



PADDINGTON GREEN
POLICE STATION

Structural Method Statement (Part 5)

Structural Method Statement (Part 5) –
November 2022 - GLA0711

NOVEMBER 2022

**TEST CERTIFICATE**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2
Wet Sieving Method

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7533-1/6/710-2
Client Reference: C15340
Lab Job Number: PL7533-1
Date Sampled: Unknown
Date Received: 13.07.2021
Date Tested: 06.08.2021

Contact: Steve Fleming

Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

Site Name: Paddington Green Police Station
Site Address: London W2

TEST RESULTS

Laboratory Reference: PL7533-1/6

Pre-treatment for

N/A

Client Reference: B5

organic material:

Sample Description:

Brown orange-brown slightly silty slightly gravelly SAND. Gravel consists of fine to medium sub-angular to sub-rounded flint.

Material Specification: Not Required

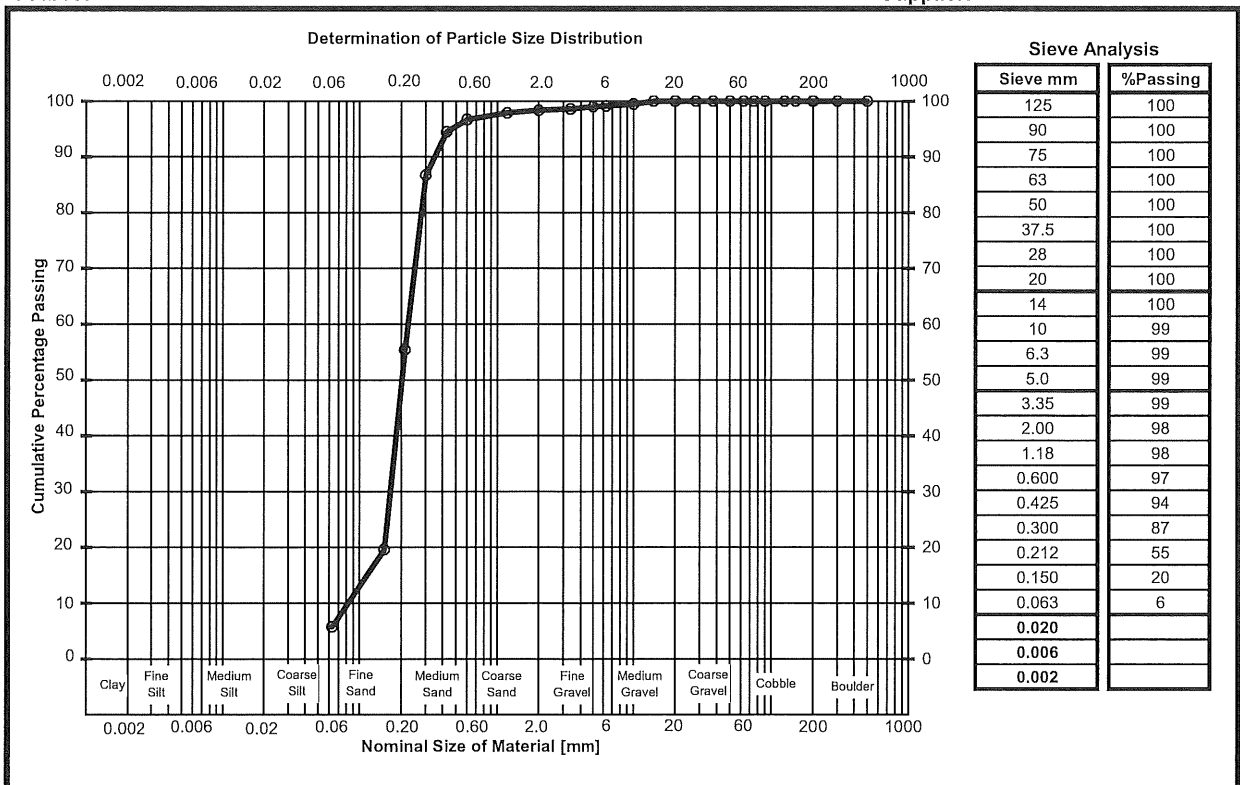
Depth Top: 7.00m

Location: BH1A

Depth Base: 7.50m

Source:

Supplier:



Comments:

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10.08.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and Interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA

**TEST CERTIFICATE**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2
Wet Sieving Method

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7533-1/7/710-2
Client Reference: C15340
Lab Job Number: PL7533-1
Date Sampled: Unknown
Date Received: 13.07.2021
Date Tested: 06.08.2021

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7533-1/7

Pre-treatment for organic material: N/A

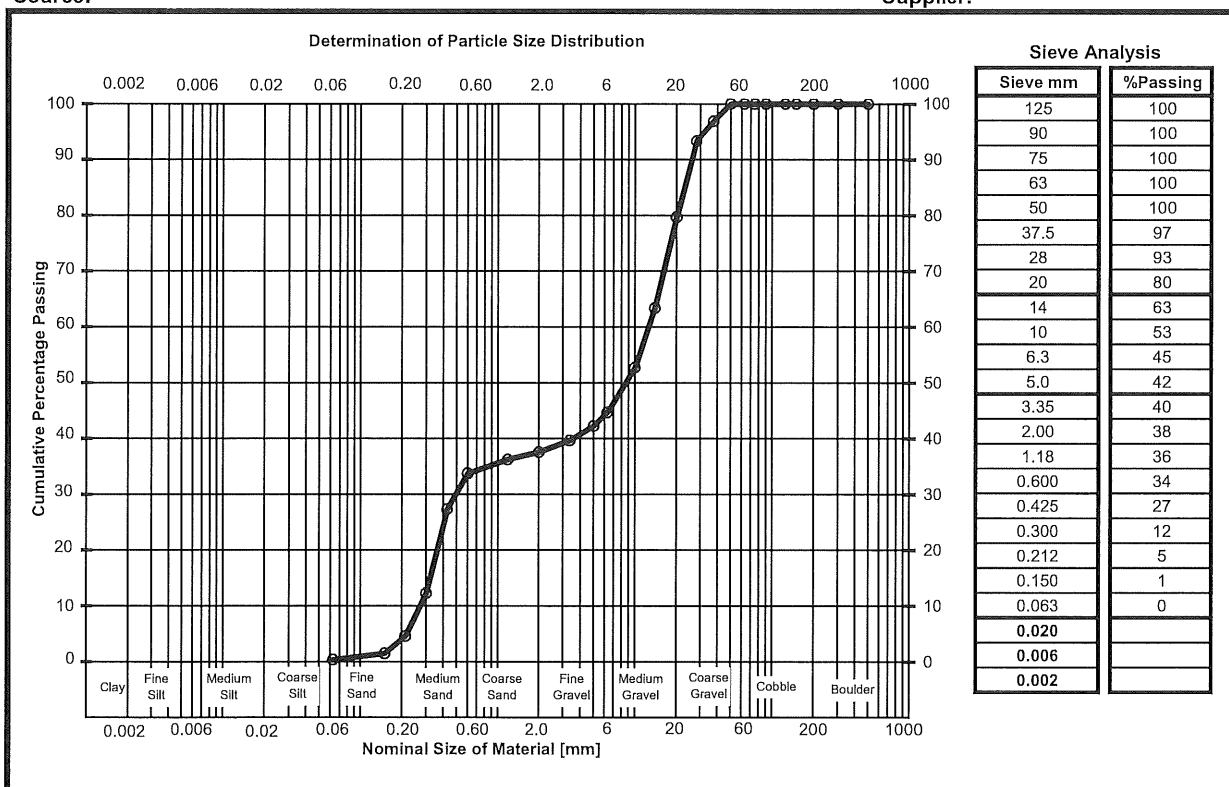
Client Reference: B7

Light-brown SAND and GRAVEL. Gravel consists of sub-angular to rounded flint and quartzite.

Sample Description:

Material Specification: Not Required
Location: BH1A
Source:

Depth Top: 9.10m
Depth Base: 9.60m
Supplier:



Comments:

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10.08.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



GROUND ENGINEERING

TEST CERTIFICATE

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2
Wet Sieving Method

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7533-1/8/710-2
Client Reference: C15340
Lab Job Number: PL7533-1
Date Sampled: Unknown
Date Received: 13.07.2021
Date Tested: 06.08.2021

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7533-1/8

Pre-treatment for organic material: N/A

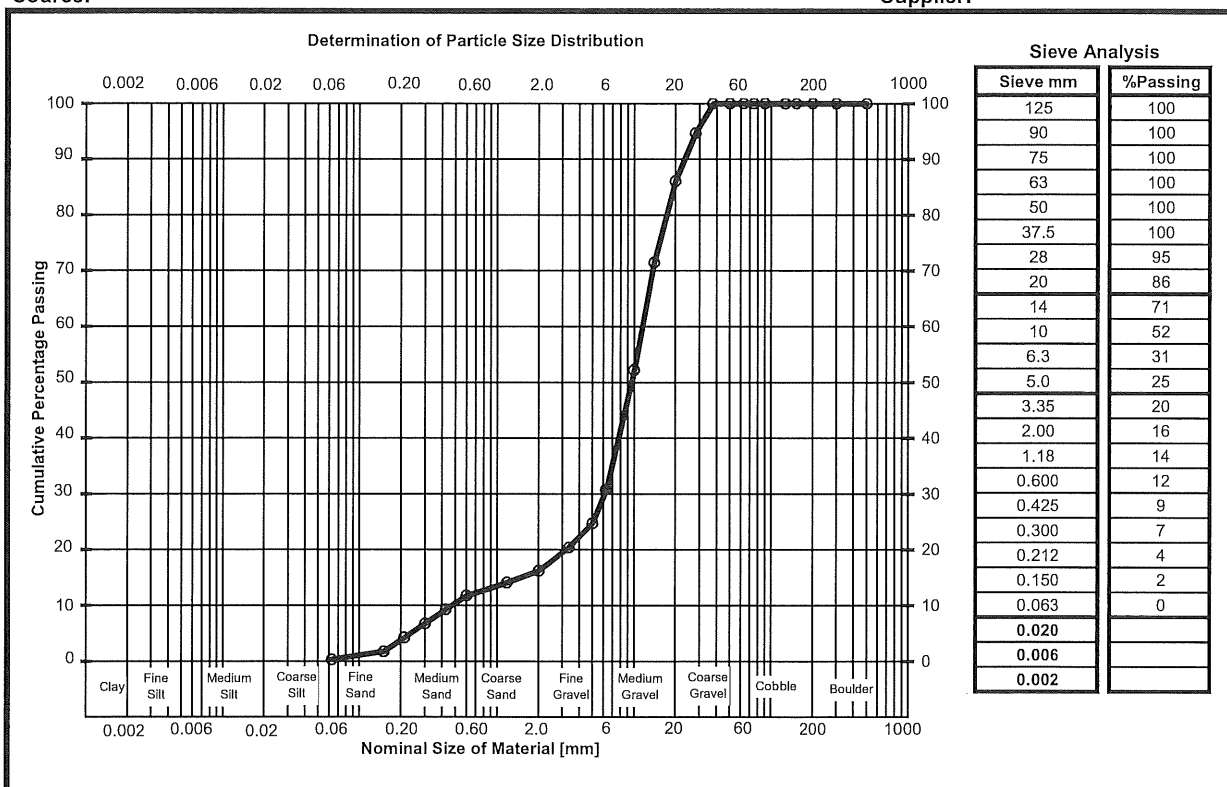
Client Reference: B9

Sample Description:

Orange-brown slightly silty sandy GRAVEL. Gravel consists of sub-angular to rounded flint quartzite and ironstone.

Material Specification: Not Required
Location: BH1A
Source:

Depth Top: 11.80m
Depth Base: 12.30m
Supplier:



Comments:

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10.08.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and Interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

TEST CERTIFICATE**GROUND ENGINEERING**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990; Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7473-1/3/710-2
Client Reference: C15340
Lab Job Number: PL7473-1
Date Sampled: Unknown
Date Received: 18.05.2021
Date Tested: 27.05.2021
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

TEST RESULTS

Laboratory Reference: PL7473-1/3
Client Reference: B2

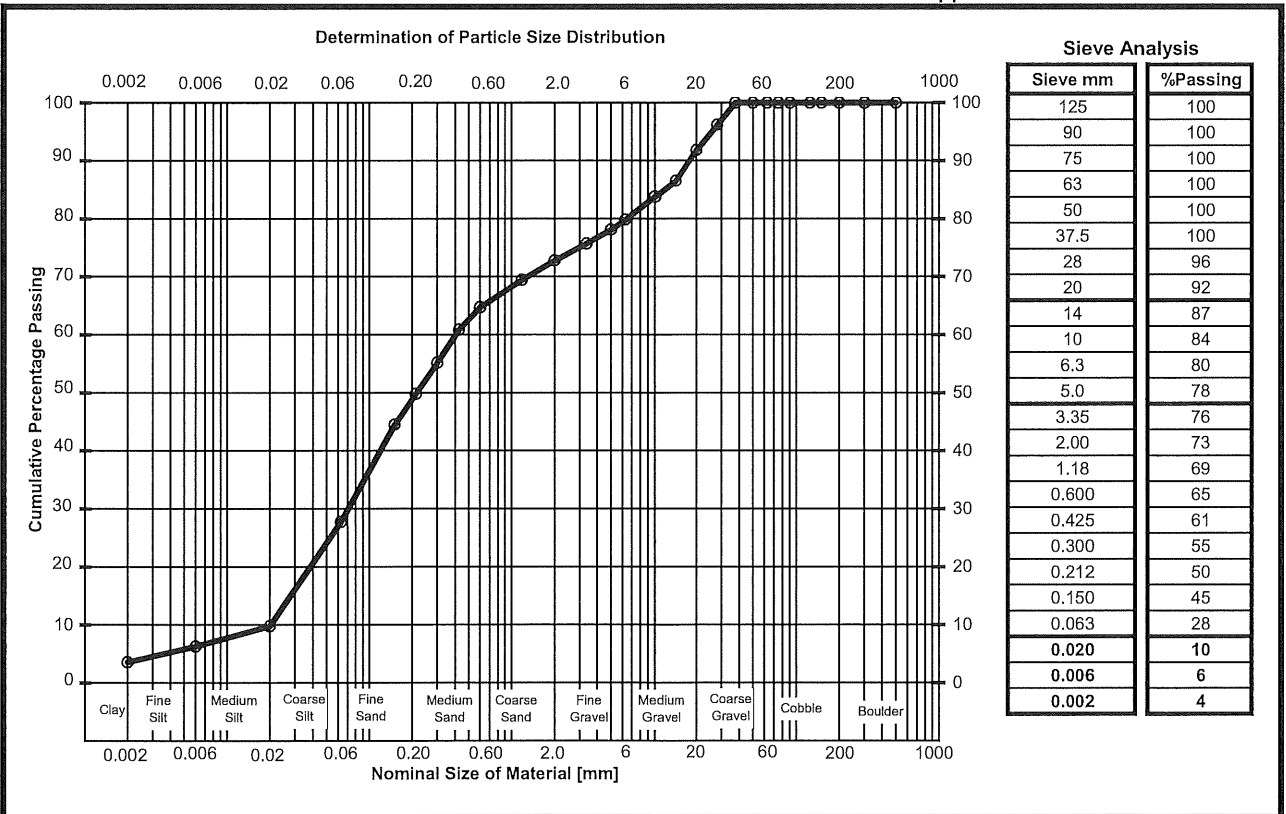
Pre-treatment for organic material: No

Brown light-brown slightly clayey silty gravelly SAND. Gravel consists of angular to rounded brick and flint.

Sample Description:

Material Specification: Not Required
Location: BH2
Source:

Depth Top: 0.60m
Depth Base: 1.20m
Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

TEST CERTIFICATE**GROUND ENGINEERING**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate Number: PL7473-1/4/710-2
Client Reference: C15340
Lab Job Number: PL7473-1
Date Sampled: Unknown
Date Received: 18.05.2021
Date Tested: 27.05.2021
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7473-1/4
Client Reference: B3

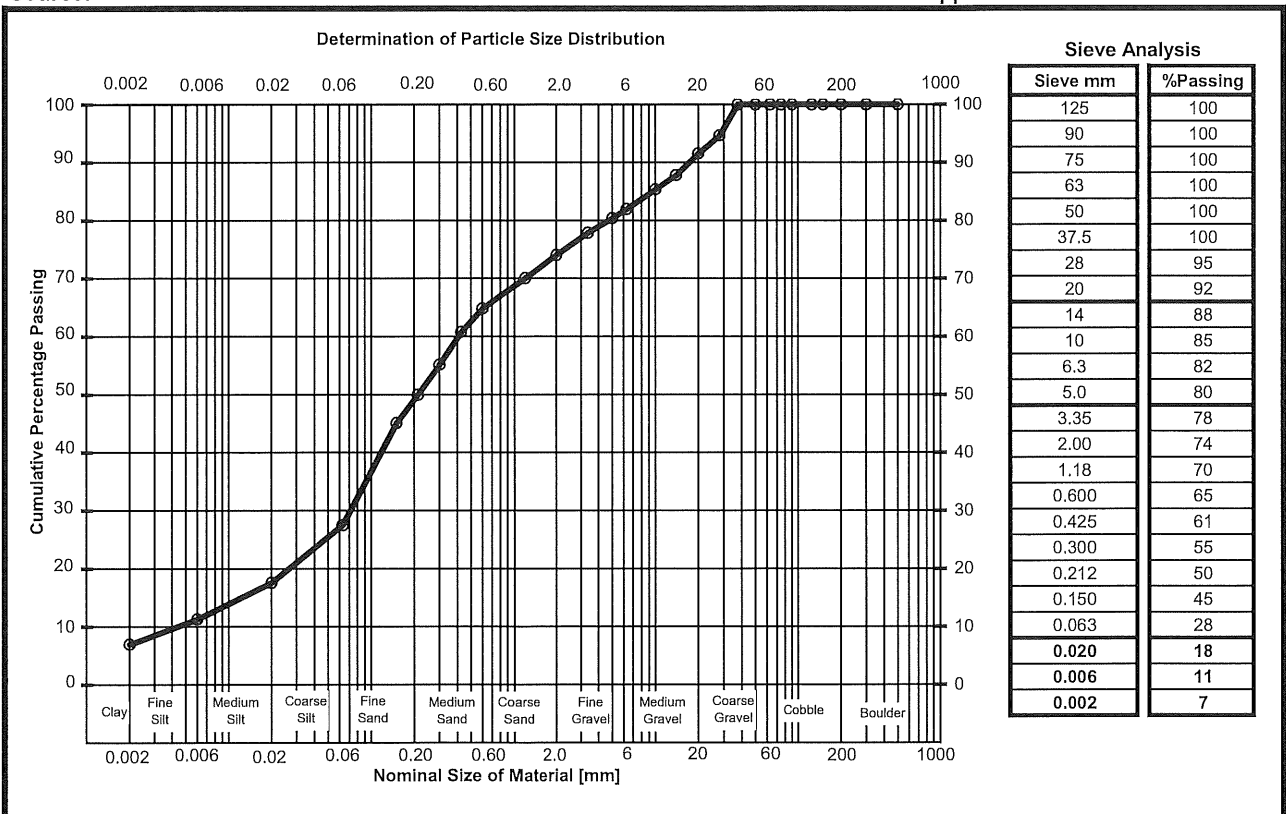
Pre-treatment for organic material: No

Sample Description:

Brown orange-brown slightly clayey silty gravelly SAND. Gravel consists of angular to sub-rounded flint and brick.

Material Specification: Not Required
Location: BH2
Source:

Depth Top: 1.20m
Depth Base: 1.60m
Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

TEST CERTIFICATE**GROUND ENGINEERING**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990; Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate Number: PL7473-1/5/710-2
Client Reference: C15340
Lab Job Number: PL7473-1
Date Sampled: Unknown
Date Received: 18.05.2021
Date Tested: 27.05.2021
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7473-1/5
Client Reference: B7

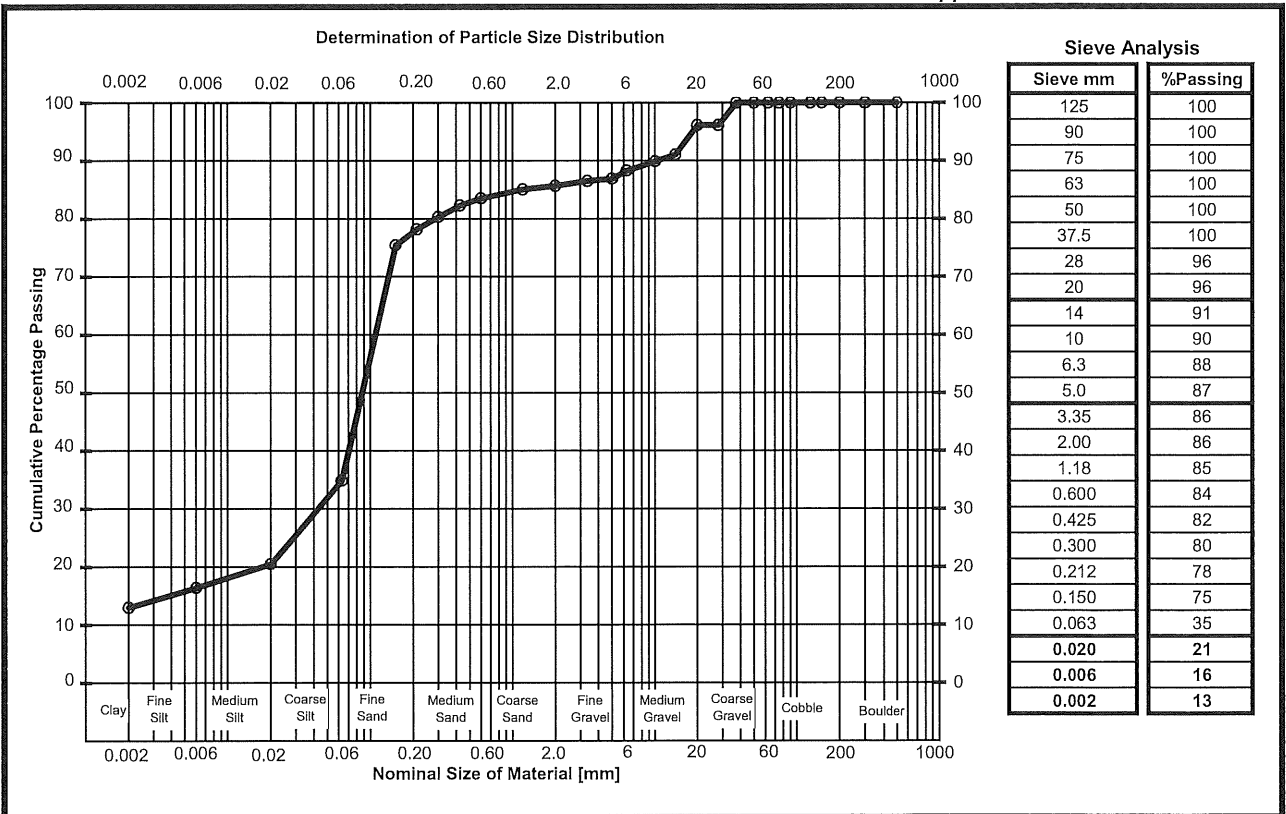
Pre-treatment for organic material: No

Sample Description:

Brown orange-brown grey clayey silty gravelly SAND. Gravel consists of fine to medium sub-angular to sub-rounded flint.

Material Specification: Not Required
Location: BH2
Source:

Depth Top: 3.50m
Depth Base: 4.00m
Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

TEST CERTIFICATE**GROUND ENGINEERING**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7473-1/6/710-2

Client Reference: C15340

Lab Job Number: PL7473-1

Date Sampled: Unknown

Date Received: 18.05.2021

Date Tested: 27.05.2021

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate of Sampling: N/A

Sampling Certificate No.: N/A

Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7473-1/6

Client Reference: B10

Pre-treatment for
organic material:

No

Firm brown orange-brown very sandy SILT/CLAY with rare medium sub-rounded flint.

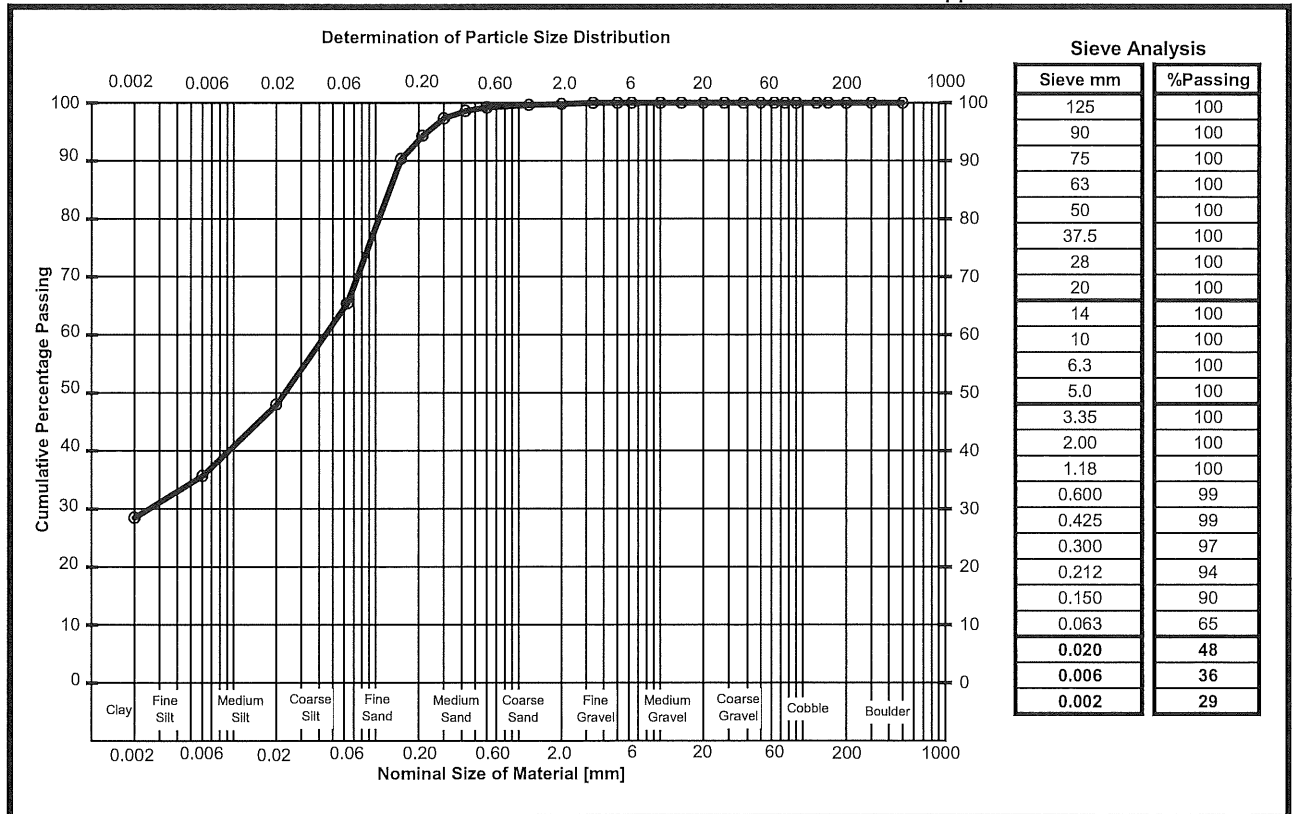
Sample Description:

Material Specification: Not Required
Location: BH2
Source:

Depth Top: 5.60m

Depth Base: 6.00m

Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

TEST CERTIFICATE**GROUND ENGINEERING**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7473-1/10/710-2
Client Reference: C15340
Lab Job Number: PL7473-1
Date Sampled: Unknown
Date Received: 18.05.2021
Date Tested: 27.05.2021

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7473-1/10
Client Reference: B12

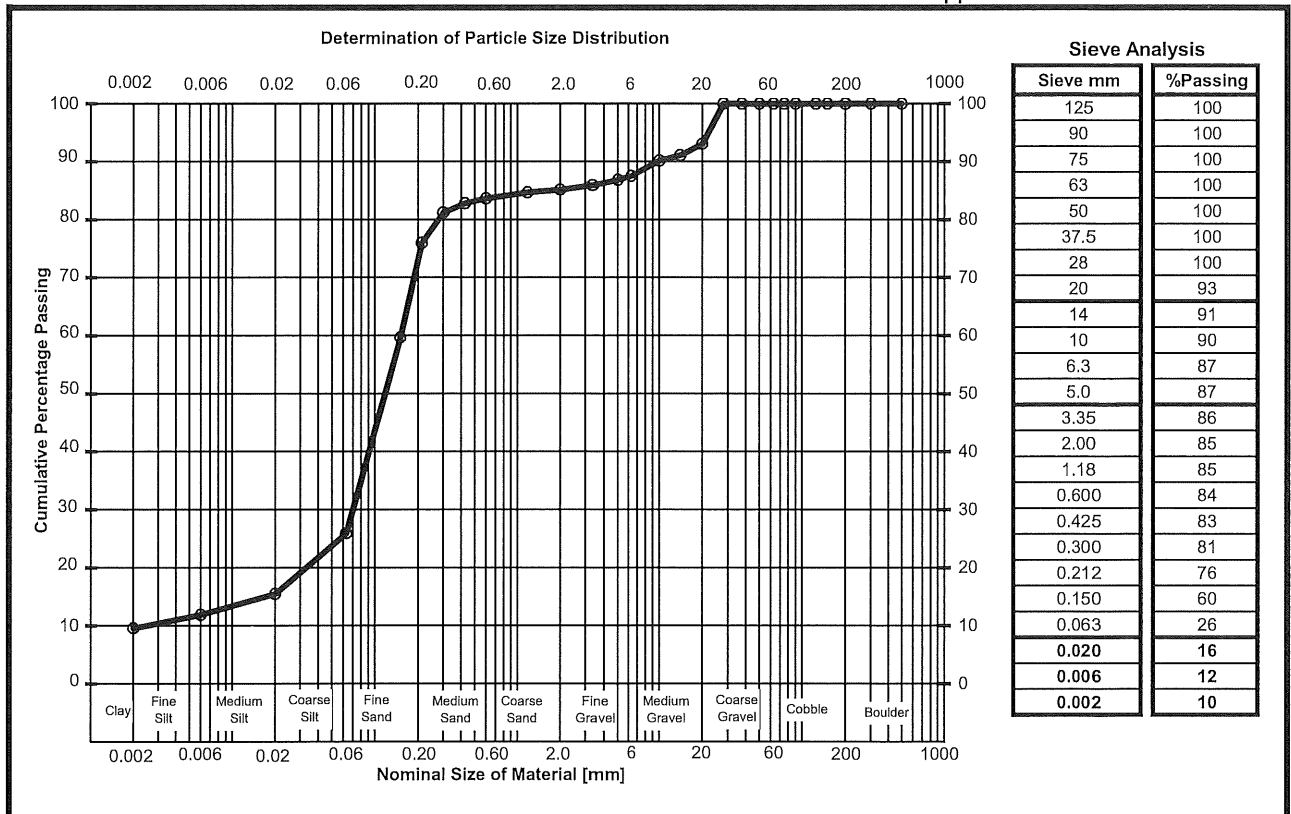
Pre-treatment for organic material: No

Sample Description:

Brown orange-brown grey clayey silty gravelly SAND. Gravel consists of fine to medium angular to sub-angular flint.

Material Specification: Not Required
Location: BH2
Source:

Depth Top: 8.40m
Depth Base: 9.00m
Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

GROUND ENGINEERING

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7473-1/11/710-2
Client Reference: C15340
Lab Job Number: PL7473-1
Date Sampled: Unknown
Date Received: 18.05.2021
Date Tested: 27.05.2021

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

TEST RESULTS

Laboratory Reference: PL7473-1/11

Pre-treatment for
organic material:

No

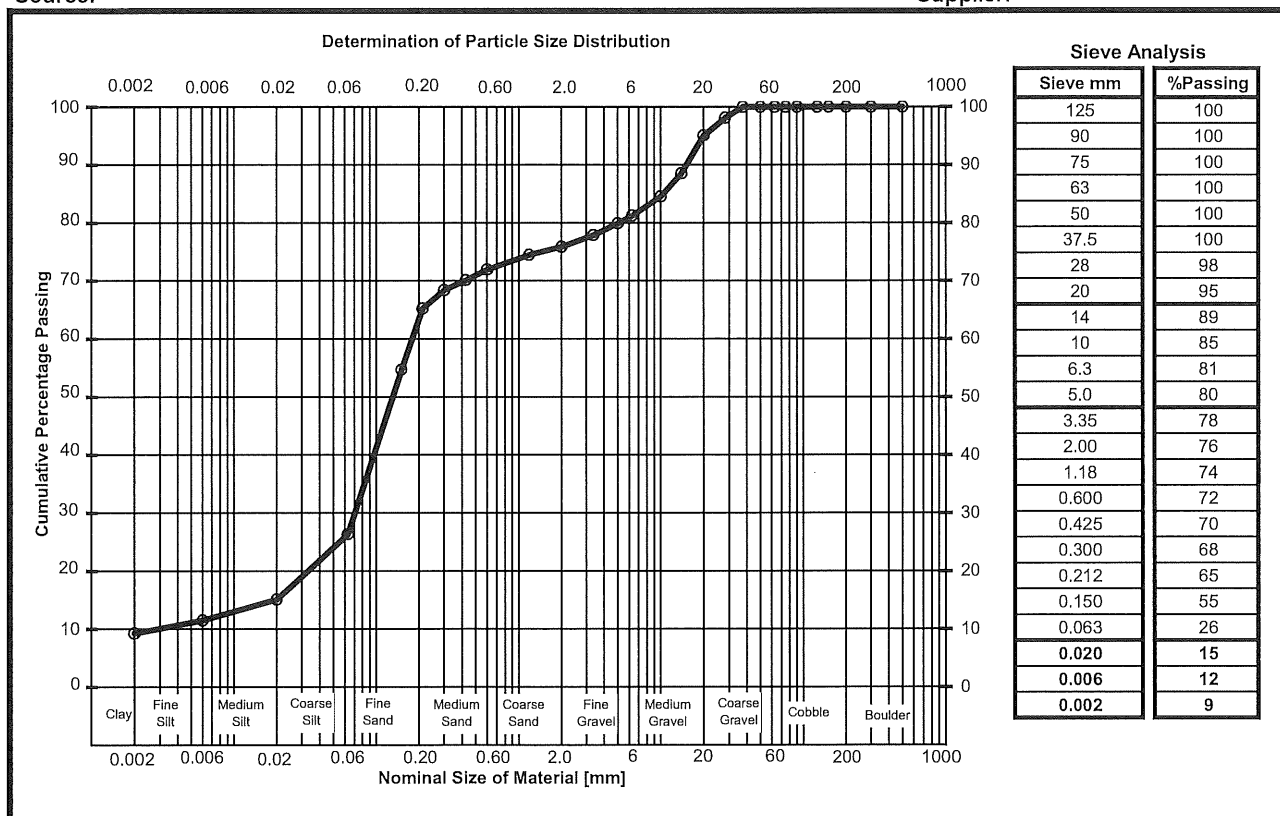
Client Reference: B13

Light-brown orange-brown clayey silty gravelly SAND. Gravel consists of angular to sub-angular flint.

Sample Description:

Material Specification: Not Required
Location: BH2
Source:

Depth Top: 9.00m
Depth Base: 9.30m
Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA



8180

GROUND ENGINEERING**TEST CERTIFICATE**

Newark Road Peterborough
t: 01733 566566
e: admin@groundengineering.co.uk

Determination of Particle Size Distribution

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd
Client Address: Newark Road
Peterborough
PE1 5UA

Certificate Number: PL7473-1/12/710-2
Client Reference: C15340
Lab Job Number: PL7473-1
Date Sampled: Unknown
Date Received: 18.05.2021
Date Tested: 27.05.2021
Certificate of Sampling: N/A
Sampling Certificate No.: N/A
Sampled By: Client

Contact: Steve Fleming

Site Name: Paddington Green Police Station
Site Address: London W2

TEST RESULTS

Laboratory Reference: PL7473-1/12

Pre-treatment for
organic material:

No

Client Reference: B15

Sample Description:

Brown orange-brown slightly clayey slightly silty sandy GRAVEL with sandy clay lumps. Gravel consists of angular to sub-rounded flint.

Material Specification: Not Required

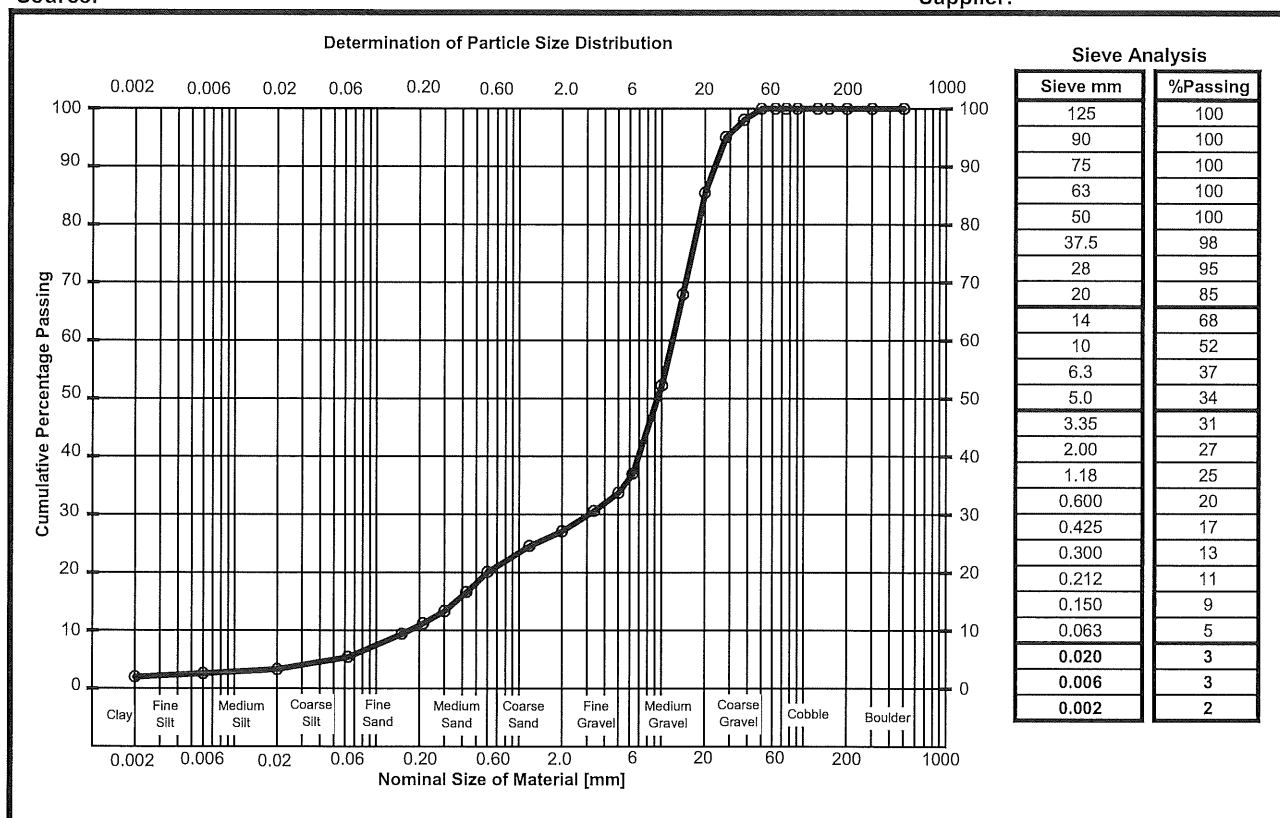
Location: BH2

Source:

Depth Top: 10.50m

Depth Base: 11.00m

Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1
Form Number: GELab/C/709-2 Version 56

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England & Wales
Registration Number: 6929574
Reg Office: Ground Engineering Ltd
Newark Rd, Peterborough PE1 5UA

TEST CERTIFICATE**One-Dimensional Consolidation
Properties**

(Tested in accordance with BS1377 : Part 5 1990)

Newark Road Peterborough

t:01733 566566

e: admin@groundengineering.co.uk

Client: Ground Engineering
Client Address: Newark Road
Peterborough
Cambridgeshire
Postcode: PE1 5UA
Contact: Steve Fleming
Site Name: Padding Green Police Station
Site Address: London W2

Certificate Number: PL7533-1-2/731
Client Reference Number: C15340
Date Sampled: Unknown
Date Received: 13.07.2021
Date Tested: 02.08.2021
Sampling Certificate No: N/A
Certificate of Sampling: N/A
Sampled By: Client

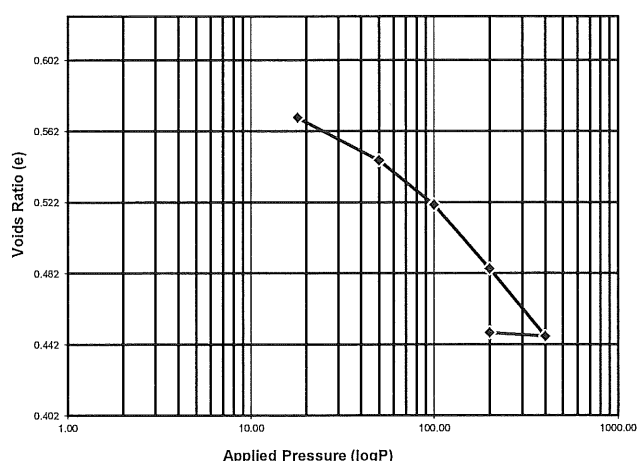
Test Details

Location: BH1A
Sample Ref: U1
Sample Description: Firm brown dark brown orange-brown
slightly silty CLAY with sandy pockets.
Particle Density (Mg/m³): 2.7 Assumed
Mean Lab Temp. (°C): 22
Variations from Standard: None
Lab Reference: PL7533-1-2
Depth: 4.48 m

Specimen Details

	INITIAL	FINAL
Height (mm):	18.94	17.48
Bulk Density (Mg/m ³):	2.05	2.20
Moisture Content (%):	19	18
Dry Density (Mg/m ³):	1.72	1.86
Voids Ratio:	0.570	0.449
Degree of Saturation (%):	89.6	100.0
Diameter (mm):	74.96	N/A
Swelling Pressure (kPa):	18	N/A
Method of time fitting used:	Log Time	N/A

Voids Ratio against logarithm of Applied Pressure



Applied Pressure (kPa)	Coefficient of Compressibility m _v (m ² /MN)	Coefficient of Consolidation c _v (m ² /year)
18	0.49	1.93
50	0.32	1.39
100	0.27	1.19
200	0.11	1.40
400	0.01	---
200		

Comments:

Approved [x] M.Hartnup - Laboratory Manager
Signatory: [] L.Petch - Team Leader

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10/08/2021

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England Wales
Reg Number 6929574
Reg Office: Ground Engineering Ltd
Newark Rd
Peterborough PE1 5UA

TEST CERTIFICATE**One-Dimensional Consolidation Properties**

(Tested in accordance with BS1377 : Part 5 1990)

Client: Ground Engineering
 Client Address: Newark Road
 Peterborough
 Cambridgeshire
 Postcode: PE1 5UA
 Contact: Steve Fleming
 Site Name: Paddington Green Police Station
 Site Address: London W2

Newark Road Peterborough

t:01733 566566

e: admin@groundengineering.co.uk

Certificate Number: PL7473-1-7/731

Client Reference Number: C15340

Date Sampled: Unknown

Date Received: 18.05.2021

Date Tested: 04.06.2021

Sampling Certificate No: N/A

Certificate of Sampling: N/A

Sampled By: Client

Test Details

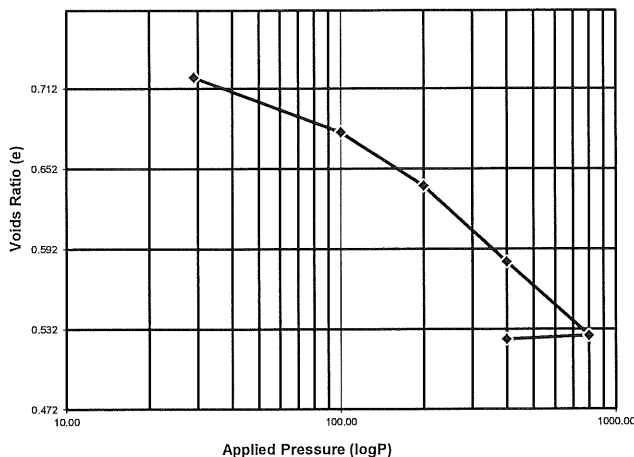
Location: BH2
 Sample Ref: U1
 Sample: Firm orange-brown light brown slightly
 Description: silty CLAY with rare fine angular flint.

Particle Density (Mg/m³): 2.7 Assumed
 Mean Lab Temp. (°C): 22
 Variations from Standard: None
 Lab Reference: PL7473-1-7
 Depth: 6.00 m

Specimen Details

	INITIAL	FINAL
Height (mm):	18.95	16.79
Bulk Density (Mg/m ³):	1.95	2.12
Moisture Content (%):	24	20
Dry Density (Mg/m ³):	1.57	1.77
Voids Ratio:	0.720	0.524
Degree of Saturation (%):	91.5	100.0
Diameter (mm):	75.03	N/A
Swelling Pressure (kPa):	29	N/A
Method of time fitting used:	Log Time	N/A

Voids Ratio against logarithm of Applied Pressure



Applied Pressure (kPa)	Coefficient of Compressibility m_v (m ² /MN)	Coefficient of Consolidation c_v (m ² /year)
29		
100	0.34	2.37
200	0.24	1.00
400	0.17	0.71
800	0.09	0.65
400	0.00	---

Comments:

Approved [x] M.Hartnup - Laboratory Manager
 Signatory: [] L.Petch - Team Leader

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23/06/2021

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Registered in England Wales

Reg Number 6929574

Reg Office: Ground Engineering Ltd

Newark Rd

Peterborough PE1 5UA

TEST CERTIFICATE**One-Dimensional Consolidation****Properties**

(Tested in accordance with BS1377 : Part 5 1990)

Client: Ground Engineering
 Client Address: Newark Road
 Peterborough
 Cambridgeshire
 Postcode: PE1 5UA
 Contact: Steve Fleming
 Site Name: Paddington Green Police Station
 Site Address: London W2

Newark Road Peterborough

t:01733 566566

e: admin@groundengineering.co.uk

Certificate Number: PL7473-1-14/731

Client Reference Number: C15340

Date Sampled: Unknown

Date Received: 18.05.2021

Date Tested: 04.06.2021

Sampling Certificate No: N/A

Certificate of Sampling: N/A

Sampled By: Client

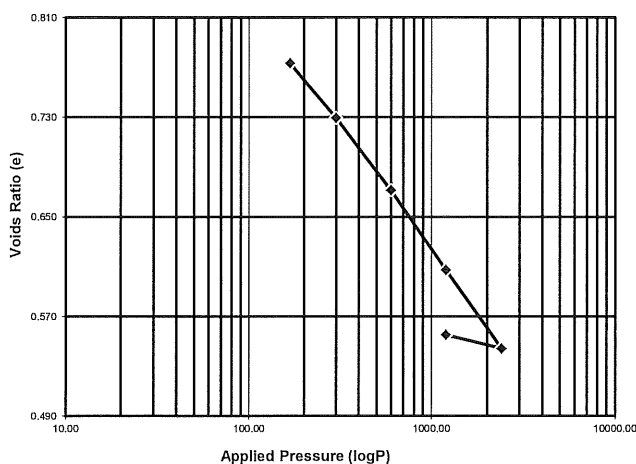
Test Details

Location: BH2
 Sample Ref: U3
 Sample Description: Stiff friable dark brown brown black slightly silty CLAY.
 Particle Density (Mg/m³): 2.7 Assumed
 Mean Lab Temp. (°C): 22
 Variations from Standard: None
 Lab Reference: PL7473-1-14
 Depth: 12.70 m

Specimen Details

	INITIAL	FINAL
Height (mm):	18.67	16.38
Bulk Density (Mg/m ³):	1.91	2.16
Moisture Content (%):	25	24
Dry Density (Mg/m ³):	1.52	1.74
Voids Ratio:	0.773	0.555
Degree of Saturation (%):	87.8	100.0
Diameter (mm):	74.98	N/A
Swelling Pressure (kPa):	168	N/A
Method of time fitting used:	Log Time	N/A

Voids Ratio against logarithm of Applied Pressure



Applied Pressure (kPa)	Coefficient of Compressibility m_v (m ² /MN)	Coefficient of Consolidation c_v (m ² /year)
168		
300	0.21	1.13
600	0.10	0.28
1200	0.06	0.33
2400	0.03	0.30
1200	0.01	---

Comments:

Approved [x] M.Hartnup - Laboratory Manager
 Signatory: [] L.Petch - Team Leader

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23/06/2021

Registered in England Wales

Reg Number 6929574

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. Reported results relate explicitly to the individual sample and/or specimen in its 'as received' condition, unless otherwise stated.

Reg Office: Ground Engineering Ltd

Newark Rd

Peterborough PE1 5UA

APPENDIX 7 – CHEMICAL LABORATORY TEST RESULTS

SULPHATES



Final Report

Report No.: 21-16652-1
Initial Date of Issue: 25-May-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Steve Fleming
Project C 15340 Paddington Green Police
Station

Quotation No.:		Date Received:	19-May-2021
Order No.:	C 15340	Date Instructed:	19-May-2021
No. of Samples:	20		
Turnaround (Wkdays):	5	Results Due:	25-May-2021
Date Approved:	25-May-2021		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: C 15340 Paddington Green Police Station

Client: Ground Engineering Limited	Chemtest Job No.:					21-16652	21-16652	21-16652	21-16652	21-16652	21-16652	21-16652
Quotation No.:	Chemtest Sample ID.:					1203446	1203447	1203448	1203449	1203450	1203451	1203452
Order No.: C 15340	Client Sample Ref.:					B2	B3	B2	B3	B7	B8	B10
	Sample Location:					BH1	BH1	BH2	BH2	BH2	BH2	BH2
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.60	0.80	0.60	1.20	3.50	4.00	5.60
	Bottom Depth (m):					0.80	1.20	1.20	1.60	4.00	4.50	6.00
	Date Sampled:					04-May-2021	04-May-2021	26-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021
Determinand	Accred.	SOP	Units	LOD								
pH	M	2010		4.0	10.0	10.2	9.0	8.3	8.7	8.6	8.3	8.4
pH (2.5:1)	N	2010		4.0								
Moisture	N	2030	%	0.020	11	11	14	13	13	17	17	17
Sulphate (Acid Soluble)	M	2430	%	0.010								
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.22	0.24	1.5	0.21	0.038	0.019	< 0.010	< 0.010
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Clay	Clay	Clay	Clay	Clay
Magnesium (Water Soluble)	N	2120	g/l	0.010								
Total Sulphur	M	2175	%	0.010								
Chloride (Water Soluble)	M	2220	g/l	0.010								
Nitrate (Extractable) As N	N	2220	mg/kg	1.0								

Results - Soil

Project: C 15340 Paddington Green Police Station

Client: Ground Engineering Limited	Chemtest Job No.:				21-16652	21-16652	21-16652	21-16652	21-16652	21-16652	21-16652	21-16652	21-16652
Quotation No.:	Chemtest Sample ID.:				1203454	1203455	1203456	1203457	1203458	1203459	1203460	1203461	1203462
Order No.: C 15340	Client Sample Ref.:				B12	B13	B15	B16	B18	B20	B22	B24	B26
	Sample Location:				BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				8.40	8.00	10.50	11.50	14.00	19.00	25.00	31.00	37.30
	Bottom Depth (m):				9.00	9.30	11.00	12.00	14.50	19.50	25.50	31.50	37.80
	Date Sampled:				27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	29-Apr-2021
Determinand	Accred.	SOP	Units	LOD									
pH	M	2010		4.0	8.4	8.5	8.6						
pH (2.5:1)	N	2010		4.0				8.3	8.3	8.6	9.0	8.9	8.9
Moisture	N	2030	%	0.020	15	9.6	4.8	17	18	19	19	19	18
Sulphate (Acid Soluble)	M	2430	%	0.010				< 0.010	1.3	1.0	0.92	0.070	0.074
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.069	0.084	0.039	0.013	0.014
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Grey	Grey	Grey	Grey	Grey
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	None	None	None
Soil Texture	N	2040		N/A	Clay	Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Magnesium (Water Soluble)	N	2120	g/l	0.010				< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010				0.013	0.45	0.35	0.32	0.37	0.25
Chloride (Water Soluble)	M	2220	g/l	0.010				< 0.010	0.052	0.047	0.019	0.028	0.029
Nitrate (Extractable) As N	N	2220	mg/kg	1.0				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: C 15340 Paddington Green Police Station

Client: Ground Engineering Limited	Chemtest Job No.:				21-16652	21-16652	21-16652
Quotation No.:	Chemtest Sample ID.:				1203463	1203464	1203465
Order No.: C 15340	Client Sample Ref.:				B28	B30	B31
	Sample Location:				BH2	BH2	BH2
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				43.00	48.00	49.50
	Bottom Depth (m):				43.50	48.50	50.00
	Date Sampled:				29-Apr-2021	30-Apr-2021	30-Apr-2021
Determinand	Accred.	SOP	Units	LOD			
pH	M	2010		4.0			
pH (2.5:1)	N	2010		4.0	8.8	8.2	8.2
Moisture	N	2030	%	0.020	19	19	17
Sulphate (Acid Soluble)	M	2430	%	0.010	1.6	2.1	1.9
Sulphate (2:1 Water Soluble) as SO ₄	M	2120	g/l	0.010	0.022	0.16	0.16
Soil Colour	N	2040		N/A	Grey	Grey	Grey
Other Material	N	2040		N/A	None	None	None
Soil Texture	N	2040		N/A	Clay	Clay	Clay
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010	0.42	0.63	0.61
Chloride (Water Soluble)	M	2220	g/l	0.010	0.033	0.11	0.091
Nitrate (Extractable) As N	N	2220	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 21-24107-1
Initial Date of Issue: 19-Jul-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Steve Fleming
Project C15340 Paddington Green Police
Station

Quotation No.:		Date Received:	14-Jul-2021
Order No.:	C15340	Date Instructed:	14-Jul-2021
No. of Samples:	17		
Turnaround (Wkdays):	5	Results Due:	20-Jul-2021
Date Approved:	19-Jul-2021		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: C15340 Paddington Green Police Station

Client: Ground Engineering Limited	Chemtest Job No.:				21-24107	21-24107	21-24107	21-24107	21-24107	21-24107	21-24107	21-24107	21-24107
Quotation No.:	Chemtest Sample ID.:				1240091	1240092	1240093	1240094	1240095	1240096	1240097	1240098	1240099
Order No.: C15340	Client Sample Ref.:				B1	B2	U1	D1	B3	D2	D3	B6	B8
	Sample Location:				BH1A	BH1A	BH1A	BH1A	BH1A	BH1A	BH1A	BH1A	BH1A
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				4.00	4.50	4.80	5.20	5.50	6.45	7.45	8.10	10.60
	Bottom Depth (m):				4.5	5.00	5.20		6.00			8.60	11.10
	Date Sampled:				29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	30-Jun-2021	30-Jun-2021
Determinand	Accred.	SOP	Units	LOD									
pH	M	2010		4.0	9.6	9.3	9.3	9.2	9.3	9.3	9.2	9.0	8.9
pH (2.5:1)	N	2010		4.0									
Moisture	N	2030	%	0.020	10	15	12	12	12	17	17	11	4.0
Sulphate (Acid Soluble)	M	2430	%	0.010									
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	None	None	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Sand	Sand	Sand	Sand	Sand
Total Sulphur	M	2175	%	0.010									

Results - Soil

Project: C15340 Paddington Green Police Station

Client: Ground Engineering Limited	Chemtest Job No.:				21-24107	21-24107	21-24107	21-24107	21-24107	21-24107	21-24107	21-24107
Quotation No.:	Chemtest Sample ID.:				1240100	1240101	1240102	1240103	1240104	1240105	1240106	1240107
Order No.: C15340	Client Sample Ref.:				D4	D8	D12	D17	D22	D26	D31	D34
	Sample Location:				BH1A	BH1A	BH1A	BH1A	BH1A	BH1A	BH1A	BH1A
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				14.35	19.50	23.45	28.50	34.50	38.45	43.50	47.40
	Bottom Depth (m):											
	Date Sampled:				30-Jun-2021	01-Jul-2021	01-Jul-2021	01-Jul-2021	01-Jul-2021	05-Jul-2021	05-Jul-2021	05-Jul-2021
Determinand	Accred.	SOP	Units	LOD								
pH	M	2010		4.0								
pH (2.5:1)	N	2010		4.0	8.6	8.7	8.9	8.9	8.7	8.8	8.9	8.9
Moisture	N	2030	%	0.020	18	17	16	18	15	17	16	21
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	0.12	0.053	0.064	0.066	0.059	0.020	0.061
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	0.32	0.23	0.18	0.40	0.30	0.10	0.095
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	None	None	None	None	None	None	None
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Total Sulphur	M	2175	%	0.010	0.016	0.95	0.62	0.41	0.68	0.54	0.36	0.53

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

APPENDIX 8 – CHEMICAL LABORATORY TEST RESULTS

SOIL & LEACHATES



Final Report

Report No.: 21-16846-1
Initial Date of Issue: 27-May-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Steve Fleming
Project C15340 Paddington Green Police
Station, London W2

Quotation No.:		Date Received:	20-May-2021
Order No.:	C15340	Date Instructed:	20-May-2021
No. of Samples:	22		
Turnaround (Wkdays):	5	Results Due:	26-May-2021
Date Approved:	27-May-2021		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Leachate

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:					21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:					1204344	1204347	1204351	1204353	1204355	1204358	1204361	1204364
Order No.: C15340	Client Sample Ref.:					ES3	ES2	ES2	ES2	ES3	ES1	ES9	ES7
	Client Sample ID.:					BH2	WS1	WS3	WS4	WS5	WS6	WS7	WS8
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.80	0.80	0.70	0.80	0.70	0.40	2.90	2.35
	Date Sampled:					26-Apr-2021	05-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	05-May-2021
Determinand	Accred.	SOP	Type	Units	LOD								
pH	U	1010	10:1		N/A	9.4	8.5	8.7	8.2	9.1	9.0	9.2	8.6
Ammoniacal Nitrogen	U	1220	10:1	mg/l	0.050	0.072	0.071	0.11	0.14	0.12	0.065	< 0.050	< 0.050
Sulphate	U	1220	10:1	mg/l	1.0	9.3	3.5	32	19	63	30	5.2	1.3
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	7.2	0.92	1.5	0.23	30	8.7	19	6.0
Boron (Dissolved)	U	1455	10:1	µg/l	10.0	< 10	< 10	43	< 10	70	38	24	< 10
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	43	44	39	33	58	40	44	26
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	6.4	2.1	2.7	2.1	26	4.4	4.4	2.7
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	15	19	15	13	26	17	18	11
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	18	1.2	0.80	< 0.50	3.0	1.3	14	0.91
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	3.8	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Total)	N	1455	10:1	µg/l	0.50	43	44	39	33	58	40	44	26
Cadmium (Dissolved)	N	1455	10:1	µg/l	0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Total Organic Carbon	U	1610	10:1	mg/l	2.0	13	3.1	42	2.9	37	14	89	160
Aliphatic TPH >C5-C6	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C6-C8	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C8-C10	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C10-C12	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C12-C16	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C16-C21	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C21-C35	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic TPH >C35-C44	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Total Aliphatic Hydrocarbons	N	1675	10:1	µg/l	5.0	[B] < 5.0	[B] < 5.0	< 5.0	< 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aromatic TPH >C7-C8	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aromatic TPH >C8-C10	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aromatic TPH >C10-C12	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aromatic TPH >C12-C16	N	1675	10:1	µg/l	0.10	[B] 15	[B] 86	52	58	[B] 44	[B] 35	[B] 29	[B] 6.6
Aromatic TPH >C16-C21	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aromatic TPH >C21-C35	N	1675	10:1	µg/l	0.10	[B] < 0.10	[B] < 0.10	< 0.10	< 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Total Aromatic Hydrocarbons	N	1675	10:1	µg/l	5.0	[B] 15	[B] 86	52	58	[B] 44	[B] 35	[B] 29	[B] 6.6
Total Petroleum Hydrocarbons	N	1675	10:1	µg/l	10	[B] 15	[B] 86	52	58	[B] 44	[B] 35	[B] 29	[B] < 10
Naphthalene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Leachate

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:						21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:						1204344	1204347	1204351	1204353	1204355	1204358	1204364
Order No.: C15340	Client Sample Ref.:						ES3	ES2	ES2	ES2	ES3	ES1	ES9
	Client Sample ID.:						BH2	WS1	WS3	WS4	WS5	WS6	WS7
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						0.80	0.80	0.70	0.80	0.70	0.40	2.90
	Date Sampled:						26-Apr-2021	05-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	05-May-2021
Determinand	Accred.	SOP	Type	Units	LOD								
Fluoranthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	10:1	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	10:1	µg/l	1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204344	1204345	1204346	1204347	1204348	1204349	1204350	1204351
Order No.: C15340	Client Sample Ref.:				ES3	ES5	ES11	ES2	ES4	ES1	ES2	ES2
	Client Sample ID.:				BH2	BH2	BH2	WS1	WS1	WS2	WS2	WS3
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.80	1.50	4.30	0.80	1.50	0.40	1.05	0.70
	Date Sampled:				26-Apr-2021	27-Apr-2021	27-Apr-2021	05-May-2021	05-May-2021	05-May-2021	13-May-2021	06-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
pH	M	2010		4.0	9.1	8.5	8.2	8.1	8.1	10.1	8.5	8.4
Moisture	N	2030	%	0.020	16	18	18	4.8	9.2	12	15	11
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.052	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	23	15	4.4	6.5	2.0	7.2	2.3	5.7
Cadmium	M	2450	mg/kg	0.10	1.1	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	36	19	18	22	17	24	23	22
Copper	M	2450	mg/kg	0.50	87	84	8.5	12	6.9	35	15	13
Mercury	M	2450	mg/kg	0.10	1.4	1.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	26	22	15	18	14	18	28	22
Lead	M	2450	mg/kg	0.50	3500	340	23	20	6.7	24	7.9	11
Selenium	M	2450	mg/kg	0.20	0.27	0.30	< 0.20	0.24	< 0.20	< 0.20	< 0.20	0.25
Zinc	M	2450	mg/kg	0.50	1100	110	32	32	22	33	43	38
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	< 0.40	< 0.40	< 0.40	0.41	0.45	< 0.40	4.0	4.7
Acenaphthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Acenaphthene	M	2700	mg/kg	0.10	0.49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Acenaphthylene	M	2700	mg/kg	0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Anthracene	M	2700	mg/kg	0.10	0.99	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2790	mg/kg	0.50	[B] 0.72			[B] < 0.50	[B] < 0.50			< 0.50
Benzo[a]anthracene	M	2700	mg/kg	0.10	2.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Benzo[a]pyrene	M	2700	mg/kg	0.10	2.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	2.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2790	mg/kg	0.50	[B] 0.72			[B] < 0.50	[B] < 0.50			< 0.50
Chrysene	M	2700	mg/kg	0.10	2.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.56	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2790	mg/kg	0.50	[B] 1.2			[B] < 0.50	[B] < 0.50			< 0.50

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204344	1204345	1204346	1204347	1204348	1204349	1204350	1204351
Order No.: C15340	Client Sample Ref.:				ES3	ES5	ES11	ES2	ES4	ES1	ES2	ES2
	Client Sample ID.:				BH2	BH2	BH2	WS1	WS1	WS2	WS2	WS3
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.80	1.50	4.30	0.80	1.50	0.40	1.05	0.70
	Date Sampled:				26-Apr-2021	27-Apr-2021	27-Apr-2021	05-May-2021	05-May-2021	05-May-2021	13-May-2021	06-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Fluoranthene	M	2700	mg/kg	0.10	4.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Fluorene	M	2700	mg/kg	0.10	0.51	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	1.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50			< 0.50
Naphthalene	M	2700	mg/kg	0.10	0.36	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2790	mg/kg	0.50	[B] 0.68			[B] < 0.50	[B] < 0.50			< 0.50
Phenanthrene	M	2700	mg/kg	0.10	3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2790	mg/kg	0.50	[B] 1.3			[B] < 0.50	[B] < 0.50			< 0.50
Pyrene	M	2700	mg/kg	0.10	4.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	29	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	0.33	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-	-	-
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	None	Stones	None	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Clay	Clay	Sand	Sand	Clay	Sand
Barium	M	2450	mg/kg	10	810	150	32	33	16	50	50	30
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0	< 1.0

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204344	1204345	1204346	1204347	1204348	1204349	1204350	1204351
Order No.: C15340	Client Sample Ref.:		ES3	ES5	ES11	ES2	ES4	ES1	ES2	ES2
	Client Sample ID.:		BH2	BH2	BH2	WS1	WS1	WS2	WS2	WS3
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.80	1.50	4.30	0.80	1.50	0.40	1.05	0.70
	Date Sampled:		26-Apr-2021	27-Apr-2021	27-Apr-2021	05-May-2021	05-May-2021	05-May-2021	13-May-2021	06-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD						
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10	[B] < 10	[B] < 10	[B] < 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Chloromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Bromomethane	M	2760	µg/kg	20	[B] < 20		[B] < 20	[B] < 20		< 20
Chloroethane	U	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	[B] < 2.0		< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	[B] < 5.0		[B] < 5.0	[B] < 5.0		< 5.0
Trichloromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Benzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	[B] < 2.0		< 2.0
Trichloroethene	N	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Dibromomethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0	[B] < 5.0		[B] < 5.0	[B] < 5.0		< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	[B] < 10		[B] < 10	[B] < 10		< 10
Toluene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	[B] < 10		[B] < 10	[B] < 10		< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	[B] < 10		[B] < 10	[B] < 10		< 10
Tetrachloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	[B] < 2.0		< 2.0
Dibromochloromethane	U	2760	µg/kg	10	[B] < 10		[B] < 10	[B] < 10		< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0	[B] < 5.0		[B] < 5.0	[B] < 5.0		< 5.0
Chlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	[B] < 2.0		< 2.0
Ethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204344	1204345	1204346	1204347	1204348	1204349	1204350	1204351
Order No.: C15340	Client Sample Ref.:		ES3	ES5	ES11	ES2	ES4	ES1	ES2	ES2
	Client Sample ID.:		BH2	BH2	BH2	WS1	WS1	WS2	WS2	WS3
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.80	1.50	4.30	0.80	1.50	0.40	1.05	0.70
	Date Sampled:		26-Apr-2021	27-Apr-2021	27-Apr-2021	05-May-2021	05-May-2021	05-May-2021	13-May-2021	06-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD						
o-Xylene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Styrene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Tribromomethane	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Bromobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	[B] < 50		[B] < 50	[B] < 50		< 50
N-Propylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	[B] < 50		[B] < 50	[B] < 50		< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	[B] < 2.0		< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0		< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Phenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Isophorone	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204344	1204345	1204346	1204347	1204348	1204349	1204350	1204351
Order No.: C15340	Client Sample Ref.:		ES3	ES5	ES11	ES2	ES4	ES1	ES2	ES2
	Client Sample ID.:		BH2	BH2	BH2	WS1	WS1	WS2	WS2	WS3
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.80	1.50	4.30	0.80	1.50	0.40	1.05	0.70
	Date Sampled:		26-Apr-2021	27-Apr-2021	27-Apr-2021	05-May-2021	05-May-2021	05-May-2021	13-May-2021	06-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD						
2-Nitrophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Azobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Carbazole	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50		< 0.50
PCB 28	U	2815	mg/kg	0.010						
PCB 52	U	2815	mg/kg	0.010						
PCB 90+101	U	2815	mg/kg	0.010						
PCB 118	U	2815	mg/kg	0.010						

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204344	1204345	1204346	1204347	1204348	1204349	1204350	1204351
Order No.: C15340	Client Sample Ref.:				ES3	ES5	ES11	ES2	ES4	ES1	ES2	ES2
	Client Sample ID.:				BH2	BH2	BH2	WS1	WS1	WS2	WS2	WS3
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.80	1.50	4.30	0.80	1.50	0.40	1.05	0.70
	Date Sampled:				26-Apr-2021	27-Apr-2021	27-Apr-2021	05-May-2021	05-May-2021	05-May-2021	13-May-2021	06-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
PCB 153	U	2815	mg/kg	0.010								
PCB 138	U	2815	mg/kg	0.010								
PCB 180	U	2815	mg/kg	0.010								
Total PCBs (7 Congeners)	U	2815	mg/kg	0.10								
Resorcinol	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Phenol	M	2920	mg/kg	0.020	0.33	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Cresols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylenols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trimethylphenols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204352	1204353	1204354	1204355	1204356	1204357	1204358	1204359
Order No.: C15340	Client Sample Ref.:				ES5	ES2	ES4	ES3	ES5	ES11	ES1	ES10
	Client Sample ID.:				WS3	WS4	WS4	WS5	WS5	WS5	WS6	WS6
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.80	0.80	1.40	0.70	1.30	4.25	0.40	4.00
	Date Sampled:				06-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
pH	M	2010		4.0	6.5	7.6	7.8	10.1	8.6	8.1	8.6	8.2
Moisture	N	2030	%	0.020	13	4.1	13	9.9	14	15	15	14
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.028	< 0.010	< 0.010	0.044	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Arsenic	M	2450	mg/kg	1.0	4.0	19	< 1.0	14	10	6.6	15	1.8
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.19	0.15	0.11	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	25	34	32	27	23	25	22	25
Copper	M	2450	mg/kg	0.50	16	16	18	57	32	19	41	15
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.4	0.56	< 0.10	2.2	< 0.10
Nickel	M	2450	mg/kg	0.50	26	30	35	21	21	33	20	33
Lead	M	2450	mg/kg	0.50	9.3	9.2	12	350	94	9.8	270	11
Selenium	M	2450	mg/kg	0.20	0.29	0.39	< 0.20	0.20	0.41	0.31	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	48	33	63	110	51	52	43	47
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	14	< 0.40	1.4	< 0.40	1.9	0.88	0.53	1.5
Acenaphthene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204352	1204353	1204354	1204355	1204356	1204357	1204358	1204359
Order No.: C15340	Client Sample Ref.:				ES5	ES2	ES4	ES3	ES5	ES11	ES1	ES10
	Client Sample ID.:				WS3	WS4	WS4	WS5	WS5	WS5	WS6	WS6
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.80	0.80	1.40	0.70	1.30	4.25	0.40	4.00
	Date Sampled:				06-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.50	< 0.10	< 0.10	< 0.10	< 0.10
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-	-	-
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Clay	Sand	Clay	Clay	Sand	Clay
Barium	M	2450	mg/kg	10	52	30	47	83	78	45	110	50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] 45	[B] 150	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] 830	[B] 2200	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] 62	[B] 180	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	[B] 940	[B] 2500	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] 210	[B] 260	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204352	1204353	1204354	1204355	1204356	1204357	1204358	1204359
Order No.: C15340	Client Sample Ref.:		ES5	ES2	ES4	ES3	ES5	ES11	ES1	ES10
	Client Sample ID.:		WS3	WS4	WS4	WS5	WS5	WS5	WS6	WS6
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		1.80	0.80	1.40	0.70	1.30	4.25	0.40	4.00
	Date Sampled:		06-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD						
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] 3800	[B] 3800	[B] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	[B] 370	[B] 370	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	[B] 4300	[B] 4400	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	[B] 5300	[B] 6900	[B] < 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Chloromethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Bromomethane	M	2760	µg/kg	20		< 20		[B] < 20		[B] < 20
Chloroethane	U	2760	µg/kg	2.0		< 2.0		[B] < 2.0		[B] < 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0		[B] < 5.0		[B] < 5.0
Trichloromethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Benzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0		[B] < 2.0		[B] < 2.0
Trichloroethene	N	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Dibromomethane	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0		[B] < 5.0		[B] < 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		[B] < 10		[B] < 10
Toluene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		[B] < 10		[B] < 10
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10		[B] < 10		[B] < 10
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0		[B] < 2.0		[B] < 2.0
Dibromochloromethane	U	2760	µg/kg	10		< 10		[B] < 10		[B] < 10
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0		[B] < 5.0		[B] < 5.0
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0		[B] < 2.0		[B] < 2.0
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0		[B] < 1.0

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204352	1204353	1204354	1204355	1204356	1204357	1204358	1204359
Order No.: C15340	Client Sample Ref.:				ES5	ES2	ES4	ES3	ES5	ES11	ES1	ES10
	Client Sample ID.:				WS3	WS4	WS4	WS5	WS5	WS5	WS6	WS6
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.80	0.80	1.40	0.70	1.30	4.25	0.40	4.00
	Date Sampled:				06-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
o-Xylene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Styrene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Tribromomethane	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Bromobenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		[B] < 50			[B] < 50	[B] < 50
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		[B] < 50			[B] < 50	[B] < 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0		[B] < 2.0			[B] < 2.0	[B] < 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Phenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2-Chlorophenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2-Methylphenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Hexachloroethane	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Methylphenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Nitrobenzene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Isophorone	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204352	1204353	1204354	1204355	1204356	1204357	1204358	1204359
Order No.: C15340	Client Sample Ref.:				ES5	ES2	ES4	ES3	ES5	ES11	ES1	ES10
	Client Sample ID.:				WS3	WS4	WS4	WS5	WS5	WS5	WS6	WS6
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.80	0.80	1.40	0.70	1.30	4.25	0.40	4.00
	Date Sampled:				06-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
2-Nitrophenol	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Chloroaniline	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Nitrophenol	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2-Nitroaniline	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Dimethylphthalate	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
3-Nitroaniline	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Dibenzofuran	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Nitroaniline	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Azobenzene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Pentachlorophenol	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Carbazole	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Butylbenzyl Phthalate	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50		< 0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50
PCB 28	U	2815	mg/kg	0.010								
PCB 52	U	2815	mg/kg	0.010								
PCB 90+101	U	2815	mg/kg	0.010								
PCB 118	U	2815	mg/kg	0.010								

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204352	1204353	1204354	1204355	1204356	1204357	1204358	1204359
Order No.: C15340	Client Sample Ref.:				ES5	ES2	ES4	ES3	ES5	ES11	ES1	ES10
	Client Sample ID.:				WS3	WS4	WS4	WS5	WS5	WS5	WS6	WS6
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.80	0.80	1.40	0.70	1.30	4.25	0.40	4.00
	Date Sampled:				06-May-2021	06-May-2021	06-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
PCB 153	U	2815	mg/kg	0.010								
PCB 138	U	2815	mg/kg	0.010								
PCB 180	U	2815	mg/kg	0.010								
Total PCBs (7 Congeners)	U	2815	mg/kg	0.10								
Resorcinol	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Phenol	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Cresols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylenols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	0.40	< 0.020	< 0.020	< 0.020	< 0.020
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	0.095	< 0.020	< 0.020	< 0.020	< 0.020
Trimethylphenols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:				1204360	1204361	1204362	1204363	1204364	1204365
Order No.: C15340	Client Sample Ref.:				ES2	ES9	ES10	ES2	ES7	ES12
	Client Sample ID.:				WS7	WS7	WS7	WS8	WS8	WS8
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.50	2.90	3.60	0.60	2.35	4.80
	Date Sampled:				04-May-2021	04-May-2021	04-May-2021	05-May-2021	05-May-2021	05-May-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD						
pH	M	2010		4.0	9.9	9.1	8.9	9.9	8.8	8.8
Moisture	N	2030	%	0.020	7.3	12	8.5	9.4	16	13
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Arsenic	M	2450	mg/kg	1.0	17	15	15	20	17	14
Cadmium	M	2450	mg/kg	0.10	0.74	< 0.10	< 0.10	1.3	0.12	< 0.10
Chromium	M	2450	mg/kg	1.0	26	28	27	29	31	42
Copper	M	2450	mg/kg	0.50	81	28	28	38	34	17
Mercury	M	2450	mg/kg	0.10	0.66	0.32	0.41	1.1	0.39	0.13
Nickel	M	2450	mg/kg	0.50	25	23	22	23	23	20
Lead	M	2450	mg/kg	0.50	560	150	110	120	49	50
Selenium	M	2450	mg/kg	0.20	< 0.20	0.30	< 0.20	< 0.20	0.26	0.41
Zinc	M	2450	mg/kg	0.50	230	50	90	150	58	47
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	< 0.40	1.6	0.50	0.62	1.7	0.41
Acenaphthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2790	mg/kg	0.50	[B] < 0.50			[B] < 0.50		

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:					21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:					1204360	1204361	1204362	1204363	1204364	1204365
Order No.: C15340	Client Sample Ref.:					ES2	ES9	ES10	ES2	ES7	ES12
	Client Sample ID.:					WS7	WS7	WS7	WS8	WS8	WS8
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	2.90	3.60	0.60	2.35	4.80
	Date Sampled:					04-May-2021	04-May-2021	04-May-2021	05-May-2021	05-May-2021	05-May-2021
	Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
Fluoranthene	M	2700	mg/kg	0.10	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2790	mg/kg	0.50	[B] < 0.50				[B] < 0.50		
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	[B] < 0.50				[B] < 0.50		
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	M	2790	mg/kg	0.50	[B] < 0.50				[B] < 0.50		
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2790	mg/kg	0.50	[B] < 0.50				[B] < 0.50		
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2790	mg/kg	0.50	[B] < 0.50				[B] < 0.50		
Pyrene	M	2700	mg/kg	0.10	0.33	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
ACM Type	U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-	-
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Clay	Clay	Clay
Barium	M	2450	mg/kg	10	240	55	79	110	99	45	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204360	1204361	1204362	1204363	1204364	1204365
Order No.: C15340	Client Sample Ref.:		ES2	ES9	ES10	ES2	ES7	ES12
	Client Sample ID.:		WS7	WS7	WS7	WS8	WS8	WS8
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.50	2.90	3.60	0.60	2.35	4.80
	Date Sampled:		04-May-2021	04-May-2021	04-May-2021	05-May-2021	05-May-2021	05-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10	[B] < 10	[B] < 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Chloromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Vinyl Chloride	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Bromomethane	M	2760	µg/kg	20	[B] < 20		[B] < 20	
Chloroethane	U	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,1-Dichloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Bromochloromethane	U	2760	µg/kg	5.0	[B] < 5.0		[B] < 5.0	
Trichloromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Tetrachloromethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Benzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2-Dichloroethane	M	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	
Trichloroethene	N	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Dibromomethane	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Bromodichloromethane	M	2760	µg/kg	5.0	[B] < 5.0		[B] < 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	[B] < 10		[B] < 10	
Toluene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	[B] < 10		[B] < 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10	[B] < 10		[B] < 10	
Tetrachloroethene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	
Dibromochloromethane	U	2760	µg/kg	10	[B] < 10		[B] < 10	
1,2-Dibromoethane	M	2760	µg/kg	5.0	[B] < 5.0		[B] < 5.0	
Chlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	
Ethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
m & p-Xylene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204360	1204361	1204362	1204363	1204364	1204365
Order No.: C15340	Client Sample Ref.:		ES2	ES9	ES10	ES2	ES7	ES12
	Client Sample ID.:		WS7	WS7	WS7	WS8	WS8	WS8
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.50	2.90	3.60	0.60	2.35	4.80
	Date Sampled:		04-May-2021	04-May-2021	04-May-2021	05-May-2021	05-May-2021	05-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
o-Xylene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Styrene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Tribromomethane	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Isopropylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Bromobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50	[B] < 50		[B] < 50	
N-Propylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
2-Chlorotoluene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
4-Chlorotoluene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Tert-Butylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Sec-Butylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
4-Isopropyltoluene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
N-Butylbenzene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	[B] < 50		[B] < 50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
Hexachlorobutadiene	U	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	[B] < 2.0		[B] < 2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Phenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2-Chlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2-Methylphenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Hexachloroethane	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Methylphenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Nitrobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Isophorone	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:		21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:		1204360	1204361	1204362	1204363	1204364	1204365
Order No.: C15340	Client Sample Ref.:		ES2	ES9	ES10	ES2	ES7	ES12
	Client Sample ID.:		WS7	WS7	WS7	WS8	WS8	WS8
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.50	2.90	3.60	0.60	2.35	4.80
	Date Sampled:		04-May-2021	04-May-2021	04-May-2021	05-May-2021	05-May-2021	05-May-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
2-Nitrophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2,4-Dichlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Hexachlorobutadiene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2-Methylnaphthalene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2-Chloronaphthalene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2-Nitroaniline	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Dimethylphthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Dibenzofuran	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Diethyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Nitroaniline	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Azobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Hexachlorobenzene	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Carbazole	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	[B] < 0.50		[B] < 0.50	
PCB 28	U	2815	mg/kg	0.010	< 0.010			
PCB 52	U	2815	mg/kg	0.010	< 0.010			
PCB 90+101	U	2815	mg/kg	0.010	< 0.010			
PCB 118	U	2815	mg/kg	0.010	< 0.010			

Results - Soil

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:					21-16846	21-16846	21-16846	21-16846	21-16846	21-16846
Quotation No.:	Chemtest Sample ID.:					1204360	1204361	1204362	1204363	1204364	1204365
Order No.: C15340	Client Sample Ref.:					ES2	ES9	ES10	ES2	ES7	ES12
	Client Sample ID.:					WS7	WS7	WS7	WS8	WS8	WS8
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	2.90	3.60	0.60	2.35	4.80
	Date Sampled:					04-May-2021	04-May-2021	04-May-2021	05-May-2021	05-May-2021	05-May-2021
	Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
PCB 153	U	2815	mg/kg	0.010	< 0.010						
PCB 138	U	2815	mg/kg	0.010	< 0.010						
PCB 180	U	2815	mg/kg	0.010	< 0.010						
Total PCBs (7 Congeners)	U	2815	mg/kg	0.10	< 0.10						
Resorcinol	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Phenol	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Cresols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylenols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trimethylphenols	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1204344	ES3	BH2		26-Apr-2021	B	Amber Glass 250ml
1204344	ES3	BH2		26-Apr-2021	B	Plastic Tub 500g
1204345	ES5	BH2		27-Apr-2021	B	Amber Glass 250ml
1204345	ES5	BH2		27-Apr-2021	B	Plastic Tub 500g
1204346	ES11	BH2		27-Apr-2021	B	Amber Glass 250ml
1204346	ES11	BH2		27-Apr-2021	B	Plastic Tub 500g
1204347	ES2	WS1		05-May-2021	B	Amber Glass 250ml
1204347	ES2	WS1		05-May-2021	B	Plastic Tub 500g
1204348	ES4	WS1		05-May-2021	B	Amber Glass 250ml
1204348	ES4	WS1		05-May-2021	B	Plastic Tub 500g
1204349	ES1	WS2		05-May-2021	B	Amber Glass 250ml
1204349	ES1	WS2		05-May-2021	B	Plastic Tub 500g
1204355	ES3	WS5		04-May-2021	B	Amber Glass 250ml
1204355	ES3	WS5		04-May-2021	B	Plastic Tub 500g
1204356	ES5	WS5		04-May-2021	B	Amber Glass 250ml
1204356	ES5	WS5		04-May-2021	B	Plastic Tub 500g
1204357	ES11	WS5		04-May-2021	B	Amber Glass 250ml
1204357	ES11	WS5		04-May-2021	B	Plastic Tub 500g
1204358	ES1	WS6		04-May-2021	B	Amber Glass 250ml
1204358	ES1	WS6		04-May-2021	B	Plastic Tub 500g
1204359	ES10	WS6		04-May-2021	B	Amber Glass 250ml
1204359	ES10	WS6		04-May-2021	B	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1204360	ES2	WS7		04-May-2021	B	Amber Glass 250ml
1204360	ES2	WS7		04-May-2021	B	Plastic Tub 500g
1204361	ES9	WS7		04-May-2021	B	Amber Glass 250ml
1204361	ES9	WS7		04-May-2021	B	Plastic Tub 500g
1204362	ES10	WS7		04-May-2021	B	Amber Glass 250ml
1204362	ES10	WS7		04-May-2021	B	Plastic Tub 500g
1204363	ES2	WS8		05-May-2021	B	Amber Glass 250ml
1204363	ES2	WS8		05-May-2021	B	Plastic Tub 500g
1204364	ES7	WS8		05-May-2021	B	Amber Glass 250ml
1204364	ES7	WS8		05-May-2021	B	Plastic Tub 500g
1204365	ES12	WS8		05-May-2021	B	Amber Glass 250ml
1204365	ES12	WS8		05-May-2021	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.

Test Methods

SOP	Title	Parameters included	Method summary
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 21-24409-1
Initial Date of Issue: 28-Jul-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Ashley Murdoch
Steve Fleming
Project C15340 Paddington Green Police
Station

Quotation No.:		Date Received:	16-Jul-2021
Order No.:	C15340	Date Instructed:	16-Jul-2021
No. of Samples:	2		
Turnaround (Wkdays):	9	Results Due:	28-Jul-2021
Date Approved:	28-Jul-2021		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: C15340 Paddington Green Police Station

Client: Ground Engineering Limited		Chemtest Job No.:			21-24409	21-24409
Quotation No.:		Chemtest Sample ID.:			1241487	1241488
Order No.: C15340		Client Sample Ref.:			ES 1	ES 2
		Sample Location:			BH1 A	BH1 A
		Sample Type:			SOIL	SOIL
		Top Depth (m):			4.00	4.50
		Date Sampled:			29-Jun-2021	29-Jun-2021
		Asbestos Lab:			DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
pH	M	2010		4.0	10.9	8.8
Moisture	N	2030	%	0.020	3.1	2.7
Boron	N	2450	mg/kg	0.40	7.9	5.2
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.28	0.029
Cyanide (Total)	M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50
Arsenic	M	2450	mg/kg	1.0	9.0	4.0
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	28	27
Copper	M	2450	mg/kg	0.50	20	14
Mercury	M	2450	mg/kg	0.10	0.32	0.10
Nickel	M	2450	mg/kg	0.50	21	17
Lead	M	2450	mg/kg	0.50	40	12
Selenium	M	2450	mg/kg	0.20	< 0.20	
Zinc	M	2450	mg/kg	0.50	55	44
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	
Organic Matter	M	2625	%	0.40	1.4	< 0.40
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Soil Colour	N	2040		N/A	Brown	Brown

Results - Soil

Project: C15340 Paddington Green Police Station

Client: Ground Engineering Limited	Chemtest Job No.:				21-24409	21-24409
Quotation No.:	Chemtest Sample ID.:				1241487	1241488
Order No.: C15340	Client Sample Ref.:				ES 1	ES 2
	Sample Location:				BH1 A	BH1 A
	Sample Type:				SOIL	SOIL
	Top Depth (m):				4.00	4.50
	Date Sampled:				29-Jun-2021	29-Jun-2021
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Other Material	N	2040		N/A	None	None
Soil Texture	N	2040		N/A	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] 70	[B] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[B] 110	[B] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	[B] 7.9	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] 190	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[B] 16	[B] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] 16	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] 210	[B] < 10
Resorcinol	M	2920	mg/kg	0.020	< 0.020	
Phenol	M	2920	mg/kg	0.020	< 0.020	
Cresols	M	2920	mg/kg	0.020	< 0.020	
Xylenols	M	2920	mg/kg	0.020	< 0.020	
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	
Trimethylphenols	M	2920	mg/kg	0.020	< 0.020	

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1241487	ES 1		BH1 A	29-Jun-2021	B	Amber Glass 250ml
1241487	ES 1		BH1 A	29-Jun-2021	B	Amber Glass 60ml
1241487	ES 1		BH1 A	29-Jun-2021	B	Plastic Tub 500g
1241488	ES 2		BH1 A	29-Jun-2021	B	Amber Glass 250ml
1241488	ES 2		BH1 A	29-Jun-2021	B	Amber Glass 60ml
1241488	ES 2		BH1 A	29-Jun-2021	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

APPENDIX 9 – CHEMICAL LABORATORY TEST RESULTS

WAC TESTS



Final Report

Report No.: 21-16834-1
Initial Date of Issue: 28-May-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Steve Fleming
Project C15340 Paddington Green Police
Station, London W2

Quotation No.:		Date Received:	20-May-2021
Order No.:	C15340	Date Instructed:	20-May-2021
No. of Samples:	6		
Turnaround (Wkdays):	7	Results Due:	28-May-2021
Date Approved:	28-May-2021		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - 2 Stage WAC

Project: C15340 Paddington Green Police Station, London W2

Chemtest Job No: 21-16834							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1204304							Limits			
Sample Ref: ES3							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: BH2										
Sample Location:										
Top Depth(m): 0.80										
Bottom Depth(m):										
Sampling Date: 26-Apr-2021										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				< 0.20	3	5	6
Loss On Ignition	2610	M	%				3.7	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] 190	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				13	100	--	--
pH	2010	M					8.7	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.076	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0074	0.0082	0.015	0.081	0.5	2	25	
Barium	1455	U	0.081	0.059	0.16	0.62	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.088	0.094	0.17	0.93	0.5	10	70	
Copper	1455	U	0.012	0.0087	0.023	0.014	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.014	0.0042	0.028	0.054	0.5	10	30	
Nickel	1455	U	0.038	0.037	0.075	0.37	0.4	10	40	
Lead	1455	U	0.016	0.031	0.032	0.29	0.5	10	50	
Antimony	1455	U	0.021	0.0061	0.041	0.078	0.06	0.7	5	
Selenium	1455	U	0.0018	0.0010	0.0035	0.011	0.1	0.5	7	
Zinc	1455	U	0.007	0.007	0.014	0.068	4	50	200	
Chloride	1220	U	4.3	1.7	< 10	20	800	15000	25000	
Fluoride	1220	U	0.67	0.20	1.3	2.5	10	150	500	
Sulphate	1220	U	43	9.5	85	130	1000	20000	50000	
Total Dissolved Solids	1020	N	170	72	330	830	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	13	5.3	< 50	62	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

Leachate Test Information	
Leachant volume 1st extract/l	0.320
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.204

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: C15340 Paddington Green Police Station, London W2

Chemtest Job No: 21-16834							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1204305							Limits			
Sample Ref: ES11							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: BH2										
Sample Location:										
Top Depth(m): 4.30										
Bottom Depth(m):										
Sampling Date: 27-Apr-2021										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				< 0.20	3	5	6
Loss On Ignition	2610	M	%				2.0	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					8.5	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.020	--	To evaluate	To evaluate			
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0004	0.0007	0.0007	0.0071	0.5	2	25	
Barium	1455	U	0.020	0.005	0.040	0.059	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.091	0.088	0.18	0.88	0.5	10	70	
Copper	1455	U	0.0034	0.0038	0.0066	0.0017	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.0029	0.0030	0.0057	0.030	0.5	10	30	
Nickel	1455	U	0.039	0.039	0.075	0.38	0.4	10	40	
Lead	1455	U	0.0006	0.0005	0.0011	0.0050	0.5	10	50	
Antimony	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.06	0.7	5	
Selenium	1455	U	0.0016	0.0006	0.0032	0.0061	0.1	0.5	7	
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200	
Chloride	1220	U	27	6.9	53	79	800	15000	25000	
Fluoride	1220	U	0.44	0.37	< 1.0	3.7	10	150	500	
Sulphate	1220	U	46	11	90	130	1000	20000	50000	
Total Dissolved Solids	1020	N	190	63	370	690	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	4.1	6.1	< 50	60	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	19

Leachate Test Information	
Leachant volume 1st extract/l	0.309
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.086

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: C15340 Paddington Green Police Station, London W2

Chemtest Job No: 21-16834							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1204306							Limits			
Sample Ref: ES2							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: WS1										
Sample Location:										
Top Depth(m): 0.80										
Bottom Depth(m):										
Sampling Date: 05-May-2021										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				< 0.20	3	5	6
Loss On Ignition	2610	M	%				2.4	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					7.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0030	--	To evaluate	To evaluate			
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0003	0.0014	0.0005	0.014	0.5	2	25	
Barium	1455	U	0.021	0.011	0.041	0.11	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.092	0.094	0.18	0.94	0.5	10	70	
Copper	1455	U	0.0051	0.0043	0.010	0.0040	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.0030	0.0026	0.0060	0.026	0.5	10	30	
Nickel	1455	U	0.040	0.040	0.080	0.40	0.4	10	40	
Lead	1455	U	< 0.0005	0.0015	< 0.0005	0.014	0.5	10	50	
Antimony	1455	U	0.0006	< 0.0005	0.0012	< 0.0005	0.06	0.7	5	
Selenium	1455	U	0.0006	< 0.0005	0.0012	< 0.0005	0.1	0.5	7	
Zinc	1455	U	0.008	0.003	0.015	0.030	4	50	200	
Chloride	1220	U	3.9	1.7	< 10	19	800	15000	25000	
Fluoride	1220	U	0.14	0.17	< 1.0	1.7	10	150	500	
Sulphate	1220	U	39	7.4	78	99	1000	20000	50000	
Total Dissolved Solids	1020	N	120	35	250	420	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	4.8	3.5	< 50	< 50	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	10

Leachate Test Information	
Leachant volume 1st extract/l	0.330
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.136

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: C15340 Paddington Green Police Station, London W2

Chemtest Job No: 21-16834							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1204307							Limits			
Sample Ref: ES4							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: WS1										
Sample Location:										
Top Depth(m): 1.50										
Bottom Depth(m):										
Sampling Date: 05-May-2021										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				< 0.20	3	5	6
Loss On Ignition	2610	M	%				1.9	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					7.7	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				< 0.0020	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0009	0.0018	0.0017	0.018	0.5	2	25	
Barium	1455	U	0.007	< 0.005	0.013	0.0032	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.085	0.090	0.17	0.90	0.5	10	70	
Copper	1455	U	0.0039	0.0045	0.0077	0.0019	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.0056	0.0034	0.011	0.035	0.5	10	30	
Nickel	1455	U	0.036	0.040	0.072	0.39	0.4	10	40	
Lead	1455	U	< 0.0005	0.0013	< 0.0005	0.012	0.5	10	50	
Antimony	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.06	0.7	5	
Selenium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	0.5	7	
Zinc	1455	U	< 0.003	0.004	< 0.003	0.041	4	50	200	
Chloride	1220	U	3.9	< 1.0	< 10	< 10	800	15000	25000	
Fluoride	1220	U	0.19	0.18	< 1.0	1.8	10	150	500	
Sulphate	1220	U	25	2.4	50	35	1000	20000	50000	
Total Dissolved Solids	1020	N	98	17	190	210	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	5.7	3.2	< 50	< 50	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	11

Leachate Test Information	
Leachant volume 1st extract/l	0.328
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.085

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: C15340 Paddington Green Police Station, London W2

Chemtest Job No: 21-16834							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1204308							Limits			
Sample Ref: ES1							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: WS6										
Sample Location:										
Top Depth(m): 0.40										
Bottom Depth(m):										
Sampling Date: 04-May-2021										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.62	3	5	6
Loss On Ignition	2610	M	%				2.9	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					8.2	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.032	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0076	0.0048	0.015	0.051	0.5	2	25	
Barium	1455	U	0.007	< 0.005	0.015	0.0090	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.090	0.077	0.18	0.79	0.5	10	70	
Copper	1455	U	0.0054	0.0058	0.011	0.0070	2	50	100	
Mercury	1455	U	< 0.00005	0.00007	< 0.00005	0.00058	0.01	0.2	2	
Molybdenum	1455	U	0.0061	0.0034	0.012	0.037	0.5	10	30	
Nickel	1455	U	0.039	0.033	0.076	0.33	0.4	10	40	
Lead	1455	U	< 0.0005	0.0026	< 0.0005	0.023	0.5	10	50	
Antimony	1455	U	0.0006	0.0005	0.0012	0.0054	0.06	0.7	5	
Selenium	1455	U	0.0007	< 0.0005	0.0013	0.0008	0.1	0.5	7	
Zinc	1455	U	< 0.003	0.005	< 0.003	0.042	4	50	200	
Chloride	1220	U	3.6	< 1.0	< 10	< 10	800	15000	25000	
Fluoride	1220	U	0.11	0.10	< 1.0	1.0	10	150	500	
Sulphate	1220	U	33	6.4	65	96	1000	20000	50000	
Total Dissolved Solids	1020	N	160	61	320	730	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	10	4.7	< 50	53	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	13

Leachate Test Information	
Leachant volume 1st extract/l	0.325
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.210

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: C15340 Paddington Green Police Station, London W2

Chemtest Job No: 21-16834							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1204309							Limits			
Sample Ref: ES6							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: WS6										
Sample Location:										
Top Depth(m): 2.00										
Bottom Depth(m):										
Sampling Date: 04-May-2021										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.50	3	5	6
Loss On Ignition	2610	M	%				2.0	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					8.4	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.027	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0008	0.0008	0.0015	0.0080	0.5	2	25	
Barium	1455	U	0.039	0.029	0.078	0.30	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.084	0.071	0.17	0.72	0.5	10	70	
Copper	1455	U	0.0041	0.0032	0.0081	0.0037	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.014	0.014	0.029	0.14	0.5	10	30	
Nickel	1455	U	0.037	0.031	0.074	0.32	0.4	10	40	
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50	
Antimony	1455	U	0.0006	< 0.0005	0.0011	0.0005	0.06	0.7	5	
Selenium	1455	U	0.0011	0.0006	0.0022	0.0066	0.1	0.5	7	
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200	
Chloride	1220	U	7.5	1.2	15	18	800	15000	25000	
Fluoride	1220	U	0.67	0.58	1.3	5.9	10	150	500	
Sulphate	1220	U	79	14	160	200	1000	20000	50000	
Total Dissolved Solids	1020	N	290	100	580	1200	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	4.7	3.4	< 50	< 50	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	5.6

Leachate Test Information	
Leachant volume 1st extract/l	0.340
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.160

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1204304	ES3	BH2		26-Apr-2021	B	Amber Glass 250ml
1204304	ES3	BH2		26-Apr-2021	B	Plastic Tub 500g
1204305	ES11	BH2		27-Apr-2021	B	Amber Glass 250ml
1204305	ES11	BH2		27-Apr-2021	B	Plastic Tub 500g
1204306	ES2	WS1		05-May-2021	B	Amber Glass 250ml
1204306	ES2	WS1		05-May-2021	B	Plastic Tub 500g
1204307	ES4	WS1		05-May-2021	B	Amber Glass 250ml
1204307	ES4	WS1		05-May-2021	B	Plastic Tub 500g
1204308	ES1	WS6		04-May-2021	B	Amber Glass 250ml
1204308	ES1	WS6		04-May-2021	B	Plastic Tub 500g
1204309	ES6	WS6		04-May-2021	B	Amber Glass 250ml
1204309	ES6	WS6		04-May-2021	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

APPENDIX 10 – CHEMICAL LABORATORY TEST RESULTS

GROUNDWATER



2183

Final Report

Report No.: 21-25108-1
Initial Date of Issue: 28-Jul-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Steve Fleming
Project C15340 Paddinton Green Police
Station, London W2

Quotation No.:		Date Received:	22-Jul-2021
Order No.:	C15340	Date Instructed:	22-Jul-2021
No. of Samples:	2		
Turnaround (Wkdays):	5	Results Due:	28-Jul-2021
Date Approved:	28-Jul-2021		

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Water

Project: C15340 Paddinton Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-25108	21-25108
Quotation No.:	Chemtest Sample ID.:				1245120	1245121
	Sample Location:				BH1A	BH2
	Sample Type:				WATER	WATER
	Top Depth (m):				8.14	10.06
	Date Sampled:				16-Jul-2021	16-Jul-2021
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	8.4	8.4
Sulphate	U	1220	mg/l	1.0	160	120
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.43	0.81
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Total)	N	1455	µg/l	0.50	6.9	9.9
Copper (Dissolved)	U	1455	µg/l	0.50	2.2	1.9
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	3.0	2.4
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	3.7	4.7
Zinc (Dissolved)	U	1455	µg/l	2.5	27	28
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030
Alkalinity (Total)	U	1220	mg/l	10	230	410
Ammonium	U	1220	mg/l	0.050	0.25	0.32
Total Hardness as CaCO3	U	1270	mg/l	15	440	300
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10

Results - Water

Project: C15340 Paddinton Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-25108	21-25108
Quotation No.:	Chemtest Sample ID.:				1245120	1245121
	Sample Location:				BH1A	BH2
	Sample Type:				WATER	WATER
	Top Depth (m):				8.14	10.06
	Date Sampled:				16-Jul-2021	16-Jul-2021
Determinand	Accred.	SOP	Units	LOD		
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10
Resorcinol	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Phenol	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Cresols	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Xylenols	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
1-Naphthol	N	1920	mg/l	0.0050	< 0.0050	< 0.0050
Trimethylphenols	U	1920	mg/l	0.0050	< 0.0050	< 0.0050

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1245120			BH1A	16-Jul-2021	B	Coloured Winchester 1000ml
1245120			BH1A	16-Jul-2021	B	EPA Vial 40ml
1245120			BH1A	16-Jul-2021	B	Plastic Bottle 1000ml
1245121			BH2	16-Jul-2021	B	Coloured Winchester 1000ml
1245121			BH2	16-Jul-2021	B	EPA Vial 40ml
1245121			BH2	16-Jul-2021	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44 Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 21-26907-1
Initial Date of Issue: 09-Aug-2021
Client Ground Engineering Limited
Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA
Contact(s): Steve Fleming
Project C15340 Paddington Green Police
Station, London W2

Quotation No.:		Date Received:	04-Aug-2021
Order No.:	C15340	Date Instructed:	04-Aug-2021
No. of Samples:	2		
Turnaround (Wkdays):	5	Results Due:	10-Aug-2021
Date Approved:	09-Aug-2021		

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Water

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-26907	21-26907
Quotation No.:	Chemtest Sample ID.:				1253969	1253970
	Sample Location:				BH1A	BH2
	Sample Type:				WATER	WATER
	Top Depth (m):				8.12	10.10
	Date Sampled:				30-Jul-2021	30-Jul-2021
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.2	7.3
Boron (Dissolved)	U	1455	µg/l	10.0	160	260
Sulphate	U	1220	mg/l	1.0	190	110
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.25	3.2
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	0.12
Chromium (Dissolved)	U	1455	µg/l	0.50	1.5	43
Copper (Dissolved)	U	1455	µg/l	0.50	1.4	5.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	3.7	40
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	5.1
Selenium (Dissolved)	U	1455	µg/l	0.50	2.0	2.9
Zinc (Dissolved)	U	1455	µg/l	2.5	5.0	37
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030
Alkalinity (Total)	U	1220	mg/l	10	230	420
Alkalinity (Bicarbonate)	U	1220	mg CaCO3/l	10	230	420
Alkalinity (Carbonate)	U	1220	mg CaCO3/l	10	< 10	< 10
Alkalinity (Hydroxide)	N	1220	mg CaCO3/l	10	< 10	< 10
Ammonium	U	1220	mg/l	0.050	0.40	0.23

Results - Water

Project: C15340 Paddington Green Police Station, London W2

Client: Ground Engineering Limited	Chemtest Job No.:				21-26907	21-26907
Quotation No.:	Chemtest Sample ID.:				1253969	1253970
	Sample Location:				BH1A	BH2
	Sample Type:				WATER	WATER
	Top Depth (m):				8.12	10.10
	Date Sampled:				30-Jul-2021	30-Jul-2021
Determinand	Accred.	SOP	Units	LOD		
Cyanide (Free)	U	1300	µg/l	50.0	< 50	< 50
Total Hardness as CaCO3	U	1270	mg/l	15	520	370
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10
Resorcinol	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Phenol	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Cresols	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Xylenols	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
1-Naphthol	N	1920	mg/l	0.0050	< 0.0050	< 0.0050
Trimethylphenols	U	1920	mg/l	0.0050	< 0.0050	< 0.0050
Catechols	N	1920	mg/l	0.0050	< 0.0050	< 0.0050

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1253969			BH1A	30-Jul-2021	B	Coloured Winchester 1000ml
1253969			BH1A	30-Jul-2021	B	EPA Vial 40ml
1253969			BH1A	30-Jul-2021	B	Plastic Bottle 1000ml
1253970			BH2	30-Jul-2021	B	Coloured Winchester 1000ml
1253970			BH2	30-Jul-2021	B	EPA Vial 40ml
1253970			BH2	30-Jul-2021	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



CONTACT

Walsh
Structural, Civil & Geotechnical Engineers
32 Lafone Street
London
SE1 2LX

+44 (0)20 7089 6800
london@walsh.co.uk

walsh.co.uk

