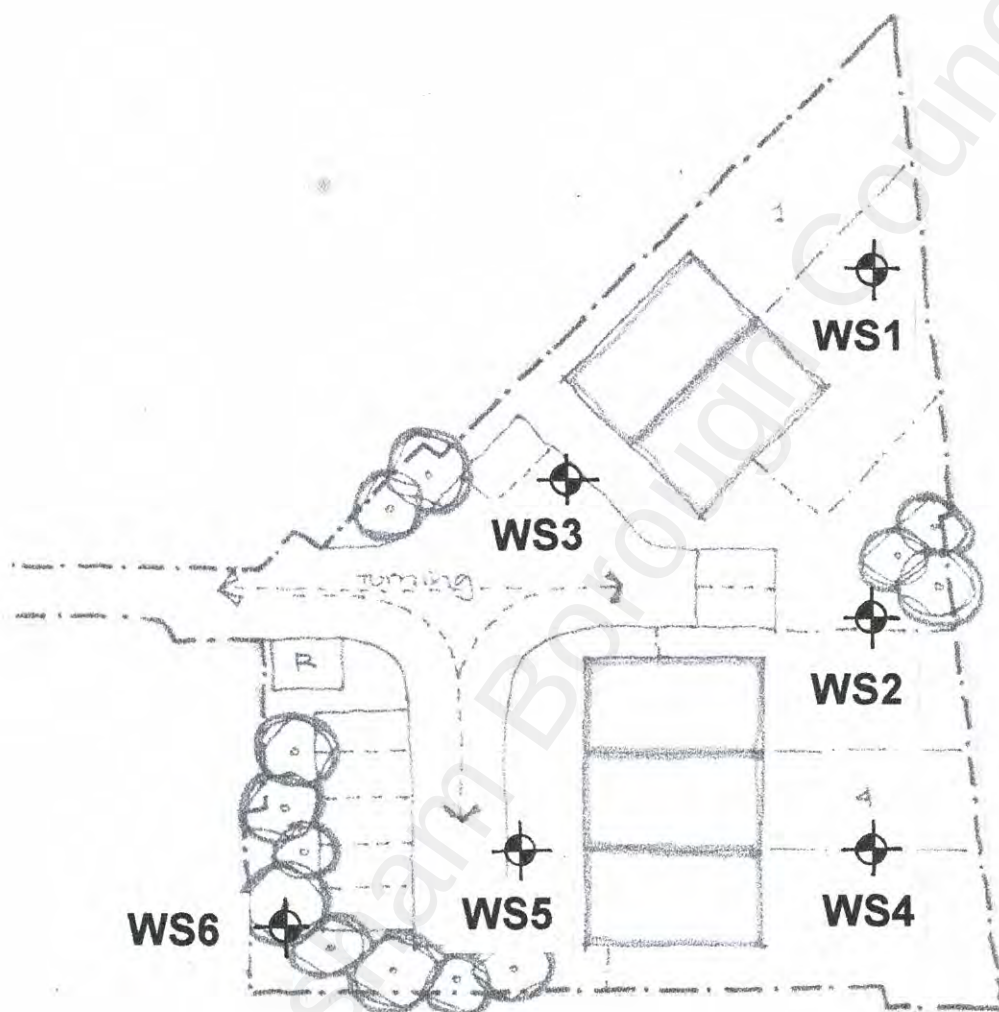


Appendix A

Subsoil Investigations



**Rear of 2-28 Campbell Road, Gravesend.
Plan showing locations of boreholes.**

R. CARR GEOTECHNICAL SERVICES

STRATA LOG

Job: **REAR OF 2-28 CAMPBELL ROAD, GRAVESEND**

No. WS1

Method of excavation: **Tracked Windowless Sampler**

Date: 16.03.20

SAMPLE	DEPTH m.	G.L.	DESCRIPTION OF SOIL
●	0.25	0.25	Dark brown sandy clay with occasional fine chalk brick and clinker gravel, medium flint gravel and rootlets (FILL)
●	0.50	0.50	
SPT ● 'N'=14	1.00	1.00	Friable brown very sandy CLAY with scarce fine gravel (HEAD DEPOSITS)
		1.20	
●	1.50	1.50	Stiff light grey sandy CLAY with very abundant fine chalk gravel and occasional fine to medium subangular flint gravel (weathered CHALK)
SPT ● 'N'=16	2.00	2.00	
		2.50	Weak, medium density yellow-stained white CHALK with scarce medium subangular flint gravel (SEAFORD CHALK) Grade IV C4
●	2.50	2.50	
SPT ● 'N'=27	3.00	3.00	
		End	Borehole dry on completion Sides of borehole stable ● '= Disturbed sample Standpipe installed to 3m
		3.50	
		4.00	
		4.50	

R. CARR GEOTECHNICAL SERVICES

STRATA LOG

Job: **REAR OF 2-28 CAMPBELL ROAD, GRAVESEND**

No. WS2

Method of excavation: **Tracked Windowless Sampler**

Date: 16.03.20

SAMPLE	DEPTH m.	G.L.	DESCRIPTION OF SOIL
•	0.25	0.20	Compact brown sandy clay with abundant fine brick and clinker gravel and coarse concrete gravel (FILL)
•	0.50	0.50	Firm brown sandy CLAY with occasional medium to coarse subangular flint gravel (HEAD DEPOSITS)
SPT • 'N'=15	1.00	1.00	
		1.20	
•	1.50	1.50	Stiff light grey sandy CLAY with very abundant fine to coarse subrounded chalk gravel and scarce subangular flint gravel (weathered CHALK)
SPT • 'N'=24	2.00	2.00	
		2.20	
•	2.50	2.50	Weak, medium density yellow-stained white CHALK (SEAFORD CHALK) Grade IV C4
SPT • 'N'=19	3.00	3.00	Borehole dry on completion Sides of borehole stable • ' = Disturbed sample
		End	
		3.50	
		4.00	
		4.50	

R. CARR GEOTECHNICAL SERVICES

STRATA LOG

Job: **REAR OF 2-28 CAMPBELL ROAD, GRAVESEND**

No. WS3

Method of excavation: **Tracked Windowless Sampler**

Date: 16.03.20

SAMPLE	DEPTH m.	G.L.	DESCRIPTION OF SOIL
		0.10	Compact brown clay and coarse concrete gravel
•	0.25	0.25	Soft grey-brown sandy clay with occasional fine flint and brick gravel (FILL)
•	0.50	0.50	Soft moist brown sandy CLAY with scattered fine chalk gravel and occasional fine rootlets (HEAD DEPOSITS)
SPT • 'N'=1	1.00	1.00	
•	1.50	1.50	
SPT • 'N'=17	2.00	2.00	
•	2.50	2.50	Weak, medium density yellow-stained white CHALK (SEAFORD CHALK) Grade IV C4
SPT • 'N'=17	3.00	3.00	
		End	
		3.50	
		4.00	Borehole dry on completion Sides of borehole stable • '= Disturbed sample
		4.50	

R. CARR GEOTECHNICAL SERVICES

STRATA LOG

Job: **REAR OF 2-28 CAMPBELL ROAD, GRAVESEND**

No. WS4

Method of excavation: **Tracked Windowless Sampler**

Date: 16.03.20

SAMPLE	DEPTH m.	G.L.	DESCRIPTION OF SOIL
		0.10	Compact crushed chalk and flint cobbles (FILL)
•	0.25	0.30	Grey-brown sandy clay with occasional fine brick and flint gravel (FILL)
•	0.50	0.50	Friable brown very sandy CLAY with scattered fine chalk gravel and scarce medium subangular flint gravel (HEAD DEPOSITS)
SPT • 'N'=37	1.00	0.90 1.00	Stiff brown very sandy CLAY with very abundant fine to coarse subrounded chalk gravel and scarce coarse subangular flint gravel
•	1.50	1.50	(weathered CHALK)
SPT • 'N'=18	2.00	2.00	Weak, medium density yellow-stained white CHALK
•	2.50	2.50	(SEAFORD CHALK) Grade IV C4
SPT • 'N'=24	3.00	3.00	
		End	Borehole dry on completion Sides of borehole stable
		3.50	• '= Disturbed sample
		4.00	
		4.50	

R. CARR GEOTECHNICAL SERVICES

STRATA LOG

Job: **REAR OF 2-28 CAMPBELL ROAD, GRAVESEND**

No. WS5

Method of excavation: **Tracked Windowless Sampler**

Date: 16.03.20

SAMPLE	DEPTH m.	G.L.	DESCRIPTION OF SOIL
•	0.25	0.15	Loose asphalt on compact crushed chalk
•	0.50	0.40 0.50	Grey-brown slightly sandy clay with occasional fine brick gravel and medium flint gravel (FILL)
SPT • 'N'=24	1.00	1.00	Medium dense, brown clayey SAND with abundant fine to coarse subrounded chalk gravel and scarce medium subangular flint gravel (HEAD DEPOSITS)
•	1.50	1.50	Weak, medium density cream CHALK (SEAFORD CHALK)
SPT • 'N'=26	2.00	2.00	Becoming white and yellow-stained in colour with depth
•	2.50	2.50	Grade IV C4
SPT • 'N'=18	3.00	3.00	
		End	Borehole dry on completion Sides of borehole stable
		3.50	• '= Disturbed sample
		4.00	
		4.50	

R. CARR GEOTECHNICAL SERVICES

STRATA LOG

Job: **REAR OF 2-28 CAMPBELL ROAD, GRAVESEND**

No. WS6

Method of excavation: **Tracked Windowless Sampler**

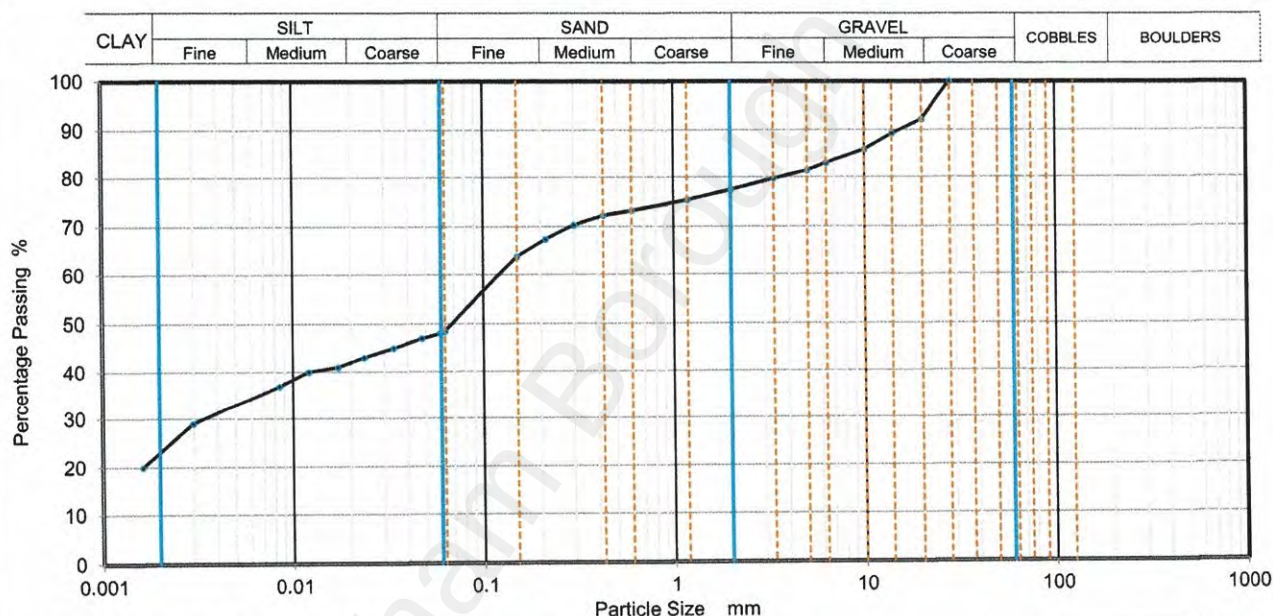
Date: 16.03.20

SAMPLE	DEPTH m.	G.L.	DESCRIPTION OF SOIL
•	0.25	0.10	Topsoil
•	0.50	0.40 0.50	Grey-brown slightly sandy clay with occasional fine brick gravel (FILL)
•	1.00	1.00	Friable brown sandy CLAY with occasional fine chalk and flint gravel (HEAD DEPOSITS)
		End	Borehole dry on completion Sides of borehole stable
		1.50	• '= Disturbed sample
		2.00	
		2.50	
		3.00	
		3.50	
		4.00	
		4.50	

Appendix B
Laboratory Test Results

Company Registration 3028997

PARTICLE SIZE DISTRIBUTION				Job Ref	1267/16
				Borehole/Pit No.	WS2
Site Name	Rear of 2-28 Campbell Road, Gravesend			Sample No.	3
Soil Description	Pale brown CLAY with chalk pieces			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	D
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	1.1652E+12



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0594	48
		0.0475	47
		0.0335	45
		0.0235	43
		0.0171	41
		0.0121	40
28	100	0.0085	37
20	92	0.0030	29
14	89	0.0016	20
10	86		
6.3	83		
5	81		
3.35	80		
2	77		
1.18	75		
0.6	73	Particle density (assumed) 2.70 Mg/m ³	
0.425	72		
0.3	70		
0.212	67		
0.15	64		
0.063	48		

Dry Mass of sample, g

553

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	22.6
Sand	29.1
Silt	25.6
Clay	22.7

Grading Analysis		
D ₁₀₀	mm	28
D ₆₀	mm	0.121
D ₃₀	mm	0.00356
D ₁₀	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	Fig 1 Sheet
LI/FN/KB	LI/FN/KB	kb	20-03-20 11:48	

Company Registration 3028997



Ron Carr
R Carr Geotechnical Services
9 The Mallows
Maidstone
Kent
ME14 2PX

DETS Ltd
Unit 1
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Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 20-03409

Site Reference: Rear of 2 - 28 Campbell Road, Gravesend

Project / Job Ref: None Supplied

Order No: None Supplied

Sample Receipt Date: 17/03/2020

Sample Scheduled Date: 17/03/2020

Report Issue Number: 1

Reporting Date: 24/03/2020

Authorised by:

Kevin Old
Technical & Operations Director

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Soil Analysis Certificate

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS2	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	0.25	0.25	0.25	0.25	0.25
Reporting Date: 24/03/2020	DETS Sample No	468806	468807	468808	468809	468810

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	8.4	8.6	8.4	8.1	8.2
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	NONE	704	647	495	706	704
Total Sulphate as SO ₄	%	< 0.02	NONE	0.07	0.06	0.05	0.07	0.07
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Organic Matter	%	< 0.1	MCERTS	0.2	1.6	1.1	1.2	1.5
Total Organic Carbon (TOC)	%	< 0.1	MCERTS	< 0.1	1	0.7	0.7	0.9
Arsenic (As)	mg/kg	< 2	MCERTS	10	11	11	11	13
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3	0.4	0.4	0.4	0.5
Chromium (Cr)	mg/kg	< 2	MCERTS	23	21	22	20	21
Copper (Cu)	mg/kg	< 4	MCERTS	28	22	29	20	31
Lead (Pb)	mg/kg	< 3	MCERTS	213	114	296	127	196
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	1.1
Nickel (Ni)	mg/kg	< 3	MCERTS	26	29	30	33	39
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	78	75	112	67	108
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
EPH (C10 - C40)	mg/kg	< 6	MCERTS	24	< 6	< 6	< 6	19

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
 Subcontracted analysis (S)



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Lenham Heath
Maidstone
Kent ME17 2JN
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Soil Analysis Certificate						
DETS Report No: 20-03409	Date Sampled	None Supplied				
R Carr Geotechnical Services	Time Sampled	None Supplied				
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS6				
Project / Job Ref: None Supplied	Additional Refs	None Supplied				
Order No: None Supplied	Depth (m)	0.25				
Reporting Date: 24/03/2020	DETS Sample No	468811				

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected			
pH	pH Units	N/a	MCERTS	8.1			
Total Cyanide	mg/kg	< 2	NONE	< 2			
Total Sulphate as SO ₄	mg/kg	< 200	NONE	736			
Total Sulphate as SO ₄	%	< 0.02	NONE	0.07			
Sulphide	mg/kg	< 5	NONE	< 5			
Organic Matter	%	< 0.1	MCERTS	1.9			
Total Organic Carbon (TOC)	%	< 0.1	MCERTS	1.1			
Arsenic (As)	mg/kg	< 2	MCERTS	15			
W/S Boron	mg/kg	< 1	NONE	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.5			
Chromium (Cr)	mg/kg	< 2	MCERTS	21			
Copper (Cu)	mg/kg	< 4	MCERTS	34			
Lead (Pb)	mg/kg	< 3	MCERTS	146			
Mercury (Hg)	mg/kg	< 1	NONE	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	40			
Selenium (Se)	mg/kg	< 3	NONE	< 3			
Zinc (Zn)	mg/kg	< 3	MCERTS	117			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2			
EPH (C10 - C40)	mg/kg	< 6	MCERTS	22			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS2	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	0.25	0.25	0.25	0.25	0.25
Reporting Date: 24/03/2020	DETS Sample No	468806	468807	468808	468809	468810

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.52	< 0.1	< 0.1	< 0.1	0.81
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.17
Fluoranthene	mg/kg	< 0.1	MCERTS	1.21	0.20	0.13	< 0.1	1.85
Pyrene	mg/kg	< 0.1	MCERTS	1.09	0.18	0.12	< 0.1	1.60
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.50	< 0.1	< 0.1	< 0.1	0.55
Chrysene	mg/kg	< 0.1	MCERTS	0.65	< 0.1	< 0.1	< 0.1	0.71
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.92	< 0.1	0.13	< 0.1	0.69
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.32	< 0.1	< 0.1	< 0.1	0.24
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.64	< 0.1	< 0.1	< 0.1	0.48
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.40	< 0.1	< 0.1	< 0.1	0.39
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.36	< 0.1	< 0.1	< 0.1	0.31
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	6.6	< 1.6	< 1.6	< 1.6	7.8

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Speciated PAHs

DETS Report No: 20-03409	Date Sampled	None Supplied				
R Carr Geotechnical Services	Time Sampled	None Supplied				
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS6				
Project / Job Ref: None Supplied	Additional Refs	None Supplied				
Order No: None Supplied	Depth (m)	0.25				
Reporting Date: 24/03/2020	DETS Sample No	468811				

Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg	< 0.1	MCERTS	0.19		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.65		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	1.50		
Pyrene	mg/kg	< 0.1	MCERTS	1.36		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.58		
Chrysene	mg/kg	< 0.1	MCERTS	0.82		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.95		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.37		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.70		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.63		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.52		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	8.3		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS2	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	0.25	0.25	0.25	0.25	0.25
Reporting Date: 24/03/2020	DETS Sample No	468806	468807	468808	468809	468810

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 20-03409	Date Sampled	None Supplied				
R Carr Geotechnical Services	Time Sampled	None Supplied				
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS6				
Project / Job Ref: None Supplied	Additional Refs	None Supplied				
Order No: None Supplied	Depth (m)	0.25				
Reporting Date: 24/03/2020	DETS Sample No	468811				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01			
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05			
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2			
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2			
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3			
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3			
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10			
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21			
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01			
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05			
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2			
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2			
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2			
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3			
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10			
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21			
Total >C5 - C35	mg/kg	< 42	NONE	< 42			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - BTEX / MTBE

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS2	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	0.25	0.25	0.25	0.25	0.25
Reporting Date: 24/03/2020	DETS Sample No	468806	468807	468808	468809	468810

Determinand	Unit	RL	Accreditation						
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - BTEX / MTBE

DETS Report No: 20-03409	Date Sampled	None Supplied				
R Carr Geotechnical Services	Time Sampled	None Supplied				
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS6				
Project / Job Ref: None Supplied	Additional Refs	None Supplied				
Order No: None Supplied	Depth (m)	0.25				
Reporting Date: 24/03/2020	DETS Sample No	468811				

Determinand	Unit	RL	Accreditation			
Benzene	ug/kg	< 2	MCERTS	< 2		
Toluene	ug/kg	< 5	MCERTS	< 5		
Ethylbenzene	ug/kg	< 2	MCERTS	< 2		
p & m-xylene	ug/kg	< 2	MCERTS	< 2		
o-xylene	ug/kg	< 2	MCERTS	< 2		
MTBE	ug/kg	< 5	MCERTS	< 5		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS2	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	0.25	0.25	0.25	0.25	0.25
Reporting Date: 24/03/2020	DETS Sample No	468806	468807	468808	468809	468810

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Chloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
TAME	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Styrene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 20-03409	Date Sampled	None Supplied			
R Carr Geotechnical Services	Time Sampled	None Supplied			
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS6			
Project / Job Ref: None Supplied	Additional Refs	None Supplied			
Order No: None Supplied	Depth (m)	0.25			
Reporting Date: 24/03/2020	DETS Sample No	468811			

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5			
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5			
Chloromethane	ug/kg	< 10	MCERTS	< 10			
Chloroethane	ug/kg	< 5	MCERTS	< 5			
Bromomethane	ug/kg	< 10	MCERTS	< 10			
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5			
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5			
MTBE	ug/kg	< 5	MCERTS	< 5			
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5			
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5			
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5			
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5			
Chloroform	ug/kg	< 5	MCERTS	< 5			
Bromochloromethane	ug/kg	< 5	MCERTS	< 5			
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5			
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10			
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5			
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5			
Benzene	ug/kg	< 2	MCERTS	< 2			
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5			
Trichloroethene	ug/kg	< 5	MCERTS	< 5			
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5			
Dibromomethane	ug/kg	< 5	MCERTS	< 5			
TAME	ug/kg	< 5	MCERTS	< 5			
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5			
Toluene	ug/kg	< 5	MCERTS	< 5			
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5			
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10			
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5			
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5			
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5			
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5			
Chlorobenzene	ug/kg	< 5	MCERTS	< 5			
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5			
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2			
m,p-Xylene	ug/kg	< 2	MCERTS	< 2			
o-Xylene	ug/kg	< 2	MCERTS	< 2			
Styrene	ug/kg	< 5	MCERTS	< 5			
Bromoform	ug/kg	< 10	MCERTS	< 10			
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5			
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5			
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5			
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5			
Bromobenzene	ug/kg	< 5	MCERTS	< 5			
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5			
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5			
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5			
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5			
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5			
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5			
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5			
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5			
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5			
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5			
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5			
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10			
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS2	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	0.25	0.25	0.25	0.25	0.25
Reporting Date: 24/03/2020	DETS Sample No	468806	468807	468808	468809	468810

Determinand	Unit	RL	Accreditation					
Phenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	mg/kg	< 0.15	ISO17025	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Isophorone	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	mg/kg	< 0.15	MCERTS	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
2,4,6-Trichlorophenol	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	< 0.15	MCERTS	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
2-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	mg/kg	< 0.15	NONE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
4-Nitrophenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	mg/kg	< 0.15	MCERTS	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzyl butyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 20-03409	Date Sampled	None Supplied			
R Carr Geotechnical Services	Time Sampled	None Supplied			
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS6			
Project / Job Ref: None Supplied	Additional Refs	None Supplied			
Order No: None Supplied	Depth (m)	0.25			
Reporting Date: 24/03/2020	DETS Sample No	468811			

Determinand	Unit	RL	Accreditation				
Phenol	mg/kg	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1			
2-Nitrophenol	mg/kg	< 0.1	NONE	< 0.1			
Nitrobenzene	mg/kg	< 0.1	MCERTS	< 0.1			
0-Cresol	mg/kg	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	mg/kg	< 0.1	MCERTS	< 0.1			
bis(2-chloroethyl)ether	mg/kg	< 0.1	MCERTS	< 0.1			
2,4-Dichlorophenol	mg/kg	< 0.1	MCERTS	< 0.1			
2-Chlorophenol	mg/kg	< 0.1	ISO17025	< 0.1			
1,3-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1			
1,4-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1			
1,2-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1			
2,4-Dimethylphenol	mg/kg	< 0.15	ISO17025	< 0.15			
Isophorone	mg/kg	< 0.1	NONE	< 0.1			
Hexachloroethane	mg/kg	< 0.1	MCERTS	< 0.1			
p-Cresol	mg/kg	< 0.15	MCERTS	< 0.15			
2,4,6-Trichlorophenol	mg/kg	< 0.1	MCERTS	< 0.1			
2,4,5-Trichlorophenol	mg/kg	< 0.15	MCERTS	< 0.15			
2-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	mg/kg	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	mg/kg	< 0.1	MCERTS	< 0.1			
Hexachlorocyclopentadiene	mg/kg	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	mg/kg	< 0.1	ISO17025	< 0.1			
2,6-Dinitrotoluene	mg/kg	< 0.1	MCERTS	< 0.1			
Dimethyl phthalate	mg/kg	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	mg/kg	< 0.1	MCERTS	< 0.1			
4-Chloroaniline	mg/kg	< 0.15	NONE	< 0.15			
4-Nitrophenol	mg/kg	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	mg/kg	< 0.1	MCERTS	< 0.1			
3-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1			
4-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	mg/kg	< 0.1	MCERTS	< 0.1			
Hexachlorobenzene	mg/kg	< 0.1	MCERTS	< 0.1			
2,4-Dinitrotoluene	mg/kg	< 0.1	MCERTS	< 0.1			
Diethyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1			
Dibenzofuran	mg/kg	< 0.1	MCERTS	< 0.1			
Azobenzene	mg/kg	< 0.1	NONE	< 0.1			
Dibutyl phthalate	mg/kg	< 0.1	ISO17025	< 0.1			
Carbazole	mg/kg	< 0.1	ISO17025	< 0.1			
bis(2-ethylhexyl)phthalate	mg/kg	< 0.15	MCERTS	< 0.15			
Benzyl butyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1			
Di-n-octyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Leachate Analysis Certificate						
DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS3	WS4	WS5	
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: None Supplied	Depth (m)	1.00	1.00	1.00	1.00	
Reporting Date: 24/03/2020	DETS Sample No	468812	468813	468814	468815	

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.9	8.1	8.4	8.3
Total Cyanide	ug/l	< 5	NONE	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	< 1	< 1	2	< 1
Sulphide	mg/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	2.9	2.3	1.4	1
Arsenic	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Boron	ug/l	< 5	ISO17025	27	6	25	6
Cadmium	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Copper	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Lead	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Mercury	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Selenium	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Zinc	ug/l	< 2	ISO17025	5	5	< 2	< 2
Total Phenols (monohydric)	ug/l	< 10	NONE	< 10	< 10	< 10	< 10
EPH (C10 - C40)	ug/l	< 10	NONE	< 10	< 10	< 10	< 10

Subcontracted analysis ⁽⁵⁾



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Leachate Analysis Certificate - Speciated PAH

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.00	1.00	1.00	1.00
Reporting Date: 24/03/2020	DETS Sample No	468812	468813	468814	468815

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.05	0.88	0.03	0.06
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	0.03	< 0.01	0.02	< 0.01
Fluorene	ug/l	< 0.01	NONE	0.04	0.02	0.03	0.03
Phenanthrene	ug/l	< 0.01	NONE	0.16	0.05	0.14	0.14
Anthracene	ug/l	< 0.01	NONE	0.04	< 0.01	0.02	0.03
Fluoranthene	ug/l	< 0.01	NONE	0.05	< 0.01	0.04	0.04
Pyrene	ug/l	< 0.01	NONE	0.03	< 0.01	0.02	0.03
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	< 0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.01	NONE	0.40	0.95	0.30	0.33



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Leachate Analysis Certificate - TPH CWG Banded

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.00	1.00	1.00	1.00
Reporting Date: 24/03/2020	DETS Sample No	468812	468813	468814	468815

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140



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Leachate Analysis Certificate - BTEX / MTBE

DETS Report No: 20-03409	Date Sampled	None Supplied	None Supplied	None Supplied	None Supplied
R Carr Geotechnical Services	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	TP / BH No	WS1	WS3	WS4	WS5
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.00	1.00	1.00	1.00
Reporting Date: 24/03/2020	DETS Sample No	468812	468813	468814	468815

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 20-03409	
R Carr Geotechnical Services	
Site Reference: Rear of 2 - 28 Campbell Road, Gravesend	
Project / Job Ref: None Supplied	
Order No: None Supplied	
Reporting Date: 24/03/2020	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
^ 468806	WS1	None Supplied	0.25	8.3	Brown sandy clay with stones
^ 468807	WS2	None Supplied	0.25	15.5	Brown sandy clay
^ 468808	WS3	None Supplied	0.25	16.1	Brown sandy clay
^ 468809	WS4	None Supplied	0.25	13.5	Brown sandy clay
^ 468810	WS5	None Supplied	0.25	16.9	Brown sandy clay
^ 468811	WS6	None Supplied	0.25	15.5	Brown loamy sand

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/s}

Unsuitable Sample ^{u/s}

^ no sampling date provided; unable to confirm if samples are within acceptable holding times



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 20-03409

R Carr Geotechnical Services

Site Reference: Rear of 2 - 28 Campbell Road, Gravesend

Project / Job Ref: None Supplied

Order No: None Supplied

Reporting Date: 24/03/2020

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 20-03409

R Carr Geotechnical Services

Site Reference: Rear of 2 - 28 Campbell Road, Gravesend

Project / Job Ref: None Supplied

Order No: None Supplied

Reporting Date: 24/03/2020

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered