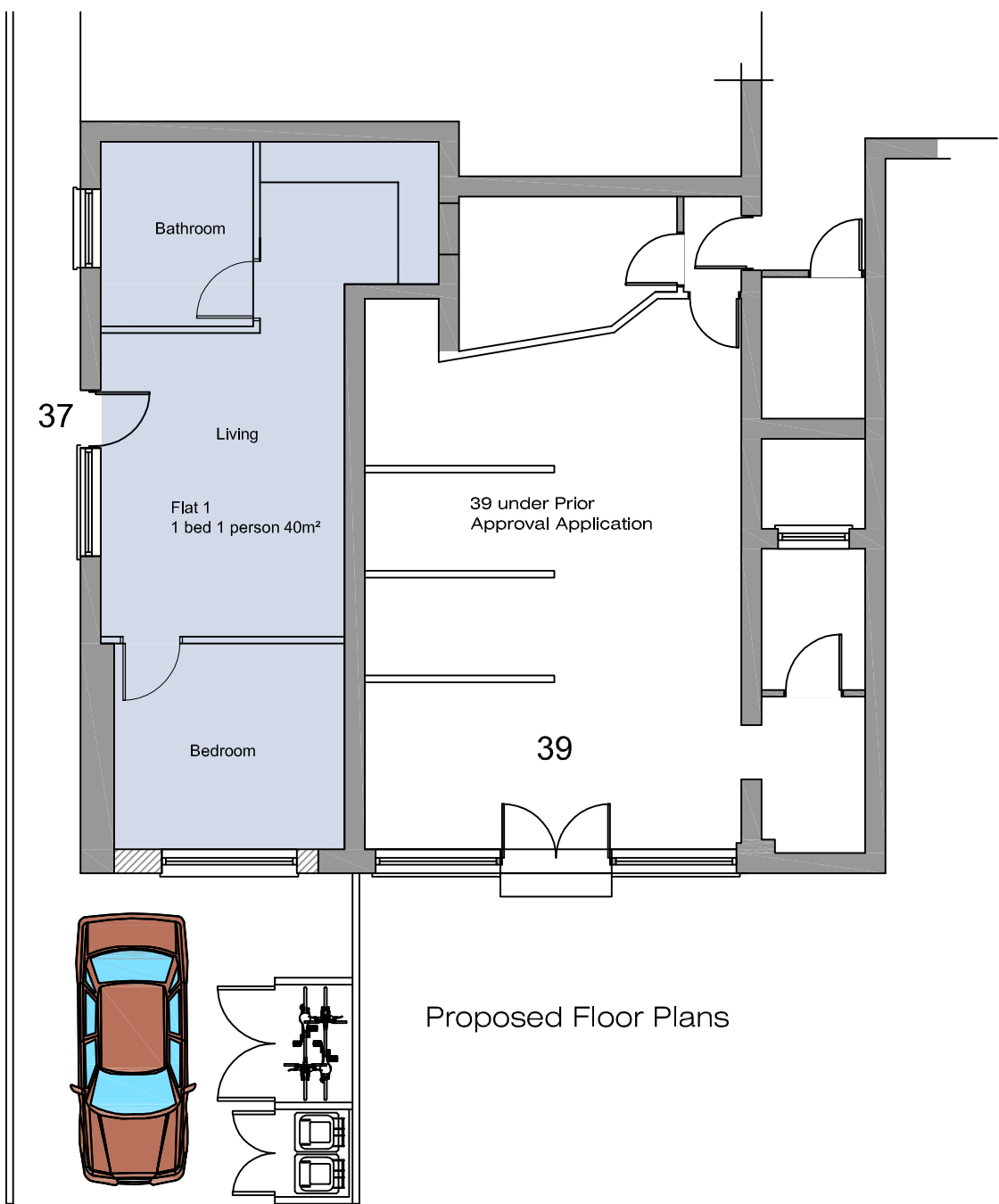
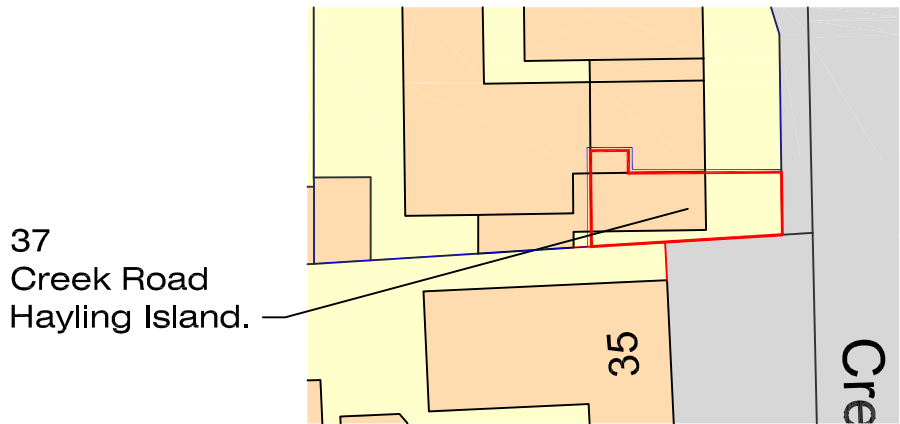


APPENDIX A: Proposed Redevelopment Plans



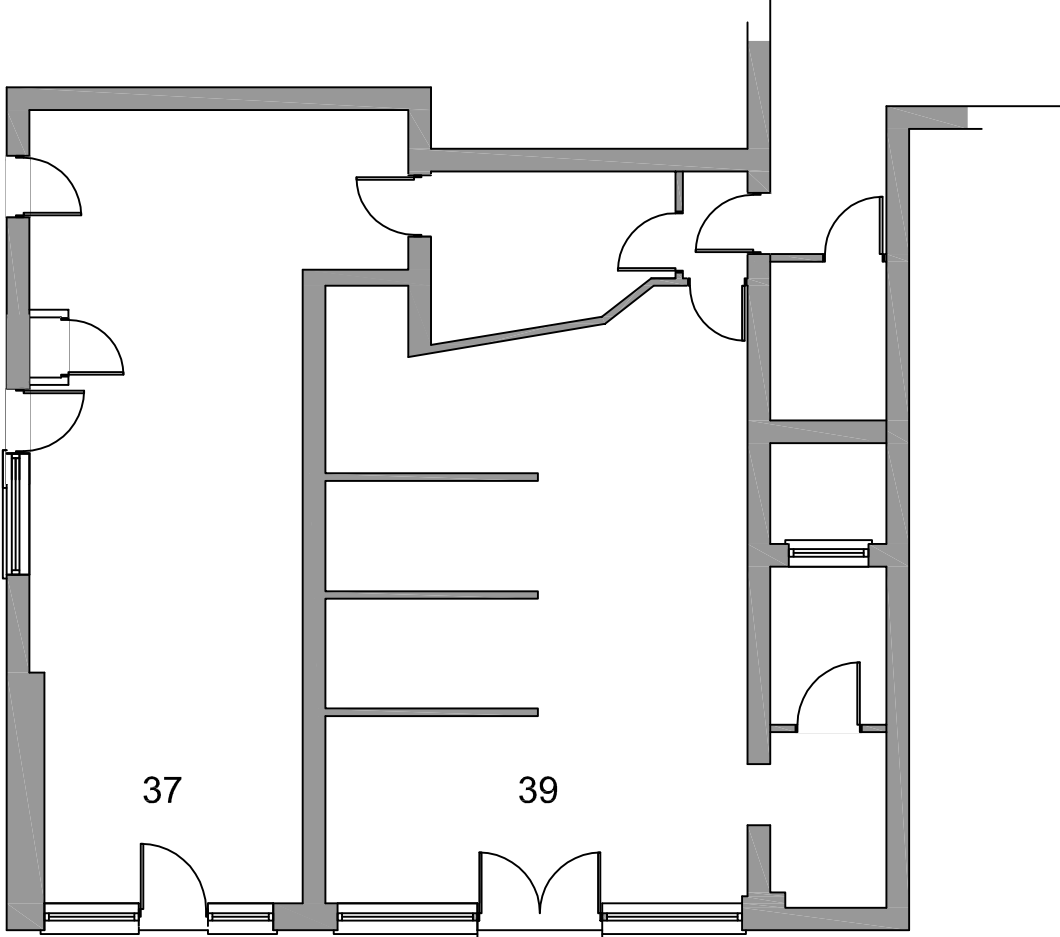


Proposed Floor Plans



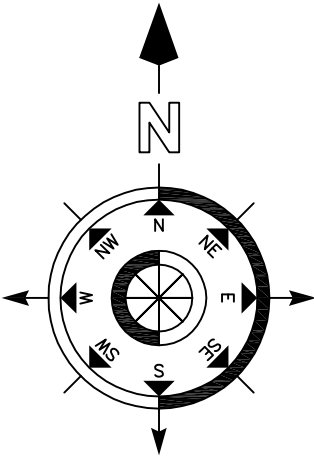
37
Creek Road
Hayling Island.

Scale in Metres
0 5 10 15 20 25 for 1:500



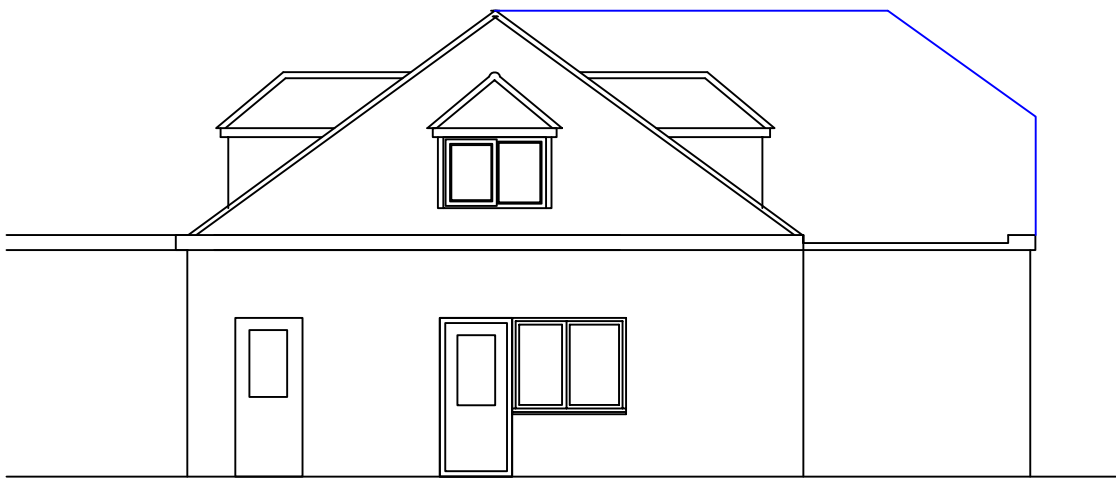
Existing Floor Plans

Scale in Metres
0 10 20 30 40 50 60 for 1:1250

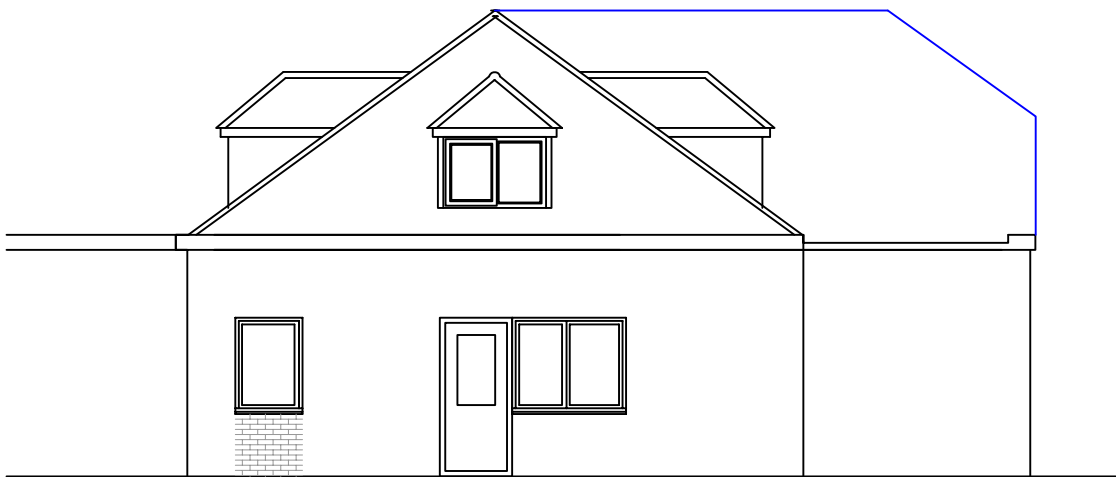


Proposed Front Elevation

Scale in Metres
0 1 2 3 4 5 for 1:100



Existing South Elevation

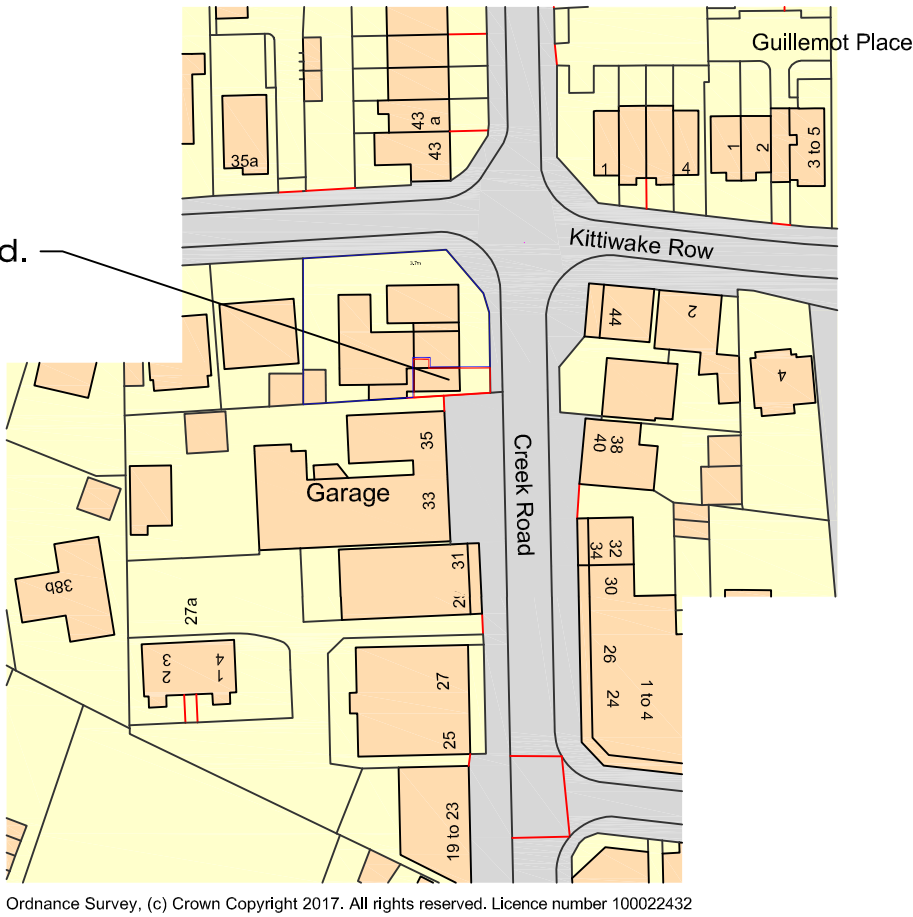


Proposed South Elevation



Existing Front Elevation

37
Creek Road
Hayling Island.

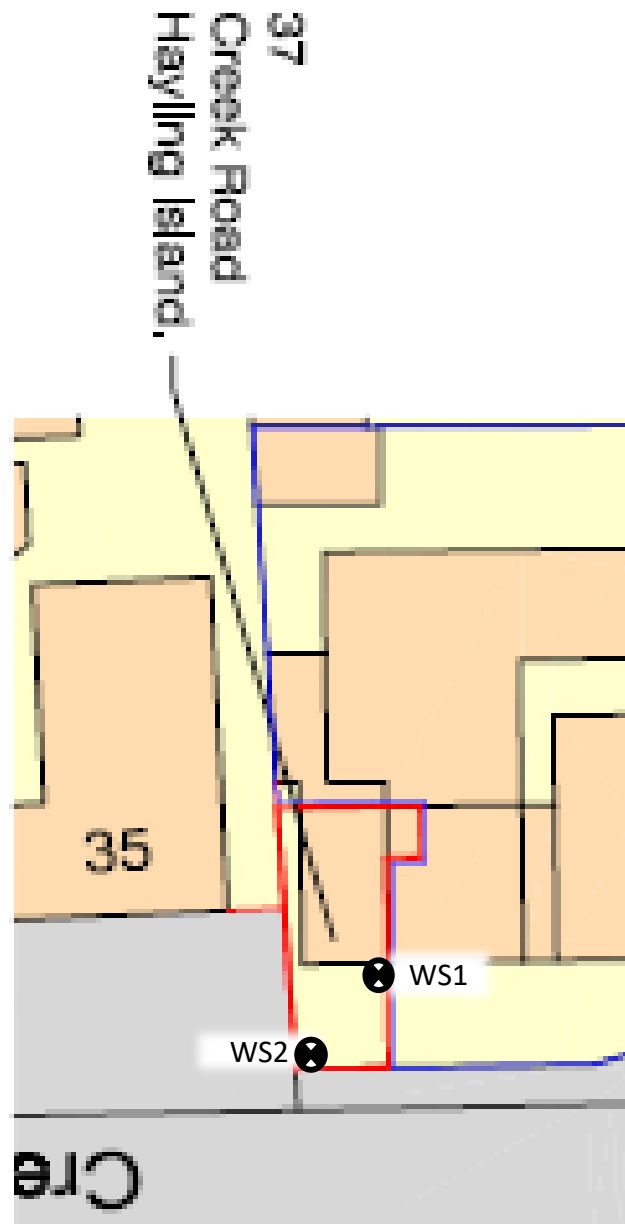


Ordnance Survey, (c) Crown Copyright 2017. All rights reserved. Licence number 100022432

REVISION:		Drawing Title : Proposed Conversion	Project : 37 Creek Road Hayling Island.	Drawn By CRF		Date 10/02/19	SHEET SIZE A2	Approved By		Date	Chris Flint Associates Ltd CHARTERED SURVEYORS - PROJECT MANAGERS DEVELOPMENT CONSULTANTS 2 Emerald Close Waterlooville Hants PO7 8NZ tel: 023 92 432484 fax: 023 92 358554 Email: chrisflintassociates@gmail.com
25-02-19	RED line amendments			CFA		Drawing No. FULL BS	Revision: 02	Scale: 1/100			
27-03-19	Amended south elevations			PLANNING							

APPENDIX B: Site Investigation Plan





Title: **Investigation Location Plan**



Site Name:
37 Creek Road, Hayling Island

Job No:
YE7882

APPENDIX C: Borehole Logs



Borehole Log

Borehole No.

WS01

Sheet 1 of 1

Project Name: Creek Road

Project No.
YE7882

Co-ords:

Hole Type
WLS

Location: Hayling Island , PO11 9QZ

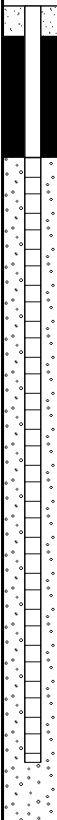
Level:

Scale
1:50

Client: Chris Flint Associates

Dates: 05/03/2020

Logged By
WSM

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 1.00	C		0.30			MADEGROUND: Dark grey clayey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to sub-rounded, fine to coarse of flint, brick and mixed lithology.	
		1.00 - 2.00	C	N=8 (1,2/2,2,2,2)	0.90			MADEGROUND: Dark grey sandy, gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-rounded of fine to medium, chalk, flint, brick and mixed lithology.	1
		1.00			1.30			Soft light brown sandy, gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-angular of fine to coarse, chalk, flint and mixed lithology.	
		2.00 - 3.00	C	N=11 (3,3/2,3,3,3)				Soft becoming firm light brown mottled grey slightly sandy, gravelly CLAY. Sand is fine to coarse. Gravel is angular to sub-angular, fine to medium of chalk, flint and mixed lithology.	2
		2.00							
		3.00 - 4.00	C	N=14 (3,3/3,4,3,4)					3
		3.00							
		4.00 - 5.00	C	N=17 (2,3/4,4,4,5)					4
		4.00							
		5.00		N=21 (4,3/4,5,6,6)					5
					5.45				
End of Borehole at 5.45m									6
									7
									8
									9
									10

Remarks

Borehole Log

Borehole No.

WS02

Sheet 1 of 1

Project Name: Creek Road

Project No.
YE7882

Co-ords:

Hole Type
WLS

Location: Hayling Island , PO11 9QZ

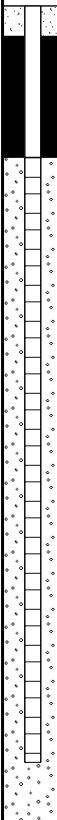
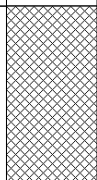
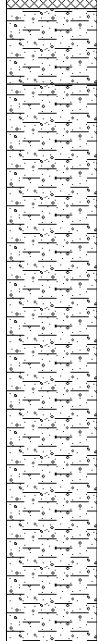
Level:

Scale
1:50

Client: Chris Flint Associates

Dates: 05/03/2020

Logged By
WSM

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 1.00	C					MADEGROUND: Orangish brown clayey sandy GRAVEL. Sand is fine to coarse, gravel is angular to subrounded of fine to coarse flint, brick, concrete and mixed lithology.	
		1.00 - 2.00 1.00	C	N=14 (1,1/2,3,4,5)	1.20				1
		2.00 - 3.00 2.00	C	N=10 (2,2/2,2,3,3)	1.70			Soft light brown sandy gravelly CLAY. Sand is fine to coarse, sand occurs in pockets Gravel is Angular to sub-angular of fine to coarse chalk flint and mixed lithology.	
		3.00 - 4.00 3.00	C	N=14 (2,2/3,3,4,4)				Soft to firm light brown mottled grey sandy gravelly CLAY. Sand is fine to coarse, sand occurs in pockets. gravel is angular to sub-angular of fine to medium chalk flint and mixed lithology.	2
		4.00 - 5.00 4.00	C	N=17 (2,3/3,4,5,5)					3
		5.00		N=24 (3,4/5,7,6,6)	5.45			End of Borehole at 5.45m	4
									5
									6
									7
									8
									9
									10

Remarks

APPENDIX D: Soil Contamination Laboratory Results





ANALYTICAL TEST REPORT

Contract no: 85107
Contract name: Creek Road
Client reference: YE7882
Clients name: YourEnvironment
Clients address: Unit 2 Woodhorn Business Centre
Chichester
West Sussex
PO20 2BX

Samples received: 10 March 2020

Analysis started: 11 March 2020

Analysis completed: 18 March 2020

Report issued: 18 March 2020

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.
BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

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

Approved by:

K Campbell

Karan Campbell
Director

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

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

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
85107-1	WS01	0.15	Sandy Clay with Gravel	-	-	15.4
85107-2	WS01	1.00	Sandy Clay with Gravel	-	-	18.0
85107-3	WS01	2.00	Sandy Clay with Gravel	-	-	15.6
85107-4	WS01	4.00	Sandy Clay with Gravel	-	-	20.9
85107-5	WS02	0.30	Clayey Sand with Gravel	-	-	7.8
85107-6	WS02	0.70	Clayey Sand with Gravel	-	-	12.7
85107-7	WS02	1.20	Sandy Clay with Gravel	-	-	15.5
85107-8	WS02	3.00	Sandy Clay with Gravel	-	-	18.1

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SOILS

Lab number Sample id Depth (m) Date sampled			85107-1 WS01 0.15 09/03/2020	85107-2 WS01 1.00 09/03/2020	85107-3 WS01 2.00 09/03/2020	85107-4 WS01 4.00 09/03/2020	85107-5 WS02 0.30 09/03/2020	85107-6 WS02 0.70 09/03/2020
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	7.0	10	4.9	6.1	5.3	5.7
Cadmium (total)	CE127 ^M	mg/kg Cd	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium (total)	CE127 ^M	mg/kg Cr	76	66	54	57	86	121
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	11	10	7.3	8.2	5.2	13
Lead (total)	CE127 ^M	mg/kg Pb	21	13	9.6	7.9	14	16
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	10	14	24	24	9.2	8.9
Selenium (total)	CE127 ^M	mg/kg Se	1.2	1.9	2.2	1.6	0.7	0.6
Zinc (total)	CE127 ^M	mg/kg Zn	63	39	35	32	46	33
pH	CE004 ^M	units	7.5	7.1	8.3	7.1	9.0	10.0
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	34	<10	<10	51	88	12
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 ^M	% w/w C	0.7	0.5	0.2	<0.1	0.1	0.3
Estimate of OMC (calculated from TOC)	CE072 ^M	% w/w	1.3	0.8	0.3	<0.1	0.2	0.6
PAH								
Naphthalene	CE087 ^M	mg/kg	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.31	<0.02	<0.02	<0.02	<0.02	0.08
Anthracene	CE087 ^U	mg/kg	0.08	<0.02	<0.02	<0.02	<0.02	0.02
Fluoranthene	CE087 ^M	mg/kg	0.99	0.02	<0.02	<0.02	0.07	0.37
Pyrene	CE087 ^M	mg/kg	0.84	<0.02	<0.02	<0.02	0.06	0.32
Benzo(a)anthracene	CE087 ^U	mg/kg	0.54	0.04	0.02	0.02	0.07	0.26
Chrysene	CE087 ^M	mg/kg	0.67	<0.03	<0.03	<0.03	0.08	0.30
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.79	<0.02	<0.02	<0.02	0.12	0.40
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.26	<0.03	<0.03	<0.03	0.05	0.12
Benzo(a)pyrene	CE087 ^U	mg/kg	0.67	<0.02	<0.02	<0.02	0.08	0.26
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.53	<0.02	<0.02	<0.02	0.09	0.31
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.10	<0.02	<0.02	<0.02	0.02	0.04
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.43	<0.02	<0.02	<0.02	0.08	0.26
PAH (total of USEPA 16)	CE087	mg/kg	6.30	<0.34	<0.34	<0.34	0.72	2.75
BTEX & TPH								
MTBE	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	0.02
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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SOILS

Lab number			85107-1	85107-2	85107-3	85107-4	85107-5	85107-6
Sample id			WS01	WS01	WS01	WS01	WS02	WS02
Depth (m)			0.15	1.00	2.00	4.00	0.30	0.70
Date sampled			09/03/2020	09/03/2020	09/03/2020	09/03/2020	09/03/2020	09/03/2020
Test	Method	Units						
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	0.02
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	3	<1	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	5	<1	<1	<1	<1	3
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	54	14	<4	<4	20	122
EPH Aliphatic (>C35-C44)	CE068	mg/kg	14	<10	<10	<10	<10	59
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD

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SOILS

Lab number			85107-7	85107-8
Sample id			WS02	WS02
Depth (m)			1.20	3.00
Date sampled			09/03/2020	09/03/2020
Test	Method	Units		
Arsenic (total)	CE127 ^M	mg/kg As	6.8	5.5
Cadmium (total)	CE127 ^M	mg/kg Cd	<0.2	<0.2
Chromium (total)	CE127 ^M	mg/kg Cr	134	103
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	9.0	6.7
Lead (total)	CE127 ^M	mg/kg Pb	23	11
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	11	17
Selenium (total)	CE127 ^M	mg/kg Se	1.3	2.2
Zinc (total)	CE127 ^M	mg/kg Zn	30	39
pH	CE004 ^M	units	8.6	7.1
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	49	21
Cyanide (total)	CE077	mg/kg CN	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 ^M	% w/w C	0.7	<0.1
Estimate of OMC (calculated from TOC)	CE072 ^M	% w/w	1.2	<0.1
PAH				
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.04	<0.02
Anthracene	CE087 ^U	mg/kg	0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.16	<0.02
Pyrene	CE087 ^M	mg/kg	0.14	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.11	0.03
Chrysene	CE087 ^M	mg/kg	0.13	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.14	0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.06	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.14	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.12	0.12
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.03	0.08
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.10	0.08
PAH (total of USEPA 16)	CE087	mg/kg	1.19	<0.34
BTEX & TPH				
MTBE	CE192 ^U	mg/kg	<0.02	<0.02
Benzene	CE192 ^U	mg/kg	<0.01	<0.01
Toluene	CE192 ^U	mg/kg	0.02	<0.01
Ethylbenzene	CE192 ^U	mg/kg	<0.01	<0.01
m & p-Xylene	CE192 ^U	mg/kg	<0.02	<0.02
o-Xylene	CE192 ^U	mg/kg	<0.01	<0.01

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SOILS

Lab number			85107-7	85107-8
Sample id			WS02	WS02
Depth (m)			1.20	3.00
Date sampled			09/03/2020	09/03/2020
Test	Method	Units		
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	0.02	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	35	11
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	<10
Subcontracted analysis				
Asbestos (qualitative)	\$	-	NAD	NAD

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO ₄
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	As received		1	mg/kg CN
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	As received		0.5	mg/kg PhOH
CE072	Total Organic Carbon (TOC)	Removal of IC by acidification, Carbon Analyser	Dry	M	0.1	% w/w C
CE072	Estimate of OMC (calculated from TOC)	Calculation from Total Organic Carbon	Dry	M	0.1	% w/w
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE192	MTBE	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	Benzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Toluene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Ethylbenzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	m & p-Xylene	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	o-Xylene	Headspace GC-FID	As received	U	0.01	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

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

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

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

Key

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

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
85107-1	WS01	0.15	N	
85107-2	WS01	1.00	N	
85107-3	WS01	2.00	N	
85107-4	WS01	4.00	N	
85107-5	WS02	0.30	N	
85107-6	WS02	0.70	N	
85107-7	WS02	1.20	N	
85107-8	WS02	3.00	N	

Appendix E: Groundwater Contamination Certificates





Matt Griffiths
Your Environment
Unit 2
Woodhorn Business Centre
Chichester
West Sussex
PO20 2BX

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

DETS Report No: 20-03168

Site Reference: Creek Road

Project / Job Ref: YE7882

Order No: None Supplied

Sample Receipt Date: 09/03/2020

Sample Scheduled Date: 11/03/2020

Report Issue Number: 1

Reporting Date: 17/03/2020

Authorised by:

A handwritten signature in grey ink, appearing to read "Dave Ashworth".

Dave Ashworth
Technical Manager

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.



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate						
DETS Report No: 20-03168	Date Sampled	05/03/20	05/03/20			
Your Environment	Time Sampled	None Supplied	None Supplied			
Site Reference: Creek Road	TP / BH No	WS01	WS02			
Project / Job Ref: YE7882	Additional Refs	None Supplied	None Supplied			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 17/03/2020	DETS Sample No	467883	467884			

Determinand	Unit	RL	Accreditation	(hs)		
pH	pH Units	N/a	ISO17025	7.0	7.4	
Electrical Conductivity	uS/cm	< 5	NONE	2160	872	
Total Cyanide	ug/l	< 5	NONE	< 5	< 5	
Sulphate as SO ₄	mg/l	< 1	ISO17025	227	63	
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	6.7	10.9	
Hardness - Total	mgCaCO ₃ /l	< 1	NONE	262	124	
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	
Barium (dissolved)	ug/l	< 5	ISO17025	35	25	
Beryllium (dissolved)	ug/l	< 3	ISO17025	< 3	< 3	
Boron (dissolved)	ug/l	< 5	ISO17025	197	130	
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	7	
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	
Nickel (dissolved)	ug/l	< 5	ISO17025	6	< 5	
Selenium (dissolved)	ug/l	< 5	ISO17025	8	8	
Vanadium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	
Zinc (dissolved)	ug/l	< 2	ISO17025	27	3	
Total Phenols (monohydric)	ug/l	< 10	NONE	< 10	< 10	

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}

(hs) Please note deviating sample due to head space in container



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Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Water Analysis Certificate - Speciated PAH						
DETS Report No: 20-03168	Date Sampled	05/03/20	05/03/20			
Your Environment	Time Sampled	None Supplied	None Supplied			
Site Reference: Creek Road	TP / BH No	WS01	WS02			
Project / Job Ref: YE7882	Additional Refs	None Supplied	None Supplied			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 17/03/2020	DETS Sample No	467883	467884			

Determinand	Unit	RL	Accreditation	(hs)		
Naphthalene	ug/l	< 0.01	NONE	0.05	< 0.01	
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Fluoranthene	ug/l	< 0.01	NONE	0.02	< 0.01	
Pyrene	ug/l	< 0.01	NONE	0.01	< 0.01	
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	
Benzo(ghi)perylene	ug/l	< 0.008	NONE	< 0.008	< 0.008	
Total EPA-16 PAHs	ug/l	< 0.01	NONE	0.08	< 0.01	



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Water Analysis Certificate - TPH CWG Banded

DETS Report No: 20-03168	Date Sampled	05/03/20	05/03/20			
Your Environment	Time Sampled	None Supplied	None Supplied			
Site Reference: Creek Road	TP / BH No	WS01	WS02			
Project / Job Ref: YE7882	Additional Refs	None Supplied	None Supplied			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 17/03/2020	DETS Sample No	467883	467884			

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

(hs) Please note deviating sample due to head space in container



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 20-03168	Date Sampled	05/03/20	05/03/20			
Your Environment	Time Sampled	None Supplied	None Supplied			
Site Reference: Creek Road	TP / BH No	WS01	WS02			
Project / Job Ref: YE7882	Additional Refs	None Supplied	None Supplied			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 17/03/2020	DETS Sample No	467883	467884			

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

(hs) Please note deviating sample due to head space in container



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 20-03168	
Your Environment	
Site Reference: Creek Road	
Project / Job Ref: YE7882	
Order No: None Supplied	
Reporting Date: 17/03/2020	

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 diphenylcarbazine followed by colorimetry	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 GC-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 followed by GC-MS	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 SO ₄)	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 (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 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 (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 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

Appendix F: Monitoring Results



Ground Gas and Groundwater Monitoring Record Sheet

JOB DETAILS:

Client: Chris Flint Associates Job No: YE7882
Site: Creek Road Visit No: 1 of 3
Date: 05.03.2020 Operator: MG Project Manager: MG

Monitoring Point	GAS CONCENTRATIONS												VOLATILES		FLOW DATA			Worst-credible GSVs		WELL AND WATER DATA						Comments
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (ppmv)		Hydrogen sulphide (ppmv)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Time for flow to equalise (secs)	Methane (l/hr)	CO2 (l/hr)	Water level (mbgl)	Depth of well (m)	Reduced level (mAOD)	Water level (mAOD)	Response Zone	
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Min.	Steady			Peak	Steady										
WS01	0.0	0.0			0.2	0.2	2	0	0	0	20.9	20.9	0.0	0	0.2	0.2					2.50	4.82				
WS02	0.2	0.2			1.5	1.5	5	0	0	0	16.5	16.5	0.0	0	2.5	2.5					1.65	4.32				
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
Max	0.2	0.2	ND	ND	1.5	1.5	5	0	0	0	20.9	20.9	0	0	2.5	2.5	ND	NA	0.0000	0.0000	2.50	4.82	NR	NR		
Min	0.0	0.0	0.0	0.0	0.2	0.2	2	0	0	0	16.5	16.5	0.0	0.0	0.2	0.2	0.0	0	0.0000	0.0000	1.65	4.32	0.00	0.00		

ND - Not detected
NR - Not recorded
NA - Non applicable

Worst-possible GSVs
0.005 0.0375

NB: Where no flow (ND) recorded, GSVs are calculated using equipment limit of detection (0.1l/hr). Where negative flows recorded, these are converted to positive values for calculation of GSVs.

MG - Made ground
NAT - Natural
C - Cohesive
G - Granular

METEOROLOGICAL AND SITE INFORMATION:

(Select correct box with X or enter data, as applicable)

State of ground: ☐ Dry ☒ Moist ☒ Wet ☐ Snow ☐ Frozen

Wind: ☐ Calm ☒ Light ☒ Moderate ☐ Strong

Cloud cover: ☐ None ☒ Slight ☒ Cloudy ☐ Overcast

Precipitation: ☐ None ☒ Slight ☒ Moderate ☐ Heavy

Time monitoring performed: 09:00 Start 09:30 End

Barometric pressure (mbar): 997 Start 997 End

Pressure trend (Daily): ☒ Falling ☐ Steady ☐ Rising

Source: Wunderground

Air Temperature (Deg. C): 5 Before 5 After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: GA5000

Gas Range: CH4 0 - 100% CO2 0 - 100% O2 0 - 25%

Gas Flow range: +/-

Differential Pressure: +/- 500mbar

Date of last calibration:

Date of next calibration:

Ground Gas and Groundwater Monitoring Record Sheet

JOB DETAILS:

Client: Chris Flint Associates
Site: Creek Road
Date: 19.03.2020

Job No: YE7882
Visit No: 2 of 3
Operator: JH

Project Manager: MG

	GAS CONCENTRATIONS												VOLATILES		FLOW DATA				Worst-credible GSVs		WELL AND WATER DATA						Comments
Monitoring Point	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (ppmv)		Hydrogen sulphide (ppmv)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Time for flow to equalise (secs)	Methane (l/hr)	CO2 (l/hr)	Water level (mbgl)	Depth of well (m)	Reduced level (mAOD)	Water level (mAOD)	Response Zone		
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Min.	Steady			Peak	Steady											
WS01	0.2	0.1			0.2	0.1	1	0	0	0	20.2	20.2	0.0	0	0.1	0.1					2.30	4.82					
WS02	0.4	0.4			3.4	3.4	2	0	0	0	10.9	10.9	0.0	0	-11.6	-11.6					1.23	4.32					
																			0	0							
																			0	0							
																			0	0							
																			0	0							
																			0	0							
																			0	0							
																			0	0							
																			0	0							
																			0	0							
																			0	0							
Max	0.4	0.4	ND	ND	3.4	3.4	2	0	0	0	20.2	20.2	0	0	0.1	0.1	ND	NA	0.0000	0.0000	2.30	4.82	NR	NR			
Min	0.2	0.1	0.0	0.0	0.2	0.1	1	0	0	0	10.9	10.9	0.0	0.0	-11.6	-11.6	0.0	0	0.0000	0.0000	1.23	4.32	0.00	0.00			

ND - Not detected
 NR - Not recorded
 NA - Non applicable

Worst-possible GSVs	
0.0004	0.0034

MG - Made ground
 NAT - Natural
 C - Cohesive
 G - Granular

NB: Where no flow (ND) recorded, GSVs are calculated using equipment limit of detection (0.1l/hr). Where negative flows recorded, these are converted to positive values for calculation of GSVs.

METEOROLOGICAL AND SITE INFORMATION:

(Select correct box with X or enter data, as applicable)

State of ground: ☒ Dry ☒ Moist ☐ Wet ☐ Snow ☐ Frozen
 Wind: ☒ Calm ☐ Light ☐ Moderate ☐ Strong
 Cloud cover: ☐ None ☐ Slight ☐ Cloudy ☒ Overcast
 Precipitation: ☒ None ☐ Slight ☐ Moderate ☐ Heavy
 Time monitoring performed: 09:00 Start 09:00 End
 Barometric pressure (mbar): 1024 Start 1024 End
 Pressure trend (Daily): ☐ Falling ☒ Steady ☐ Rising
 Source: wuunderground
 Air Temperature (Deg. C): 7 Before 7 After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: GA5000
Gas Range: CH₄ 0 - 100% CO₂ 0 - 100% O₂ 0 - 25%
Gas Flow range: +/-
Differential Pressure: +/- 500mbar
Date of last calibration:
Date of next calibration:

Ground Gas and Groundwater Monitoring Record Sheet

JOB DETAILS:

Client: Chris Flint Associates
Site: Creek Road
Date: 02.04.2020

Job No: YE7882
Visit No: 3 of 3
Operator: MG

Project Manager: MG

Monitoring Point	GAS CONCENTRATIONS												VOLATILES		FLOW DATA			Worst-credible GSVs		WELL AND WATER DATA						Comments
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (ppmv)		Hydrogen sulphide (ppmv)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Time for flow to equalise (secs)	Methane (l/hr)	CO2 (l/hr)	Water level (mbgl)	Depth of well (m)	Reduced level (mAOD)	Water level (mAOD)	Response Zone	
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Min.	Steady			Peak	Steady										
WS01	0.1	0.1			0.1	0.1	0	0	0	0	20.0	20.0	0.0	0	0.1	0.1					2.60	4.82				
WS02	0.1	0.1			4.0	4.0	1	1	0	0	13.0	13.0	0.0	0	2.9	2.9					1.55	4.32				
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
																			0	0						
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																			0	0						
																			0	0						
																			0	0						
																			0	0						
Max	0.1	0.1	ND	ND	4.0	4.0	1	1	0	0	20.0	20.0	0	0	2.9	2.9	ND	NA	0.0000	0.0000	2.60	4.82	NR	NR		
Min	0.1	0.1	0.0	0.0	0.1	0.1	0	0	0	0	13.0	13.0	0.0	0.0	0.1	0.1	0.0	0	0.0000	0.0000	1.55	4.32	0.00	0.00		
																			Worst-possible GSVs							
																			0.0029	0.116						

ND - Not detected
 NR - Not recorded
 NA - Non applicable

NB: Where no flow (ND) recorded, GSVs are calculated using equipment limit of detection (0.1l/hr). Where negative flows recorded, these are converted to positive values for calculation of GSVs.

METEOROLOGICAL AND SITE INFORMATION:

(Select correct box with X or enter data, as applicable)

State of ground: ☒ Dry ☐ Moist ☐ Wet ☐ Snow ☐ Frozen
 Wind: ☒ Calm ☐ Light ☐ Moderate ☐ Strong
 Cloud cover: ☒ None ☐ Slight ☐ Cloudy ☐ Overcast
 Precipitation: ☒ None ☐ Slight ☒ Moderate ☐ Heavy
 Time monitoring performed: 11:00 Start 11:00 End
 Barometric pressure (mbar): 1018 Start 1018 End
 Pressure trend (Daily): ☐ Falling ☒ Steady ☐ Rising
 Source: ☐ Wunderground ☐ After
 Air Temperature (Deg. C): Before After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: GA5000
Gas Range: CH₄ 0 - 100% CO₂ 0 - 100% O₂ 0 - 25%
Gas Flow range: +/-
Differential Pressure: +/- 500mbar
Date of last calibration:
Date of next calibration: