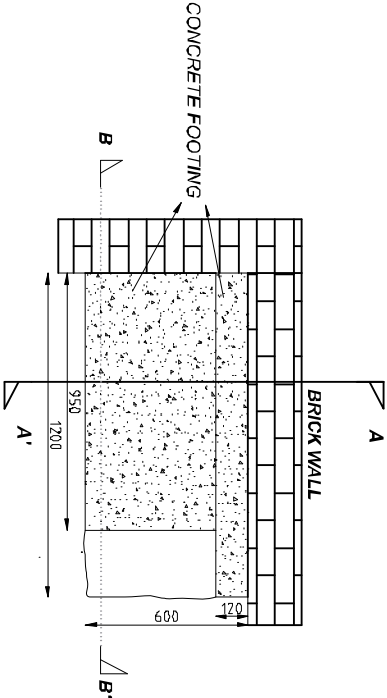


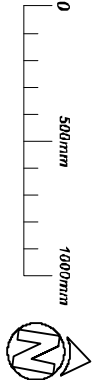
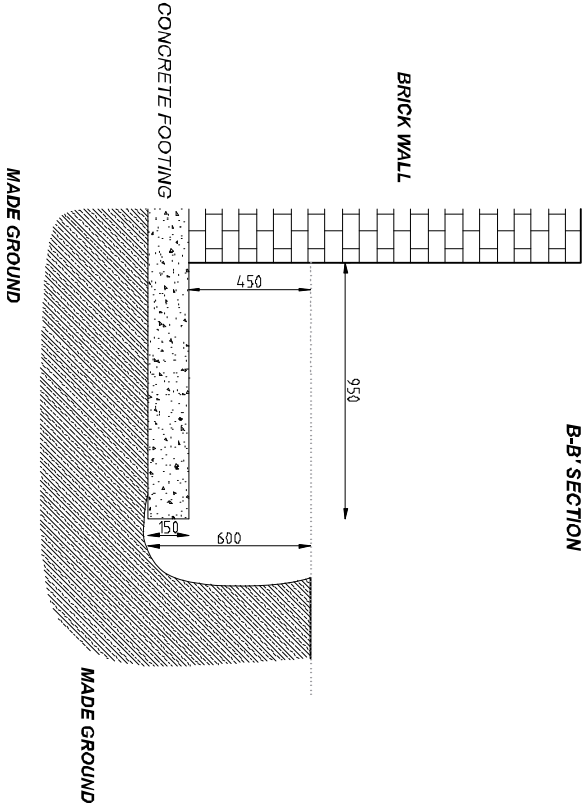
TP05 PHOTOGRAPH



TP05 PLAN VIEW



B-B' SECTION



REV	DATE	BY	CHKD	APPR
00	17/01/22	FA	RB	DS

Drawn by: J. Smith
Checked by: J. Smith
Reviewed by: J. Smith
Date: 17/01/22

Project Name:
London Borough of
Haringey

Project No:
Brunel Walk

Drawing No:
Trial Pit 05 Sketch

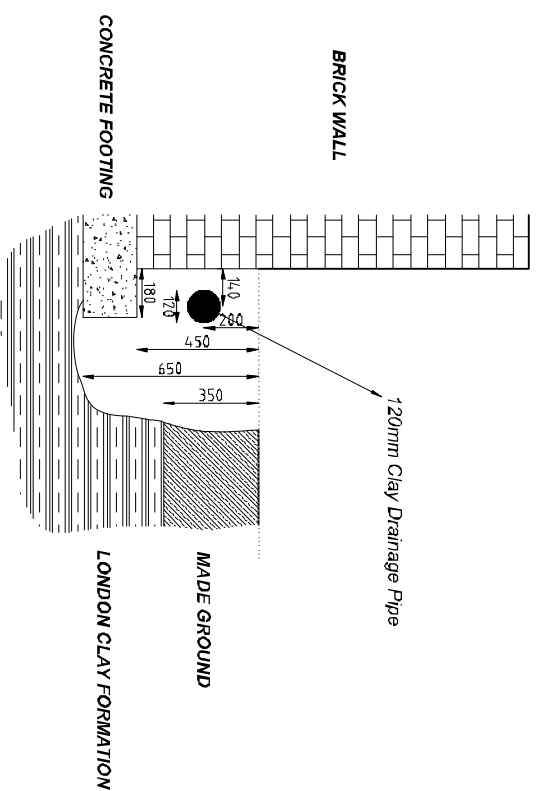
ASST	Rev
12621	00

Project Name:
12621-A2SP-XX-XX-DR-Y-0005B-00

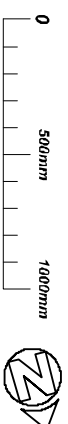
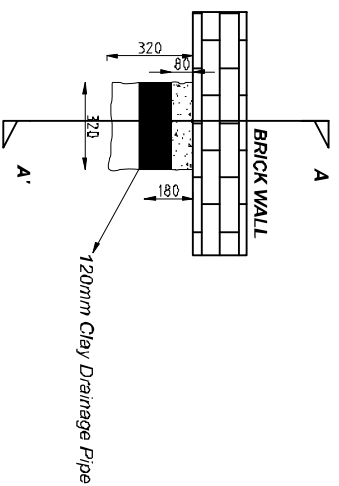
TP06 PHOTOGRAPH



A-A' SECTION



TP06 PLAN VIEW



Row	Date	By	Checked	Approved
00	17/01 22	FA	RB	DS

One Washington Avenue
London, ST1 2XW
- 44(0)20 7823 2000
www.b2b.co.uk

Other

**London Borough of
Haringey**

Project 116
Brunel Walk

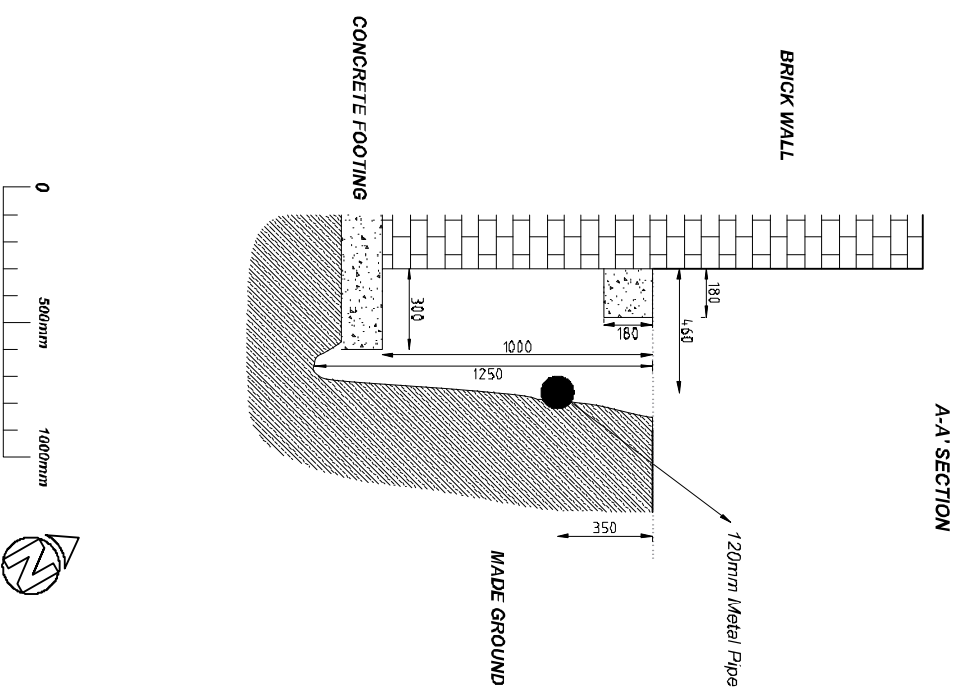
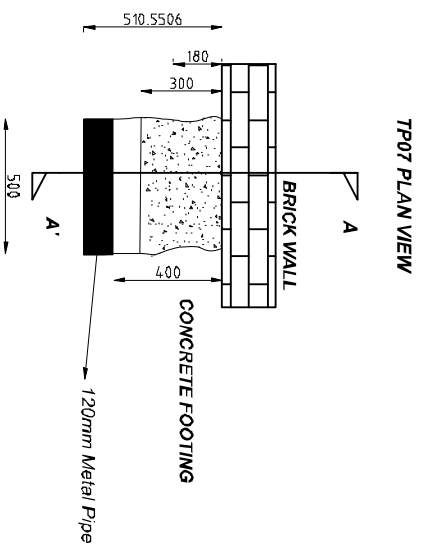
Living the Trial Pit 06 Sketch

Account Number	Rate
12621	00

Associated Document

Erweiterung Nummer:
12621-A2SI-XX-XX-DR-Y-0006-00

TP07 PHOTOGRAPH



Rev	D.A.C	By	Chkd	Apnc
00	17/01 22	FA	RB	DS

Order Marketing Enquiry to:
Lando-STI / XV
- 41024 / 8232899
www.sti.it

**London Borough of
Haringey**

Brunel Walk

Trial Pit 07 Sketch

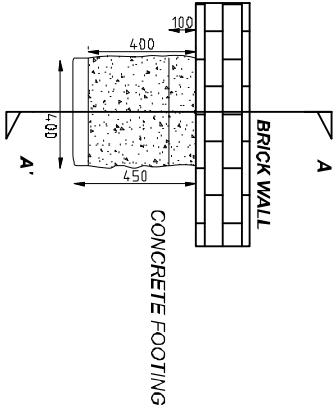
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12621	00

Creation Number:
12621-A2SI-XX-XX-DR-Y-0007-00

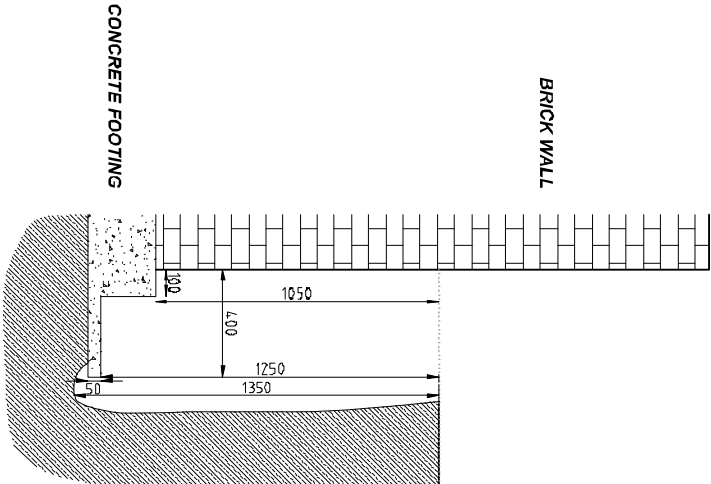
TP08 PHOTOGRAPH



TP08 PLAN VIEW



A-A' SECTION



MADE GROUND



REV	DATE	BY	CHKD	APPR
00	17/01/22	FA	RB	DS

Drawn by: J. Smith
Checked by: J. Smith
Reviewed by: J. Smith
Date: 17/01/22

Project No: 12621
Project Name: London Borough of Haringey

Project No: 12621
Project Name: Brunel Walk

Project No: 12621
Project Name: Trial Pit 08 Sketch

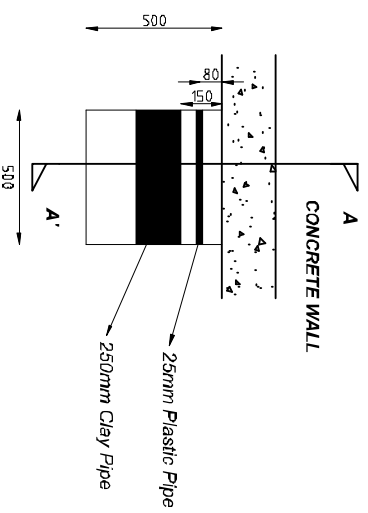
Rev	Date
00	17/01/22

Project No: 12621
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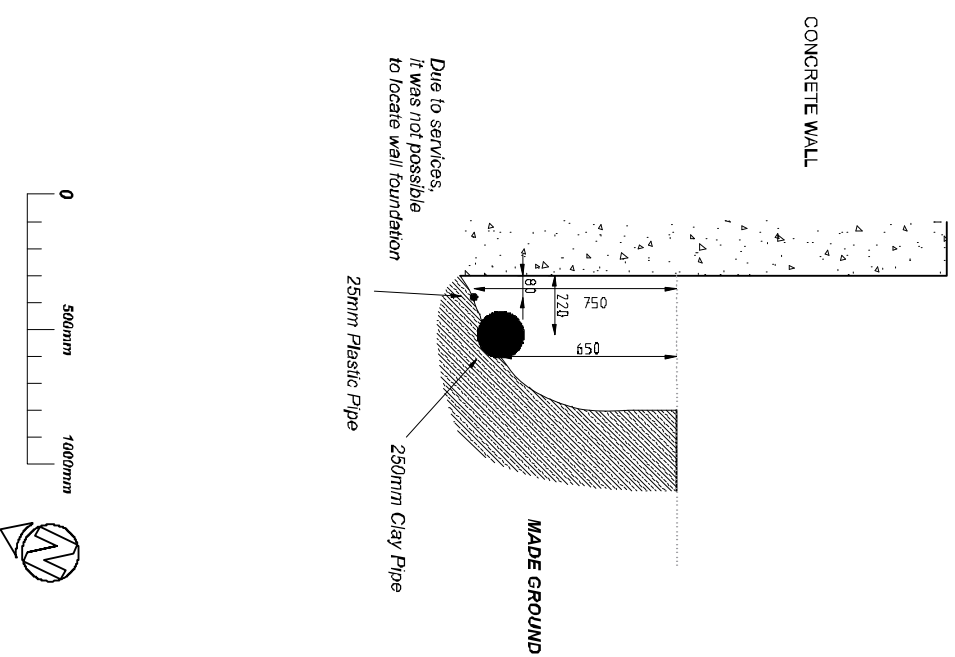
TP09 PHOTOGRAPH



TP09 PLAN VIEW



A-A' SECTION



Row	Date	By	Checked	Approved
00	17/01/22	FA	RB	DS

One World One Team
Lendo-SFT / XY
- 440.22.782.2009
www.22.5.com

**London Borough of
Haringey**

Other

Project 1160
Brunel Walk

Drawn by

Trial Pit 09 Sketch

Account Number	Page
12621	00

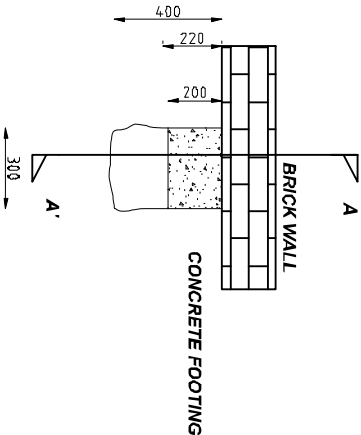
Crewing Numbers:

12621-A2SI-XX-XX-DR-Y-0009-00

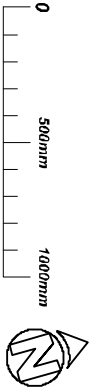
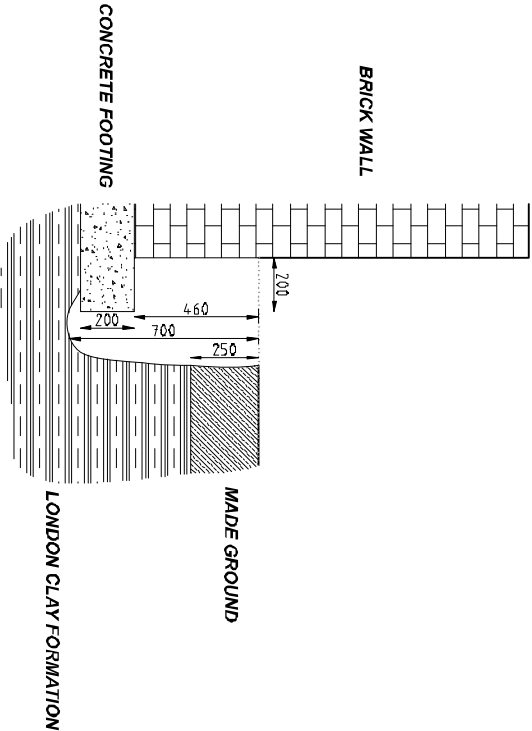
TP10 PHOTOGRAPH



TP10 PLAN VIEW



A-A' SECTION



REV	DATE	BY	CHK'D	APPRO
00	17/01/22	PA	RB	DS

Drawn by: **TP10**
Checked by: **TP10**
Reviewed by: **TP10**
Approved by: **TP10**

Project No: **TP10**
Project Name: **TP10**

Project No: **TP10**
Project Name: **TP10**

Project No: **TP10**
Project Name: **TP10**

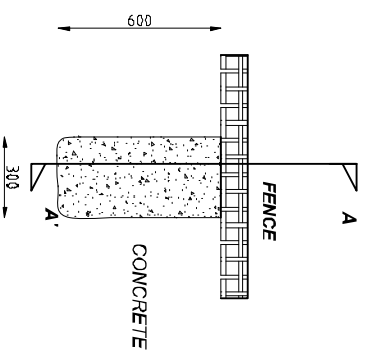
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00	17/01/22	PA	RB	DS

Project No: **TP10**
Project Name: **TP10**

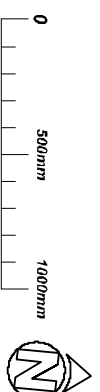
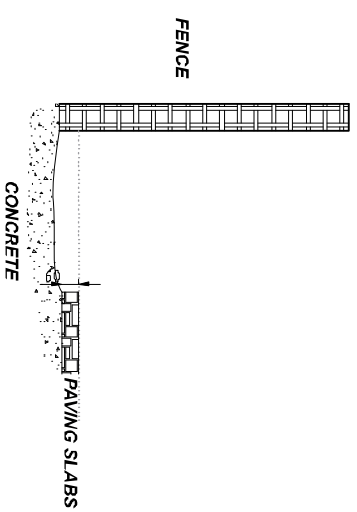
TP12 PHOTOGRAPH



TP12 PLAN VIEW



A-A' SECTION



Row	Date	By	Checked	Approved
00	17/01/22	FA	RB	DS

Chris Weinman is a digital artist
focusing on 3D / VR
- 400.627.8232
www.d25.com

Other

**London Borough of
Haringey**

Project 110

Brunei Walk

ប្រធាន លេ

Trial Pit 12 Sketch

Account Number	Page
12621	00

Associated Document

Craving Numbers

12621-A2SI-XX-XX-DR-Y-0012-00



Appendix C: Gas and Groundwater Monitoring Results

Project Number

12621DSDSDS

Project Name

Brunel Walk

Borehole Number

BH02

Borehole Depth (m)

20.00

Install Depth (m)

1.30

Plain (m)

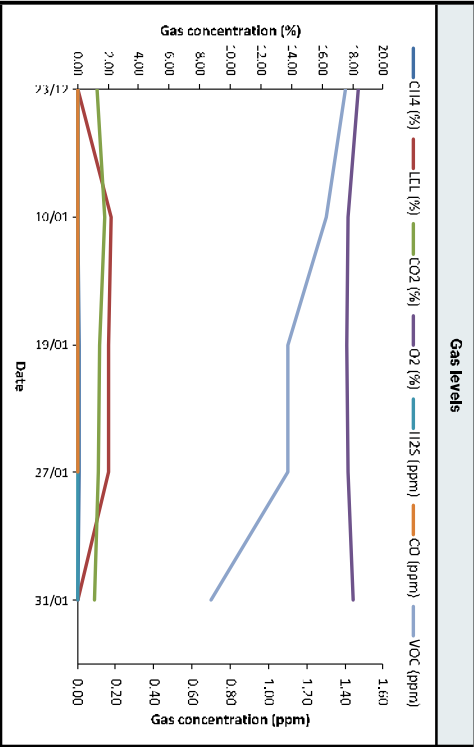
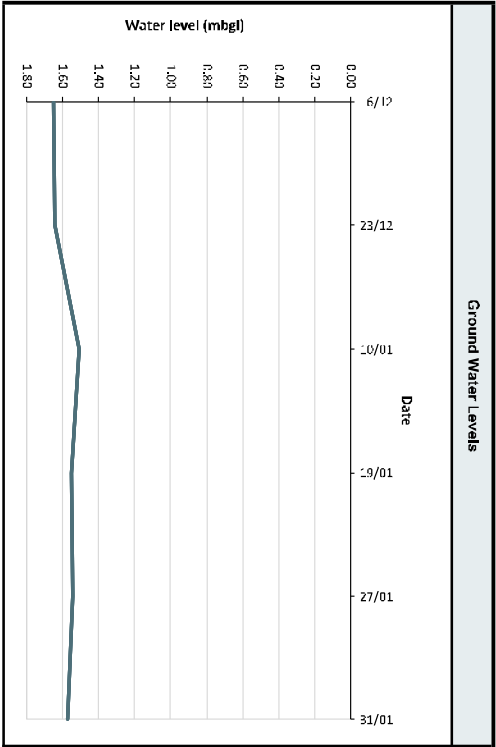
1.00

Slotted (m)

0.30

1st Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
Engineer	JS	30	NR	NR	NR	NR	NR	NR	NR	
Date	16/12/2021	30	NR	NR	NR	NR	NR	NR	NR	
Atmospheric Pressure (mbs)	1033.00	30	NR	NR	NR	NR	NR	NR	NR	
Weather Conditions	Cloudy and Dry	120	NR	NR	NR	NR	NR	NR	NR	
Water Level (mbgl)	1.65	150	NR	NR	NR	NR	NR	NR	NR	
Base of Well (mbgl)	1.95	180	NR	NR	NR	NR	NR	NR	NR	
2nd Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
Engineer	JS	30	0.00	0.00	1.30	18.40	0.00	0.00	1.40	
Date	23/12/2021	30	0.00	0.00	1.30	18.70	0.00	0.00	1.50	
Atmospheric Pressure (mbs)	1003.00	30	0.00	0.00	1.30	18.60	0.00	0.00	1.60	
Weather Conditions	Overcast and dry	120	0.00	0.00	1.30	18.60	0.00	0.00	1.60	
Water Level (mbgl)	1.64	150	0.00	0.00	1.30	18.60	0.00	0.00	1.60	
Base of Well (mbgl)	1.95	180	0.00	0.00	1.30	18.60	0.00	0.00	1.60	
3rd Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
Engineer	JS	30	0.00	0.00	1.80	17.90	0.00	0.00	1.30	
Date	10/01/2022	30	0.00	0.10	2.20	17.90	0.00	0.00	1.40	
Atmospheric Pressure (mbs)	1018.00	30	0.00	0.10	2.80	17.90	0.00	0.00	1.40	
Weather Conditions	Cloudy and Dry	120	0.00	0.00	1.70	17.90	0.00	0.00	1.40	
Water Level (mbgl)	1.51	150	0.00	0.00	2.20	17.90	0.00	0.00	1.40	
Base of Well (mbgl)	1.95	180	0.00	0.00	2.20	17.90	0.00	0.00	1.40	
4th Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
Engineer	FA	30	0.00	0.10	2.00	17.60	0.00	0.00	1.10	
Date	19/01/2022	30	0.00	0.10	2.50	17.90	0.00	0.00	1.20	
Atmospheric Pressure (mbs)	1026.00	30	0.00	0.10	2.00	17.60	0.00	0.00	1.20	
Weather Conditions	Cloudy and Dry	120	0.00	0.10	2.70	17.60	0.00	0.00	1.20	
Water Level (mbgl)	1.45	150	0.00	0.10	3.00	17.50	0.00	0.00	1.20	
Base of Well (mbgl)	1.95	180	0.00	0.10	3.00	17.60	0.00	0.00	1.30	
5th Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
Engineer	FA	30	0.00	0.10	2.00	17.70	0.00	0.00	1.10	
Date	27/01/2022	30	0.00	0.10	2.50	17.70	0.00	0.00	1.10	
Atmospheric Pressure (mbs)	1011.00	30	0.00	0.10	2.40	17.70	0.00	0.00	1.10	
Weather Conditions	Cloudy and Dry	120	0.00	0.10	2.70	17.70	0.00	0.00	1.10	
Water Level (mbgl)	1.54	150	0.00	0.10	3.00	17.60	0.00	0.00	1.20	
Base of Well (mbgl)	1.95	180	0.00	0.10	3.00	17.60	0.00	0.00	1.20	
6th Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
Engineer	1A	30	0.00	0.00	1.10	18.10	0.00	0.00	0.70	
Date	31/01/2022	30	0.00	0.00	0.00	18.00	0.00	0.00	0.70	
Atmospheric Pressure (mbs)	1021.00	30	0.00	0.00	0.00	18.00	0.00	0.00	0.80	
Weather Conditions	Clear or a windy	120	0.00	0.00	1.10	18.00	0.00	0.00	0.80	
Water Level (mbgl)	1.57	150	0.00	0.00	1.20	18.00	0.00	0.00	0.80	
Base of Well (mbgl)	1.95	180	0.00	0.00	1.20	18.00	0.00	0.00	0.80	

Instrument	Model	S/N	Calibration date
Gas Analyser	GFM436	13456	05/02/2021
PID	GDC10412	495-004695	10/08/2022
Dip Meter	DFP-100	5569	N/A



Project Number

1 2621

Project Name

Brunel Walk

Borehole Number

WS01

Borehole Depth (m)

3.00

Install Depth (m)

1.30

Plain (m)

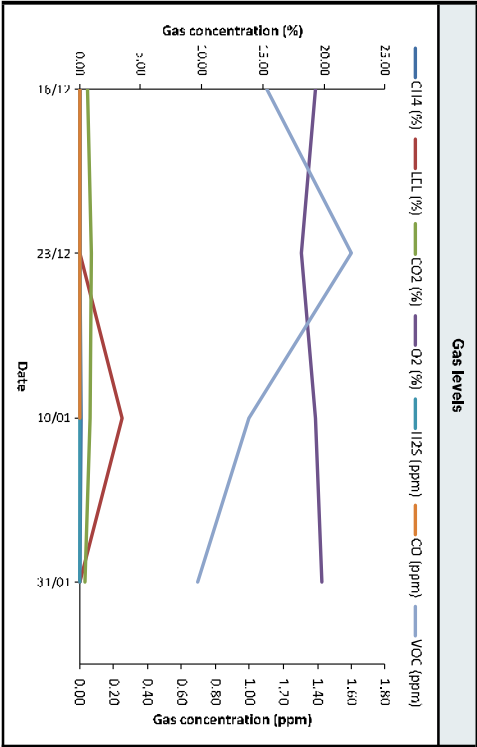
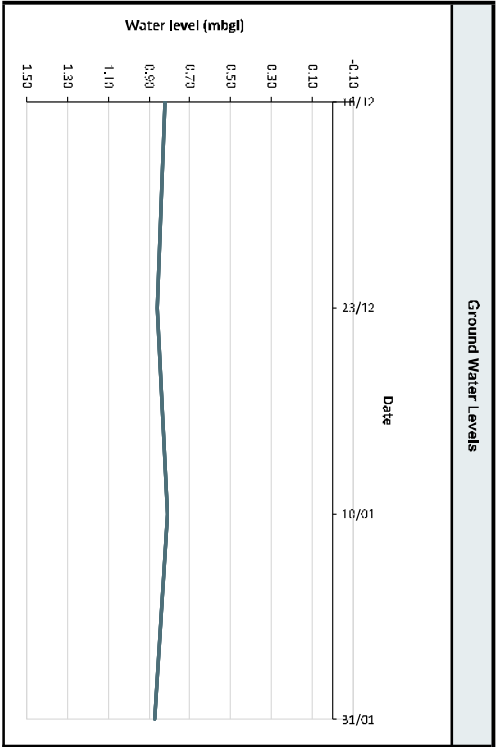
0.50

Slotted (m)

0.70

1st Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
Engineer		(s)	(l/h)	(% v/v)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)	
	JS	30	0.00	0.00	0.70	18.30	0.00	0.00	1.10	
Date	16/12 2021	80	0.00	0.00	0.70	18.30	0.00	0.00	1.10	
Atmospheric Pressure (mb)	1038.00	30	0.00	0.00	0.70	13.30	0.00	0.00	1.10	
Weather Conditions	Cloudy and Dry	120	0.00	0.00	0.70	18.30	0.00	0.00	1.20	
Water Level (mbgl)	0.82	150	0.00	0.00	0.70	13.30	0.00	0.00	1.20	
Base of Well (mbgl)	4.30	180	0.00	0.00	0.70	18.30	0.00	0.00	1.20	
2nd Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
Engineer		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
	JS	30	0.00	0.00	0.00	18.10	0.00	0.00	1.60	
Date	23/12 2021	80	0.00	0.00	0.00	18.10	0.00	0.00	1.70	
Atmospheric Pressure (mb)	1005.00	90	0.00	0.00	0.00	18.10	0.00	0.00	1.70	
Weather Conditions	Overcast and dry	120	0.00	0.00	0.00	18.10	0.00	0.00	1.70	
Water Level (mbgl)	0.86	150	0.00	0.00	0.00	18.10	0.00	0.00	1.60	
Base of Well (mbgl)	1.30	180	0.00	0.00	0.00	18.10	0.00	0.00	1.70	
3rd Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
Engineer		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
	JS	30	0.00	0.10	3.90	19.30	0.00	0.00	1.00	
Date	10/01 2022	80	0.00	0.00	0.90	19.30	0.00	0.00	1.10	
Atmospheric Pressure (mb)	1018.00	90	0.00	0.10	2.80	19.30	0.00	0.00	1.10	
Weather Conditions	Cloudy and Dry	120	0.00	0.00	2.20	19.40	0.00	0.00	1.10	
Water Level (mbgl)	0.81	150	0.00	0.00	2.20	19.40	0.00	0.00	1.10	
Base of Well (mbgl)	1.30	180	0.00	0.00	1.60	19.40	0.00	0.00	1.10	
4th Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
Engineer		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
	FA	30	0.00	-	-	-	-	-	-	
Date	19/01 2022	80	0.00	-	-	-	-	-	-	
Atmospheric Pressure (mb)	1026.00	90	0.00	-	-	-	-	-	-	
Weather Conditions	Cloudy and Dry	120	0.00	-	-	-	-	-	-	No Access
Water Level (mbgl)	-	150	0.00	-	-	-	-	-	-	
Base of Well (mbgl)	-	180	0.00	-	-	-	-	-	-	
5th Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
Engineer		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
	FA	30	0.00	-	-	-	-	-	-	
Date	27/01 2022	80	0.00	-	-	-	-	-	-	
Atmospheric Pressure (mb)	1011.00	90	0.00	-	-	-	-	-	-	
Weather Conditions	Cloudy and Dry	120	0.00	-	-	-	-	-	-	No Access
Water Level (mbgl)	-	150	0.00	-	-	-	-	-	-	
Base of Well (mbgl)	-	180	0.00	-	-	-	-	-	-	
6th Visit		Time	Flow	Methane Content	Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments
Engineer		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(ppm)	(ppm)	(ppm)	
	1 A	30	0.00	0.00	0.00	19.80	0.00	0.00	0.70	
Date	31/01 2022	80	0.00	0.00	0.50	19.80	0.00	0.00	0.70	
Atmospheric Pressure (mb)	1021.00	90	0.00	0.00	0.00	19.80	0.00	0.00	0.80	
Weather Conditions	Clear or a windy	120	0.00	0.00	0.50	19.80	0.00	0.00	0.80	
Water Level (mbgl)	0.87	150	0.00	0.00	0.50	19.80	0.00	0.00	0.90	
Base of Well (mbgl)	1.30	180	0.00	0.00	0.50	19.80	0.00	0.00	1.00	

Instrument	Model	S/N	Calibration date
Gas Analyser	GFM436	13456	05/02/2021
PID	GDC10412	495-004695	10/08/2022
Dip Meter	DFP-100	5569	N/A



Project Number

1.2621

Project Name

Brunel Walk

Borehole Number

WS05

Borehole Depth (m)

3.00

Install Depth (m)

1.10

Plain (m)

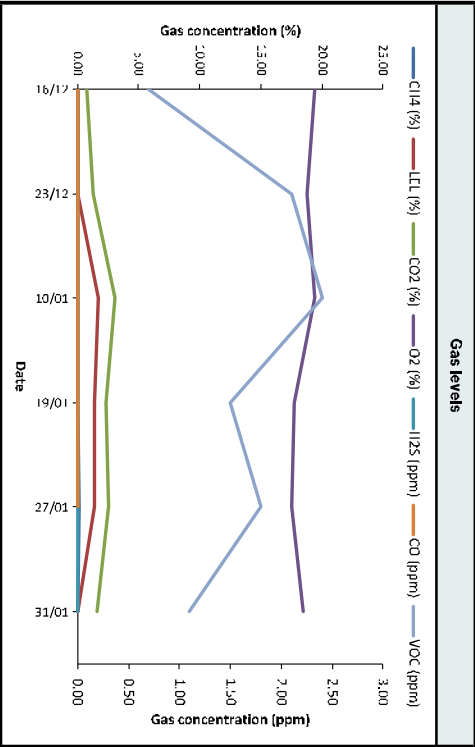
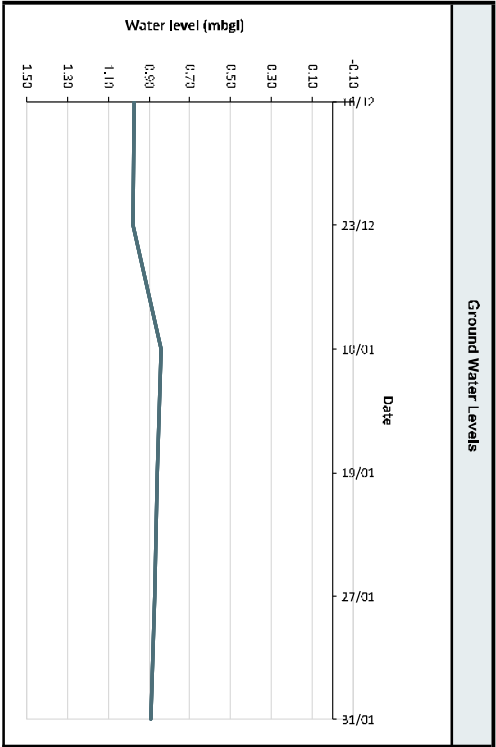
0.50

Slotted (m)

0.60

1st Visit		Time	Flow	Methane Content		Carbon Dioxide	Oxygen	H ₂ S	CO	VOC	Comments	
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)		
Engineer	JS	30	0.00	0.00	0.00	0.80	18.40	0.00	0.00	0.70		
Date	16/12/2021	80	0.00	0.00	0.00	0.80	18.40	0.00	0.00	1.00		
Atmospheric Pressure (mb)	1038.00	30	0.00	0.00	0.00	0.80	13.40	0.00	0.00	1.10		
Weather Conditions	Cloudy and Dry	120	0.00	0.00	0.00	0.80	18.30	0.00	0.00	1.20		
Water Level (mbgl)	0.97	150	0.00	0.00	0.00	0.80	13.30	0.00	0.00	1.20		
Base of Well (mbgl)	1.12	180	0.00	0.00	0.00	0.80	18.30	0.00	0.00	1.20		
2nd Visit		Time	Flow	Methane Content		Carbon Dioxide	Oxygen	H ₂ S	CO	VOC		
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)		
Engineer	JS	30	0.00	0.00	0.00	1.30	18.80	0.00	0.00	2.10		
Date	23/12/2021	80	0.00	0.00	0.00	1.30	18.80	0.00	0.00	2.30		
Atmospheric Pressure (mb)	1005.00	90	0.00	0.00	0.00	1.30	18.80	0.00	0.00	2.30		
Weather Conditions	Overcast and dry	120	0.00	0.00	0.00	1.20	18.80	0.00	0.00	2.30		
Water Level (mbgl)	0.98	150	0.00	0.00	0.00	1.20	18.80	0.00	0.00	2.20		
Base of Well (mbgl)	1.13	180	0.00	0.00	0.00	1.20	18.80	0.00	0.00	2.20		
3rd Visit		Time	Flow	Methane Content		Carbon Dioxide	Oxygen	H ₂ S	CO	VOC		
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)		
Engineer	JS	30	0.00	0.00	1.70	3.0	19.40	0.00	0.00	2.40		
Date	10/01/2022	80	0.00	0.00	1.30	3.0	19.30	0.00	0.00	2.40		
Atmospheric Pressure (mb)	1018.00	90	0.00	0.00	1.0	3.10	19.30	0.00	0.00	2.40		
Weather Conditions	Cloudy and Dry	120	0.00	0.00	1.30	3.0	19.30	0.00	0.00	2.40		
Water Level (mbgl)	0.84	150	0.00	0.00	1.30	3.10	18.40	0.00	0.00	2.40		
Base of Well (mbgl)	1.12	180	0.00	0.00	1.30	3.0	19.50	0.00	0.00	2.40		
4th Visit		Time	Flow	Methane Content		Carbon Dioxide	Oxygen	H ₂ S	CO	VOC		
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)		
Engineer	FA	30	0.00	0.00	1.40	2.30	17.00	0.00	0.00	1.50		
Date	19/01/2022	80	0.00	0.00	1.40	2.30	17.70	0.00	0.00	1.50		
Atmospheric Pressure (mb)	1026.00	90	0.00	0.00	1.40	2.30	17.70	0.00	0.00	1.50		
Weather Conditions	Cloudy and Dry	120	0.00	0.00	1.40	2.30	17.00	0.00	0.00	1.50		
Water Level (mbgl)	0.86	150	0.00	0.00	1.70	2.30	17.70	0.00	0.00	1.70		
Base of Well (mbgl)	1.12	180	0.00	0.00	1.70	2.30	17.70	0.00	0.00	1.70		
5th Visit		Time	Flow	Methane Content		Carbon Dioxide	Oxygen	H ₂ S	CO	VOC		
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)		
Engineer	FA	30	0.00	0.10	1.40	2.50	17.50	0.00	0.00	1.80		
Date	27/01/2022	80	0.00	0.10	1.40	2.50	17.60	0.00	0.00	1.80		
Atmospheric Pressure (mb)	1011.00	90	0.00	0.10	1.80	2.50	17.60	0.00	0.00	1.80		
Weather Conditions	Cloudy and Dry	120	0.00	0.10	1.80	2.60	17.50	0.00	0.00	1.80		
Water Level (mbgl)	0.87	150	0.00	0.10	1.70	2.60	17.50	0.00	0.00	1.80		
Base of Well (mbgl)	1.12	180	0.00	0.10	1.80	2.80	17.40	0.00	0.00	1.90		
6th Visit		Time	Flow	Methane Content		Carbon Dioxide	Oxygen	H ₂ S	CO	VOC		
		(s)	(l/h)	(% v/v)	(% LEL)	(% v/v)	(% v/v)	(ppm)	(ppm)	(ppm)		
Engineer	1A	30	0.00	0.00	0.00	1.80	18.50	0.00	0.00	1.10		
Date	31/01/2022	80	0.00	0.00	0.00	1.80	18.50	0.00	0.00	1.10		
Atmospheric Pressure (mb)	1021.00	90	0.00	0.00	0.00	1.80	18.50	0.00	0.00	1.10		
Weather Conditions	Clear and Windy	120	0.00	0.00	0.00	1.80	18.50	0.00	0.00	1.20		
Water Level (mbgl)	0.89	150	0.00	0.00	0.00	1.70	18.40	0.00	0.00	1.10		
Base of Well (mbgl)	1.12	180	0.00	0.00	0.00	1.70	18.50	0.00	0.00	1.20		

Instrument	Model	S/N	Calibration date
Gas Analyser	GFM436	13456	05/02/2021
PID	GDC10412	495-004695	10/08/2022
Dip Meter	DFP-100	5569	N/A



Project Number

1 2621

Project Name

Brunel Walk

Borehole Number

WS07

Borehole Depth (m)

3.00

Install Depth (m)

1.10

Plain (m)

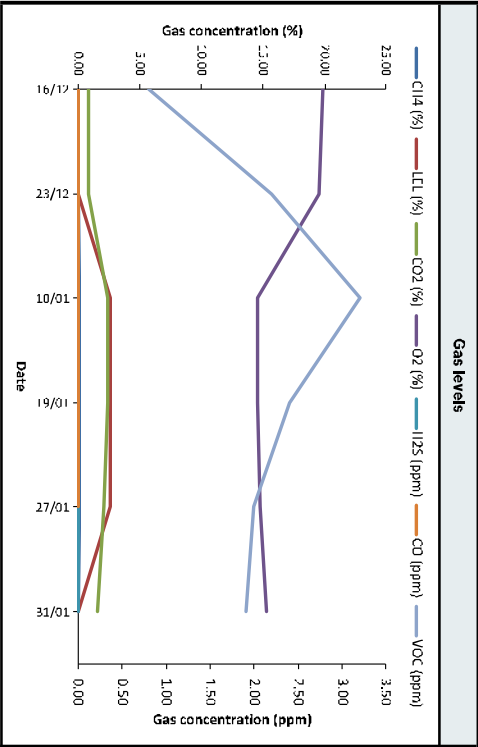
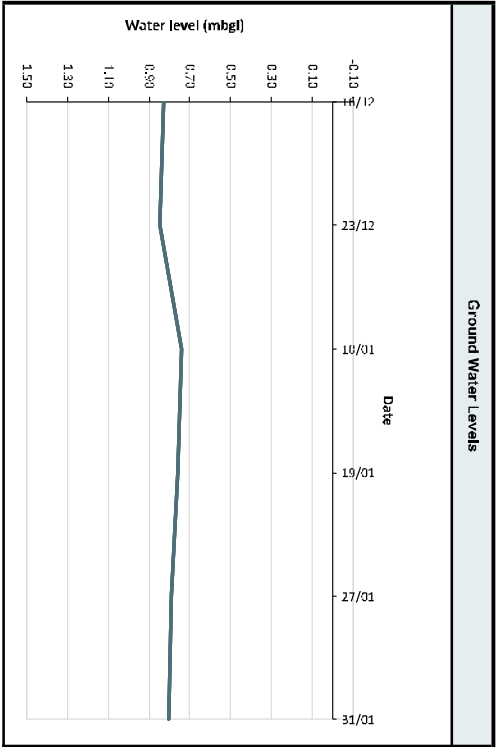
0.50

Slotted (m)

0.60

1st Visit		Time	Flow (l/h)	Methane Content (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	H ₂ S (ppm)	CO (ppm)	VOC (ppm)	Comments
Engineer	JS	30	0.00	0.00	0.00	18.90	0.00	0.00	0.80	
Date	16/12 2021	80	0.00	0.00	0.00	18.80	0.00	0.00	1.00	
Atmospheric Pressure (mb)	1031.00	30	0.00	0.00	0.00	13.80	0.00	0.00	1.10	
Weather Conditions	Cloudy and Dry	120	0.00	0.00	0.00	18.80	0.00	0.00	1.20	
Water Level (mbgl)	0.83	150	0.00	0.00	0.00	13.80	0.00	0.00	1.20	
Base of Well (mbgl)	4.10	180	0.00	0.00	0.00	18.80	0.00	0.00	1.40	
2nd Visit		Time	Flow (l/h)	Methane Content (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	H ₂ S (ppm)	CO (ppm)	VOC (ppm)	Comments
Engineer	JS	30	0.00	0.00	0.00	19.50	0.00	0.00	2.20	
Date	23/12 2021	80	0.00	0.00	0.00	19.50	0.00	0.00	2.40	
Atmospheric Pressure (mb)	1005.00	90	0.00	0.00	0.00	19.50	0.00	0.00	2.40	
Weather Conditions	Overcast and dry	120	0.00	0.00	0.00	19.50	0.00	0.00	2.40	
Water Level (mbgl)	0.85	150	0.00	0.00	0.00	19.60	0.00	0.00	2.40	
Base of Well (mbgl)	1.10	180	0.00	0.00	0.00	19.60	0.00	0.00	2.40	
3rd Visit		Time	Flow (l/h)	Methane Content (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	H ₂ S (ppm)	CO (ppm)	VOC (ppm)	Comments
Engineer	JS	30	0.00	0.10	2.80	14.50	0.00	0.00	3.20	
Date	10/01 2022	80	0.00	0.10	3.00	14.30	0.00	0.00	3.20	
Atmospheric Pressure (mb)	1018.00	90	0.00	0.10	2.80	14.30	0.00	0.00	3.20	
Weather Conditions	Cloudy and Dry	120	0.00	0.10	2.80	14.50	0.00	0.00	3.20	
Water Level (mbgl)	0.74	150	0.00	0.10	2.40	14.50	0.00	0.00	3.20	
Base of Well (mbgl)	1.10	180	0.00	0.00	2.20	14.60	0.00	0.00	3.20	
4th Visit		Time	Flow (l/h)	Methane Content (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	H ₂ S (ppm)	CO (ppm)	VOC (ppm)	Comments
Engineer	FA	30	0.00	0.10	2.80	14.50	0.00	0.00	2.40	
Date	19/01 2022	80	0.00	0.20	3.00	14.50	0.00	0.00	2.40	
Atmospheric Pressure (mb)	1026.00	90	0.00	0.20	3.40	14.50	0.00	0.00	2.40	
Weather Conditions	Cloudy and Dry	120	0.00	0.20	3.40	14.50	0.00	0.00	2.50	
Water Level (mbgl)	0.76	150	0.00	0.20	3.40	14.60	0.00	0.00	2.50	
Base of Well (mbgl)	1.10	180	0.00	0.10	2.80	14.60	0.00	0.00	2.50	
5th Visit		Time	Flow (l/h)	Methane Content (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	H ₂ S (ppm)	CO (ppm)	VOC (ppm)	Comments
Engineer	FA	30	0.00	0.10	2.80	14.80	0.00	0.00	2.00	
Date	27/01 2022	80	0.00	0.10	2.80	14.80	0.00	0.00	2.00	
Atmospheric Pressure (mb)	1011.00	90	0.00	0.10	2.80	14.80	0.00	0.00	2.00	
Weather Conditions	Cloudy and Dry	120	0.00	0.10	2.80	14.90	0.00	0.00	2.10	
Water Level (mbgl)	0.79	150	0.00	0.10	2.80	14.90	0.00	0.00	2.10	
Base of Well (mbgl)	1.10	180	0.00	0.10	2.80	15.00	0.00	0.00	2.10	
6th Visit		Time	Flow (l/h)	Methane Content (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	H ₂ S (ppm)	CO (ppm)	VOC (ppm)	Comments
Engineer	FA	30	0.00	0.00	0.00	15.30	0.00	0.00	1.80	
Date	31/01 2022	80	0.00	0.00	0.00	15.30	0.00	0.00	1.80	
Atmospheric Pressure (mb)	1021.00	90	0.00	0.00	0.00	15.30	0.00	0.00	1.80	
Weather Conditions	Clear and windy	120	0.00	0.00	0.00	15.30	0.00	0.00	1.80	
Water Level (mbgl)	0.80	150	0.00	0.00	0.00	15.40	0.00	0.00	2.00	
Base of Well (mbgl)	4.10	180	0.00	0.00	0.00	15.40	0.00	0.00	2.00	

Instrument	Model	S/N	Calibration date
Gas Analyser	GFM436	13456	05/02/2021
PID	GDC10412	495-004695	10/08/2022
Dip Meter	DM-100	5569	N/A





Appendix D: Geotechnical Laboratory Testing



Contract Number: 57182

Client Ref: **12621**

Report Date: **18-01-2022**

Client PO:

Client: **A2 Site Investigation Limited**
Broom House, 39/43 London Road,
Hadleigh, Benfleet,
Essex
SS7 2QL

Contract Title: **12621 - Brunel Walk**
For the attention of: **ALL JOBS**

Date Received: **13-12-2021**

Date Completed: **18-01-2022**

Test Description	Qty
Samples Received - @ Non Accredited Test	143
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	10
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	10
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	3
PSD: Sedimentation by pipette carried out with Wet Sieve (Wet Sieve must also be selected) BS 1377:1990 - Part 2 : 9.4 - * UKAS	3
Quick Undrained Triaxial Compression test - single specimen at one confining pressure (100mm or 38mm diameter) BS 1377:1990 - Part 7 : 8 - * UKAS	13
Disposal of samples for job	1

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

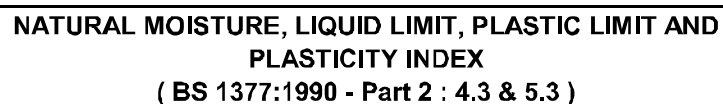
@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

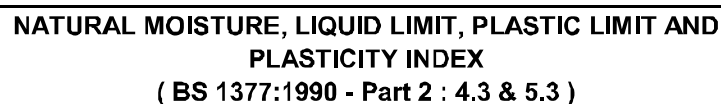
Emma Sharp (Business Support Manager) - Paul Evans (Director) - Richard John (Quality/Technical Manager)

Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Wayne Honey (Quality Assistant / Administrator / Health and Safety Coordinator)

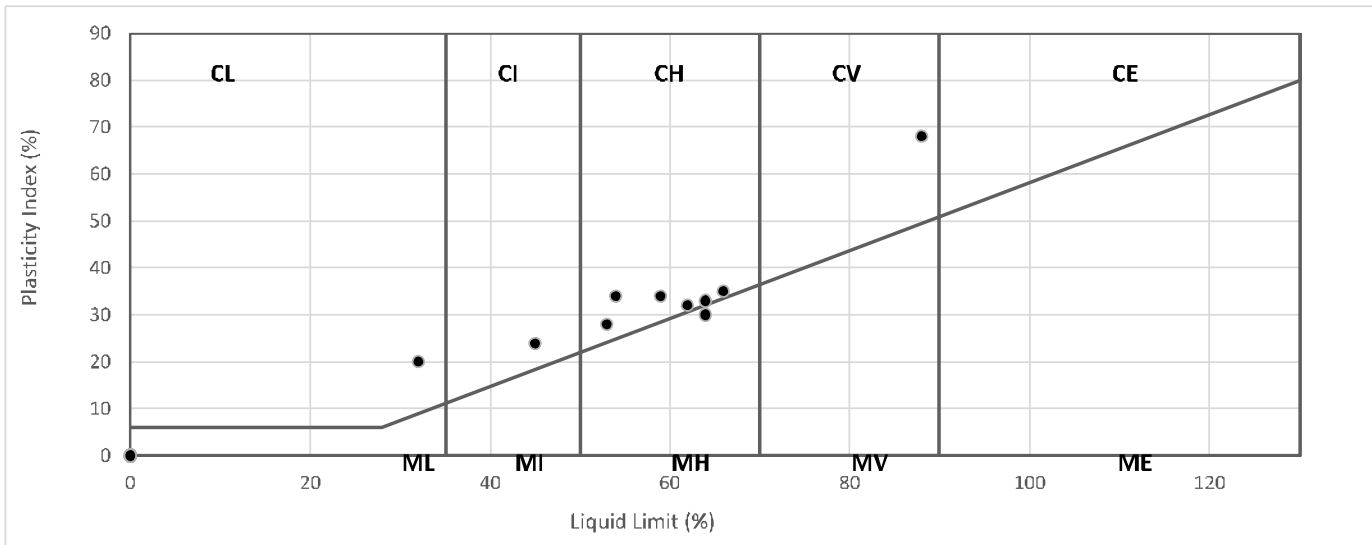
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Operators	Checked	18/01/2022	Richard John (Advanced Testing Manager)
Darcy Etheridge	Approved	18/01/2022	Paul Evans (Quality/Technical Manager)



[illegible]

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION



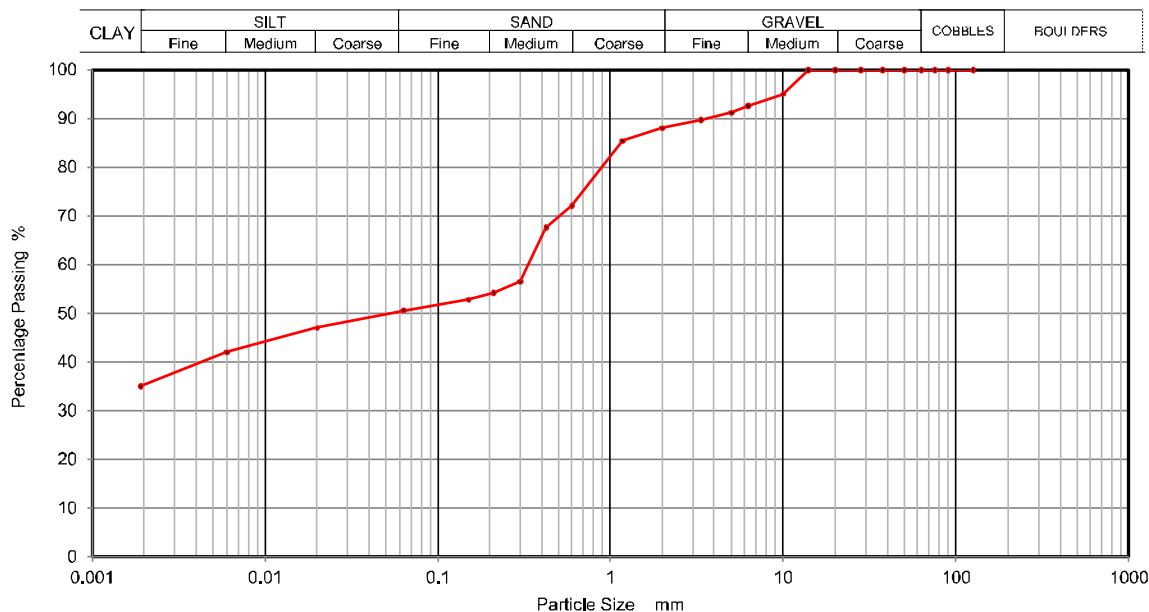
Operators	Checked	18/01/2022	Richard John (Advanced Testing Manager)
Darcy Etheridge	Approved	18/01/2022	Paul Evans (Quality/Technical Manager)





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number	57182
	Borehole/Pit No.
WS02	
Site Name	12621 - Brunel Walk
Soil Description	Brown fine to medium gravelly silty clayey fine to coarse SAND
Depth Top	2.00
Depth Base	
Date Tested	17/01/2022
Sample Type	D

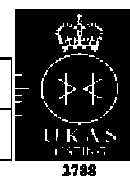


Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	47
90	100	0.0060	42
75	100	0.0020	35
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	95		
6.3	93		
5	91		
3.35	90		
2	88		
1.18	85		
0.6	72		
0.425	68		
0.3	56		
0.212	54		
0.15	53		
0.063	51		

Sample Proportions	% dry mass
Cobbles	0
Gravel	12
Sand	37
Silt	16
Clay	35

Remarks
 Preparation and testing in accordance with BS1377 unless noted below

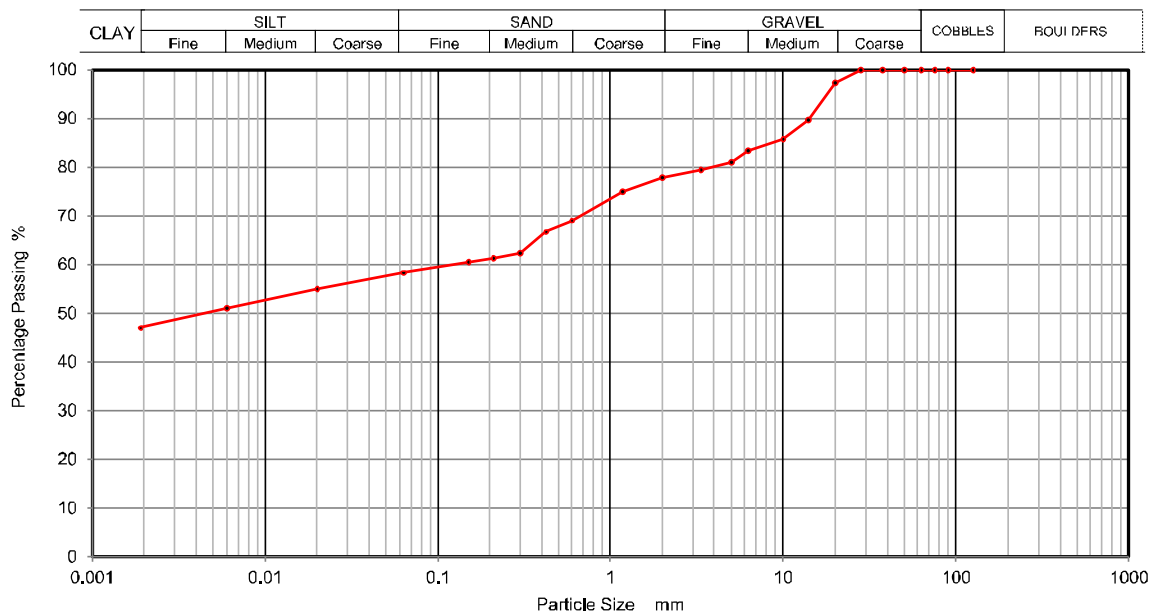
Operator	Checked	17/01/2022	Richard John	
David	Approved	18/01/2022	Paul Evans	





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number	57182
	Borehole/Pit No.
WS05	
Site Name	12621 - Brunel Walk
Sample No.	
	Depth Top
2.00	
Soil Description	Brown silty fine to coarse sandy fine to coarse gravelly CLAY
	Depth Base
Date Tested	17/01/2022
Sample Type	D

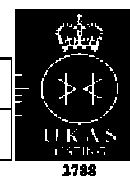


Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	55
90	100	0.0060	51
75	100	0.0020	47
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	90		
10	86		
6.3	83		
5	81		
3.35	79		
2	78		
1.18	75		
0.6	69		
0.425	67		
0.3	62		
0.212	61		
0.15	60		
0.063	58		

Sample Proportions	% dry mass
Cobbles	0
Gravel	22
Sand	20
Silt	11
Clay	47

Remarks
 Preparation and testing in accordance with BS1377 unless noted below

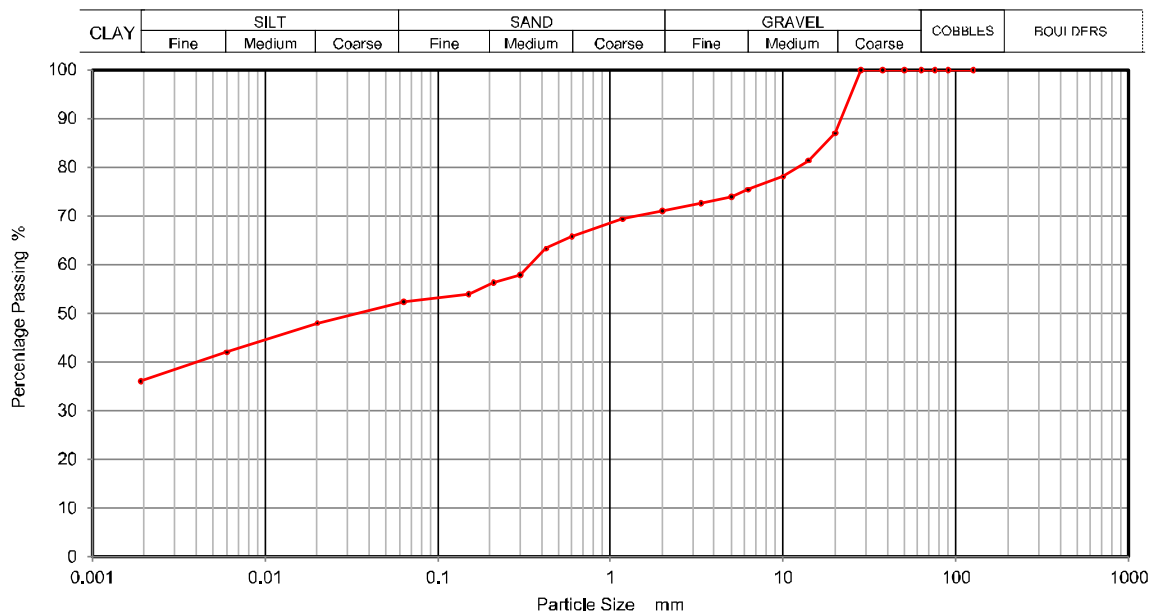
Operator	Checked	17/01/2022	Richard John	
David	Approved	18/01/2022	Paul Evans	





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number	57182	
	Borehole/Pit No.	
WS08		
Site Name	12621 - Brunel Walk	
Soil Description	Brown silty fine to coarse sandy fine to coarse gravelly CLAY	Sample No.
Depth Top		1.20
Depth Base		
Date Tested	17/01/2022	
Sample Type	D	

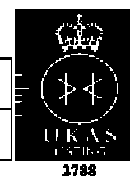


Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	48
90	100	0.0060	42
75	100	0.0020	36
63	100		
50	100		
37.5	100		
28	100		
20	87		
14	81		
10	78		
6.3	75		
5	74		
3.35	73		
2	71		
1.18	69		
0.6	66		
0.425	63		
0.3	58		
0.212	56		
0.15	54		
0.063	52		

Sample Proportions	% dry mass
Cobbles	0
Gravel	29
Sand	19
Silt	16
Clay	36

Remarks
 Preparation and testing in accordance with BS1377 unless noted below

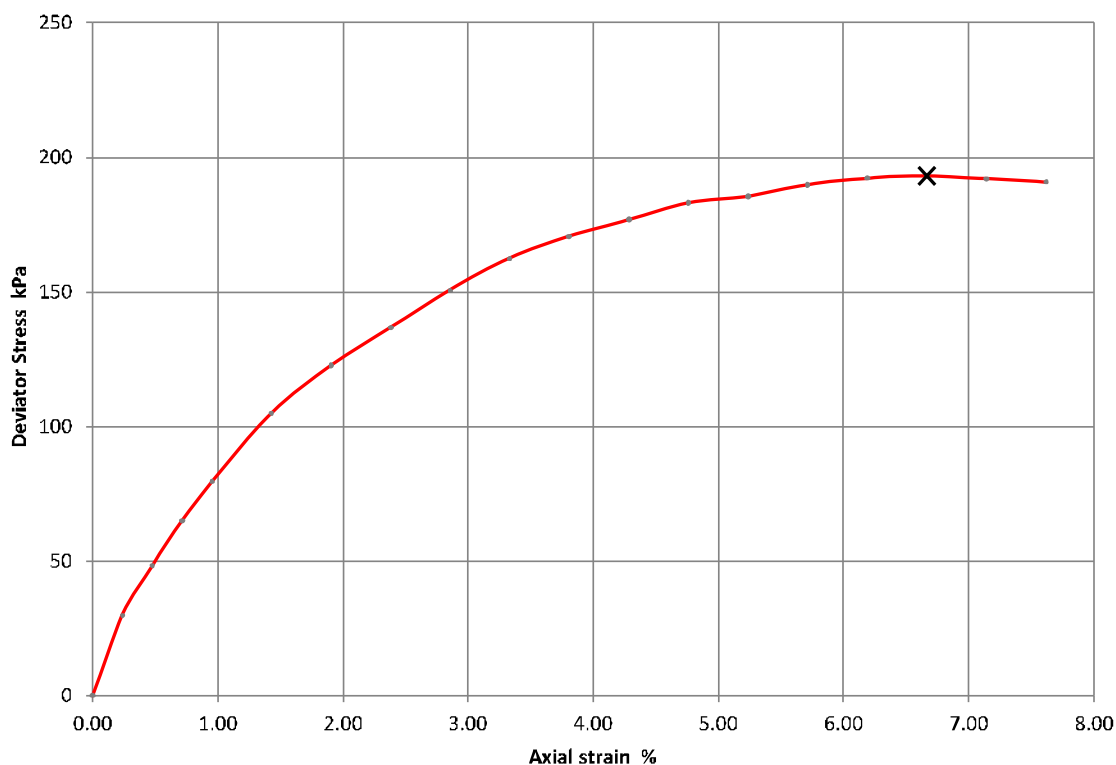
Operator	Checked	17/01/2022	Richard John	
David	Approved	18/01/2022	Paul Evans	





**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

Contract Number	57182	Borehole/Pit No.	BH01
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	4.50
		Depth Base (m)	4.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	30
Bulk Density (Mg/m^3)	1.81
Dry Density (Mg/m^3)	1.40
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	90
Deviator Stress (kPa)	193
Undrained Shear Strength (kPa)	97
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

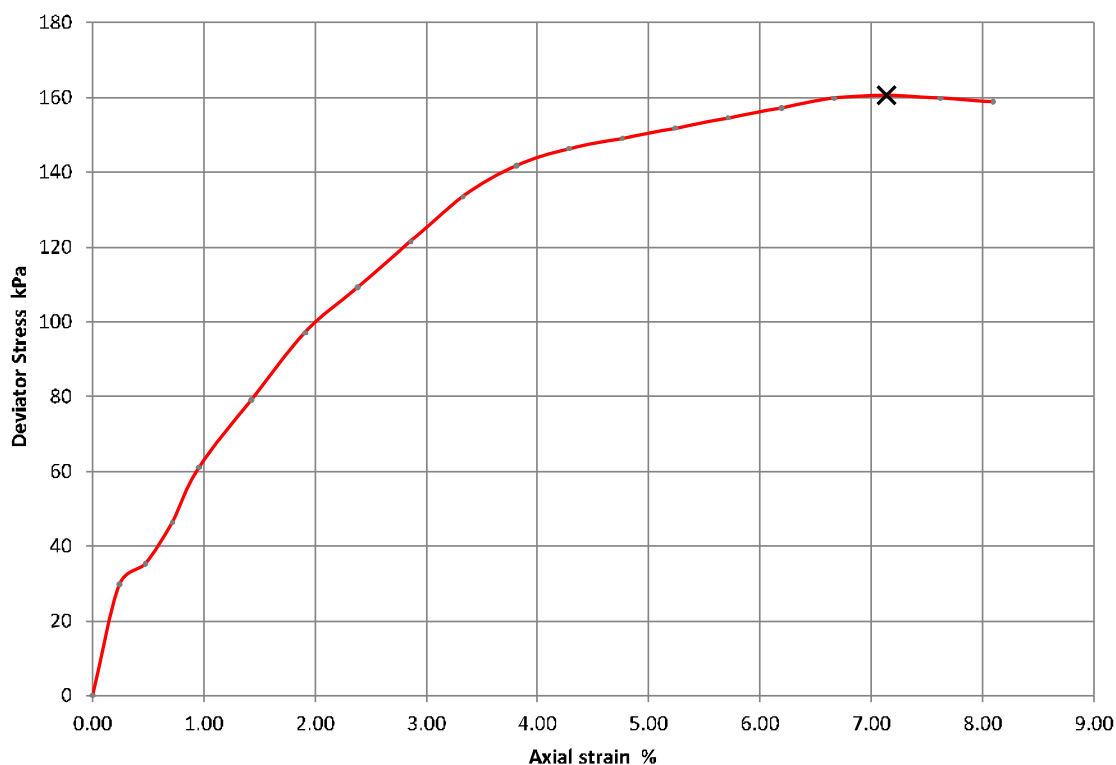
Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	





**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH01
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	7.50
		Depth Base (m)	7.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	26
Bulk Density (Mg/m ³)	1.86
Dry Density (Mg/m ³)	1.47
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	150
Deviator Stress (kPa)	161
Undrained Shear Strength (kPa)	80
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

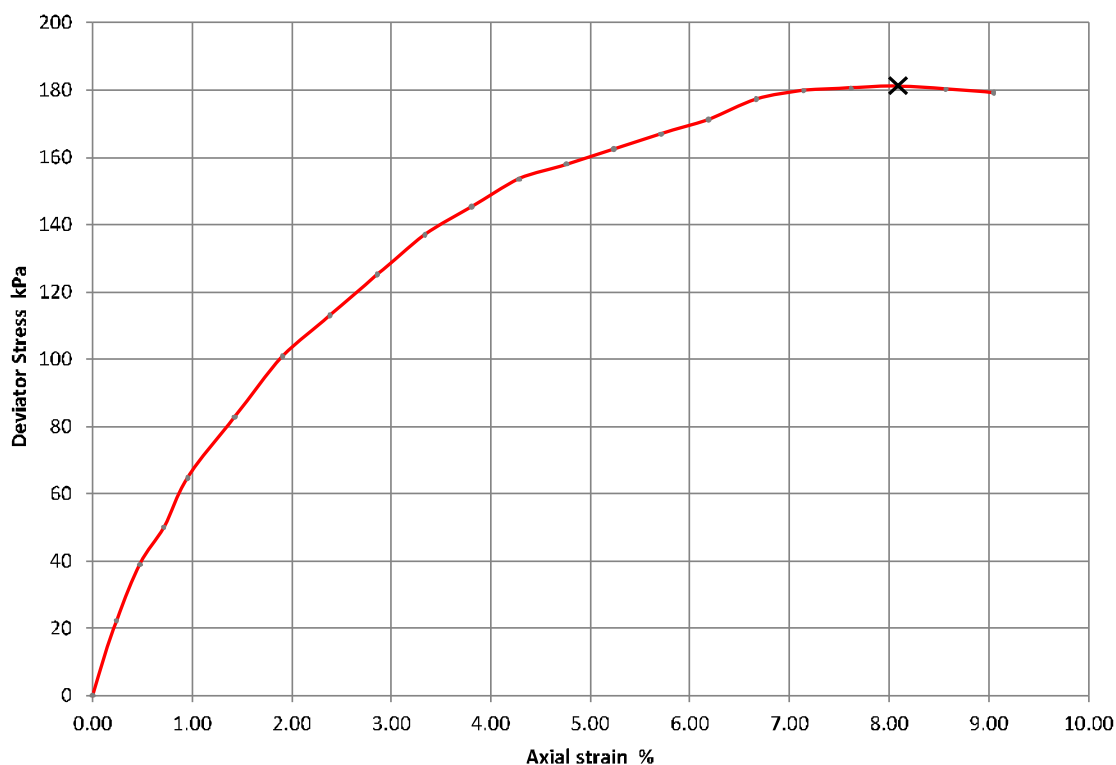


2788



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH01
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	11.50
		Depth Base (m)	11.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	28
Bulk Density (Mg/m ³)	1.92
Dry Density (Mg/m ³)	1.49
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	230
Deviator Stress (kPa)	181
Undrained Shear Strength (kPa)	91
Failure Strain (%)	8
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

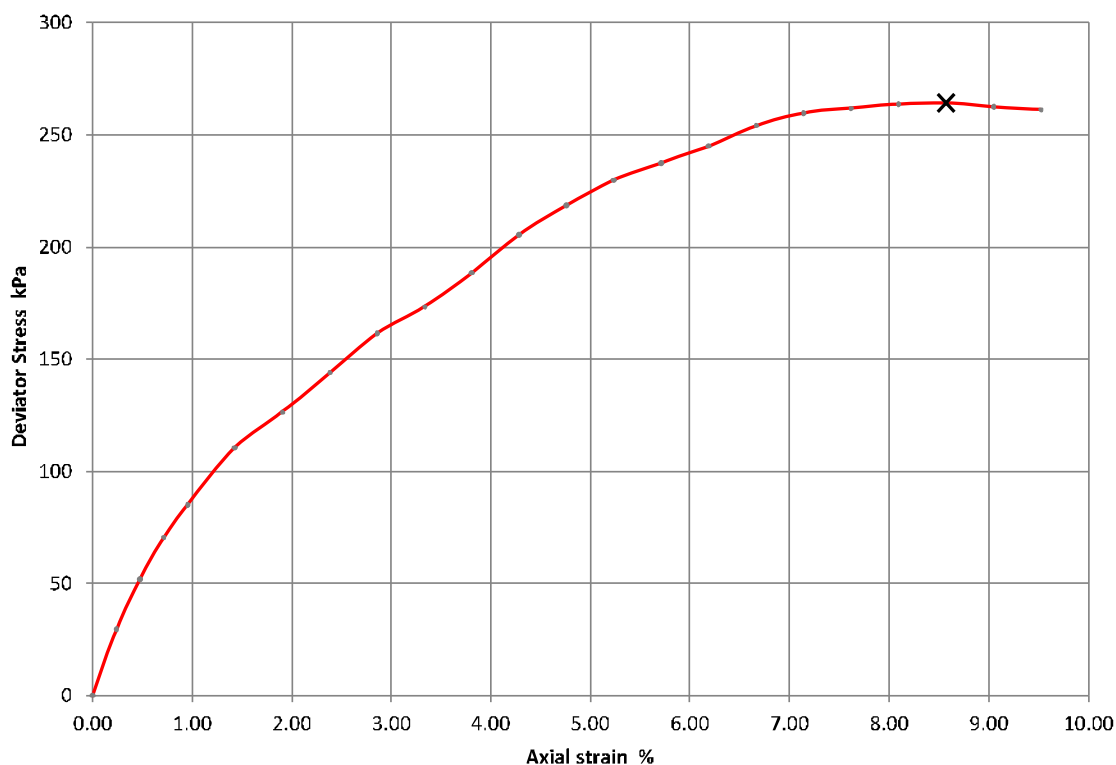
Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	





**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH01
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	14.50
		Depth Base (m)	14.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	30
Bulk Density (Mg/m^3)	1.95
Dry Density (Mg/m^3)	1.49
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	290
Deviator Stress (kPa)	264
Undrained Shear Strength (kPa)	132
Failure Strain (%)	9
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

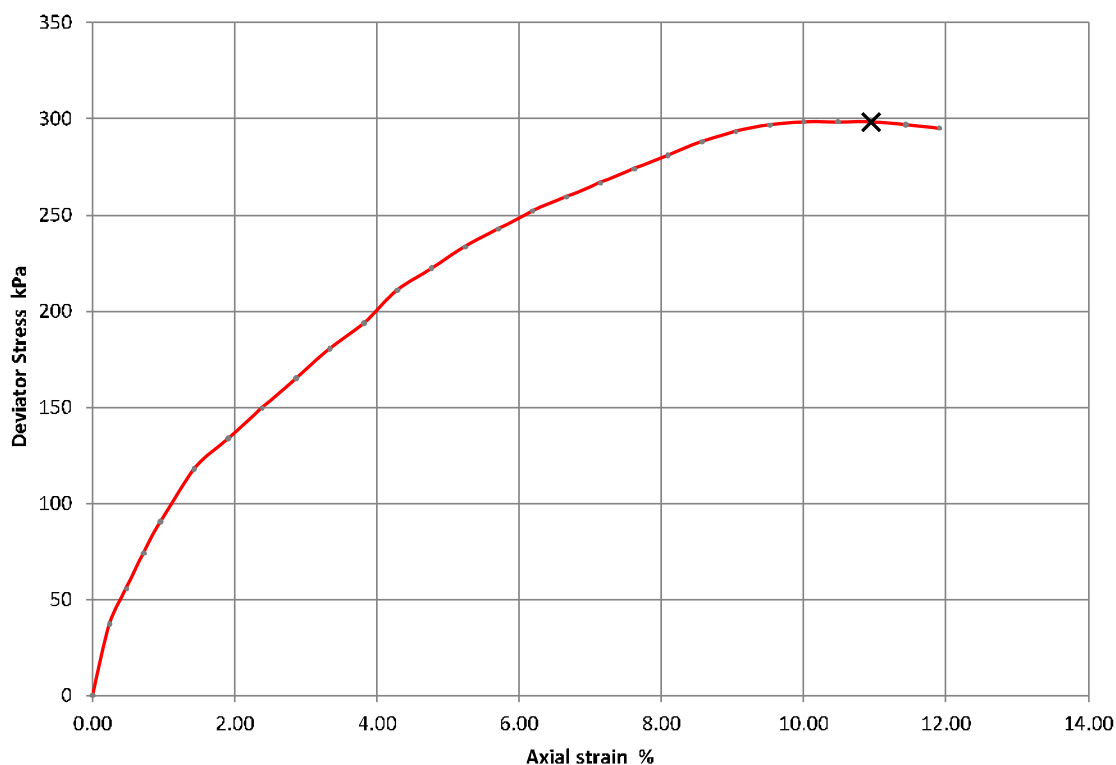


2788



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH01
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	20.00
		Depth Base (m)	20.45
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	32
Bulk Density (Mg/m ³)	1.96
Dry Density (Mg/m ³)	1.49
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	400
Deviator Stress (kPa)	299
Undrained Shear Strength (kPa)	149
Failure Strain (%)	11
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

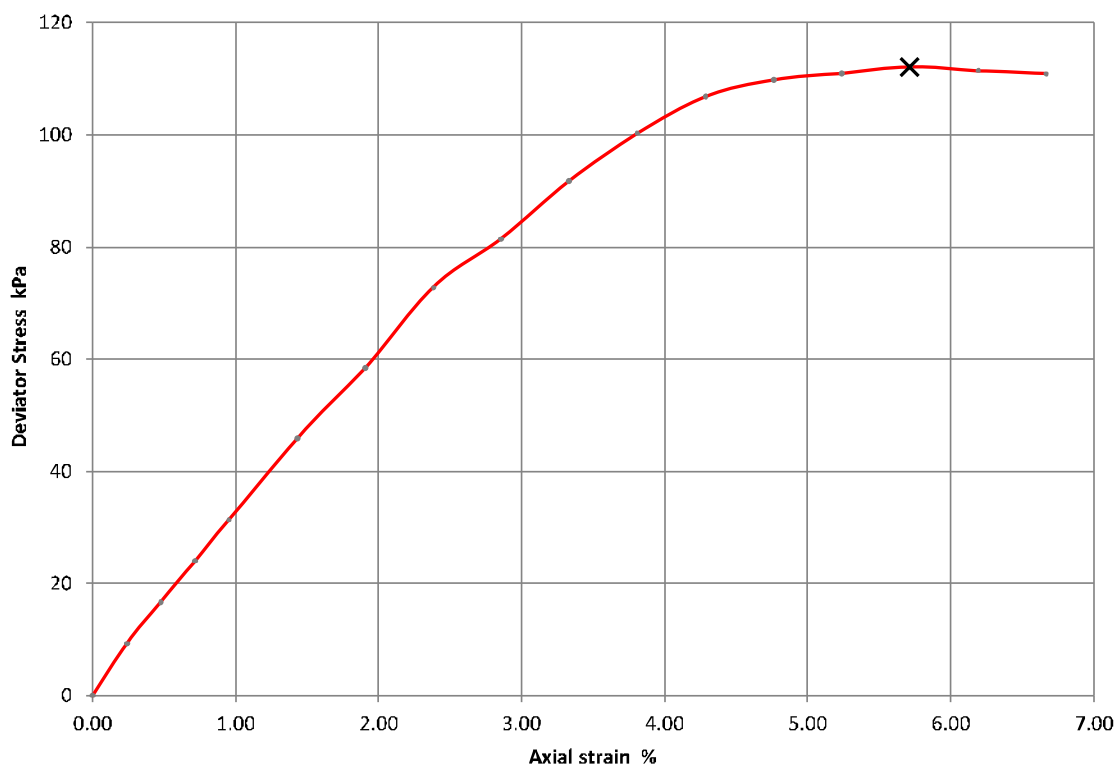


2768



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH02
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown fine gravelly silty CLAY	Depth Top (m)	4.50
		Depth Base (m)	4.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	28
Bulk Density (Mg/m^3)	1.92
Dry Density (Mg/m^3)	1.50
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	90
Deviator Stress (kPa)	112
Undrained Shear Strength (kPa)	56
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

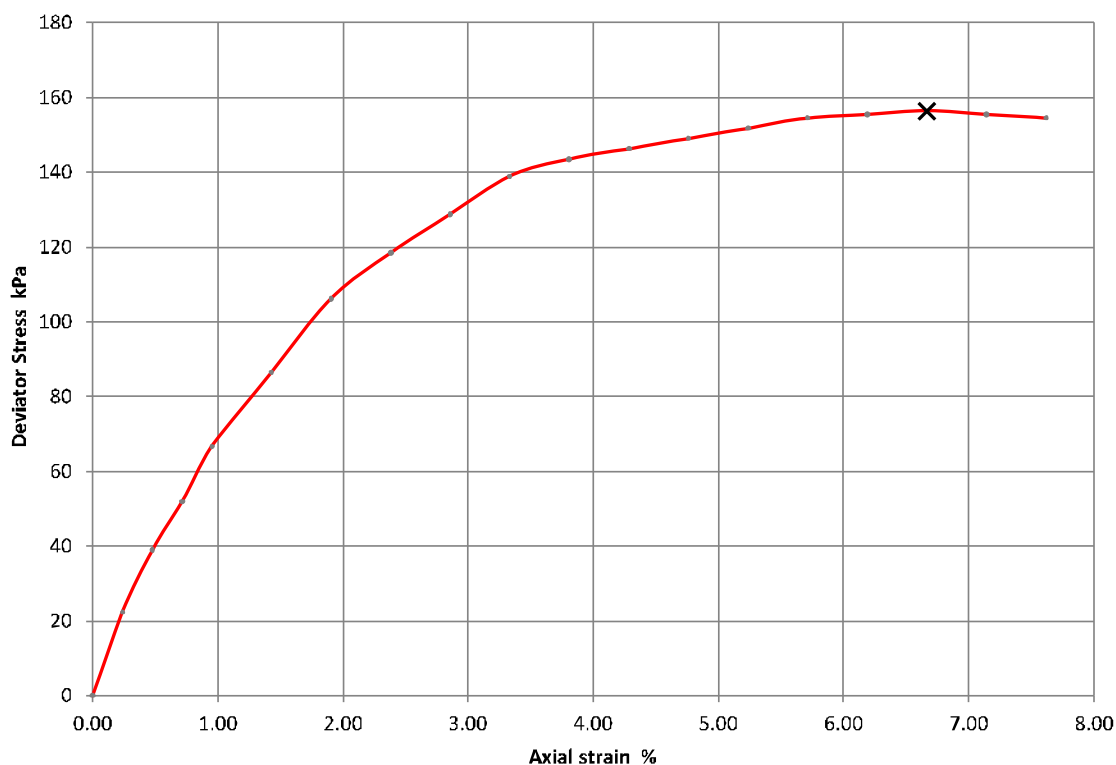


2788



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH02
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	7.50
		Depth Base (m)	7.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	26
Bulk Density (Mg/m^3)	1.89
Dry Density (Mg/m^3)	1.49
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	150
Deviator Stress (kPa)	156
Undrained Shear Strength (kPa)	78
Failure Strain (%)	7
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

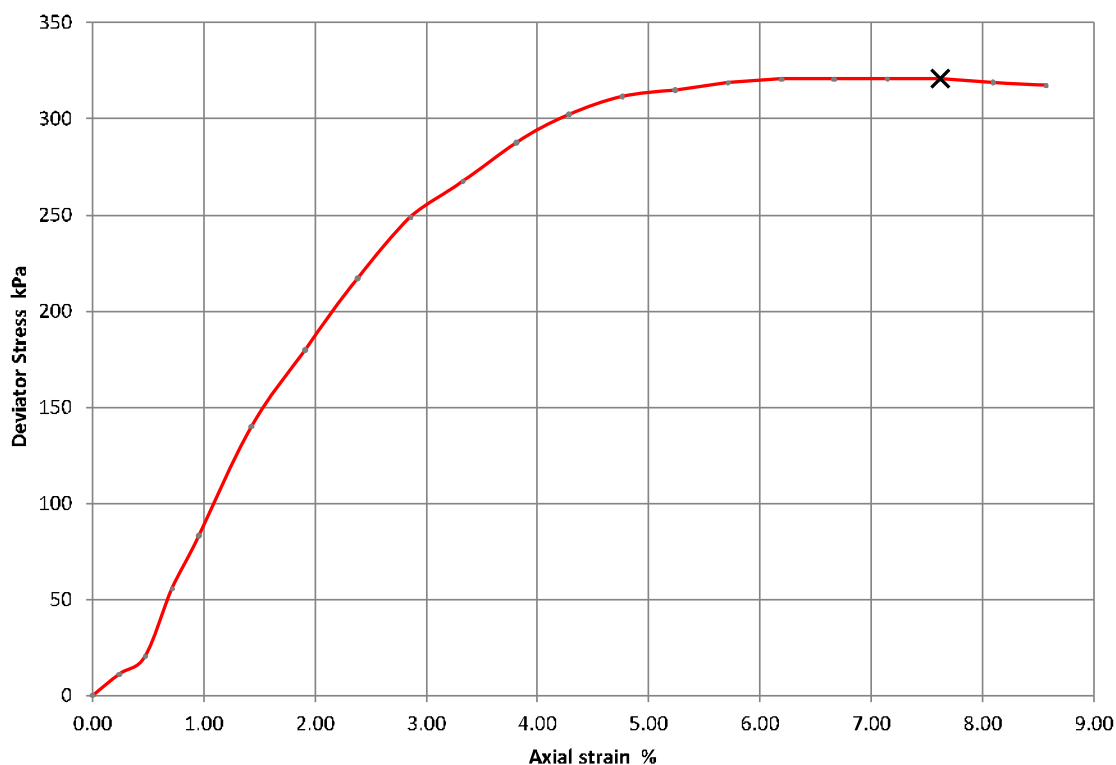


2788



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

Contract Number	57182	Site Name	12621 - Brunel Walk	Sample No.	
Borehole/Pit No.	BH02	Soil Description	Brown silty CLAY	Depth Top (m)	10.50
				Depth Base (m)	10.95
Date Tested	14/01/2022	Sample Type	U	Technician	Daniel B



Moisture Content (%)	29
Bulk Density (Mg/m ³)	1.95
Dry Density (Mg/m ³)	1.51
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	210
Deviator Stress (kPa)	321
Undrained Shear Strength (kPa)	160
Failure Strain (%)	8
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

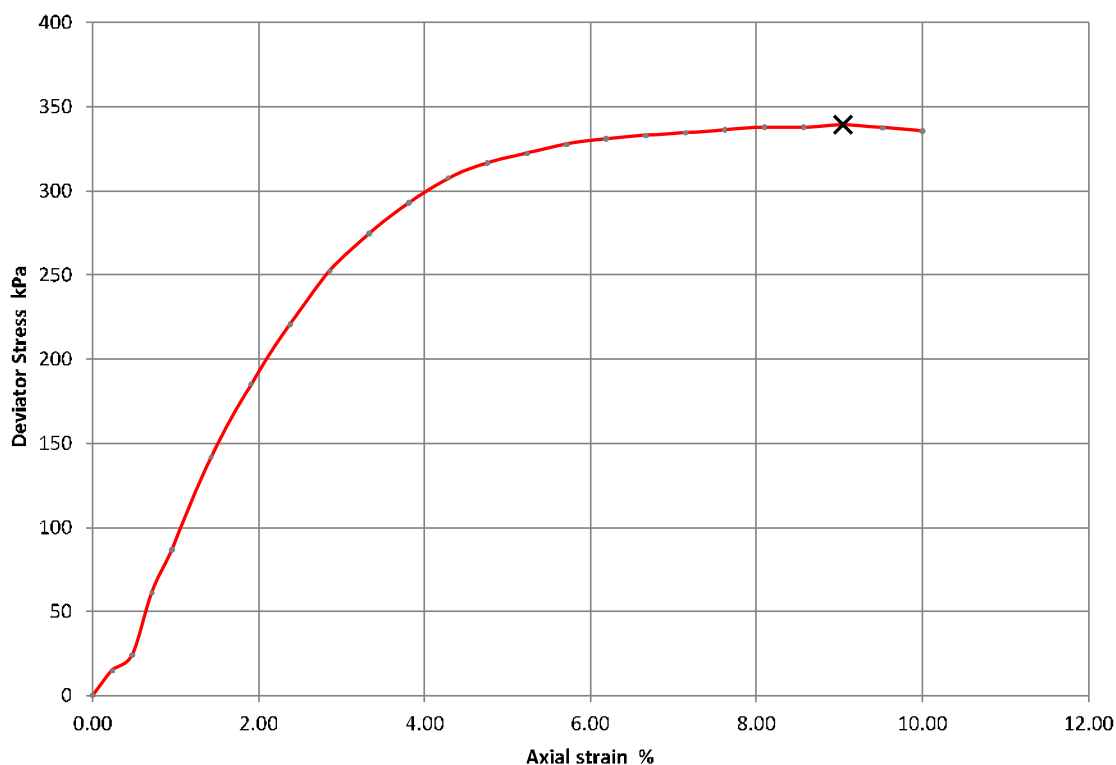


2788



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH02
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	13.50
		Depth Base (m)	13.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	31
Bulk Density (Mg/m ³)	1.96
Dry Density (Mg/m ³)	1.49
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	270
Deviator Stress (kPa)	339
Undrained Shear Strength (kPa)	170
Failure Strain (%)	9
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

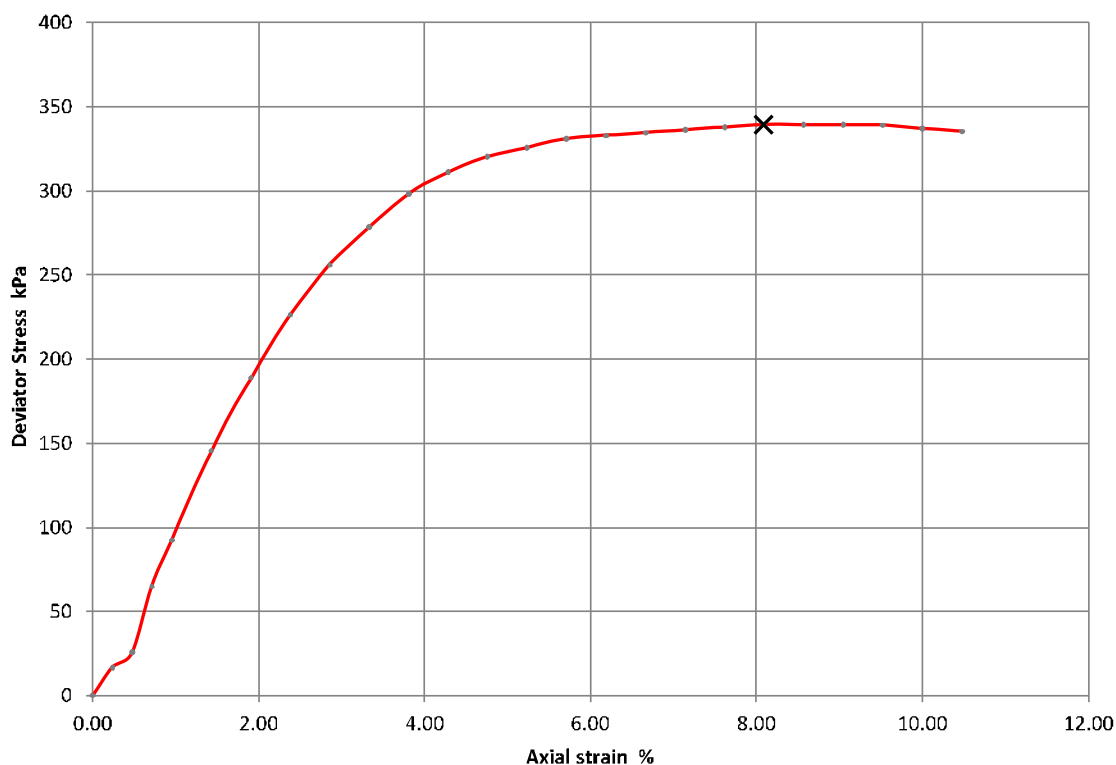


2768



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH02
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	19.50
		Depth Base (m)	19.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	34
Bulk Density (Mg/m^3)	1.98
Dry Density (Mg/m^3)	1.48
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	390
Deviator Stress (kPa)	340
Undrained Shear Strength (kPa)	170
Failure Strain (%)	8
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	

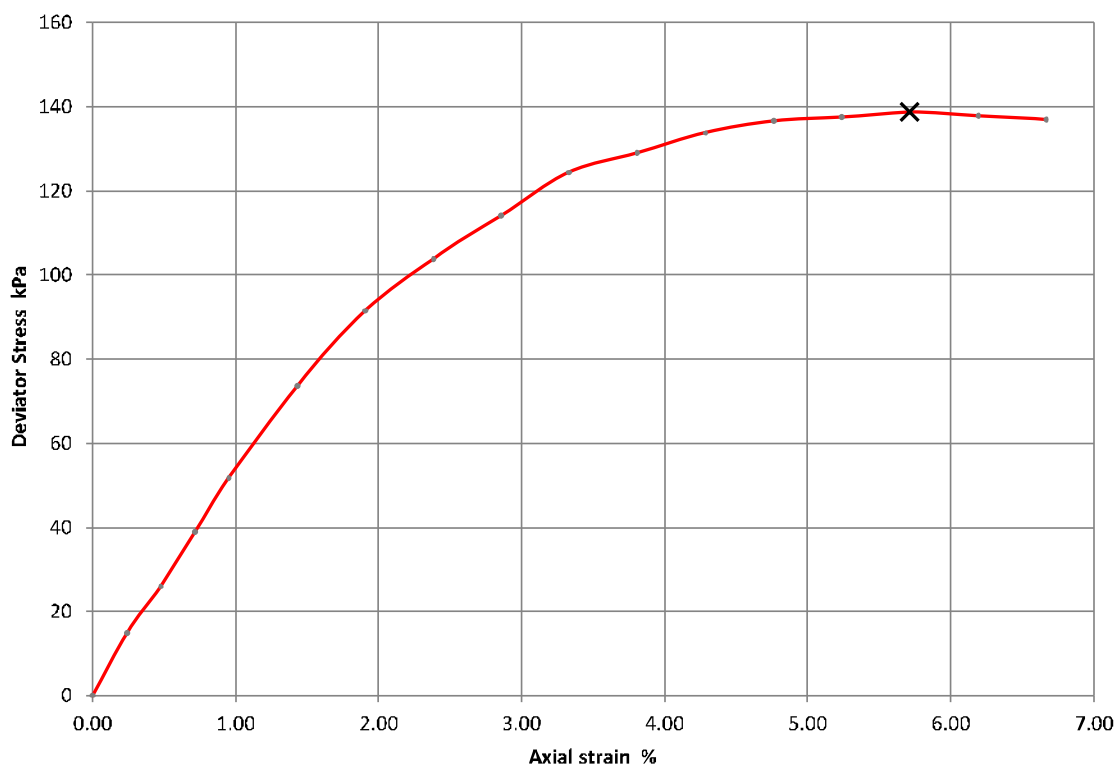


2788



**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

Contract Number	57182	Site Name	12621 - Brunel Walk	Sample No.	
Borehole/Pit No.	BH03	Soil Description	Brown silty CLAY	Depth Top (m)	4.50
				Depth Base (m)	4.95
Date Tested	14/01/2022	Sample Type	U	Technician	Daniel B



Moisture Content (%)	27
Bulk Density (Mg/m^3)	1.88
Dry Density (Mg/m^3)	1.48
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	90
Deviator Stress (kPa)	139
Undrained Shear Strength (kPa)	69
Failure Strain (%)	6
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

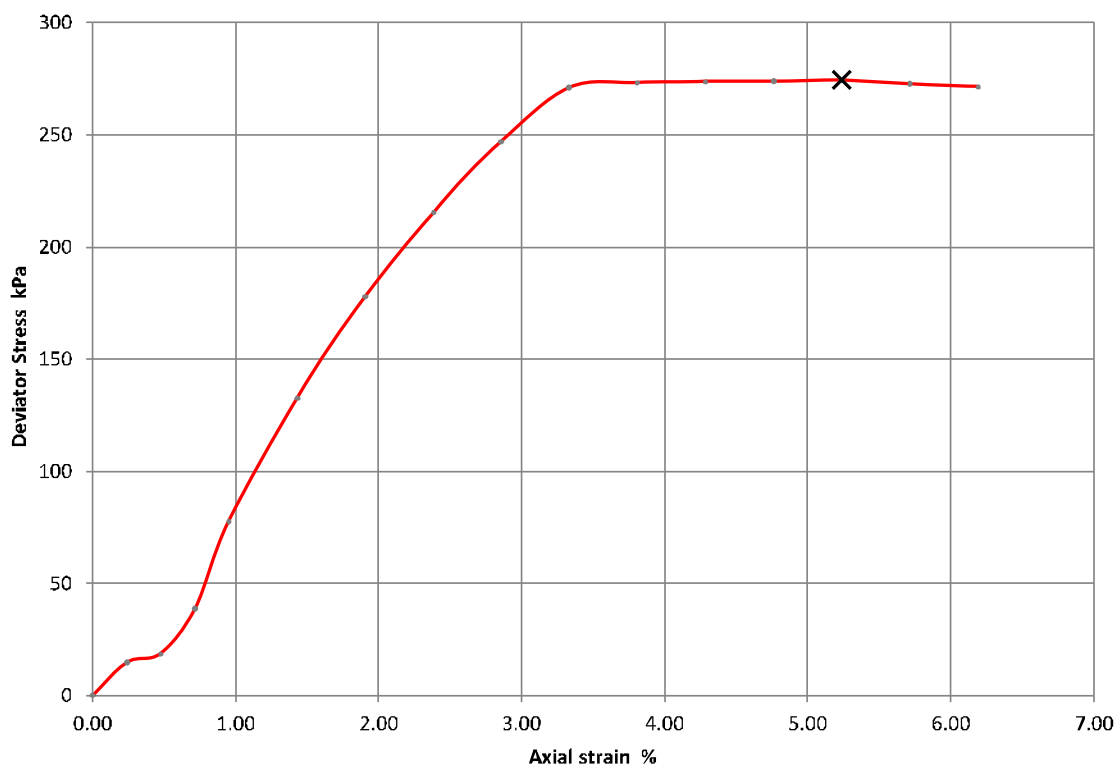
Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	





**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

Contract Number	57182	Site Name	12621 - Brunel Walk	Sample No.	
Borehole/Pit No.	BH03	Soil Description	Brown silty CLAY	Depth Top (m)	10.50
				Depth Base (m)	10.95
Date Tested	14/01/2022	Sample Type	U	Technician	Daniel B



Moisture Content (%)	25
Bulk Density (Mg/m^3)	1.88
Dry Density (Mg/m^3)	1.50
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	210
Deviator Stress (kPa)	274
Undrained Shear Strength (kPa)	137
Failure Strain (%)	5
Mode Of Failure	Brittle
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

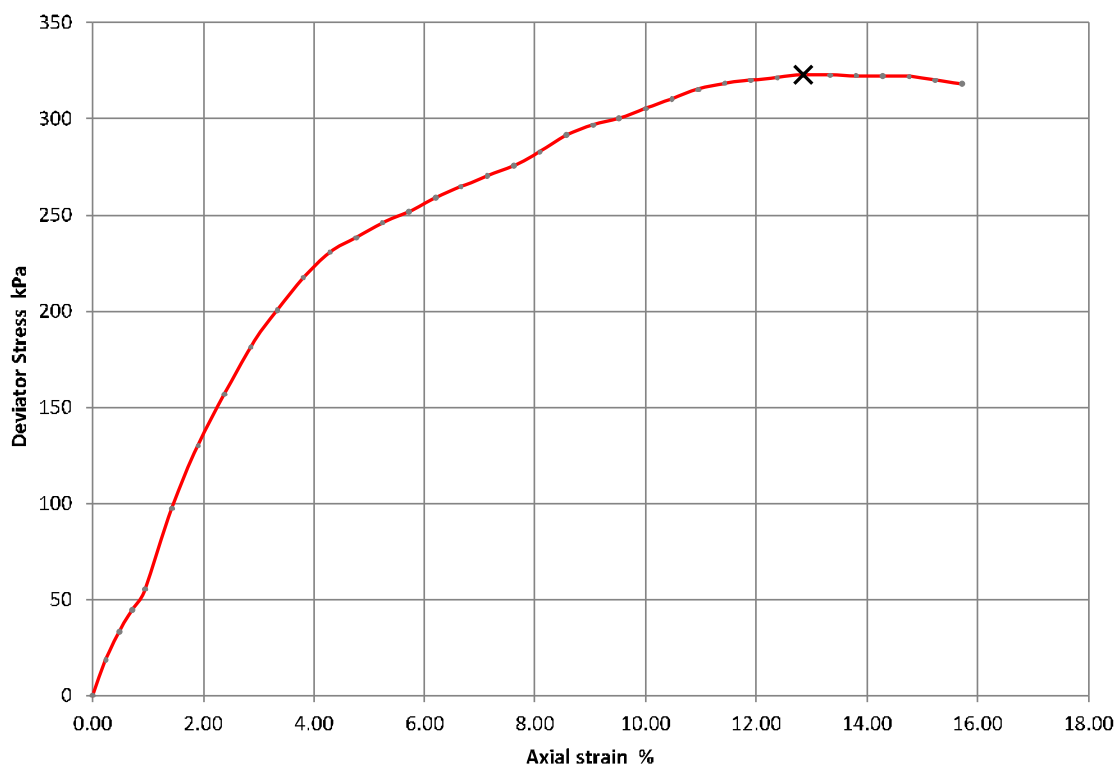
Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	





**Single Stage Unconsolidated-Undrained Triaxial
Test
BS 1377 : 1990 Part 7 : 8**

	Single Stage Unconsolidated-Undrained Triaxial Test BS 1377 : 1990 Part 7 : 8	Contract Number	57182
		Borehole/Pit No.	BH03
Site Name	12621 - Brunel Walk	Sample No.	
Soil Description	Brown silty CLAY	Depth Top (m)	16.50
		Depth Base (m)	16.95
Date Tested	14/01/2022	Sample Type	U
		Technician	Daniel B



Moisture Content (%)	23
Bulk Density (Mg/m ³)	1.98
Dry Density (Mg/m ³)	1.61
Specimen Length (mm)	210
Specimen Diameter (mm)	105
Cell Pressure (kPa)	330
Deviator Stress (kPa)	323
Undrained Shear Strength (kPa)	161
Failure Strain (%)	13
Mode Of Failure	Compound
Membrane Used/Thickness	Rubber/0.3mm
Rate of Strain (%/min)	1.43

Checked	17/01/2022	Richard John	
Approved	18/01/2022	Paul Evans	



2768



Appendix E: Geo-Environmental Laboratory Testing



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-37389

Issue: 1. Replaces Analytical Report number 21-37389; issue no. 0

Date of Issue: 08/12/2021

Contact: ELAB Results

Customer Details: A2 Site Investigation Limited
One Westminster Bridge Road
South Bank
London
SE1 7XW

Quotation No: Q20-01974

Order No: Not Supplied

Customer Reference: 12621

Date Received: 24/11/2021

Date Approved: 08/12/2021

Details: Brunel Walk

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-37389, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
259356	TP3 ES1 0.30	16/11/2021	30/11/2021	Sandy silty loam	fg
259357	TP3 ES2 0.60	16/11/2021	30/11/2021		
259358	TP2 ES1 0.20	16/11/2021	30/11/2021		
259359	TP2 ES2 0.70	16/11/2021	30/11/2021		
259360	TP11 ES1 0.20	16/11/2021	30/11/2021		
259361	TP11 ES2 0.50	16/11/2021	30/11/2021		
259362	TP11 ES3 1.00	16/11/2021	30/11/2021		
259363	TP1 ES1 0.30	16/11/2021	30/11/2021		
259364	BH01 ES1 0.20	16/11/2021	30/11/2021		
259365	BH01 ES2 0.60	16/11/2021	30/11/2021	Silty loam	fg
259366	BH01 ES3 1.20	16/11/2021	30/11/2021		
259367	WS01 ES1 0.30	17/11/2021	30/11/2021		
259368	WS01 ES2 0.80	17/11/2021	30/11/2021	Sandy silty loam	g
259369	WS02 ES1 0.20	17/11/2021	30/11/2021		
259370	WS02 ES2 0.60	17/11/2021	30/11/2021	Silty loam	g
259371	WS02 ES3 1.00	17/11/2021	30/11/2021	Loamy sand	
259372	WS03 ES1 0.30	17/11/2021	30/11/2021		
259373	WS03 ES2 0.80	17/11/2021	30/11/2021		
259374	WS03 ES3 1.20	17/11/2021	30/11/2021		
259375	WS04 ES1 0.30	18/11/2021	30/11/2021	Silty loam	
259376	WS04 ES2 0.80	18/11/2021	30/11/2021		
259377	WS07 ES1 0.30	18/11/2021	30/11/2021		
259378	WS07 ES2 0.60	18/11/2021	30/11/2021	Silty loam	
259379	WS07 ES3 1.20	18/11/2021	30/11/2021		
259380	BH02 ES1 0.20	18/11/2021	30/11/2021		
259381	BH02 ES2 0.60	18/11/2021	30/11/2021	Silty clayey loam	g
259382	TP4 ES1 0.40	17/11/2021	30/11/2021		
259383	TP5 ES1 0.30	17/11/2021	30/11/2021		
259384	TP6 ES1 0.20	17/11/2021	30/11/2021		
259385	TP6 ES2 0.60	17/11/2021	30/11/2021		
259386	TP7 ES1 0.20	17/11/2021	30/11/2021		
259387	TP7 ES2 0.80	17/11/2021	30/11/2021		
259388	TP9 ES1 0.30	17/11/2021	30/11/2021	Silty loam	g
259389	BH03 ES1 0.10	22/11/2021	30/11/2021		
259390	BH03 ES2 0.30	22/11/2021	30/11/2021	Silty clayey loam	
259391	BH03 ES1 1.20	22/11/2021	30/11/2021		
259392	WS06 ES1 0.30	22/11/2021	30/11/2021		
259393	WS06 ES2 0.60	22/11/2021	30/11/2021		
259394	WS06 ES3 1.20	22/11/2021	30/11/2021	Silty clayey loam	g
259395	TP10 ES1 0.20	16/11/2021	30/11/2021		
259396	TP10 ES2 0.70	16/11/2021	30/11/2021		
259397	WS05 ES1 0.30	22/11/2021	30/11/2021		
259398	WS05 ES2 0.60	22/11/2021	30/11/2021		

Sample Summary

Report No.: 21-37389, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
259399	WS05 ES3 1.20	22/11/2021	30/11/2021		
259400	WS08 ES1 0.30	22/11/2021	30/11/2021		
259401	WS08 ES1 0.60	22/11/2021	30/11/2021		
259402	WS08 ES1 1.20	22/11/2021	30/11/2021		
259403	BH01 3.00	17/11/2021	30/11/2021		
259404	BH01 5.00	17/11/2021	30/11/2021		
259405	BH01 7.00	17/11/2021	30/11/2021		
259406	BH01 9.00	17/11/2021	30/11/2021		
259407	BH01 11.00	17/11/2021	30/11/2021		
259408	BH01 13.00	17/11/2021	30/11/2021		
259409	BH01 15.00	17/11/2021	30/11/2021		
259410	BH01 17.00	17/11/2021	30/11/2021		
259411	BH01 19.00	17/11/2021	30/11/2021		
259412	TP1 0.70	16/11/2021	30/11/2021		
259413	WS01 2.00	18/11/2021	30/11/2021		
259414	WS02 2.00	18/11/2021	30/11/2021		
259415	WS03 2.00	18/11/2021	30/11/2021		
259416	WS04 2.00	18/11/2021	30/11/2021		
259417	WS07 3.00	18/11/2021	30/11/2021		
259418	BH02 3.00	18/11/2021	30/11/2021		
259419	BH02 5.00	18/11/2021	30/11/2021		
259420	BH02 7.00	19/11/2021	30/11/2021		
259421	BH02 9.00	19/11/2021	30/11/2021		
259422	BH02 11.00	19/11/2021	30/11/2021		
259423	BH02 13.00	19/11/2021	30/11/2021		
259424	BH02 15.00	19/11/2021	30/11/2021		
259425	BH02 17.00	19/11/2021	30/11/2021		
259426	BH02 19.00	19/11/2021	30/11/2021		
259427	BH03 3.00	22/11/2021	30/11/2021		
259428	BH03 5.00	22/11/2021	30/11/2021		
259429	BH03 7.00	22/11/2021	30/11/2021		
259430	BH03 9.00	22/11/2021	30/11/2021		
259431	BH03 11.00	22/11/2021	30/11/2021		
259432	BH03 13.00	22/11/2021	30/11/2021		
259433	BH03 15.00	22/11/2021	30/11/2021		
259434	BH03 17.00	22/11/2021	30/11/2021		
259435	BH03 19.00	22/11/2021	30/11/2021		
259436	WS03 2.00	22/11/2021	30/11/2021		
259437	WS05 2.00	22/11/2021	30/11/2021		
259438	WS06 2.00	22/11/2021	30/11/2021		



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259356	259365	259368
Customer Reference	ES1	ES2	ES2
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP3	BH01	WS01
Sample Depth (m)	0.30	0.60	0.80
Sampling Date	16/11/2021	16/11/2021	17/11/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Moisture Content	N	%	0.1	10.5	14.3	15.1
Material removed	N	%	0.1	35.5	37.1	37.2
Description of Inert material removed	N		0	Stone	Stone	Stone
Metals						
Arsenic	M	mg/kg	1	14.4	20.3	19.0
Barium	U	mg/kg	10	85.1	194	246
Beryllium	U	mg/kg	1	< 1.0	1.5	1.3
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	40.9	50.1	48.0
Chromium (III)	N	mg/kg	5	40.9	50.1	48.0
Copper	M	mg/kg	5	36.4	45.8	29.6
Lead	M	mg/kg	5	66.7	78.8	41.6
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Molybdenum	N	mg/kg	0.5	1.0	1.2	0.8
Nickel	M	mg/kg	5	26.0	36.0	42.1
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	40.9	76.9	77.5
Zinc	M	mg/kg	5	162	102	73.2
Anions						
Water Soluble Sulphate	M	mg/kg	40	122	43	43
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	< 0.5	< 0.5	0.6
Miscellaneous						
Fraction of Organic Carbon	N		0.0001	0.0171	0.0114	0.0075
pH	M	pH units	0.1	7.8	8.1	8.3
Soil Organic Matter	U	%	0.1	2.2	1.0	0.5
Total Organic Carbon	N	%	0.01	1.7	1.1	0.75



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259356	259365	259368
Customer Reference	ES1	ES2	ES2
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP3	BH01	WS01
Sample Depth (m)	0.30	0.60	0.80
Sampling Date	16/11/2021	16/11/2021	17/11/2021

Determinand	Codes	Units	LOD			
Polyaromatic hydrocarbons **						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	0.2	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	0.2	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.3	0.5	< 0.1
Pyrene	M	mg/kg	0.1	0.3	0.3	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.2	0.4	< 0.1
Chrysene	M	mg/kg	0.1	0.2	0.5	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	0.3	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	0.3	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	0.3	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	1.7	3.3	< 0.4
Naphthalene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Acenaphthylene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Acenaphthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Fluorene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Phenanthrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(a)anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Chrysene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(b)fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(k)fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(a)pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Dibenzo(a,h)anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(g,h,i)perylene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Total PAH(16) GCMS	N	mg/kg	0.04	n/t	n/t	n/t
BTEX						
Benzene	M	ug/kg	10	fg < 10.0	fg < 10.0	g < 10.0
Toluene	M	ug/kg	10	fg < 10.0	fg < 10.0	g < 10.0
Ethylbenzene	M	ug/kg	10	fg < 10.0	fg < 10.0	g < 10.0
Xylenes	M	ug/kg	10	fg < 10.0	fg < 10.0	g < 10.0
MTBE	N	ug/kg	10	fg < 10.0	fg < 10.0	g < 10.0

Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259356	259365	259368
Customer Reference	ES1	ES2	ES2
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP3	BH01	WS01
Sample Depth (m)	0.30	0.60	0.80
Sampling Date	16/11/2021	16/11/2021	17/11/2021

Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	fg < 0.01	fg < 0.01	g < 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	fg < 0.01	fg < 0.01	g < 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	f < 1.0	f 7.1	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	f < 1.0	f 1.4	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	f < 1.0	f 9.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	fg < 0.01	fg < 0.01	g < 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	fg < 0.01	fg < 0.01	g < 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	f 2.1	f 1.9	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	f < 1.0	f < 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	f 3.2	f 3.4	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	f 4.0	f 12.4	< 1.0
PCB (WHO 12 Congeners)						
PCB 81	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 77	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 123	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 118	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 114	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 105	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 126	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 167	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 156	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 157	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 169	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 189	N	mg/kg	0.01	n/t	< 0.01	n/t

PAH analysis by GCMS due to interferences



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259370	259371	259375
Customer Reference	ES2	ES3	ES1
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS02	WS02	WS04
Sample Depth (m)	0.60	1.00	0.30
Sampling Date	17/11/2021	17/11/2021	18/11/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Moisture Content	N	%	0.1	9.9	9.5	11.6
Material removed	N	%	0.1	37.1	38.8	39.2
Description of Inert material removed	N		0	Stone	Stone	Stone
Metals						
Arsenic	M	mg/kg	1	22.0	n/t	n/t
Barium	U	mg/kg	10	181	n/t	n/t
Beryllium	U	mg/kg	1	1.6	n/t	n/t
Cadmium	M	mg/kg	0.5	< 0.5	n/t	n/t
Chromium	M	mg/kg	5	48.4	n/t	n/t
Chromium (III)	N	mg/kg	5	48.4	n/t	n/t
Copper	M	mg/kg	5	59.0	n/t	n/t
Lead	M	mg/kg	5	62.8	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	n/t	n/t
Molybdenum	N	mg/kg	0.5	1.2	n/t	n/t
Nickel	M	mg/kg	5	36.8	n/t	n/t
Selenium	M	mg/kg	1	< 1.0	n/t	n/t
Vanadium	M	mg/kg	5	65.7	n/t	n/t
Zinc	M	mg/kg	5	110	n/t	n/t
Anions						
Water Soluble Sulphate	M	mg/kg	40	53	n/t	n/t
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	n/t
Water Soluble Boron	N	mg/kg	0.5	0.5	n/t	n/t
Miscellaneous						
Fraction of Organic Carbon	N		0.0001	0.0210	n/t	n/t
pH	M	pH units	0.1	8.1	n/t	n/t
Soil Organic Matter	U	%	0.1	1.8	n/t	n/t
Total Organic Carbon	N	%	0.01	2.1	2.2	4.3



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259370	259371	259375
Customer Reference	ES2	ES3	ES1
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS02	WS02	WS04
Sample Depth (m)	0.60	1.00	0.30
Sampling Date	17/11/2021	17/11/2021	18/11/2021

Determinand	Codes	Units	LOD			
Polyaromatic hydrocarbons **						
Naphthalene	M	mg/kg	0.1	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	0.3	n/t	n/t
Anthracene	M	mg/kg	0.1	0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	0.7	n/t	n/t
Pyrene	M	mg/kg	0.1	0.5	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	0.3	n/t	n/t
Chrysene	M	mg/kg	0.1	0.4	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	0.4	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	0.4	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	0.4	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.2	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t
Benzo(g,h,i)perylene	M	mg/kg	0.1	0.2	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	4.1	n/t	n/t
Naphthalene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Acenaphthylene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Acenaphthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Fluorene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Phenanthrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(a)anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Chrysene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(b)fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(k)fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(a)pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Dibenzo(a,h)anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(g,h,i)perylene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Total PAH(16) GCMS	N	mg/kg	0.04	n/t	n/t	n/t
BTEX						
Benzene	M	ug/kg	10	g < 10.0	n/t	n/t
Toluene	M	ug/kg	10	g < 10.0	n/t	n/t
Ethylbenzene	M	ug/kg	10	g < 10.0	n/t	n/t
Xylenes	M	ug/kg	10	g < 10.0	n/t	n/t
MTBE	N	ug/kg	10	g < 10.0	n/t	n/t

Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259370	259371	259375
Customer Reference	ES2	ES3	ES1
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS02	WS02	WS04
Sample Depth (m)	0.60	1.00	0.30
Sampling Date	17/11/2021	17/11/2021	18/11/2021

Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	g < 0.01	n/t	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	g < 0.01	n/t	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	n/t	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	n/t	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	g < 0.01	n/t	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	g < 0.01	n/t	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	n/t	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	1.3	n/t	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	1.9	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	1.9	n/t	n/t
PCB (WHO 12 Congeners)						
PCB 81	N	mg/kg	0.01	n/t	n/t	n/t
PCB 77	N	mg/kg	0.01	n/t	n/t	n/t
PCB 123	N	mg/kg	0.01	n/t	n/t	n/t
PCB 118	N	mg/kg	0.01	n/t	n/t	n/t
PCB 114	N	mg/kg	0.01	n/t	n/t	n/t
PCB 105	N	mg/kg	0.01	n/t	n/t	n/t
PCB 126	N	mg/kg	0.01	n/t	n/t	n/t
PCB 167	N	mg/kg	0.01	n/t	n/t	n/t
PCB 156	N	mg/kg	0.01	n/t	n/t	n/t
PCB 157	N	mg/kg	0.01	n/t	n/t	n/t
PCB 169	N	mg/kg	0.01	n/t	n/t	n/t
PCB 189	N	mg/kg	0.01	n/t	n/t	n/t

PAH analysis by GCMS due to interferences



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259378	259381	259388
Customer Reference	ES2	ES2	ES1
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS07	BH02	TP9
Sample Depth (m)	0.60	0.60	0.30
Sampling Date	18/11/2021	18/11/2021	17/11/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Moisture Content	N	%	0.1	13.8	15.5	14.8
Material removed	N	%	0.1	34.5	38.7	27.0
Description of Inert material removed	N		0	Stone	Stone	Stone
Metals						
Arsenic	M	mg/kg	1	n/t	16.4	23.4
Barium	U	mg/kg	10	n/t	143	138
Beryllium	U	mg/kg	1	n/t	1.0	1.1
Cadmium	M	mg/kg	0.5	n/t	< 0.5	< 0.5
Chromium	M	mg/kg	5	n/t	54.1	47.1
Chromium (III)	N	mg/kg	5	n/t	54.1	47.1
Copper	M	mg/kg	5	n/t	30.3	49.8
Lead	M	mg/kg	5	n/t	26.1	114
Mercury	M	mg/kg	0.5	n/t	< 0.5	< 0.5
Molybdenum	N	mg/kg	0.5	n/t	0.9	1.2
Nickel	M	mg/kg	5	n/t	22.2	30.3
Selenium	M	mg/kg	1	n/t	< 1.0	< 1.0
Vanadium	M	mg/kg	5	n/t	73.5	60.3
Zinc	M	mg/kg	5	n/t	68.5	185
Anions						
Water Soluble Sulphate	M	mg/kg	40	n/t	< 40	119
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	n/t	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	n/t	0.7	2.6
Miscellaneous						
Fraction of Organic Carbon	N		0.0001	n/t	0.0046	0.0274
pH	M	pH units	0.1	n/t	7.9	7.6
Soil Organic Matter	U	%	0.1	n/t	0.8	5.1
Total Organic Carbon	N	%	0.01	2.0	0.46	2.7



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259378	259381	259388
Customer Reference	ES2	ES2	ES1
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS07	BH02	TP9
Sample Depth (m)	0.60	0.60	0.30
Sampling Date	18/11/2021	18/11/2021	17/11/2021

Determinand	Codes	Units	LOD			
Polyaromatic hydrocarbons **						
Naphthalene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	n/t	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	< 0.4	< 0.4
Naphthalene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Acenaphthylene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Acenaphthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Fluorene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Phenanthrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(a)anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Chrysene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(b)fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(k)fluoranthene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(a)pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Dibenzo(a,h)anthracene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Benzo(g,h,i)perylene GCMS	N	mg/kg	0.01	n/t	n/t	n/t
Total PAH(16) GCMS	N	mg/kg	0.04	n/t	n/t	n/t
BTEX						
Benzene	M	ug/kg	10	n/t	g < 10.0	g < 10.0
Toluene	M	ug/kg	10	n/t	g < 10.0	g < 10.0
Ethylbenzene	M	ug/kg	10	n/t	g < 10.0	g < 10.0
Xylenes	M	ug/kg	10	n/t	g < 10.0	g < 10.0
MTBE	N	ug/kg	10	n/t	g < 10.0	g < 10.0

Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259378	259381	259388
Customer Reference	ES2	ES2	ES1
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS07	BH02	TP9
Sample Depth (m)	0.60	0.60	0.30
Sampling Date	18/11/2021	18/11/2021	17/11/2021

Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	n/t	g < 0.01	g < 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	n/t	g < 0.01	g < 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	n/t	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0	21.7
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0	5.7
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	n/t	< 1.0	29.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	n/t	g < 0.01	g < 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	n/t	g < 0.01	g < 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	n/t	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0	6.2
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0	1.4
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	n/t	1.4	8.8
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	n/t	2.3	37.9
PCB (WHO 12 Congeners)						
PCB 81	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 77	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 123	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 118	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 114	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 105	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 126	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 167	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 156	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 157	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 169	N	mg/kg	0.01	n/t	< 0.01	n/t
PCB 189	N	mg/kg	0.01	n/t	< 0.01	n/t

PAH analysis by GCMS due to interferences



Results Summary

2683

Report No.: 21-37389, issue number 1

ELAB Reference	259390	259394
Customer Reference	ES2	ES3
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH03	WS06
Sample Depth (m)	0.30	1.20
Sampling Date	22/11/2021	22/11/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Moisture Content	N	%	0.1	20.4	14.9
Material removed	N	%	0.1	< 0.1	27.9
Description of Inert material removed	N		0	None	Stones
Metals					
Arsenic	M	mg/kg	1	17.8	20.0
Barium	U	mg/kg	10	129	191
Beryllium	U	mg/kg	1	1.5	1.4
Cadmium	M	mg/kg	0.5	< 0.5	0.5
Chromium	M	mg/kg	5	52.8	45.0
Chromium (III)	N	mg/kg	5	52.8	45.0
Copper	M	mg/kg	5	41.8	41.2
Lead	M	mg/kg	5	96.5	145
Mercury	M	mg/kg	0.5	< 0.5	0.6
Molybdenum	N	mg/kg	0.5	0.7	1.8
Nickel	M	mg/kg	5	52.6	35.9
Selenium	M	mg/kg	1	< 1.0	< 1.0
Vanadium	M	mg/kg	5	103	71.2
Zinc	M	mg/kg	5	94.3	115
Anions					
Water Soluble Sulphate	M	mg/kg	40	90	< 40
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	1.0	0.7
Miscellaneous					
Fraction of Organic Carbon	N		0.0001	0.0068	0.0137
pH	M	pH units	0.1	8.3	8.4
Soil Organic Matter	U	%	0.1	1.1	1.6
Total Organic Carbon	N	%	0.01	0.68	1.4

Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259390	259394
Customer Reference	ES2	ES3
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH03	WS06
Sample Depth (m)	0.30	1.20
Sampling Date	22/11/2021	22/11/2021

Determinand	Codes	Units	LOD		
Polyaromatic hydrocarbons **					
Naphthalene	M	mg/kg	0.1	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t
Fluorene	M	mg/kg	0.1	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	n/t
Anthracene	M	mg/kg	0.1	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1	< 0.1	n/t
Pyrene	M	mg/kg	0.1	< 0.1	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	n/t
Chrysene	M	mg/kg	0.1	< 0.1	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	n/t
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	n/t
Naphthalene GCMS	N	mg/kg	0.01	n/t	< 0.01
Acenaphthylene GCMS	N	mg/kg	0.01	n/t	< 0.01
Acenaphthene GCMS	N	mg/kg	0.01	n/t	< 0.01
Fluorene GCMS	N	mg/kg	0.01	n/t	< 0.01
Phenanthrene GCMS	N	mg/kg	0.01	n/t	0.01
Anthracene GCMS	N	mg/kg	0.01	n/t	< 0.01
Fluoranthene GCMS	N	mg/kg	0.01	n/t	0.02
Pyrene GCMS	N	mg/kg	0.01	n/t	0.01
Benzo(a)anthracene GCMS	N	mg/kg	0.01	n/t	< 0.01
Chrysene GCMS	N	mg/kg	0.01	n/t	< 0.01
Benzo(b)fluoranthene GCMS	N	mg/kg	0.01	n/t	< 0.01
Benzo(k)fluoranthene GCMS	N	mg/kg	0.01	n/t	< 0.01
Benzo(a)pyrene GCMS	N	mg/kg	0.01	n/t	< 0.01
Indeno(1,2,3-cd)pyrene GCMS	N	mg/kg	0.01	n/t	< 0.01
Dibenzo(a,h)anthracene GCMS	N	mg/kg	0.01	n/t	< 0.01
Benzo(g,h,i)perylene GCMS	N	mg/kg	0.01	n/t	< 0.01
Total PAH(16) GCMS	N	mg/kg	0.04	n/t	0.07
BTEX					
Benzene	M	ug/kg	10	< 10.0	g < 10.0
Toluene	M	ug/kg	10	< 10.0	g < 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	g < 10.0
Xylenes	M	ug/kg	10	< 10.0	g < 10.0
MTBE	N	ug/kg	10	< 10.0	g < 10.0



Results Summary

Report No.: 21-37389, issue number 1

ELAB Reference	259390	259394
Customer Reference	ES2	ES3
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH03	WS06
Sample Depth (m)	0.30	1.20
Sampling Date	22/11/2021	22/11/2021

Determinand	Codes	Units	LOD		
TPH CWG					
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	g < 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	g < 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	3.3
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	10.1
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	60.9
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	14.4
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	89.3
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	g < 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	g < 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	3.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	17.2
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	175
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	32.6
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	229
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	319
PCB (WHO 12 Congeners)					
PCB 81	N	mg/kg	0.01	< 0.01	n/t
PCB 77	N	mg/kg	0.01	< 0.01	n/t
PCB 123	N	mg/kg	0.01	< 0.01	n/t
PCB 118	N	mg/kg	0.01	< 0.01	n/t
PCB 114	N	mg/kg	0.01	< 0.01	n/t
PCB 105	N	mg/kg	0.01	< 0.01	n/t
PCB 126	N	mg/kg	0.01	< 0.01	n/t
PCB 167	N	mg/kg	0.01	< 0.01	n/t
PCB 156	N	mg/kg	0.01	< 0.01	n/t
PCB 157	N	mg/kg	0.01	< 0.01	n/t
PCB 169	N	mg/kg	0.01	< 0.01	n/t
PCB 189	N	mg/kg	0.01	< 0.01	n/t

PAH analysis by GCMS due to interferences



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 21-37389, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
259356	0.30	TP3 ES1	Brown Sandy Soil, Stones, Wood	No asbestos detected	n/t	n/t	n/t	n/t
259365	0.60	BH01 ES2	Brown sandy Soil, Stones, Brick	No asbestos detected	n/t	n/t	n/t	n/t
259368	0.80	WS01 ES2	Brown sandy Soil, Stones, Brick	No asbestos detected	n/t	n/t	n/t	n/t
259370	0.60	WS02 ES2	Brown sandy soil, Stones, Brick	No asbestos detected	n/t	n/t	n/t	n/t
259381	0.60	BH02 ES2	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
259388	0.30	TP9 ES1	Brown Soil, Stones, Synthetic Fibres, Wood	No asbestos detected	n/t	n/t	n/t	n/t
259390	0.30	BH03 ES2	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t
259394	1.20	WS06 ES3	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-37389, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
PAH (GC-MS)	N	As submitted sample	07/12/2021		GC-MS
PCB (WHO 12 Congeners)	N	Air dried sample	03/12/2021		GC-MS
Hexavalent chromium	N	As submitted sample	03/12/2021	110	Colorimetry
pH	M	Air dried sample	07/12/2021	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	03/12/2021	118	ICPMS
PAH (GC-FID)	M	As submitted sample	02/12/2021	133	GC-FID
Water soluble anions	M	Air dried sample	03/12/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	06/12/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	06/12/2021	181	GC-MS
BTEX in solids	M	As submitted sample	06/12/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	03/12/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	06/12/2021	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	02/12/2021	271	
Asbestos identification	U	Air dried sample	03/12/2021	280	Microscopy
Soil organic matter	U	Air dried sample	07/12/2021	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-37389, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry