l	0.0016	-	-	0.0016	0	-	-	0
Hydroxyatrazine	µg/l	-	-	-	-	0	-	-	-
Microcystin-LR	µg/l	-	-	-	-	0	-	-	-
N-nitrosodimethylamine	µg/l	-	-	-	-	0	-	-	-
Sodium dichloroisoxanurate	µg/l	-	-	-	-	0	-	-	-
Tributyl phosphate	µg/l	50	-	-	50	0	-	-	0
Triclosan	µg/l	0.1	-	-	0.1	0	-	-	0
3-Perfluoropropyl propanoic acid (3-PFPPA)	µg/l	-	-	-	-	0	-	-	-
4,2-Fluorotelomer sulfonic acid (4,2-FTS)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorooctanoic acid (2H,2H,3H,3H-PFOA)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorooctanoic acid (2H,2H,3H,3H-PFOA)	µg/l	-	-	-	-	0	-	-	-
6,2-Fluorotelomer sulfonic acid (6,2-FTS)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorodecanoic acid (2H,2H,3H,3H-PFDA)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorodecanoic acid (2H,2H,3H,3H-PFDA)	µg/l	-	-	-	-	0	-	-	-
4,8-Dioxo-3H-perfluorononanoic acid (4,8-Dioxo-3H-PFNA)	µg/l	-	-	-	-	0	-	-	-
N-Ethyl perfluorooctane sulfonamide (PFOSA)	µg/l	-	-	-	-	0	-	-	-
N-Ethyl-N-(2-hydroxyethyl) perfluorooctane sulfonamide (PFOS)	µg/l	-	-	-	-	0	-	-	-
Perfluorobutyl sulfonamide (PFBS)	µg/l	-	-	-	-	0	-	-	-
Perfluorohexane sulfonamide (PFHxS)	µg/l	-	-	-	-	0	-	-	-
Perfluorooctane sulfonamide (PFOS)	µg/l	-	-	-	-	0	-	-	-
Hexafluoropropylene oxide dimer (HFPO-DA)	µg/l	-	-	-	-	0	-	-	-
Hexafluoropropylene oxide trimer (HFPO-TA)	µg/l	-	-	-	-	0	-	-	-
N-methyl perfluorooctane sulfonamide (PFMS)	µg/l	-	-	-	-	0	-	-	-
N-Methyl-N-(2-hydroxyethyl) perfluorooctane sulfonamide (PFMHxS)	µg/l	-	-	-	-	0	-	-	-

[illegible]

Permethrin	µg/l	0.001	-	-	0.001	0	-	-	0
Pesticides (individual) (other than a	µg/l	-	-	-	-	0	-	-	-
Pesticides (total)	µg/l	-	-	-	-	0	-	-	-
Pirimicarb	µg/l	1	-	-	1	0	-	-	0
Pirimiphos - methyl	µg/l	0.015	-	-	0.015	0	-	-	0
Prochloraz	µg/l	4	-	-	4	0	-	-	0
Propetamphos	µg/l	0.03	-	-	0.03	0	-	-	0
Propyzamide	µg/l	100	-	-	100	0	-	-	0
Pyriproxyfen	µg/l	-	-	-	-	0	-	-	-
Quinoxifen	µg/l	0.15	-	-	0.15	0	-	-	0
Simazine	µg/l	1	-	-	1	0	-	-	0
Sulcotruron	µg/l	25	-	-	25	0	-	-	0
Tecnazene (total)	µg/l	1	-	-	1	0	-	-	0
Tertbutryn	µg/l	0.062	-	-	0.062	0	-	-	0
Tertbutylazine	µg/l	-	-	-	-	0	-	-	-
Thiabendazole	µg/l	5	-	-	5	0	-	-	0
Triallate	µg/l	0.25	-	-	0.25	0	-	-	0
Triazaphos	µg/l	0.005	-	-	0.005	0	-	-	0
Trifluralin	µg/l	0.03	-	-	0.03	0	-	-	0
Triphenyltin and derivatives	µg/l	0.02	-	-	0.02	0	-	-	0
Potassium (K) (dissolved)	µg/l	-	-	-	-	0	-	-	-
Carbonate [CO ₃ ²⁻]	µg/l	-	-	-	-	0	-	-	-
Bicarbonate [HCO ₃ ⁻]	µg/l	-	-	-	-	0	-	-	-
Carben disulphide	µg/l	-	-	-	-	0	-	-	-
Cylindrospermopsins	µg/l	-	-	-	-	0	-	-	-
Saxitoxins	µg/l	-	-	-	-	0	-	-	-
Determinand 1	µg/l	-	-	-	-	0	-	-	-
Determinand 2	µg/l	-	-	-	-	0	-	-	-
Determinand 3	µg/l	-	-	-	-	0	-	-	-
Determinand 4	µg/l	-	-	-	-	0	-	-	-
Determinand 5	µg/l	-	-	-	-	0	-	-	-
Determinand 6	µg/l	-	-	-	-	0	-	-	-
Determinand 7	µg/l	-	-	-	-	0	-	-	-
Determinand 8	µg/l	-	-	-	-	0	-	-	-
Determinand 9	µg/l	-	-	-	-	0	-	-	-
Determinand 10	µg/l	-	-	-	-	0	-	-	-
Determinand 11	µg/l	-	-	-	-	0	-	-	-
Determinand 12	µg/l	-	-	-	-	0	-	-	-
Determinand 13	µg/l	-	-	-	-	0	-	-	-
Determinand 14	µg/l	-	-	-	-	0	-	-	-
Determinand 15	µg/l	-	-	-	-	0	-	-	-
Determinand 16	µg/l	-	-	-	-	0	-	-	-
Determinand 17	µg/l	-	-	-	-	0	-	-	-
Determinand 18	µg/l	-	-	-	-	0	-	-	-
Determinand 19	µg/l	-	-	-	-	0	-	-	-
Determinand 20	µg/l	-	-	-	-	0	-	-	-

DATA SHOWN BELOW WILL MATCH FILTERS & SCENARIOS ON THE ASSESSMENT SHEET														
Controlled Waters (England & Wales)														
Chemical of Potential Concern	Unit	EQS (inland) (England and Wales)	WQT Header	WQT Header	Screening Value (minimum of WQT)	No. Samples	Min	Max	No. Samples Equal to, or Greater Than WQT	Exceedances				
Electrical conductivity (µS/cm)	µS/cm	-	-	-	-	3	660.00	1900.00	-					
Cyanide (free) (hydrogen cyanide)	µg/l	1	-	-	-	1	0	-	0					
Cyanide (total)	µg/l	-	-	-	-	3	1.00	1.00	-					
Dissolved Organic Carbon (DOC) (mg/l)	mg/l	-	-	-	-	3	0.87	2.27	-					
Ammonium (NH ₄ ⁺)	µg/l	-	-	-	-	3	300.00	2300.00	-					
Ammoniacal Nitrogen (as N)	µg/l	300	-	-	-	300	230.00	1600.00	1	CP402 @ 23/7/2026				
Ammonia (un-ionised) (NH ₃ as N) (ft)	µg/l	-	-	-	-	3	280.00	2000.00	-					
Bromate (BrO ₃)	mg/l	-	-	-	-	3	0.00	0.00	-					
Chloride (Cl ⁻)	mg/l	250	-	-	-	250	73.00	290.00	1	CP402 @ 23/7/2026				
Fluoride (F ⁻)	µg/l	1000	-	-	-	1000	200.00	290.00	0					
Nitrate (NO ₃ ⁻)	mg/l	-	-	-	-	3	0.05	0.05	-					
Nitrite (NO ₂ ⁻)	µg/l	-	-	-	-	3	5.00	5.00	-					
Sulfate (SO ₄ ²⁻)	mg/l	400	-	-	-	400	12.70	417.00	1	CP402 @ 23/7/2026				
Aluminium (Al) (dissolved)	µg/l	-	-	-	-	3	3.30	160.00	-					
Antimony (Sb) (dissolved)	µg/l	-	-	-	-	3	0.40	0.40	-					
Arsenic (As) (dissolved)	µg/l	50	-	-	-	50	0.33	1.49	0					
Barium (Ba) (dissolved)	µg/l	-	-	-	-	3	14.00	100.00	-					
Boron (B) (dissolved)	µg/l	2000	-	-	-	2000	3	200.00	600.00	0				
Cadmium (Cd) (dissolved)	µg/l	0.08	-	-	-	0.08	3	0.02	0.02	0				
Calcium (Ca) (dissolved)	mg/l	-	-	-	-	0	-	-	-					
Chromium (Cr III) (dissolved)	µg/l	4.7	-	-	-	4.7	3	5.00	5.00	0	CP401 @ 23/7/2026, CP402 @ 23/7/2026, W5404 @ 23/7/2026			
Chromium (Cr VI) (dissolved)	µg/l	3.4	-	-	-	3.4	3	5.00	5.00	0	CP401 @ 23/7/2026, CP402 @ 23/7/2026, W5404 @ 23/7/2026			
Chromium (Cr) (dissolved)	µg/l	-	-	-	-	3	0.20	0.30	-					
Cobalt (Co) (dissolved)	µg/l	3	-	-	-	3	0.20	5.70	1	CP401 @ 23/7/2026				
Copper (Cu) (dissolved)	µg/l	1	-	-	-	1	0.50	1.20	2	CP402 @ 23/7/2026, W5404 @ 23/7/2026				
Iron (Fe) (dissolved)	mg/l	1	-	-	-	1	0.01	0.09	0					
Lead (Pb) (dissolved)	µg/l	1.2	-	-	-	1.2	3	0.20	0.20	0				
Magnesium (Mg) (dissolved)	mg/l	-	-	-	-	0	-	-	-					
Manganese (Mn) (dissolved)	µg/l	123	-	-	-	123	3	240.00	2800.00	3	CP401 @ 23/7/2026, CP402 @ 23/7/2026, W5404 @ 23/7/2026			
Mercury (Hg) (dissolved)	µg/l	0.07	-	-	-	0.07	3	0.05	0.05	0				
Nickel (Ni) (dissolved)	µg/l	4	-	-	-	4	3	0.90	4.40	1	CP401 @ 23/7/2026			
Selenium (Se) (dissolved)	µg/l	-	-	-	-	3	0.60	0.60	-					
Silver (Ag) (dissolved)	µg/l	0.05	-	-	-	0.05	3	0.05	0.05	0				
Sodium (Na) (dissolved)	mg/l	-	-	-	-	3	79.00	310.00	-					
Tin (Sn) (dissolved)	µg/l	25	-	-	-	25	3	0.20	0.20	0				
Vanadium (V) (dissolved)	µg/l	20	-	-	-	20	3	0.20	0.20	0				
Zinc (Zn) (dissolved)	µg/l	10.9	-	-	-	10.9	3	2.00	11.00	1	CP401 @ 23/7/2026			
Acenaphthene	µg/l	-	-	-	-	3	0.01	0.02	-					
Acenaphthylene	µg/l	-	-	-	-	3	0.01	0.01	-					
Anthracene	µg/l	0.1	-	-	-	0.1	3	0.01	0.01	0				
Benzo[a]anthracene	µg/l	-	-	-	-	3	0.01	0.06	-					
Benzo[a]pyrene	µg/l	0.00017	-	-	-	0.00017	3	0.01	0.01	0	CP401 @ 23/7/2026, CP402 @ 23/7/2026, W5404 @ 23/7/2026			
Benzo[b]fluoranthene	µg/l	0.017	-	-	-	0.017	3	0.01	0.03	1	CP402 @ 23/7/2026			
Benzo[ghi]perylene	µg/l	0.0082	-	-	-	0.0082	3	0.01	0.01	0	CP401 @ 23/7/2026, CP402 @ 23/7/2026, W5404 @ 23/7/2026			
Benzo[k]fluoranthene	µg/l	0.017	-	-	-	0.017	3	0.01	0.01	0				
Chrysene	µg/l	-	-	-	-	3	0.01	0.05	-					
Dibenz[a,h]anthracene	µg/l	-	-	-	-	3	0.01	0.01	-					
Fluoranthene	µg/l	0.0063	-	-	-	0.0063	3	0.02	0.09	3	CP401 @ 23/7/2026, CP402 @ 23/7/2026, W5404 @ 23/7/2026			
Fluorene	µg/l	-	-	-	-	3	0.01	0.01	-					
Indeno[1,2,3-cd]pyrene	µg/l	-	-	-	-	3	0.01	0.01	-					
Naphthalene	µg/l	2	-	-	-	2	3	0.01	0.04	0				
Phenanthrene	µg/l	-	-	-	-	3	0.02	0.04	-					
Pyrene	µg/l	-	-	-	-	3	0.01	0.09	-					
PAHs = sum of benzo[b]fluoranthene	µg/l	-	-	-	-	3	0.04	0.04	-					
Total Phenols	µg/l	7.7	-	-	-	7.7	3	1.00	1.00	0				
Aliphatic >EC5-EC6	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aliphatic >EC6-EC8	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aliphatic >EC8-EC10	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aliphatic >EC10-EC12	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aliphatic >EC12-EC16	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aliphatic >EC16-EC21	µg/l	-	-	-	-	3	10.00	10.00	-					
Aliphatic >EC21-EC35	µg/l	-	-	-	-	3	10.00	10.00	-					
Aliphatic >EC16-EC35	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aliphatic >EC35-EC44	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aliphatic >EC5-EC35	µg/l	-	-	-	-	3	10.00	10.00	-					
Aliphatic >EC5-EC44	µg/l	-	-	-	-	3	10.00	10.00	-					
Aromatic >EC5-EC7	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aromatic >EC7-EC8	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aromatic >EC8-EC10	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aromatic >EC10-EC12	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aromatic > EC12-EC16	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aromatic >EC16-EC21	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aromatic >EC21-EC35	µg/l	10	-	-	-	10	3	10.00	10.00	0				
Aromatic >EC35-EC44	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Aromatic >EC5-EC35	µg/l	-	-	-	-	3	1.00	1.00	-					
Aromatic >EC5-EC44	µg/l	-	-	-	-	3	1.00	1.00	-					
TPH EC5-44	µg/l	-	-	-	-	3	1.00	1.00	-					
Benzene	µg/l	10	-	-	-	10	3	1.00	1.00	0				
Toluene	µg/l	74	-	-	-	74	3	1.00	1.00	0				
Ethylbenzene	µg/l	26	-	-	-	26	3	1.00	1.00	0				
m,p-Xylene	µg/l	30	-	-	-	30	3	1.00	1.00	0				
o-Xylene	µg/l	30	-	-	-	30	3	1.00	1.00	0				
Methyl tertiary butyl ether (MTBE)	µg/l	-	-	-	-	3	3.00	3.00	-					
m,p,o-Xylene (sum)	µg/l	30	-	-	-	30	3	3.00	3.00	0				
1,1,1,2-Tetrachloroethane	µg/l	-	-	-	-	0	-	-	-					
1,1,1-Trichloroethane	µg/l	100	-	-	-	100	0	-	-					
1,1,2,2-Tetrachloroethane	µg/l	-	-	-	-	0	-	-	-					
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/l	-	-	-	-	0	-	-	-					
1,1,2-Trichloroethane	µg/l	400	-	-	-	400	0	-	-					
1,1-Dichloroethane	µg/l	-	-	-	-	0	-	-	-					
1,1-Dichloroethene	µg/l	-	-	-	-	0	-	-	-					
1,1-Dichloropropene	µg/l	-	-	-	-	0	-	-	-					
1,2,3,4-Tetrachlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,2,3,5-Tetrachlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,2,3-Trichlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,2,4,5-Tetrachlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,2,4-Trichlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,2,4-Trimethylbenzene	µg/l	-	-	-	-	0	-	-	-					
1,2-Dibromo-3-chloropropane	µg/l	-	-	-	-	0	-	-	-					
1,2-Dibromomethane	µg/l	-	-	-	-	0	-	-	-					
1,2-Dichlorobenzene	µg/l	20	-	-	-	20	0	-	-					
1,2-Dichloroethane (EDC)	µg/l	10	-	-	-	10	0	-	-					
1,2-Dichloropropane	µg/l	-	-	-	-	0	-	-	-					
1,3,5-Trichlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,3,5-Trimethylbenzene	µg/l	-	-	-	-	0	-	-	-					
1,3-Dichlorobenzene	µg/l	-	-	-	-	0	-	-	-					
1,3-Dichloropropane	µg/l	-	-	-	-	0	-	-	-					
1,4-Dichlorobenzene	µg/l	20	-	-	-	20	0	-	-					
2,2-Dichloropropane	µg/l	-	-	-	-	0	-	-	-					
2-Chlorotoluene	µg/l	-	-	-	-	0	-	-	-					
4-Chlorotoluene	µg/l	-	-	-	-	0	-	-	-					
Bromobenzene	µg/l	-	-	-	-	0	-	-	-					
Bromodichloromethane	µg/l	-	-	-	-	0	-	-	-					
Bromomethane	µg/l	-	-	-	-	0	-	-	-					
Butylbenzene	µg/l	-	-	-	-	0	-	-	-					
Chlorobenzene	µg/l	-	-	-	-	0	-	-	-					
Chloromethane	µg/l	-	-	-	-	0	-	-	-					
cis 1,2-Dichloroethene (cis 1,2 DCE)	µg/l	-	-	-	-	0	-	-	-					
cis 1,3-Dichloropropene	µg/l	-	-	-	-	0	-	-	-					
Dibromochloromethane	µg/l	-	-	-	-	0	-	-	-					
Dibromomethane	µg/l	-	-	-	-	0	-	-	-					
Dichlorodifluoromethane	µg/l	-	-	-	-	0	-	-	-					

Dichloromethane (DCM)	µg/l	20	-	-	20	0	-	-	0
Hexachlorobutadiene (HCBD)	µg/l	0.6	-	-	0.6	0	-	-	0
Isopropylbenzene	µg/l	-	-	-	-	-	-	-	-
n-Propylbenzene	µg/l	-	-	-	-	0	-	-	-
p-Isopropyltoluene	µg/l	-	-	-	-	0	-	-	-
sec-Butylbenzene	µg/l	-	-	-	-	0	-	-	-
Styrene	µg/l	50	-	-	50	0	-	-	0
tert-Butylbenzene	µg/l	-	-	-	-	0	-	-	-
Tetrachloroethene (PCA)	µg/l	140	-	-	140	0	-	-	0
Tetrachloroethene (PCE)	µg/l	10	-	-	10	0	-	-	0
Tetrachloromethane (Carbon Tetrachloride)	µg/l	12	-	-	12	0	-	-	0
trans 1,2-Dichloroethene (trans 1,2-DCE)	µg/l	-	-	-	-	0	-	-	-
trans 1,3-Dichloropropene	µg/l	-	-	-	-	0	-	-	-
Tribromomethane (bromoform)	µg/l	-	-	-	-	0	-	-	-
Trichloroethene (TCE)	µg/l	10	-	-	10	0	-	-	0
Trichlorofluoromethane (CFC-11)	µg/l	-	-	-	-	0	-	-	-
Trichloromethane (chloroform)	µg/l	2.5	-	-	2.5	0	-	-	0
Vinyl chloride (chloroethene) (VC)	µg/l	-	-	-	-	0	-	-	-
Tetrachloroethene (PCE) and trichloroethene (TCE)	µg/l	-	-	-	-	0	-	-	-
Total 1,2-Dichloroethene	µg/l	-	-	-	-	0	-	-	-
Total 1,3-Dichloropropene	µg/l	-	-	-	-	0	-	-	-
Total Dichlorobenzenes (1,2-, 1,3- & 1,4-)	µg/l	20	-	-	20	0	-	-	0
Total Trichlorobenzenes	µg/l	0.4	-	-	0.4	0	-	-	0
Total Trihalomethanes, sum of trichloromethane, bromoform and chloroform	µg/l	-	-	-	-	0	-	-	-
2,4,5-Trichlorophenol	µg/l	-	-	-	-	0	-	-	-
2,4,6-Trichlorophenol	µg/l	-	-	-	-	0	-	-	-
2,4-Dichlorophenol	µg/l	4.2	-	-	4.2	0	-	-	0
2,4-Dimethylphenol	µg/l	-	-	-	-	0	-	-	-
2,4-Dinitrotoluene	µg/l	-	-	-	-	0	-	-	-
2,6-Dinitrotoluene	µg/l	-	-	-	-	0	-	-	-
2-Chloronaphthalene	µg/l	-	-	-	-	0	-	-	-
2-Chlorophenol	µg/l	50	-	-	50	0	-	-	0
2-Methylnaphthalene	µg/l	-	-	-	-	0	-	-	-
2-Methylphenol	µg/l	-	-	-	-	0	-	-	-
2-Nitrophenol	µg/l	-	-	-	-	0	-	-	-
3&4 Methylphenol	µg/l	-	-	-	-	0	-	-	-
3,4-Dichloroaniline	µg/l	0.2	-	-	0.2	0	-	-	0
3-Chlorophenol	µg/l	50	-	-	50	0	-	-	0
4-Chloro, 3-methylphenol	µg/l	40	-	-	40	0	-	-	0
4-Chloroaniline	µg/l	-	-	-	-	0	-	-	-
4-Chlorophenol	µg/l	50	-	-	50	0	-	-	0
4-Chlorophenyl phenyl ether	µg/l	-	-	-	-	0	-	-	-
4-Methylphenol	µg/l	-	-	-	-	0	-	-	-
4-Nitroaniline	µg/l	-	-	-	-	0	-	-	-
Aniline	µg/l	-	-	-	-	0	-	-	-
Anthraquinone	µg/l	-	-	-	-	0	-	-	-
Azobenzene	µg/l	-	-	-	-	0	-	-	-
Benzyl butyl phthalate	µg/l	7.5	-	-	7.5	0	-	-	0
Bis(2-chloroethoxy)methane	µg/l	-	-	-	-	0	-	-	-
Bis(2-chloroethoxy)ether	µg/l	-	-	-	-	0	-	-	-
Bis(2-chloroisopropoxy)ether	µg/l	-	-	-	-	0	-	-	-
Bromophenyl phenyl ether	µg/l	-	-	-	-	0	-	-	-
Carbazole	µg/l	-	-	-	-	0	-	-	-
Di(2-ethylhexyl)phthalate (DEHP)	µg/l	1.3	-	-	1.3	0	-	-	0
Dibenzofuran	µg/l	-	-	-	-	0	-	-	-
Dibutyl phthalate	µg/l	8	-	-	8	0	-	-	0
Diethyl phthalate (DEP)	µg/l	200	-	-	200	0	-	-	0
Dimethyl phthalate (DMP)	µg/l	800	-	-	800	0	-	-	0
Diethyl phthalate	µg/l	20	-	-	20	0	-	-	0
Hexachlorobenzene	µg/l	0.05	-	-	0.05	0	-	-	0
Hexachloroethane	µg/l	-	-	-	-	0	-	-	-
Isophorone	µg/l	-	-	-	-	0	-	-	-
Nitrobenzene	µg/l	-	-	-	-	0	-	-	-
Nonylphenol (4-Nonylphenol)	µg/l	0.3	-	-	0.3	0	-	-	0
Octylphenol (4-(1,1',3,3'-tetramethyl-4-pyrenyl)phenyl)	µg/l	0.1	-	-	0.1	0	-	-	0
Pentachlorobenzene	µg/l	0.007	-	-	0.007	0	-	-	0
Phenol	µg/l	7.7	-	-	7.7	0	-	-	0
Ferrous iron (Fe2+)	µg/l	-	-	-	-	0	-	-	-
Ferric iron (Fe3+)	µg/l	-	-	-	-	0	-	-	-
Manganese (II)	µg/l	-	-	-	-	0	-	-	-
Manganese (IV)	µg/l	-	-	-	-	0	-	-	-
Redox Potential	µg/l	-	-	-	-	0	-	-	-
Alkalinity	µg/l	-	-	-	-	0	-	-	-
Dissolved Carbon Dioxide	µg/l	-	-	-	-	0	-	-	-
Dissolved Methane	µg/l	-	-	-	-	0	-	-	-
Dissolved Oxygen	µg/l	-	-	-	-	0	-	-	-
PCB Congener 28	µg/l	-	-	-	-	0	-	-	-
PCB Congener 52	µg/l	-	-	-	-	0	-	-	-
PCB Congener 101	µg/l	-	-	-	-	0	-	-	-
PCB Congener 118	µg/l	-	-	-	-	0	-	-	-
PCB Congener 138	µg/l	-	-	-	-	0	-	-	-
PCB Congener 153	µg/l	-	-	-	-	0	-	-	-
PCB Congener 180	µg/l	-	-	-	-	0	-	-	-
Polychlorinated Biphenyls (PCB) (ICE)	µg/l	-	-	-	-	0	-	-	-
PCB Congener 77	µg/l	-	-	-	-	0	-	-	-
PCB Congener 81	µg/l	-	-	-	-	0	-	-	-
PCB Congener 105	µg/l	-	-	-	-	0	-	-	-
PCB Congener 114	µg/l	-	-	-	-	0	-	-	-
PCB Congener 123	µg/l	-	-	-	-	0	-	-	-
PCB Congener 126	µg/l	-	-	-	-	0	-	-	-
PCB Congener 156	µg/l	-	-	-	-	0	-	-	-
PCB Congener 157	µg/l	-	-	-	-	0	-	-	-
PCB Congener 167	µg/l	-	-	-	-	0	-	-	-
PCB Congener 169	µg/l	-	-	-	-	0	-	-	-
PCB Congener 180	µg/l	-	-	-	-	0	-	-	-
Total PCBs (WHO12)	µg/l	-	-	-	-	0	-	-	-
m-Xylene	µg/l	30	-	-	30	0	-	-	0
p-Xylene	µg/l	30	-	-	30	0	-	-	0
1,4-dioxane	µg/l	-	-	-	-	0	-	-	-
Acrylamide	µg/l	-	-	-	-	0	-	-	-
Biphenyl (cyclohexorocyclohexane)	µg/l	25	-	-	25	0	-	-	0
Brominated diphenylethers (Sum of 2,2',3,3',4,4',5,5',6,6',7,7',8,8',9,9',10,10',11,11',12,12')	µg/l	0.14	-	-	0.14	0	-	-	0
Chloroalkanes C10-C13	µg/l	0.4	-	-	0.4	0	-	-	0
Chloronitrotoluenes	µg/l	10	-	-	10	0	-	-	0
Dibromooacetone	µg/l	-	-	-	-	0	-	-	-
Dichloroacetate	µg/l	-	-	-	-	0	-	-	-
Dichloroacetone	µg/l	-	-	-	-	0	-	-	-
Hexabromocyclododecanes (HBCDD)	µg/l	0.0016	-	-	0.0016	0	-	-	0
Hydroxyatrazine	µg/l	-	-	-	-	0	-	-	-
Microcystin-LR	µg/l	-	-	-	-	0	-	-	-
N-nitrosodimethylamine	µg/l	-	-	-	-	0	-	-	-
Sodium dichloroisoxanurate	µg/l	-	-	-	-	0	-	-	-
Tributyl phosphate	µg/l	50	-	-	50	0	-	-	0
Triclosan	µg/l	0.1	-	-	0.1	0	-	-	0
3-Perfluoropropyl propanoic acid (3-PFPPA)	µg/l	-	-	-	-	0	-	-	-
4,2-Fluorotetramer sulfonic acid (4,2-FTSA)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorooctanoic acid (2H,2H,3H,3H-PFOA)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorooctanoic acid (2H,2H,3H,3H-PFOA)	µg/l	-	-	-	-	0	-	-	-
6,2-Fluorotetramer sulfonic acid (6,2-FTSA)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorodecanoic acid (2H,2H,3H,3H-PFDA)	µg/l	-	-	-	-	0	-	-	-
2H,2H,3H,3H-Perfluorodecanoic acid (2H,2H,3H,3H-PFDA)	µg/l	-	-	-	-	0	-	-	-
4,8-Dioxa-3H-perfluorononanoic acid (4,8-DOPFNA)	µg/l	-	-	-	-	0	-	-	-
N-Ethyl perfluorooctane sulfonamide (N-EtPFOSA)	µg/l	-	-	-	-	0	-	-	-
N-Ethyl-N-(2-hydroxyethyl) perfluorooctane sulfonamide (N-EtN-(2-HO)PFOSA)	µg/l	-	-	-	-	0	-	-	-
Perfluorobutyl sulfonamide (PFBS)	µg/l	-	-	-	-	0	-	-	-
Perfluorohexane sulfonamide (PFHxS)	µg/l	-	-	-	-	0	-	-	-
Perfluorooctane sulfonamide (PFOSA)	µg/l	-	-	-	-	0	-	-	-
Hexafluoropropylene oxide dimer (HFPO-DA)	µg/l	-	-	-	-	0	-	-	-
Hexafluoropropylene oxide trimer (HFPO-TA)	µg/l	-	-	-	-	0	-	-	-
N-methyl perfluorooctane sulfonamide (N-MePFOSA)	µg/l	-	-	-	-	0	-	-	-
N-Methyl-N-(2-hydroxyethyl) perfluorooctane sulfonamide (N-MeN-(2-HO)PFOSA)	µg/l	-	-	-	-	0	-	-	-

[illegible]

Permethrin	µg/l	0.001	-	-	0.001	0	-	-	0
Pesticides (individual) (other than a	µg/l	-	-	-	-	0	-	-	-
Pesticides (total)	µg/l	-	-	-	-	0	-	-	-
Pirimicarb	µg/l	1	-	-	1	0	-	-	0
Pirimiphos - methyl	µg/l	0.015	-	-	0.015	0	-	-	0
Prochloraz	µg/l	4	-	-	4	0	-	-	0
Propetamphos	µg/l	0.03	-	-	0.03	0	-	-	0
Propyzamide	µg/l	100	-	-	100	0	-	-	0
Pyriproxyfen	µg/l	-	-	-	-	0	-	-	-
Quinoxifen	µg/l	0.15	-	-	0.15	0	-	-	0
Simazine	µg/l	1	-	-	1	0	-	-	0
Sulcotruron	µg/l	25	-	-	25	0	-	-	0
Tecnazene (total)	µg/l	1	-	-	1	0	-	-	0
Tertbutryn	µg/l	0.062	-	-	0.062	0	-	-	0
Tertbutylazine	µg/l	-	-	-	-	0	-	-	-
Thiabendazole	µg/l	5	-	-	5	0	-	-	0
Triallate	µg/l	0.25	-	-	0.25	0	-	-	0
Triazaphos	µg/l	0.005	-	-	0.005	0	-	-	0
Trifluralin	µg/l	0.03	-	-	0.03	0	-	-	0
Triphenyltin and derivatives	µg/l	0.02	-	-	0.02	0	-	-	0
Potassium (K) (dissolved)	µg/l	-	-	-	-	0	-	-	-
Carbonate [CO ₃ ²⁻]	µg/l	-	-	-	-	0	-	-	-
Bicarbonate [HCO ₃ ⁻]	µg/l	-	-	-	-	0	-	-	-
Carben disulphide	µg/l	-	-	-	-	0	-	-	-
Cylindrospermopsins	µg/l	-	-	-	-	0	-	-	-
Saxitoxins	µg/l	-	-	-	-	0	-	-	-
Determinand 1	µg/l	-	-	-	-	0	-	-	-
Determinand 2	µg/l	-	-	-	-	0	-	-	-
Determinand 3	µg/l	-	-	-	-	0	-	-	-
Determinand 4	µg/l	-	-	-	-	0	-	-	-
Determinand 5	µg/l	-	-	-	-	0	-	-	-
Determinand 6	µg/l	-	-	-	-	0	-	-	-
Determinand 7	µg/l	-	-	-	-	0	-	-	-
Determinand 8	µg/l	-	-	-	-	0	-	-	-
Determinand 9	µg/l	-	-	-	-	0	-	-	-
Determinand 10	µg/l	-	-	-	-	0	-	-	-
Determinand 11	µg/l	-	-	-	-	0	-	-	-
Determinand 12	µg/l	-	-	-	-	0	-	-	-
Determinand 13	µg/l	-	-	-	-	0	-	-	-
Determinand 14	µg/l	-	-	-	-	0	-	-	-
Determinand 15	µg/l	-	-	-	-	0	-	-	-
Determinand 16	µg/l	-	-	-	-	0	-	-	-
Determinand 17	µg/l	-	-	-	-	0	-	-	-
Determinand 18	µg/l	-	-	-	-	0	-	-	-
Determinand 19	µg/l	-	-	-	-	0	-	-	-
Determinand 20	µg/l	-	-	-	-	0	-	-	-

Appendix F Waste classification

F.1 HazWasteOnline™ assessment



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)



9ZFGD-OGXD6-ADL72

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

Report is invalid if pages are removed.

Job name

333701756 Imberhorne

Description/Comments

26-028565, 26-027320

Project

333701756

Site

Imberhorne

Classified by

Name: **Emma Dixon**
Date: **09 Jul 2026 13:27 GMT**
Telephone: **01912 302993**
Company: **Stantec UK Ltd**
2 Esh Plaza, Sir Bobby Robson Way, Great Park,
Newcastle upon Tyne
NE13 9BA

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:

CERTIFIED

Course
Hazardous Waste Classification

Date
04 Apr 2024

Next 3 year Refresher due by Apr 2027

Purpose of classification

2 - Material Characterisation

Address of the waste

Imberhorne

Post Code **N/A**

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Redevelopment of site to care village

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

Excavation arisings

Description of the waste

Natural geology (clay) and inert landfill material, predominantly inert landfill material

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS416 ES1--22052026-0.50		Non Hazardous		3
2	WS416 ES3--22052026-2.30		Non Hazardous		6
3	TP406 ES4-4-18052026-1.50		Non Hazardous		9
4	TP403 ES1-1-18052026-0.40		Non Hazardous		14
5	TP402 ES4-4-18052026-1.10		Non Hazardous		17
6	TP401 ES1-1-18052026-0.40		Non Hazardous		19
7	TP412 ES4-4-19052026-1.00		Non Hazardous		22
8	TP410 ES1-1-19052026-0.20		Non Hazardous		27

Related documents

#	Name	Description
1	26-028565_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
2	26-027320_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
3	Hydrock Standard plus Cresol (ammended Lead)	waste stream template used to create this Job

Report

Created by: Emma Dixon

Created date: 09 Jul 2026 13:27 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	29
Appendix B: Rationale for selection of metal species	33
Appendix C: Version	34

Classification of sample: WS416 ES1--22052026-0.50

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS416 ES1--22052026-0.50	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
15% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight 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	acenaphthene	201-469-6	83-32-9		3.2 mg/kg		2.72 mg/kg	0.000272 %	✓	
2	acenaphthylene	205-917-1	208-96-8		2.4 mg/kg		2.04 mg/kg	0.000204 %	✓	
3	anthracene	204-371-1	120-12-7		13 mg/kg		11.05 mg/kg	0.00111 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	13 mg/kg	1.32	14.59 mg/kg	0.00146 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	21 mg/kg		17.85 mg/kg	0.00179 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	17 mg/kg		14.45 mg/kg	0.00145 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	20 mg/kg		17 mg/kg	0.0017 %	✓	
9	benzo[ghi]perylene	205-883-8	191-24-2		7.6 mg/kg		6.46 mg/kg	0.000646 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	6.9 mg/kg		5.865 mg/kg	0.000587 %	✓	
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		31 mg/kg	1.462	38.512 mg/kg	0.00385 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4	218-01-9	16 mg/kg		13.6 mg/kg	0.00136 %	✓	
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	99 mg/kg	1.126	94.744 mg/kg	0.00947 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#	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							
17	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				49 mg/kg		41.65 mg/kg	0.00416 %	✓	
		205-912-4	206-44-0							
20	fluorene				7.6 mg/kg		6.46 mg/kg	0.000646 %	✓	
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				7.3 mg/kg		6.205 mg/kg	0.00062 %	✓	
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	110 mg/kg		93.5 mg/kg	0.00935 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				3.5 mg/kg		2.975 mg/kg	0.000298 %	✓	
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				26 mg/kg	1.579	34.907 mg/kg	0.00349 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH		PH		7.6 pH		7.6 pH	7.6 pH		
27	phenanthrene				45 mg/kg		38.25 mg/kg	0.00382 %	✓	
		201-581-5	85-01-8							
28	pyrene				38 mg/kg		32.3 mg/kg	0.00323 %	✓	
		204-927-3	129-00-0							
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
30	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
31	TPH (C6 to C40) petroleum group		TPH		527 mg/kg		447.95 mg/kg	0.0448 %	✓	
32	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
33	zinc { zinc oxide }				140 mg/kg	1.245	148.121 mg/kg	0.0148 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.109 %		

Key	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	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 concentration of: 1000 mg/kg (0.1%) because: No flammability risk due to nature of material (soil)

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0448%)

Classification of sample: WS416 ES3--22052026-2.30

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS416 ES3--22052026-2.30	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
17%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight 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	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		0.06 mg/kg		0.0498 mg/kg		0.00000498 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		10 mg/kg	1.32	10.959 mg/kg		0.0011 %	✓	
5	benzene	601-020-00-8	200-753-7		<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6		0.32 mg/kg		0.266 mg/kg		0.0000266 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.5 mg/kg		0.415 mg/kg		0.0000415 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.51 mg/kg		0.423 mg/kg		0.0000423 %	✓	
9	benzo[ghi]perylene	205-883-8	191-24-2		0.39 mg/kg		0.324 mg/kg		0.0000324 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.21 mg/kg		0.174 mg/kg		0.0000174 %	✓	
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	<0.2 mg/kg	1.285	<0.257 mg/kg		<0.00002 %		<LOD
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		26 mg/kg	1.462	31.54 mg/kg		0.00315 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<1.8 mg/kg	1.923	<3.462 mg/kg		<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4		0.29 mg/kg		0.241 mg/kg		0.0000241 %	✓	
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		22 mg/kg	1.126	20.559 mg/kg		0.00206 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg		<0.000188 %		<LOD

#	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							
17	dibenz[a,h]anthracene				0.06 mg/kg		0.0498 mg/kg	0.00000498 %	✓	
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				0.43 mg/kg		0.357 mg/kg	0.0000357 %	✓	
		205-912-4	206-44-0							
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				0.3 mg/kg		0.249 mg/kg	0.0000249 %	✓	
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	23 mg/kg		19.09 mg/kg	0.00191 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				14 mg/kg	1.579	18.354 mg/kg	0.00184 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH				7 pH		7 pH	7pH		
27	phenanthrene				0.18 mg/kg		0.149 mg/kg	0.0000149 %	✓	
		201-581-5	85-01-8							
28	pyrene				0.45 mg/kg		0.374 mg/kg	0.0000374 %	✓	
		204-927-3	129-00-0							
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.8 mg/kg	1.405	2.099 mg/kg	0.00021 %	✓	
	034-002-00-8									
30	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
31	TPH (C6 to C40) petroleum group				30 mg/kg		24.9 mg/kg	0.00249 %	✓	
			TPH							
32	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
33	zinc { zinc oxide }				75 mg/kg	1.245	77.483 mg/kg	0.00775 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0208 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	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 concentration of: 1000 mg/kg (0.1%) because: No flammability risk due to nature of material (soil)

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00249%)

Classification of sample: TP406 ES4-4-18052026-1.50

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP406 ES4-4-18052026-1.50	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
16%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight 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	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	8.3 mg/kg	1.32	9.205 mg/kg	0.000921 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		33 mg/kg	1.462	40.514 mg/kg	0.00405 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	37 mg/kg	1.126	34.993 mg/kg	0.0035 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#	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								
17	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	13 mg/kg		10.92 mg/kg	0.00109 %		✓	
	082-001-00-6										
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				8.6 mg/kg	1.579	11.41 mg/kg	0.00114 %		✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH		PH		7.3 pH		7.3 pH	7.3 pH			
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
32	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
33	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
34	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
35	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-027-00-9	201-167-4	79-01-6								
36	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-023-00-7	200-831-0	75-01-4								
37	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<LOD
	601-022-00-9	215-535-7	1330-20-7								
38	zinc { zinc oxide }				46 mg/kg	1.245	48.096 mg/kg	0.00481 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
39	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	602-065-00-6	204-273-9	118-74-1								
40	1,2-dichloroethane; ethylene dichloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
	602-012-00-7	203-458-1	107-06-2								
41	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
		200-856-7	75-27-4								
42	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-060-00-9	203-623-8	108-86-1								
43	bromomethane; methylbromide				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-002-00-2	200-813-2	74-83-9								

#	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							
44	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
45	1,2,4-trichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
46	mesitylene; 1,3,5-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
47	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		203-209-7	104-51-8							
48	cis-dichloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-026-00-3	205-859-7	156-59-2							
49	(Z)-1,3-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-030-00-5	233-195-8	10061-01-5							
50	2-chlorotoluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-040-00-X	202-424-3	95-49-8							
51	4-chlorotoluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-040-00-X	203-397-0	106-43-4							
52	dibromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		204-704-0	124-48-1							
53	1,2-dibromo-3-chloropropane				<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
54	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
55	1,1-dichloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
56	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
57	2,2-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		209-832-0	594-20-7							
58	1,1-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
59	1,3-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-531-3	142-28-9							
60	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		201-765-5	87-68-3							
61	cumene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
62	1-isopropyl-4-methylbenzene; p-cymene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-094-00-1	202-796-7	99-87-6							
63	1,3-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
64	propylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-097-00-8	203-132-9	103-65-1							
65	1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
66	1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
67	1,2-dichloropropane; propylene dichloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
68	sec-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-227-0	135-98-8							
69	styrene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
70	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
71	bromoform; tribromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
72	1,1,1-trichloroethane; methyl chloroform				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-013-00-2	200-756-3	71-55-6							

#	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							
73	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
74	trichlorofluoromethane	200-892-3	75-69-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
75	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
76	chloroform; trichloromethane	602-006-00-4	200-663-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
77	trans-dichloroethylene	602-026-00-3	205-860-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
78	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
80	1,2,4-trimethylbenzene	601-043-00-3	202-436-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
81	1,1,2-trichloroethane	602-014-00-8	201-166-9		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
82	chlorobenzene	602-033-00-1	203-628-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
83	chloroethane	602-009-00-0	200-830-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
84	chloromethane; methyl chloride	602-001-00-7	200-817-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
85	1,2-dibromoethane	602-010-00-6	203-444-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
86	aniline	612-008-00-7	200-539-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
87	anthraquinone	606-151-00-4	201-549-0		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
88	azobenzene	611-001-00-6	203-102-5		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
89	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
90	bis(2-chloroethyl) ether	603-029-00-2	203-870-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
91	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
92	4-bromophenylphenylether	202-952-4	101-55-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
93	carbazole	201-696-0	86-74-8		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
94	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
95	2-chloronaphthalene	202-079-9	91-58-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
96	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
97	2,4-dichlorophenol	604-011-00-7	204-429-6		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
98	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
99	dibutyl phthalate; DBP	607-318-00-4	201-557-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
100	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
101	2,4-xylenol	604-006-00-X	203-321-6		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#	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							
102	2,4-dinitrotoluene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0	121-14-2							
103	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
104	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
105	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
106	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
107	2-chlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2	95-57-8							
108	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	98-75-5							
109	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
110	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
111	p-nitroaniline				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	612-012-00-9	202-810-1	100-01-6							
112	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
113	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	98-06-2							
114	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
115	mix-cresol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-004-00-9	215-293-2	1319-77-3							
Total:								0.0155 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	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

Classification of sample: TP403 ES1-1-18052026-0.40

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP403 ES1-1-18052026-0.40	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
25%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% Wet Weight 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	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		0.09 mg/kg		0.0675 mg/kg		0.00000675 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		22 mg/kg	1.32	21.785 mg/kg		0.00218 %	✓	
5	benzene	601-020-00-8	200-753-7		<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6		0.63 mg/kg		0.473 mg/kg		0.0000472 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.69 mg/kg		0.518 mg/kg		0.0000518 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.79 mg/kg		0.593 mg/kg		0.0000593 %	✓	
9	benzo[ghi]perylene	205-883-8	191-24-2		0.4 mg/kg		0.3 mg/kg		0.00003 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.29 mg/kg		0.218 mg/kg		0.0000218 %	✓	
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	0.8 mg/kg	1.285	0.771 mg/kg		0.00006 %	✓	
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		26 mg/kg	1.462	28.5 mg/kg		0.00285 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<1.8 mg/kg	1.923	<3.462 mg/kg		<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4		0.6 mg/kg		0.45 mg/kg		0.000045 %	✓	
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		1300 mg/kg	1.126	1097.741 mg/kg		0.11 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg		<0.000188 %		<LOD

#	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							
17	dibenz[a,h]anthracene				0.09 mg/kg		0.0675 mg/kg	0.00000675 %	✓	
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				1.1 mg/kg		0.825 mg/kg	0.0000825 %	✓	
		205-912-4	206-44-0							
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				0.35 mg/kg		0.263 mg/kg	0.0000263 %	✓	
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	130 mg/kg		97.5 mg/kg	0.00975 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				0.8 mg/kg	1.353	0.812 mg/kg	0.0000812 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				48 mg/kg	1.579	56.862 mg/kg	0.00569 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH				7 pH		7 pH	7pH		
			PH							
27	phenanthrene				0.33 mg/kg		0.248 mg/kg	0.0000247 %	✓	
		201-581-5	85-01-8							
28	pyrene				0.96 mg/kg		0.72 mg/kg	0.000072 %	✓	
		204-927-3	129-00-0							
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
30	toluene				0.019 mg/kg		0.0143 mg/kg	0.00000143 %	✓	
	601-021-00-3	203-625-9	108-88-3							
31	TPH (C6 to C40) petroleum group				37 mg/kg		27.75 mg/kg	0.00278 %	✓	
			TPH							
32	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
33	zinc { zinc oxide }				710 mg/kg	1.245	662.81 mg/kg	0.0663 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
34	asbestos				20 mg/kg		15 mg/kg	0.0015 %	✓	
	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							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.201 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	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 concentration of: 1000 mg/kg (0.1%)
because: No flammability risk due to nature of material (soil)

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene (conc.: 1.43e-06%)

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00278%)

Classification of sample: TP402 ES4-4-18052026-1.10

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP402 ES4-4-18052026-1.10	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
17% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

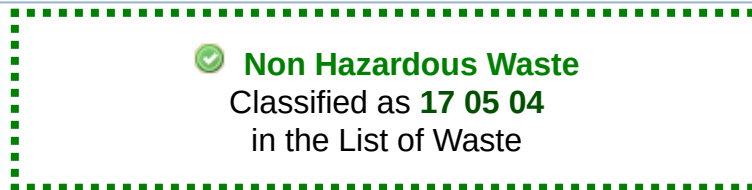
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	3.9 mg/kg	1.32	4.274 mg/kg	0.000427 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		36 mg/kg	1.462	43.671 mg/kg	0.00437 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	34 mg/kg	1.126	31.773 mg/kg	0.00318 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#	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							
17	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	9.5 mg/kg		7.885 mg/kg	0.000789 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				9.2 mg/kg	1.579	12.061 mg/kg	0.00121 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH		PH		7.1 pH		7.1 pH	7.1 pH		
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.2 mg/kg	1.405	1.399 mg/kg	0.00014 %	✓	
	034-002-00-8									
30	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
31	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
32	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
33	zinc { zinc oxide }				180 mg/kg	1.245	185.96 mg/kg	0.0186 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0287 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	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

Classification of sample: TP401 ES1-1-18052026-0.40



Sample details

Sample name:	LoW Code:
TP401 ES1-1-18052026-0.40	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
20% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight 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	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		0.07 mg/kg		0.056 mg/kg	0.0000056 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	18 mg/kg	1.32	19.013 mg/kg	0.0019 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.35 mg/kg		0.28 mg/kg	0.000028 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.34 mg/kg		0.272 mg/kg	0.0000272 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.49 mg/kg		0.392 mg/kg	0.0000392 %	✓	
9	benzo[ghi]perylene	205-883-8	191-24-2		0.2 mg/kg		0.16 mg/kg	0.000016 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.22 mg/kg		0.176 mg/kg	0.0000176 %	✓	
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1.7 mg/kg	1.285	1.748 mg/kg	0.000136 %	✓	
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		29 mg/kg	1.462	33.908 mg/kg	0.00339 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4	218-01-9	0.38 mg/kg		0.304 mg/kg	0.0000304 %	✓	
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	380 mg/kg	1.126	342.27 mg/kg	0.0342 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#	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							
17	dibenz[a,h]anthracene				0.06 mg/kg		0.048 mg/kg	0.0000048 %	✓	
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				0.7 mg/kg		0.56 mg/kg	0.000056 %	✓	
		205-912-4	206-44-0							
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				0.2 mg/kg		0.16 mg/kg	0.000016 %	✓	
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	210 mg/kg		168 mg/kg	0.0168 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				0.7 mg/kg	1.353	0.758 mg/kg	0.0000758 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				34 mg/kg	1.579	42.962 mg/kg	0.0043 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH		PH		6 pH		6 pH	6pH		
27	phenanthrene				0.3 mg/kg		0.24 mg/kg	0.000024 %	✓	
		201-581-5	85-01-8							
28	pyrene				0.64 mg/kg		0.512 mg/kg	0.0000512 %	✓	
		204-927-3	129-00-0							
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
30	toluene				0.034 mg/kg		0.0272 mg/kg	0.00000272 %	✓	
	601-021-00-3	203-625-9	108-88-3							
31	TPH (C6 to C40) petroleum group		TPH		18 mg/kg		14.4 mg/kg	0.00144 %	✓	
32	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
33	zinc { zinc oxide }				610 mg/kg	1.245	607.42 mg/kg	0.0607 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.123 %		

Key	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	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 concentration of: 1000 mg/kg (0.1%) because: No flammability risk due to nature of material (soil)

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene (conc.: 2.72e-06%)

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00144%)

Classification of sample: TP412 ES4-4-19052026-1.00

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP412 ES4-4-19052026-1.00	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
34%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 34% Wet Weight 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		acenaphthene				1	mg/kg		0.66	mg/kg	0.000066 %	✓	
			201-469-6	83-32-9									
2		acenaphthylene				0.25	mg/kg		0.165	mg/kg	0.0000165 %	✓	
			205-917-1	208-96-8									
3		anthracene				1.5	mg/kg		0.99	mg/kg	0.000099 %	✓	
			204-371-1	120-12-7									
4		arsenic { arsenic trioxide }				74	mg/kg	1.32	64.485	mg/kg	0.00645 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
5		benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
6		benzo[a]anthracene				3.6	mg/kg		2.376	mg/kg	0.000238 %	✓	
		601-033-00-9	200-280-6	56-55-3									
7		benzo[a]pyrene; benzo[def]chrysene				4	mg/kg		2.64	mg/kg	0.000264 %	✓	
		601-032-00-3	200-028-5	50-32-8									
8		benzo[b]fluoranthene				5.1	mg/kg		3.366	mg/kg	0.000337 %	✓	
		601-034-00-4	205-911-9	205-99-2									
9		benzo[ghi]perylene				2.2	mg/kg		1.452	mg/kg	0.000145 %	✓	
			205-883-8	191-24-2									
10		benzo[k]fluoranthene				1.6	mg/kg		1.056	mg/kg	0.000106 %	✓	
		601-036-00-5	205-916-6	207-08-9									
11		cadmium { cadmium sulfide }			1	0.9	mg/kg	1.285	0.763	mg/kg	0.0000594 %	✓	
		048-010-00-4	215-147-8	1306-23-6									
12		chromium in Cr(III) compounds {  chromium(III) oxide (worst case) }				62	mg/kg	1.462	59.807	mg/kg	0.00598 %	✓	
			215-160-9	1308-38-9									
13		chromium in Cr(VI) compounds { chromium(VI) oxide }				<1.8	mg/kg	1.923	<3.462	mg/kg	<0.000346 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
14		chrysene				4	mg/kg		2.64	mg/kg	0.000264 %	✓	
		601-048-00-0	205-923-4	218-01-9									
15		copper { dicopper oxide; copper (I) oxide }				410	mg/kg	1.126	304.665	mg/kg	0.0305 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
16		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 }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											

#	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							
17	dibenz[a,h]anthracene				0.4 mg/kg		0.264 mg/kg	0.0000264 %	✓	
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				8.3 mg/kg		5.478 mg/kg	0.000548 %	✓	
		205-912-4	206-44-0							
20	fluorene				0.85 mg/kg		0.561 mg/kg	0.0000561 %	✓	
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				1.8 mg/kg		1.188 mg/kg	0.000119 %	✓	
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	800 mg/kg		528 mg/kg	0.0528 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.447 mg/kg	0.0000447 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				0.73 mg/kg		0.482 mg/kg	0.0000482 %	✓	
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				120 mg/kg	1.579	125.096 mg/kg	0.0125 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH				7 pH		7 pH	7pH		
27	phenanthrene				2.9 mg/kg		1.914 mg/kg	0.000191 %	✓	
		201-581-5	85-01-8							
28	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
29	pyrene				7.4 mg/kg		4.884 mg/kg	0.000488 %	✓	
		204-927-3	129-00-0							
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				2 mg/kg	1.405	1.855 mg/kg	0.000185 %	✓	
	034-002-00-8									
31	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
32	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
33	toluene				0.1 mg/kg		0.066 mg/kg	0.0000066 %	✓	
	601-021-00-3	203-625-9	108-88-3							
34	TPH (C6 to C40) petroleum group				1180 mg/kg		778.8 mg/kg	0.0779 %	✓	
35	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
36	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
37	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
38	zinc { zinc oxide }				710 mg/kg	1.245	583.273 mg/kg	0.0583 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
39	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
40	1,2-dichloroethane; ethylene dichloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
41	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
42	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
43	bromomethane; methylbromide				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-002-00-2	200-813-2	74-83-9							

#	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							
44	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
46	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
47	n-butylbenzene 203-209-7	104-51-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
48	cis-dichloroethylene 602-026-00-3	205-859-7	156-59-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	(Z)-1,3-dichloropropene 602-030-00-5	233-195-8	10061-01-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
50	2-chlorotoluene 602-040-00-X	202-424-3	95-49-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
51	4-chlorotoluene 602-040-00-X	203-397-0	106-43-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
52	dibromochloromethane 204-704-0	124-48-1			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
53	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
54	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
55	1,1-dichloroethane 602-011-00-1	200-863-5	75-34-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
56	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
57	2,2-dichloropropane 209-832-0	594-20-7			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
58	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
59	1,3-dichloropropane 205-531-3	142-28-9			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
60	hexachlorobutadiene 201-765-5	87-68-3			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
61	cumene 601-024-00-X	202-704-5	98-82-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
62	1-isopropyl-4-methylbenzene; p-cymene 601-094-00-1	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
63	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
64	propylbenzene 601-097-00-8	203-132-9	103-65-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
65	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
66	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
67	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
68	sec-butylbenzene 205-227-0	135-98-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
69	styrene 601-026-00-0	202-851-5	100-42-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
70	tert-butylbenzene 202-632-4	98-06-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
71	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
72	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#	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							
73	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
74	trichlorofluoromethane	200-892-3	75-69-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
75	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
76	chloroform; trichloromethane	602-006-00-4	200-663-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
77	trans-dichloroethylene	602-026-00-3	205-860-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
78	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
80	1,2,4-trimethylbenzene	601-043-00-3	202-436-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
81	1,1,2-trichloroethane	602-014-00-8	201-166-9		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
82	chlorobenzene	602-033-00-1	203-628-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
83	chloroethane	602-009-00-0	200-830-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
84	chloromethane; methyl chloride	602-001-00-7	200-817-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
85	1,2-dibromoethane	602-010-00-6	203-444-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
86	aniline	612-008-00-7	200-539-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
87	anthraquinone	606-151-00-4	201-549-0		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
88	azobenzene	611-001-00-6	203-102-5		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
89	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
90	bis(2-chloroethyl) ether	603-029-00-2	203-870-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
91	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
92	4-bromophenylphenylether	202-952-4	101-55-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
93	carbazole	201-696-0	86-74-8		0.4 mg/kg		0.264 mg/kg	0.0000264 %	✓	
94	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
95	2-chloronaphthalene	202-079-9	91-58-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
96	dibenzofuran	205-071-3	132-64-9		0.5 mg/kg		0.33 mg/kg	0.000033 %	✓	
97	2,4-dichlorophenol	604-011-00-7	204-429-6		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
98	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
99	dibutyl phthalate; DBP	607-318-00-4	201-557-4		1.5 mg/kg		0.99 mg/kg	0.000099 %	✓	
100	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
101	2,4-xyleneol	604-006-00-X	203-321-6		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#	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							
102	2,4-dinitrotoluene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0	121-14-2							
103	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
104	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
105	2-methyl naphthalene				0.5 mg/kg		0.33 mg/kg	0.000033 %	✓	
		202-078-3	91-57-6							
106	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
107	2-chlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2	95-57-8							
108	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
109	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
110	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
111	p-nitroaniline				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	612-012-00-9	202-810-1	100-01-6							
112	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
113	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
114	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
115	mix-cresol				0.2 mg/kg		0.132 mg/kg	0.0000132 %	✓	
	604-004-00-9	215-293-2	1319-77-3							
Total:								0.248 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	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 concentration of: 1000 mg/kg (0.1%) because: No flammability risk due to nature of material (soil)

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene (conc.: 6.6e-06%)

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0779%)

Classification of sample: TP410 ES1-1-19052026-0.20

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP410 ES1-1-19052026-0.20	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
14% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight 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	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	15 mg/kg	1.32	17.032 mg/kg	0.0017 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
12	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		28 mg/kg	1.462	35.194 mg/kg	0.00352 %	✓	
13	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %		<LOD
14	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	15 mg/kg	1.126	14.524 mg/kg	0.00145 %	✓	
16	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			<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#	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							
17	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	24 mg/kg		20.64 mg/kg	0.00206 %	✓	
	082-001-00-6									
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	nickel { nickel dihydroxide }				12 mg/kg	1.579	16.3 mg/kg	0.00163 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
26	pH		PH		6.8 pH		6.8 pH	6.8 pH		
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
28	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
29	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.8 mg/kg	1.405	2.175 mg/kg	0.000217 %	✓	
	034-002-00-8									
30	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
31	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
32	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
33	zinc { zinc oxide }				58 mg/kg	1.245	62.086 mg/kg	0.00621 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0168 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v6.8 dated 12/12/2025
Data source: <https://chem.echa.europa.eu/100.001.336/industry/113817?searchText=83-32-9>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/215376>
Data source date: 02 Mar 2026
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v6.7 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.380/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/416703>
Data source date: 02 Mar 2026
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 1; H330 , STOT SE 3; H335

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

Description/Comments: Data from ECHACHEM; CLP submissions
SDS Sigma Aldrich v9.3 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.003.974/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48567>
Data source date: 03 Mar 2026
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , PBT; EUH440

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

Description/Comments: Data from ECHACHEM; CLP submissions; Sigma Aldrich SDS v7.1 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.350/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/b9009>
Data source date: 18 May 2026
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , vPvB; EUH441 , PBT; EUH440

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

Description/Comments: Data from ECHACHEM; notifications <1% & outliers (H360, H413) ignored
Data source: <https://chem.echa.europa.eu/100.013.783/overview>
Data source date: 16 Mar 2026
Hazard Statements: Acute Tox. 4; H302 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Resp. Sens. 1; H334

■ **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

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments: IARC considers ethylbenzene Group 2B; Possibly carcinogenic to humans;
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2026 - Carc. 2; H351 hazard statement sourced from:: IARC Group 2B (77) 2000

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

Description/Comments: Data from ECHACHEM; CLP submissions
SDS Sigma Aldrich v7.2 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.376/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/f807>
Data source date: 03 Mar 2026
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , PBT; EUH440 , EUH441

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

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v6.6 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.001.541/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/128333>
Data source date: 02 Mar 2026
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 ECHACHEM database; CLP submissions
SDS Sigma Aldrich v6.8 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.359/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48499>
Data source date: 03 Mar 2026
Hazard Statements: Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **lead compounds with the exception of those specified elsewhere in this Annex**

GB MCL index number: 082-001-00-6
Description/Comments: Least-worst case: 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

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 version 1.1.NI and 1.2.GB 2021
Data source date: 30 Jan 2021
Hazard Statements: None.

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

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v7.2 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.001.437/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48569>
Data source date: 02 Mar 2026
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , EUH441

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

Description/Comments: Data from ECHACHEM; CLP submissions
SDS Sigma Aldrich v7.2 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.004.481/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/185515>
Data source date: 03 Mar 2026
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , PBT; EUH440 , EUH441

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

Description/Comments: Unknown Oil
Hazard statements taken from WM3 version 1.1.NI and 1.2.GB 2021
Data source: WM3 version 1.1.NI and 1.2.GB 2021
Data source date: 30 Jan 2021
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

■ **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.5 dated 09/01/2024
Data source: <https://chem.echa.europa.eu/100.000.779/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/139181>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 2; H351 , Repr. 1A; H360

■ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.2 dated 05/11/2025
Data source: <https://chem.echa.europa.eu/100.002.918/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/b90203>
Data source date: 15 May 2026
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.2 dated 05/11/2025
Data source: <https://chem.echa.europa.eu/100.004.277/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/206326>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

▪ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.2 dated 5/11/2025
Data source: <https://chem.echa.europa.eu/100.008.940/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/258571>
Data source date: 15 May 2026
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319 , Acute Tox. 4; H332

▪ **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.2 dated 5/11/2025
Data source: <https://chem.echa.europa.eu/100.005.029/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/d72204>
Data source date: 15 May 2026
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 3; H412

▪ **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v8.0 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.001.605/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/112194>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.6 dated 05/11/2025
Data source: <https://chem.echa.europa.eu/100.004.752/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/b90408>
Data source date: 15 May 2026
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 4; H302 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v8.6 dated 27/10/2023
Data source: <https://chem.echa.europa.eu/100.002.394/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/b90602>
Data source date: 15 May 2026
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , Aquatic Chronic 2; H411

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.3 dated 16/10/2024
Data source: <https://chem.echa.europa.eu/100.001.598/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/t54402>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H302 , Skin Sens. 1B; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v7.5 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.000.812/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48541>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

■ **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Sigma Aldrich SDS v10.0 dated 16/03/2026

Data source: <https://chem.echa.europa.eu/100.154.864/overview>

<https://www.sigmaaldrich.com/GB/en/sds/supelco/47793>

Data source date: 15 May 2026

Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Sigma Aldrich SDS v6.6 dated 3/11/23

Data source: <https://chem.echa.europa.eu/100.010.124/overview>

<https://www.sigmaaldrich.com/GB/en/sds/sigald/t7209>

Data source date: 14 May 2026

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Acute Tox. 3; H331 , Carc. 2; H351 , Aquatic Chronic 3; H412

■ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

LGC SDS v1 dated 24/02/2021

Data source: <https://chem.echa.europa.eu/100.003.564/overview>

https://www.lgcstandards.com/medias/sys_master/root/hd0/hf5/11104042352670/new-SDS_DRE-C10651000_ST-WB-MSDS-3391314-1-1-1/new-SDS-DRE-C10651000-ST-WB-MSDS-3391314-1-1-1.PDF

Data source date: 15 May 2026

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , STOT SE 1; H370 , STOT RE 2; H373

■ **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Sigma Aldrich SDS v6.5 dated 09/01/2024

Data source: <https://chem.echa.europa.eu/100.002.685/overview>

<https://www.sigmaaldrich.com/GB/en/sds/aldrich/b65209>

Data source date: 15 May 2026

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Sigma Aldrich SDS v6.13 dated 05/11/2025

Data source: <https://chem.echa.europa.eu/100.001.542/overview>

<https://www.sigmaaldrich.com/GB/en/sds/sigma/46100>

Data source date: 15 May 2026

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Angene SDS v2.0 dated 01/05/2021

Data source: <https://chem.echa.europa.eu/100.001.891/overview>

<https://www.angenechemical.com/sds/91-58-7.pdf>

Data source date: 15 May 2026

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 3; H412

■ **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Sigma Aldrich SDS v6.8 dated 26/06/2025

Data source: <https://chem.echa.europa.eu/100.004.612/overview>

<https://www.sigmaaldrich.com/GB/en/sds/aldrich/236373>

Data source date: 15 May 2026

Hazard Statements: Acute Tox. 4; H302 , Aquatic Chronic 2; H411

■ **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;

Sigma Aldrich SDS v6.6 dated 15/10/2025

Data source: <https://chem.echa.europa.eu/100.001.409/overview>

<https://www.sigmaaldrich.com/GB/en/sds/aldrich/w512206>

Data source date: 15 May 2026

Hazard Statements: Eye Irrit. 2; H319

▪ **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.4 dated 05/11/2025
Data source: <https://chem.echa.europa.eu/100.004.557/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/525081>
Data source date: 15 May 2026
Hazard Statements: Eye Irrit. 2; H319 , Acute Tox. 3; H331

▪ **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v7.5 dated 05/11/2025
Data source: <https://chem.echa.europa.eu/100.000.606/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/185442>
Data source date: 15 May 2026
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Carc. 2; H351 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v9.6 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.001.890/overview>
<https://www.sigmaaldrich.com/GB/en/sds/sial/45796>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

▪ **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v8.8 dated 05/11/2025
Data source: <https://chem.echa.europa.eu/100.001.688/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/n19702>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.6 dated 01/03/2024
Data source: <https://chem.echa.europa.eu/100.027.529/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/357650>
Data source date: 15 May 2026
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

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

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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}

Worst case species

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

zinc {zinc oxide}

Worst case species based on hazard statements

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2026.165.7172.12905 (14 Jun 2026)
HazWasteOnline Database: 2026.165.7172.12905 (14 Jun 2026)

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

Appendix G Preliminary geotechnical risk register

Geotechnical hazard identification – desk study stage

Potential geotechnical hazards have been assessed in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622. The following pages set out the identified geotechnical risks and hazards which are associated with the proposed development and establish the approach which is to be taken to manage the risks including the geotechnical input and analysis.

Section 5 of this report presents the preliminary assessment of possible geotechnical hazards that were derived at the site at Desk Study stage. The preliminary Geotechnical Risk Register following Ground Investigation is set out in Table G.2.

The probability and impact of a hazard have been judged on a qualitative scale as set out in Table G.1. The degree of risk (R) is determined by combining an assessment of the probability (P) of the hazard occurring with an assessment of the impact (I) of the hazard and associated mitigation it will require if it occurs ($R = P \times I$).

Table G.1 : Qualitative assessment of hazards and risks

P = probability		I = impact		R = risk rating (P x I)	
1	Very unlikely	1	Very low	1-4	None/negligible
2	Unlikely	2	Low	5-9	Minor
3	Plausible	3	Medium	10-14	Moderate
4	Likely	4	High	15-19	Substantial
5	Very likely	5	Very high	20-25	Severe



Table G.2 : Preliminary geotechnical risk register

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
Uncontrolled Made Ground displaying variable strength and compressibility.	There is Made Ground Waste on site. The Made Ground is up to 3.50m thick.	Buildings	Bearing capacity failure, settlement (total and differential). Floor slab failure.	4	4	16	Design foundations to found in underlying natural strata through piling. Piles may require casing / designed to account for poor lateral support and negative skin friction. Design floor slabs as suspended.
		Roads and pavements	Settlement (total and differential) of roads and pavements.	4	2	8	Design roads and pavements using suitable geotechnical parameters and increase the thickness of sub-base and/or use geo-grids as appropriate.
		Services	Settlement (differential), causing damage to services.	4	2	8	Anticipated settlements are significant with regard to services. There is a requirement to improve the Made Ground prior to installation of services. It is also advisable to steepen falls in drainage to prevent back fall and use rocker boxes and flexible couplings.
		Gardens	Settlement (differential), in gardens.	3	2	6	Settlements are anticipated to be significant. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		Construction staff, vehicles and plant operators	Trafficking of the site in temporary conditions. Overturning of plant during construction.	4	3	12	Temporary working platform design may include geogrid. Site inspection and watching brief by Contractor to review working platform frequently and regularly.



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Appendix G Preliminary geotechnical risk register

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
Shrink swell of the clay fraction of soils under the influence of vegetation.	Plasticity testing indicates highly variable volume change potential within the Made Ground and the Grinstead Clay Member.	Foundations	Shrinkage or heave of soils and associated damage to foundations.	3	3	9	Design foundations in accordance with NHBC standards where near to existing or proposed new planting.
		Floor slabs	Floor slab failure.	3	4	12	Design floor slabs in accordance with NHBC standards.
Variable lateral and vertical changes in ground conditions.	The Made Ground is present in a discreet area in the centre of the site. Strata vary in composition and strength both laterally and vertically.	Buildings	Bearing capacity failure, settlement (total and differential). Floor slab failure.	4	4	16	Design foundations to found in underlying natural strata below the Made Ground. Consideration of negative skin friction and differential settlement will be required. Ground Improvement may be suitable for some areas of site. Design floor slab as suspended.
		Roads and pavements	Settlement (total and differential) of roads and pavements.	4	2	8	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate.
		Services	Settlement (differential), causing damage to services.	4	2	8	Anticipated settlements may have a significant impact on services. It is advisable to steepen falls in drainage to prevent back fall and use rocker boxes and flexible couplings.
		Gardens	Settlement (differential), in gardens.	3	1	6	Differential settlement may occur over time leading to uneven surfaces.



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Appendix G Preliminary geotechnical risk register

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
		Construction staff, vehicles and plant operators	Trafficking of the site in temporary conditions. Overturning of plant during construction.	4	3	12	Outline design of working platform to include geo-grid. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Attack of buried concrete by aggressive ground conditions.	The ground investigation works has proven that there is potential for sulphate bearing soils to be present.	Attack of buried concrete	Damage to concrete and reduction in strength.	3	4	12	Classify concrete in accordance with BRE SD1 and design concrete accordingly.
		Earthworks	Sulphate heave following the use of hydraulic binders.	3	4	12	Supplementary sulphate testing in accordance with BRE guidelines to be undertaken during earthworks. Before the use of hydraulic binders is approved, comprehensive testing and design will need to be undertaken.
Obstructions.	Obstructions should be anticipated throughout the Made Ground.	Construction staff, vehicles and plant operators.	Risk of collapse of excavation as obstructions are pulled out.	3	3	9	Allow for a breaker to be present during construction and remove obstructions where encountered during construction. Presence of possible piling obstructions to be accounted for in design – consider allowing for relocation or redundant pile
		Roads and Pavements.	Hard spots in externals and roads / pavements.	3	2	6	
		Buildings	Impact on piling / VSC, resulting in additional piles / columns and re design of foundations.	4	3	12	



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Appendix G Preliminary geotechnical risk register

Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
Shallow groundwater.	Monitoring during the ground investigation works has proven shallow groundwater at discreet locations between 1m and 3m bgl.	Construction staff, vehicles and plant operators	Difficulty with excavation.	4	2	8	Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of, and requirements for, de-watering of excavations. Any water that collects at the base of excavations to be removed as soon as practicable.
		Slopes and retaining	Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	4	2	8	Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.
Changing groundwater conditions.	Groundwater should be anticipated to vary seasonally.	Construction staff, vehicles and plant operators	Difficulty with excavation.				Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of, and requirements for, de-watering of excavations. Any water that collects at the base of excavations to be removed as soon as practicable.



Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
		Slopes and retaining	Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.				Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.
Risk from flooding.	The site is of high risk to groundwater flooding.	The entire development	Damage to houses, gardens roads and services.	4	4	16	The planning of the site needs to take into account the risk of flooding.
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	The ground investigation has indicated that there is a potential for loose soils and Made Ground to be present at the site.	Construction staff, vehicles and plant operators.	Ground failure, instability of plant and machinery.	3	4	12	Foundation options should be reviewed to ensure minimal excavation (e.g. piles). Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Design to include recommendations for inspection of excavations. No person entry to unsupported excavations.
			Risk of collapse of excavation.	3	3	9	
Earthworks – settlement (due to placement of fill on soft / loose ground).	Earthworks are anticipated on site due to the Made Ground present on site.	Buildings	Bearing capacity failure, settlement (total and differential). Floor slab failure.	3	4	12	Design foundations to found in underlying competent natural ground.
		Roads and pavements	Settlement (total and differential) of roads and pavements.	3	4	12	Design floor slab as suspended.
		Services	Settlement (differential), causing damage to services.	3	3	9	Anticipated settlements may have a significant impact on services. It is advisable to steepen falls in drainage to prevent back fall and use rocker boxes and flexible couplings.



Hazard	Comments	Who is at risk	Consequence	Risk before mitigation			Actions required
				P	I	R	
		Gardens	Settlement (differential), in gardens.	3	3	9	Differential settlement may occur over time leading to uneven surfaces.
		Construction staff, vehicles and plant operators	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Earthworks – poor bearing capacity of new fill.	Earthworks are anticipated on site due to the sloped nature of the site and the presence of Made Ground across much of the site.	Earthworks control, inability to place and compact fill.	Service limit state failure, excessive and intolerable total and differential settlement.	3	3	9	Carry out earthworks in accordance with an appropriate Earthworks Specification. Carry out testing of site-won soil proposed for re-use as engineered fill. Carry out appropriate testing of imported soils to be used as engineered fill. Designers to be contacted if conditions encountered are different to those identified during investigation. Regular inspections of excavations and earthworks for evidence of stability.
Earthworks – unsuitability of site won material to be reused as fill.		Project Budgets - Insufficient fill to complete earthworks.	Additional Costs, due to importation of fill or having to modify designs.	4	2	8	
Slope stability and retaining walls	Significant cut and fill is required to form the development platform across the site. This will include the construction of new retaining walls and formed slopes. A bund is proposed around the attenuation pond in the west of the site.	Construction staff, vehicles and plant operators.	Potential for future movements / collapse.	3	3	9	Design of the retaining to be undertaken in accordance with EC7. Adequate drainage to be designed behind the structure, or for water seepage through the face of the wall. Lateral earth pressure parameters to be characterised during investigation and design. Engineered fill requirements to be defined at outline design stage as part of an earthworks specification.
		Buildings	Serviceability issues.	3	4	12	
		Roads and pavements	Serviceability issues.	3	3	9	
		Services	Damage to services,	3	4	12	



Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construction process.

Impacts of the design with regard to health and Safety considerations will need to be included by the designer at design stage.



Appendix H Plausible source-pathway-receptor contaminant linkages

Summary of potential contaminant linkages

Table H.2 lists the plausible contaminant linkages which have been identified. These are considered as potentially unacceptable risks in line with guidelines published in LCRM (2025) where the risk is moderate or above, and additional risk assessment is required to resolve these linkages.

Source – Pathway – Receptor Linkages have been assessed in general accordance with guidance in CIRIA Report C552 (Rudland *et al* 2001) as modified to reflect changes made in Table A4.5 of NHBC/EA R&D66 (2008), to add a ‘no linkage’ category, to remove the ambiguous term “low/moderate risk”, and to adopt “Extremely low risk” for the lowest risk category in order to differentiate it from the other ‘very low’ categories that are associated with higher probability and/or consequence. (See Table H.1).

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to site demolition and redevelopment workers, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

Table H.1: Consequence versus probability assessment

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Low risk
	Low likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Extremely low risk
	No linkage	No risk			



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Appendix H Plausible source-pathway-receptor contaminant linkages

Table H.2: Source-pathway-receptor contaminant linkages

Source	Pathway	Receptor	Probability	Consequence	Risk Level	Comment
Made Grounded waste possibly containing elevated concentrations of petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), metals, metalloids, asbestos, and Asbestos Containing Materials (ACMs) (S01)	Ingestion, skin contact, inhalation of dust and outdoor air by people (P01)	Site users. (R01)	Low likelihood	Medium	Low risk	The site is understood to be underlain by Made Ground and contains asbestos, metals, PAHs and hydrocarbons, however the majority of exceedances are at depth and it is understood that the site is to be raised by up to 3m in some areas. Where Made Ground remains at formation level, clean cover is required in areas of soft landscaping.
		Neighbours. (R01)	Unlikely	Medium	Low risk	Contact with these materials is likely in gardens and areas of Public Open Space. The risk of significant generation of dust is likely only during site development process and can therefore be controlled.
	Leaching through unsaturated zone (P04)	Groundwater and possible abstractors. (R03)	Likely	Medium	Moderate risk	Previous soil leachate and groundwater data indicate elevated concentrations of metals and PAHs however. This has also been confirmed during the 2026 monitoring and sampling. Further risk assessment is likely to be required to confirm the risk to off-site surface water receptors.
	Surface run-off. (P06)	Aquatic ecosystems. (R04) Possible abstractors. (R03)	Likely	Medium	Moderate risk	
	Base flow from contaminated groundwater (P05)		Likely	Medium	Moderate risk	



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Appendix H Plausible source-pathway-receptor contaminant linkages

Source	Pathway	Receptor	Probability	Consequence	Risk Level	Comment
	Root uptake (P03)	Landscape and garden planting (R05)	Unlikely	Minor	Low risk	The phytotoxicity risk assessment indicates exceedances for Boron, Copper, Nickel and Zinc. Areas of the site will be raised, however other areas will remain at current levels / will be cut. Imported growing medium/clean cover will be required in areas of landscaping
Organic materials in the Made Ground materials producing ground gases (carbon dioxide and methane) and vapours (S02)	Methane ingress via permeable soils and/or construction gaps (P02)	Site users. (R01)	Low likelihood	Medium	Low risk	The Made Ground is likely to contain organic materials which may result in elevated concentrations of carbon dioxide and methane. based on the monitoring undertaken to date, the site is likely to conform to Characteristic Situation 1 where gas protection measures are not required. The gassing regime is to be confirmed following completion of the gas monitoring.
		Buildings on site (R02)	Low likelihood	Medium	Low risk	
		Neighbours. (R01)	Low likelihood	Medium	Low risk	



Appendix I Climate change considerations for CSM

Table I1 summarises the considerations that have been made in relation the possible implications of predicted climate change. These considerations have been made with reference to prevailing guidance on climate change and land contamination (SoBRA (2022), CL:AIRE)2022), Environment Agency (2010)), and climate change information published by the Met Office and the Environment Agency

Table I.1: Possible CSM considerations related to climate change

Climate change type	Potential climate change induced effect	Possible considerations on CSM
Increase in frequency and severity of extreme rainfall events	Temporary increasing in groundwater levels	It is possible that future groundwater level rise could be sufficient to impact identified contaminant linkages. The risk of groundwater flooding is increased but is unlikely to result in a groundwater flooding given the current depth to groundwater and raising of site levels.
	Increased surface run-off	. Surface water run-off will impact drainage network (in terms of volume of water) but is not expected to impact underlying ground conditions.
	Land-based erosion	Land based erosion is not expected.
	River flooding	The site is already located within a Flood Zone 1 (less than 0.1% chance of flooding in any year). An increase in frequency and severity of extreme rainfall events will only likely increase this risk further.
Increase in frequency and severity of extreme cold and hot weather events	Soil freezing	Could cause failure of surface water drainage network (requiring repair) due to freeze/thaw action but not evident that this would cause a significant change to identified contaminant linkages.
	Soil desiccation/shrinkage	There is the potential for soil desiccation/shrinkage within the Grinstead Clay.
	Land fires	Not relevant to current nature and location of site.
	Temporary drop in water (GW and/or SW) levels due to increased water abstraction demand	The site is not located in a groundwater Source Protection Zone.



Climate change type	Potential climate change induced effect	Possible considerations on CSM
	Temporary drop in water levels (GW and/or SW) due to lower rainfall.	Perched levels in the Made Ground and natural stratum may fall further in drier summer months. This could increase the thickness of LNAPL smear zone (of present) and could result in greater soil vapour flux as a result of the greater thickness of unsaturated LNAPL-contaminated soil present. This significance of this is dependent on the current level of risk identified for vapour intrusion. A subsequent rise in groundwater level and re-saturation of the LNAPL smear zone could course a short-term increase in dissolved phase PHC concentrations.
Long-term sea level rise	Coastal erosion	Not applicable
	Saline intrusion and marine inundation	RCP8.5 predicts a sea level rise of 0.7m by 2100. An increase in sea level could result in an increase in tidally influenced groundwater fluctuation and changes in groundwater flow patterns. The predicted rise in sea level could increase the potential for saline intrusion within the chalk.
Long-term increase in rainfall	Increase in groundwater levels	There are no predicted changes in water levels.
Long-term decrease in rainfall	Decrease in groundwater levels	See comment above for temporary decrease in groundwater levels above. Whilst it is expected that there will be an increase in winter rainfall it is also expected that there will be a reduction in summer rainfall such that there will be a long-term increase in the expected seasonal fluctuation in shallow groundwater depth. The seasonal movement of groundwater across the LNAPL smear zone could act to increase the rate of long-term natural source zone depletion of the LNAPL.
Long-term change in seasonal temperatures	Change in soil temperature	Worst-case (RCP8.5) prediction for average summer temperatures in 2060-2080 in this area is 6-7 degrees Celsius. Soil temperature at depth below the site (considering the surface cover of buildings and concrete hardstanding) is not expected to rise by this amount and may see a much smaller rise in average temperature as a result of seasonal variation in temperature. A small increase in average soil temperature is not expected to have a significant effect on contaminant fate and transport





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