

FACTUAL REPORT

LHR114 Ridgeway Trading Estate

PREPARED FOR: Ove Arup and Partners

ISSUE 00

Concept: 21/3593- FR01

27/08/2021

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Issued to:	Arup
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APPENDIX A: DETAILED UXO RISK ASSESSMENT

1. PROJECT PARTICULARS

Site Location:	LHR114 Ridgeway Trading Estate
Client:	Ove Arup & Partners
Investigation Supervisor:	Ove Arup & Partners
Fieldwork:	12/07/2021 – 28/07/2021
Laboratory Work:	16/07/2021 – Ongoing
Postfiledwork:	10/08/2021 – Ongoing

2. PURPOSE AND SCOPE OF WORKS

The purpose of the investigation was to understand the ground and groundwater conditions at the site, determine the nature and extent of any ground and groundwater contamination and establish geotechnical parameters for use in design.

The site was an occupied trading estate.

The scope of the works comprised the following:

- 6 No. Cable Percussion Boreholes to a maximum depth of 31.00m;
- 12 No. Dynamic Sampling Boreholes to a maximum depth of 5.00m;
- Logging and Photographing;
- Instrumentation Monitoring and Sampling;
- Geotechnical & Chemical Testing.

Table 1 – Exploratory Hole List

Hole ID	Hole Type	Depth (m)	Easting	Northing	Level (mOD)
BH1	CP	31.00	503367.32	180384.55	34.22
BH2	CP	31.00	503390.95	180498.31	34.17
BH3	CP	20.00	503455.58	180411.39	34.42
BH4	CP	31.00	503500.93	180455.72	34.15
BH5	CP	20.00	503526.79	180546.89	34.35
BH6	CP	20.00	503484.45	180385.52	34.32
WS101	DS	4.00	503615.98	180448.56	34.40
WS102	DS	3.40	503595.21	180392.92	34.24
WS103	DS	5.00	503488.89	180362.20	34.26
WS104	DS	4.00	503401.49	180333.73	34.04
WS105	DS	4.00	503449.12	180436.48	34.26

Hole ID	Hole Type	Depth (m)	Easting	Northing	Level (mOD)
WS106	DS	3.70	503359.48	180469.96	34.21
WS107	DS	3.90	503302.79	180454.83	34.18
WS108	DS	3.70	503554.57	180467.79	34.40
WS109	DS	2.40	503591.98	180526.80	34.84
WS110	DS	4.40	503587.17	180563.52	34.95
WS111	DS	2.40	503436.83	180586.12	34.98
WS112	DS	2.30	503420.14	180558.75	34.26

Key

CP – Cable Percussion Borehole
DS – Dynamic Sampling Borehole

3. DESCRIPTION OF WORKS

The works were carried out in accordance with the Arup “LHR114 Ridgeway Trading Estate” Geotechnical and Geoenvironmental Ground Investigation Specification document with reference 276894/S001, First Issue, dated 08 July 2021 and Concept’s Method Statement with reference no: 21/3593-RAMS-00dated 02/07/2021.

The site was bounded by the wider trading estate to the east, open fields to the north and west and the Grand Union Canal to the south. The approximate centre of the site was located at National Grid Reference E503479, N180452.

The locations of all exploratory holes are shown in the Exploratory Hole Location Plan presented in [Section 7](#) of this report.

4. INVESTIGATION METHODS

4.1 Utilities Survey and Inspection Pits

Prior to boring commencing all exploratory hole locations were checked for utilities /buried services using a CAT and genny, existing utility information and hand dug inspection pits to an appropriate depth as identified by the services plans. A hand dug inspection pit was excavated at each exploratory hole location to an appropriate depth as identified by the services plans typically to a maximum depth of 1.20m.

Where surface concrete and asphalt encountered it was broken out by hand held electric breaker or diamond cored.

4.2 Detailed UXO Risk Assessment

A detailed UXO risk assessment was carried out by Primely Ltd with Document Reference: DRA-21-073-28 Ridgeway Industrial Estate. Primely assessed that there was a Medium risk of items of unexploded German aerial delivered and other types of munitions constituted a Low risk.

The report is included in [Appendix A](#).

UXO survey clearance was undertaken in each exploratory hole location during drilling by a specialist contractor.

4.3 Cable Percussion Drilling

6 No. Cable Percussion Boreholes (BH1-BH6) were drilled to a maximum depth of 31.00m using Dando 1000 and 4000 rigs with 200mm and 150mm diameter casing as appropriate.

4.3.1 Sampling and Testing during Cable Percussion Drilling

Bulk samples were taken at regular intervals in the Made Ground and thereafter at each change in strata. Undisturbed 102mm (U100) nominal diameter samples were taken using a down-hole sliding hammer in cohesive material at specified intervals or as instructed by the Investigation Supervisor.

Standard Penetration Tests (SPT) were carried out at specified intervals or as otherwise instructed by the Investigation Supervisor. The resulting SPT “N” blowcount values are presented in the relevant borehole records. Where an SPT using a split spoon sampler was not possible, due to the granular nature of the material, a solid cone was used. The SPT hammer calibration sheets are included in [Section 8](#) of this report.

Small, disturbed samples were retrieved from the cutting shoe of the U100 sampler, the SPT split spoon sampler and at intervals specified by the Investigation Supervisor.

Environmental samples (tubs, jars and vials) were taken for chemical analysis in the Made Ground or at each change of strata and where visual or olfactory evidence of contamination was noted or as instructed by the Investigation Supervisor. Headspace readings for volatile organic compound (VOC) content were taken in all of the samples using a Phocheck Tiger photoionization detector.

The borehole logs are presented in [Section 8](#) of this report.

4.4 Dynamic Sampling Boreholes

12 No. Dynamic Sampling Boreholes (WS101-WS111) were carried out to a maximum depth of 5.00m. The boreholes were drilled using a tracked Geo drive-tube sampling rig.

WS101 was aborted at 4.00m depth due to instability WS102, WS109, WS111 and WS112 were terminated at 3.40m, 2.40m, 2.40m and 2.30m depths due to refusal.

Semi-rigid plastic core liners were recovered from each borehole location. The excavated soil was logged in accordance with BS 5930:2020 and photographed.

Environmental samples (tubs, jars and vials) were taken for chemical analysis from the liners at regular intervals for the full depth of the borehole. Headspace readings for volatile organic compound (VOC) content were taken using a Phocheck Tiger photoionization detector. Representative bulk and disturbed samples were taken for soil analysis.

The borehole logs are presented in [Section 9](#) of this report.

4.5 Standpipe Installations and Backfill

Monitoring wells were installed in the boreholes as follows:

Table 2 – Monitoring Installation Details

Hole ID	Base of Borehole (m bgl)	Diameter of Installation (mm)	Type of Installation	Base of Installation (m bgl)	Response Zone	
					Top (m bgl)	Bottom (m bgl)
BH1	31.00	50	GMP	1.00	0.50	1.00
		50	GWMP	2.80	1.50	2.80
BH2	31.00	50	GMP	1.00	0.50	1.00
		50	GWMP	3.50	2.00	3.50
BH3	20.00	50	GMP	1.20	0.50	1.20
		50	GWMP	3.80	1.70	3.80
BH4	31.00	50	GMP	0.80	0.45	0.80
		50	GWMP	2.70	1.00	2.70
BH5	20.00	50	GMP	1.00	0.50	1.00
		50	GWMP	2.70	1.50	2.70
BH6	20.00	50	GMP	0.80	0.40	0.80
		50	GWMP	3.70	1.30	3.70
WS101	4.00	50	GWMP	3.20	2.20	3.20
WS102	3.40	50	GWMP	3.40	1.70	3.40
WS103	5.00	50	GWMP	4.30	3.20	4.30
WS104	4.00	50	GWMP	3.60	2.10	3.60
WS105	4.00	50	GWMP	3.00	2.00	3.00
WS106	3.70	50	GWMP	2.40	1.50	2.40
WS107	3.90	50	GWMP	2.90	1.70	2.90
WS108	3.70	50	GWMP	2.90	2.00	2.90
WS109	2.40	50	GWMP	2.20	1.70	2.20
WS110	4.40	50	GWMP	3.00	1.50	3.00
WS111	2.40	50	GWMP	2.00	1.00	2.00
WS112	2.30	50	GWMP	2.10	1.60	2.10

KEY

GMP – Gas and groundwater Standpipe
GWMP – Groundwater Standpipe

The boreholes were backfilled with bentonite pellets with gas/groundwater response zones backfilled with a 10mm pea shingle filter with a geosock surround. All installations were finished with bentonite pellets to the surface with concrete and a lockable stopcock cover flush with the ground.

4.6 Instrumentation Monitoring and Sampling

Gas and groundwater monitoring and sampling was carried out by Concept subsequent to completion of the boreholes on 4 No scheduled visits on two consecutive days starting 10/08/2021. Historic boreholes close to BH1 and BH2 were also monitored.

At the time of issue of this report 1No monitoring round was outstanding.

All boreholes were developed at least one week prior to sampling using a Wasp pump which provides a relatively high pumping rate to remove water and entrained sediment. Development continued until either the well ran dry, the water ran clear or at least 10 well volumes were removed.

Water samples were taken on the 10-11/08/2021 and 24-25/08/2021 from all borehole installations with sufficient amount of water, using a peristaltic pump at a low pumping rate. The pump tubing was lowered to target the standpipe response zone and a dipmeter was used during purging to ensure that the pumping rate did not reduce the water level. Generally, the water level remained steady at pumping rates of 1 litre every 3 minutes. Water parameters (pH, conductivity, dissolved oxygen, temperature and Redox levels) were recorded during purging using a flow cell and a YSI Professional Probe. Purging was considered complete when parameters stabilised to within 10%. Generally, the water was noted as clear and the purging complete after 3 litres were removed. On completion of purging, the water samples were collected in containers (3x300ml and 3xvial). They were then transferred to Concept laboratory inside cool boxes protected by bubble wrap and kept in the fridge until collection from the chemical laboratory was arranged. Each borehole was purged and sampled using a new length of tubing.

An In-Situ Rugged interface probe was used to prove/disprove the presence LNAPL and DNAPL. However neither LNAPL nor DNAPL were detected throughout the water column in the boreholes. The gas concentrations were recorded using a Gas data GFM436 and LMSxi gas monitors. Where 0.00 is shown on the results indicates value lower than the detection limit of the machine. The accuracy of the instruments is summarised in [Section 10](#) where the gas monitoring reports and groundwater results are presented.

4.7 Logging / Laboratory Testing

Logging of all soil samples was carried out in accordance with BS 5930:2020.

Geotechnical testing was performed at Concept Site Investigations laboratory in accordance with BS1377:1990 unless otherwise stated in the report. Concept is accredited by UKAS for tests where the UKAS logo is appended to the individual test report or summary. Approved signatories for laboratory testing are as follows:

- LG – Lynn Griffin (Quality Manager)
- KM – Kasia Mazerant (Laboratory Manager)

Where subcontracted analysis has been carried out, the details of the laboratory (and accreditation where applicable) are shown in the individual test report or summary.

The results are presented in tabular format in [Section 11](#) of this report.

All chemical testing was carried out by Eurofins Chemtest Ltd in accordance with the requirements of UKAS ISO17025 and MCERTS. The results are presented in tabular format in [Section 12](#) of this report.

4.8 Setting Out

The locations of all exploratory holes were agreed with the Investigation Supervisor and set out prior to commencement of the site works.

Following completion of the ground works the locations and elevations of the boreholes and pits were established by Concept's specialist subcontractor JPP Surveying Ltd using total survey equipment with accuracy between +/- 2mm and 5mm and GPS equipment with an accuracy between +/- 10mm and 20mm.

The co-ordinates and levels of the as-built locations of the boreholes are shown in the Exploratory Hole Location Plan presented in [Section 7](#) of this report.

5. GEOLOGICAL GROUND PROFILE

The geological strata encountered during the investigation are summarised in the table below. The Top and Bottom of the strata noted in the table indicates the highest and lowest boundaries encountered in all exploratory holes.

Table 3 - Geological Ground Profile

STRATUM	TOP (mOD)	BASE (mOD)	DESCRIPTION
MADE GROUND	34.98	30.94	Topsoil (<i>WS105 only</i>)/ Concrete/ Asphalt over, Reddish brown sandy GRAVEL with high brick and concrete cobble content and occasional rootlets. Gravel comprises angular to subangular fine to coarse flint, concrete, brick, clinker, ceramic, coal, glass and metal fragments. Dark brown slightly gravelly silty fine to coarse SAND with occasional roots. Dark greyish brown slightly gravelly very sandy SILT with frequent rootlets. Soft to firm, yellowish brown slightly gravelly sandy silty CLAY with occasional black flecks.
LANGLEY SILT MEMBER <i>(Encountered in BH4, BH5, WS102, WS105, WS107, WS108, WS109 & WS110)</i>	33.85	31.86	Orangish brown slightly gravelly clayey fine to medium SAND. Brown slightly gravelly sandy clayey SILT with frequent rootlets.

STRATUM	TOP (mOD)	BASE (mOD)	DESCRIPTION
			Light brown slightly sandy slightly gravelly silty CLAY with occasional pockets of light grey silty fine sand.
RIVER TERRACE DEPOSITS	33.78	30.16	Very dense, orangish brown sandy subangular to rounded fine to coarse flint GRAVEL. Sand is medium to coarse. Dark greyish brown and orangish brown slightly gravelly fine to coarse SAND
WEATHERED LONDON CLAY	31.72	29.32	Firm to stiff, extremely closely fissured orangish brown mottled grey slightly sandy slightly gravelly silty CLAY with occasional pockets of orangish brown silty fine sand and rare dark grey flecks. Gravel is subangular to subrounded fine to medium flint. Fissures are randomly orientated, planar, smooth, unpolished.
LONDON CLAY FORMATION	31.02	5.92	Very stiff, extremely closely to very closely fissured brown slightly micaceous silty CLAY with rare pockets of dark grey silt, off-white shell fragments, lenses of white silt, white flecks and occasional to frequent bioturbation. Fissures are subvertical, undulating, rough, unpolished.
HARWICH FORMATION <i>(Encountered in BH1, BH2 & BH4)</i>	6.77	4.15	Very stiff, dark greyish brown slightly sandy silty CLAY with frequent pockets of greyish brown and dark grey silty fine sand, occasional to frequent off-white and brown shell fragments and rare lignite fragments.
LAMBETH GROUP	5.27	Extent not proven	Very stiff, blue mottled greyish blue and yellowish brown silty CLAY with rare pockets of light grey and dark grey silty fine sand.

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UK Specification for Ground Investigation, (2011) Site Investigation Steering Group, Thomas Telford, London

British Geological Survey (1996) London and the Thames Valley 4th Edition, London HMSO.

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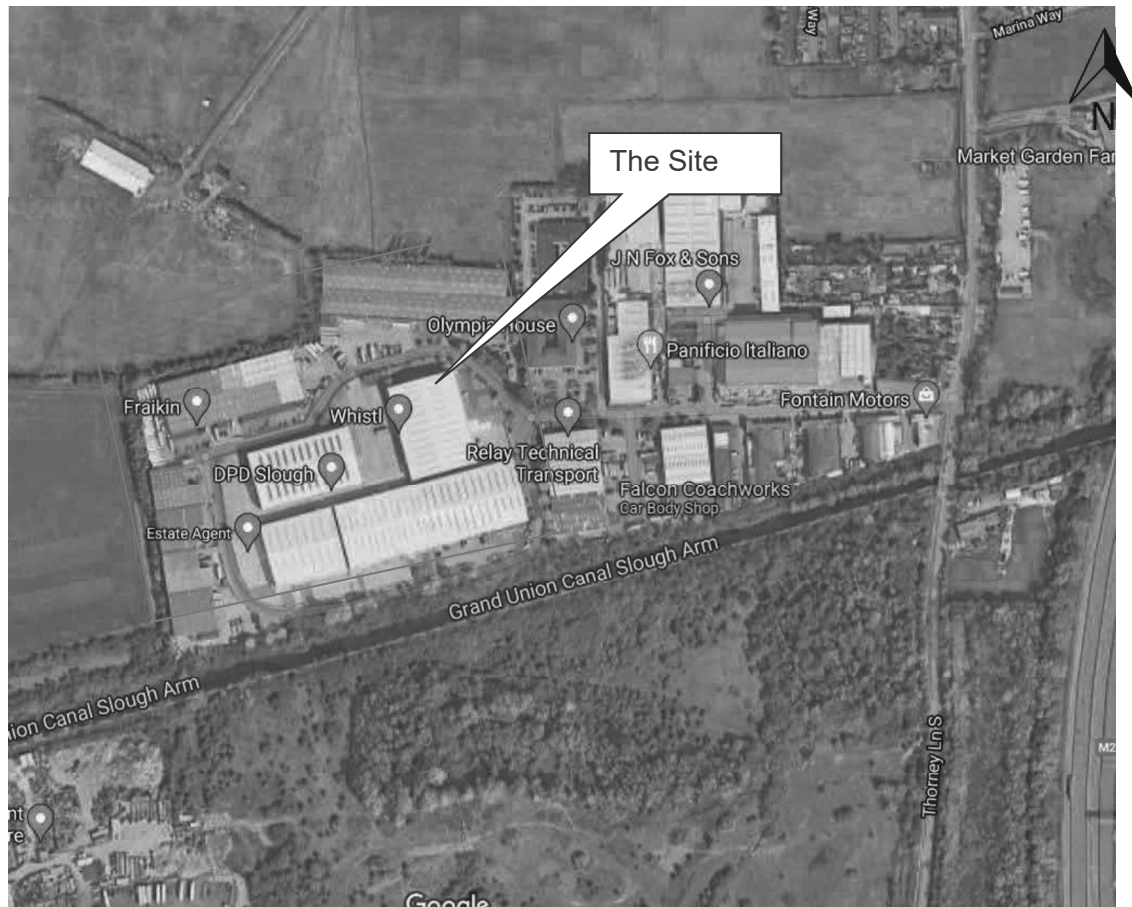
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6. SITE LOCATION PLAN



Not to Scale / Map data ©2021 Google

7. EXPLORATORY HOLE LOCATION PLAN



Hole ID	Eastings	Northing	Level (mOD)
BH1	503367.32	180384.55	34.22
BH2	503390.95	180498.31	34.17
BH3	503455.56	180411.39	34.42
BH4	503500.93	180455.72	34.15
BH5	503526.79	180546.89	34.35
BH6	503484.45	180385.52	34.32
WS101	503615.98	180448.56	34.40
WS102	503595.21	180392.92	34.24
WS103	503488.89	180362.20	34.26
WS104	503401.49	180333.73	34.04
WS105	503449.12	180436.48	34.26
WS106	503359.48	180468.96	34.21
WS107	503302.79	180454.83	34.18
WS108	503554.57	180467.79	34.40
WS109	503591.98	180526.80	34.84
WS110	503587.17	180563.52	34.95
WS111	503436.63	180586.12	34.98
WS112	503420.14	180558.75	34.28

8. CABLE PERCUSSION BOREHOLE LOGS

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

19/07/21

Date Completed

21/07/21

Ground Level (mOD)

34.22

Co-Ordinates

E 503367.32 N 180384.55

Final Depth

31.00m

Client

Ove Arup and Partners

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 31.00	IP CP	19/07/2021 19/07/2021	19/07/2021 20/07/2021	GM GM	AB/AN AN			Hand Excavated Dando 4000	805

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
28.30	28.30	20	4.50		1.50	2.80				

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Duration (hr)	Recovery (%)
0.00 4.00 31.00	200 200 150	0.00 3.00 4.50	200 200 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP	50	1.00	0.50	1.00	21/07/2021
GWMP	50	2.80	1.50	2.80	21/07/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.25 0.50 1.00 1.50 2.80	0.25 0.50 1.00 1.50 2.80 31.00	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Pea Shingle Bentonite Pellets	21/07/2021	Flush Cover



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Borehole No

BH1

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

19/07/21

Date Completed

21/07/21

Ground Level (mOD)

34.22

Co-Ordinates

E 503367.32 N 180384.55

Final Depth

31.00m

Client

Ove Arup and Partners

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
19/07/21	0.00		Dry	... Water Added	C	1.50	N50/0.105	5, 11 / 26, 24	1.50	Wet
19/07/21	1.20		Dry		C	2.50	N12	4, 5 / 5, 3, 2, 2	2.50	Wet
19/07/21	1.50	1.50	Wet		S	4.00	N15	1, 2 / 3, 3, 4, 5	3.00	Dry
19/07/21	3.50	3.00	Dry		S	5.00	N18	2, 3 / 4, 4, 5, 5	4.50	Dry
19/07/21	13.00	4.50	Dry	... Water Strike	S	6.00	N22	2, 3 / 4, 5, 6, 7	4.50	Dry
20/07/21	13.00	4.50	Dry		S	7.00	N23	2, 3 / 4, 5, 6, 8	4.50	Dry
20/07/21	28.30	4.50	28.30		S	8.00	N26	2, 3 / 4, 7, 7, 8	4.50	Dry
20/07/21	28.50	4.50	Dry		S	9.50	N28	3, 4 / 5, 6, 8, 9	4.50	Dry
20/07/21	31.00	4.50	Dry		S	11.00	N29	3, 4 / 5, 7, 8, 9	4.50	Dry
					S	12.50	N33	3, 6 / 6, 7, 9, 11	4.50	Dry
					S	14.00	N31	3, 5 / 5, 8, 8, 10	4.50	Dry
					S	15.50	N34	4, 5 / 7, 7, 9, 11	4.50	Dry
					S	17.00	N39	4, 6 / 8, 8, 10, 13	4.50	Dry
					S	18.50	N41	4, 6 / 8, 9, 11, 13	4.50	Dry
					S	20.00	N40	4, 6 / 8, 8, 11, 13	4.50	Dry
					S	21.50	N43	4, 6 / 8, 9, 11, 15	4.50	Dry
					S	23.00	N45	5, 7 / 7, 11, 12, 15	4.50	Dry
					S	24.50	N48	5, 7 / 8, 11, 13, 16	4.50	Dry
					S	26.00	N50	5, 8 / 10, 10, 14, 16	4.50	Dry
					S	27.50	N50/0.255	6, 8 / 12, 14, 16, 8	4.50	Dry
					S	29.00	N50/0.265	5, 7 / 10, 12, 15, 13	4.50	Dry
					S	30.50	N50/0.255	5, 8 / 12, 14, 15, 9	4.50	Dry

GENERAL REMARKS

1. UXO carried out in the borehole.
2. Water seepage encountered at 28.30m depth with no rise.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

GMP - Gas monitoring point IP - Inspection Pit, TP-Trial Pit TT - Trial Trench
GWMP - Groundwater monitoring point CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
SPIE - Standpipe piezometer DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
EPIE - Electronic Piezometer DC - Diamond Coring, CP/R-Cable Percussion Rotary follow on
SP - Standpipe

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

27/08/2021 16:41



Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 19/07/21 Date Completed 21/07/21	Ground Level (mOD) 34.22	Co-Ordinates E 503367.32 N 180384.55	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 1 of 3		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/07/21		Dry	34.02		0.20	CONCRETE.	0.00	ES1A B1			
					(0.50)	Light brown slightly clayey silty gravelly fine to coarse SAND. Gravel comprises angular to subangular fine to coarse flint, concrete and brick fragments.	0.20-0.50			VOC 0.1ppm	
			33.52		0.70	(MADE GROUND)	0.30	ES2 B3			
					(0.80)	Light brown slightly sandy gravelly silty CLAY. Gravel comprises angular to subangular fine to coarse flint and brick fragments.	0.50-0.70			VOC 0.1ppm	
19/07/21		Dry				(MADE GROUND)	0.70	ES4 B5			
19/07/21	1.50	Wet	32.72		1.50	Very dense, orangish brown sandy subangular to rounded fine to coarse flint GRAVEL. Sand is medium to coarse. (RIVER TERRACE DEPOSITS)	0.70-1.20			VOC 0.1ppm	
					(1.00)		1.20	ES6	N50/105 mm	5, 11 / 26, 24	
							1.50			VOC 0.5ppm	
			31.72		2.50		1.50	ES7 B8			
					(0.70)	Firm, orangish brown locally mottled grey slightly sandy slightly gravelly silty CLAY with occasional pockets of orangish brown silt (<35mm) and rare dark flecks. Gravel is subangular to subrounded fine to coarse flint. Sand is fine to medium. (THAMES GROUP: WEATHERED LONDON CLAY)	2.50	B9	N12	4, 5 / 5, 3, 2, 2	
			31.02		3.20		2.80	ES10		VOC 0.3ppm	
19/07/21	3.00	Dry					2.80				
							3.50-3.95	U11	20 blows	100% Recovery	
							3.95	D12			
							4.00		N15	1, 2 / 3, 3, 4, 5	
							4.00-4.45	D13			
							4.50-4.95	U14	40 blows	100% Recovery	
							4.95	D15			
							5.00		N18	2, 3 / 4, 4, 5, 5	
							5.00-5.45	D16			
							5.50-5.95	U17	40 blows	100% Recovery	
							5.95	D18			
							6.00		N22	2, 3 / 4, 5, 6, 7	
							6.00-6.45	D19			
							6.50-6.95	U20	50 blows	100% Recovery	
							6.95	D21			
							7.00		N23	2, 3 / 4, 5, 6, 8	
							7.00-7.45	D22			
							7.50-7.95	U23	50 blows	100% Recovery	
							7.95	D24			
							8.00		N26	2, 3 / 4, 7, 7, 8	
							8.00-8.45	D25			
							8.70	D26			
							9.00-9.45	U27	60 blows	100% Recovery	
							9.45	D28			
							9.50		N28	3, 4 / 5, 6, 8, 9	
							9.50-9.95	D29			
							10.20	D30			
							10.50-10.95	U31	70 blows	100% Recovery	
							10.95	D32			

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 19/07/21 Date Completed 21/07/21	Ground Level (mOD) 34.22	Co-Ordinates E 503367.32 N 180384.55	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 2 of 3		

PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
19/07/21 20/07/21	4.50 4.50	Dry Dry	20.27		13.95	10.95 ... with rare white flecks	11.00 11.00-11.45 11.70 12.00-12.45 12.45 12.50 12.50-12.95 13.20 13.50-13.95	D33 D34 U35 D36 D37 D38 U39	N29 100 blows N33 100 blows	3, 4 / 5, 7, 8, 9 100% Recovery 3, 6 / 6, 7, 9, 11 100% Recovery		
			16.52		17.70	Very stiff, extremely closely fissured brownish grey slightly micaceous CLAY with rare off-white shell fragments (<3mm) and bioturbation. Fissures are subhorizontal, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3i) 14.70 ... with occasional weak, light brown fine to medium gravel size claystone fragments 15.45 ... with rare white flecks 16.20 ... with a pocket of weak, light brown fine to medium gravel size claystone fragments 16.95 ... with occasional pockets of light brown silty fine sand (<40mm), occasional to rare very weak, light brown fine to medium gravel size claystone fragments and 1No pyrite nodule (<35mm)	13.95 14.00 14.00-14.45 14.70 15.00-15.45 15.45 15.50 15.50-15.95 16.20 16.50-16.95 16.95 17.00 17.00-17.45 17.70	D40 D41 D42 U43 D44 D45 D46 U47 D48 D49 D50	N31 90 blows N34 100 blows N39 100 blows	3, 5 / 5, 8, 8, 10 100% Recovery 4, 5 / 7, 7, 9, 11 100% Recovery 4, 6 / 8, 8, 10, 13 100% Recovery		
						Very stiff, greyish brown slightly sandy slightly micaceous silty CLAY with occasional pockets of light brown silty fine sand (<45mm), rare off-white shell fragments (<5mm) and white flecks. (THAMES GROUP: LONDON CLAY FORMATION - A2) 18.50 ... with occasional bioturbation 19.20 ... with rare pockets of dark grey silt (<15mm) 20.00 ... with rare pockets of light grey fine sand (<20mm) and lignite fragments (<5mm) 20.70 ... with frequent bioturbation and rare foraminifera 21.45 ... with occasional dark grey flecks	18.00-18.45 18.45 18.50 18.50-18.95 19.20 19.50-19.95 19.90 20.00 20.00-20.45 20.70 21.00-21.45 21.45 21.50 21.50-21.95	U51 D52 D53 D54 U55 D56 D57 D58 U59 D60 D61	100 blows N41 100 blows N40 100 blows N43	100% Recovery 4, 6 / 8, 9, 11, 13 89% Recovery 4, 6 / 8, 8, 11, 13 100% Recovery 4, 6 / 8, 9, 11, 15		

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 19/07/21
Date Completed 21/07/21

Ground Level (mOD)
34.22

Co-Ordinates
E 503367.32 N 180384.55

Final Depth
31.00m

Client
Ove Arup and Partners

Method/
Plant Used Cable Percussion

Sheet
3 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
						22.20 ... with frequent white flecks	22.20	D62			
							22.50-22.95	U63	100 blows	100% Recovery	
							22.95	D64			
					(10.60)	22.95 ... with rare foraminifera and lignite fragments (<7mm)	23.00		N45	5, 7 / 7, 11, 12, 15	
						23.00 ... with frequent pockets of light brown fine sand (<35mm)	23.00-23.45	D65			
							23.70	D66			
						23.70 ... becoming sandy	24.00-24.45	U67	100 blows	100% Recovery	
							24.45	D68			
						24.45 ... with occasional pockets of dark grey silt (<35mm)	24.50		N48	5, 7 / 8, 11, 13, 16	
							24.50-24.95	D69			
							25.20	D70			
						25.20 ... with frequent lenses of white silt (<3mm)	25.50-25.95	U71	100 blows	100% Recovery	
							25.95	D72			
						25.95 ... becoming slightly sandy with rare lignite fragments (<4mm)	26.00		N50	5, 8 / 10, 10, 14, 16	
							26.00-26.45	D73			
							26.70	D74			
						26.70 ... locally becoming sandy	27.00-27.45	U75	100 blows	100% Recovery	
							27.45	D76			
							27.50		N50/ 255 mm	6, 8 / 12, 14, 16, 8	
							27.50-27.95	D77			
20/07/21	4.50	28.3	5.92		28.30	28.00 ... with frequent pockets of light brown silty fine sand (<35mm)	28.20	D78			
20/07/21	4.50	Dry				Very stiff, greyish brown sandy silty CLAY with occasional off-white shell fragments (<30mm). (THAMES GROUP: HARWICH FORMATION - Swanscombe Member)	28.50-28.95	U79	100 blows	100% Recovery	
					(1.60)	29.00 ... locally becoming very sandy	28.95	D80			
							29.00		N50/ 265 mm	5, 7 / 10, 12, 15, 13	
							29.00-29.45	D81			
							29.70	D82			
					4.32		30.00-30.45	U83	100 blows	100% Recovery	
					(1.10)	Very stiff, greenish grey locally mottled yellowish brown slightly sandy silty CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	30.45	D84			
							30.50		N50/ 255 mm	5, 8 / 12, 14, 15, 9	
20/07/21	4.50	Dry	3.22		31.00	End of Borehole	30.50-30.95	D85			

Issue: FINAL

Logger: AB/AN

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

12/07/21

Date Completed

16/07/21

Ground Level (mOD)

34.17

Co-Ordinates

E 503390.95 N 180498.31

Final Depth

31.00m

Client

Ove Arup and Partners

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 31.00	IP CP	12/07/2021 12/07/2021	12/07/2021 15/07/2021	GM GM	DH/AN AN			Hand Excavated Dando 4000	805

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
24.40 28.36	24.40 28.36	20 20			1.20	3.50	28.50	28.90	01:00	Claystone

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Duration (hr)	Recovery (%)
0.00 4.00 31.00	200 200 150	0.00 3.75 5.00	200 200 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP	50	1.00	0.50	1.00	16/07/2021
GWMP	50	3.50	2.00	3.50	16/07/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.25 0.50 1.00 2.00 3.50	0.25 0.50 1.00 2.00 3.50 31.00	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Pea Shingle Bentonite Pellets	16/07/2021	Flush Cover

Project

LHR114 Ridgeway Trading Estate

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21/3593

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12/07/21

Date Completed

16/07/21

Ground Level (mOD)

34.17

Co-Ordinates

E 503390.95 N 180498.31

Final Depth

31.00m

Client

Ove Arup and Partners

PROGRESS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
12/07/21	0.00		Dry	
12/07/21	1.20		Wet	... Water Added
12/07/21	1.50	1.50	0.80	
13/07/21	1.50	1.50	1.30	... Water Added
13/07/21	2.00	2.00	Wet	
13/07/21	4.00	3.75	Dry	
13/07/21	14.00	5.00	Dry	
15/07/21	14.00	5.00	Dry	
15/07/21	24.40		24.40	... Water Strike
15/07/21	28.36		28.36	... Water Strike
15/07/21	31.00	5.00	Dry	

SPT DETAILS

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
C	1.50	N50/0.1	7, 12 / 30, 20	1.50	Wet
C	2.50	N50/0.2	5, 11 / 18, 19, 13	2.50	Wet
S	3.50	N14	1, 1 / 2, 3, 4, 5	3.50	Wet
S	5.00	N17	1, 2 / 3, 4, 5, 5	5.00	Dry
S	6.00	N23	2, 3 / 4, 5, 7, 7	5.00	Dry
S	7.00	N25	2, 3 / 5, 6, 7, 7	5.00	Dry
S	8.00	N22	2, 3 / 4, 5, 6, 7	5.00	Dry
S	9.00	N25	2, 3 / 4, 6, 7, 8	5.00	Dry
S	10.50	N30	3, 4 / 6, 6, 8, 10	5.00	Dry
S	12.00	N31	4, 5 / 6, 7, 8, 10	5.00	Dry
S	13.50	N32	4, 5 / 6, 8, 8, 10	5.00	Dry
S	15.00	N32	4, 4 / 6, 7, 9, 10	5.00	Dry
S	16.50	N34	6, 6 / 7, 8, 9, 10	5.00	Dry
S	18.00	N50	4, 5 / 6, 7, 10, 27	5.00	Dry
S	19.50	N43	4, 6 / 8, 11, 11, 13	5.00	Dry
S	21.00	N41	4, 7 / 8, 9, 11, 13	5.00	Dry
S	22.50	N50/0.285	6, 8 / 10, 13, 14, 13	5.00	Dry
S	24.00	N45	4, 7 / 9, 10, 11, 15	5.00	Dry
S	25.50	N50/0.25	6, 8 / 12, 15, 16, 7	5.00	Dry
S	27.00	N50/0.22	6, 9 / 13, 19, 18	5.00	Dry
S	28.50	N50/0.04	25 / 50	5.00	Dry
S	29.00	N50/0.285	5, 7 / 10, 14, 14, 12	5.00	Dry
S	30.50	N50/0.235	7, 10 / 12, 14, 17, 7	5.00	Dry

GENERAL REMARKS

1. UXO carried out in the borehole.
2. Borehole blowing in the gravels.
3. Water seepage encountered at 24.40m depth with no rise.
4. Water seepage encountered at 28.36m depth with no rise.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

HOLE TYPES

IP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC - Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 12/07/21 Date Completed 16/07/21	Ground Level (mOD) 34.17	Co-Ordinates E 503390.95 N 180498.31	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 1 of 3		

PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
12/07/21		Dry	34.05 33.92		0.12 0.25	Asphalt. (MADE GROUND)	0.20 0.20-0.50	ES1 B2		VOC 0.5ppm		
					(0.95)	Soft to firm, orangish brown gravelly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse flint, brick and asphalt fragments. Sand is fine to coarse. (MADE GROUND)	0.20-0.50 0.50 0.50-0.80 0.50-0.80 0.90-1.10	ES3 B4 B5		VOC 0.7ppm		
12/07/21		Wet	32.97		1.20	Brownish grey slightly silty sandy GRAVEL with low brick and concrete cobble content. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete and glass fragments. (MADE GROUND)	1.00 1.00-1.10 1.30 1.50	ES6 D7		VOC 0.8ppm		
12/07/21 13/07/21	1.50 1.50	0.80 1.30							N50/ 100 mm	7, 12 / 30, 20		
13/07/21	2.00	Wet			(2.30)	Very dense, orangish brown sandy angular to rounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.50 1.50-1.60 1.50 2.00	ES8 B9		VOC 0.5ppm		
						2.00 - 2.50 ... becoming dark greyish brown with strong hydrocarbon odour	2.00-2.50 2.00-2.50 2.50	ES10 B11		VOC 7.3ppm		
						2.50 ... becoming orangish brown	2.50 3.00	B12		VOC 1.2ppm		
13/07/21	3.75	Dry			(0.95)	Stiff, extremely closely to very closely fissured orangish brown slightly sandy slightly gravelly silty CLAY with occasional pockets of orangish brown silt (<25mm) and rare dark grey flecks. Gravel is subangular to subrounded fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY)	3.00-3.50 3.00-3.50 3.50 3.50 3.50-4.00 3.50-3.95 3.50-4.00 4.00-4.45 4.45	ES13 B14	N14	1, 1 / 2, 3, 4, 5 VOC 0.1ppm		
						Stiff to very stiff, extremely closely fissured greyish brown slightly sandy slightly micaceous silty CLAY with frequent pockets of light brown silty fine sand (<30mm) and rare bioturbation. Fissures are subhorizontal and subvertical, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	5.00-5.45 5.50-5.95	D20 U21	N17	1, 2 / 3, 4, 5, 5		
						5.00 ... with occasional pockets of light brown silty fine sand (<25mm) and rare white flecks	5.95 6.00 6.00-6.45	D22 D23	N23	2, 3 / 4, 5, 7, 7		
						5.95 ... with occasional partings of light brown fine sand and rare off-white shell fragments (<10mm)	6.50-6.95	U24	50 blows	89% Recovery		
						6.90 ... with rare partings of light brown fine sand and rare pockets of light grey silty fine sand (<15mm)	6.90 7.00 7.00-7.45	D25 D26	N25	2, 3 / 5, 6, 7, 7		
						7.50 ... with occasional off-white shell fragments (<15mm)	7.50-7.95	U27	50 blows	100% Recovery		
						7.95 ... with occasional off-white shell fragments (<15mm)	7.95 8.00 8.00-8.45	D28 D29	N22	2, 3 / 4, 5, 6, 7		
						8.50 ... with rare pockets of light brown silty fine sand (<1mm) and occasional off-white shell fragments (<10mm)	8.50-8.95	U30	60 blows	100% Recovery		
						8.95 ... with rare pockets of light brown silty fine sand (<1mm) and occasional off-white shell fragments (<10mm)	8.95 9.00 9.00-9.45	D31 D32	N25	2, 3 / 4, 6, 7, 8		
						9.70 ... with occasional to frequent pockets of light brown silty fine sand (<40mm)	9.70 10.00-10.45	D33	70 blows	100% Recovery		
						10.45 ... with rare pockets of dark brown silt (<30mm) and frequent white flecks	10.45 10.50 10.50-10.95	D35 D36	N30	3, 4 / 6, 6, 8, 10		

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 12/07/21 Date Completed 16/07/21	Ground Level (mOD) 34.17	Co-Ordinates E 503390.95 N 180498.31	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 2 of 3		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
13/07/21	5.00	Dry	22.32		11.85	Very stiff, extremely closely fissured greyish brown slightly micaceous CLAY with rare off-white shell fragments (<20mm) and bioturbation. Fissures are subhorizontal, planar, smooth, polished. (THAMES GROUP: LONDON CLAY FORMATION - A3i) 12.00 ... with rare pockets of light brown fine sand (<30mm) 12.70 ... with occasional bioturbation 13.45 ... with occasional off-white shell fragments (<20mm) 14.50 - 14.60 ... with a band of claystone 15.70 ... with a pocket of weak, light brown fine to medium gravel size claystone fragments 17.20 ... with occasional weak, light brown fine to medium gravel size claystone fragments	11.20	D37		78% Recovery	
15/07/21	5.00	Dry					11.50-11.95	U38	70 blows	4, 5 / 6, 7, 8, 10	
							11.85	D39	N31		
							12.00-12.45	D40			
							12.70	D41			
							13.00-13.45	U42	80 blows	100% Recovery	
							13.45	D43			
							13.50	D44	N32	4, 5 / 6, 8, 8, 10	
							13.50-13.95				
							14.20	D45			
							14.50-14.95	U46	90 blows	100% Recovery	
							14.95	D47			
							15.00	D48	N32	4, 4 / 6, 7, 9, 10	
							15.00-15.45				
							15.70	D49			
							16.00-16.45	U50	90 blows	89% Recovery	
							16.40	D51			
							16.50	D52	N34	6, 6 / 7, 8, 9, 10	
							16.50-16.95				
							17.20	D53			
							17.50-17.95	U54	100 blows	100% Recovery	
			16.22		17.95	Very stiff, greyish brown slightly sandy slightly micaceous silty CLAY with occasional pockets of light brown silty fine sand (<30mm), rare pockets of dark grey silt (<15mm) and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A2) 18.40 - 18.70 ... with a band of claystone 19.45 ... with rare pockets of light brown fine sand (<15mm) 20.20 ... with frequent bioturbation and white flecks 20.95 ... with rare lignite fragments (<5mm) and foraminifera 21.70 ... with occasional foraminifera	17.95	D55			
							18.00	D56	N50	4, 5 / 6, 7, 10, 27	
							18.00-18.45				
							18.70	D57			
							19.00-19.45	U58	100 blows	100% Recovery	
							19.45	D59			
							19.50	D60	N43	4, 6 / 8, 11, 11, 13	
							19.50-19.95				
							20.20	D61			
							20.50-20.95	U62	100 blows	100% Recovery	
							20.95	D63			
							21.00	D64	N41	4, 7 / 8, 9, 11, 13	
							21.00-21.45				
							21.70	D65			
							22.00-22.45	U66	100 blows	100% Recovery	

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 12/07/21
Date Completed 16/07/21

Ground Level (mOD)
34.17

Co-Ordinates
E 503390.95 N 180498.31

Final Depth
31.00m

Client
Ove Arup and Partners

Method/
Plant Used Cable Percussion

Sheet
3 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
15/07/21		24.4			(9.45)	22.45 ... becoming sandy with frequent lenses of light brown fine sand (<3mm)	22.45 22.50	D67	N50/ 285 mm	6, 8 / 10, 13, 14, 13	
						23.20 ... with occasional pockets of light brown silty fine sand (<45mm)	22.50-22.95 23.20	D68 D69		100% Recovery	
						23.95 ... becoming slightly sandy	23.50-23.95 23.95 24.00	U70 D71 D72	100 blows N45	100% Recovery 4, 7 / 9, 10, 11, 15	
							24.00-24.45 24.70				
							25.00-25.45	U74	100 blows	89% Recovery	
							25.40 25.50	D75	N50/ 250 mm	6, 8 / 12, 15, 16, 7	
							25.50-25.95 26.20	D76 D77			
						26.20 ... locally becoming sandy	26.50-26.95	U78	100 blows	100% Recovery	
							26.95 27.00	D79	N50/ 220 mm	6, 9 / 13, 19, 18	
15/07/21		28.3			(1.50)	Very stiff, greyish brown sandy silty CLAY with frequent pockets of light brown fine sand (<45mm) and occasional off-white shell fragments (<30mm). (THAMES GROUP: HARWICH FORMATION - Swanscombe Member)	27.00-27.45 27.70	D80 D81		100% Recovery	
						28.50 - 28.90 ... with a band of claystone	28.00-28.45 28.45 28.50	U82 D83	100 blows N50/ 40 mm	25 / 50	
							28.50 29.00	B84	N50/ 285 mm	5, 7 / 10, 14, 14, 12	
						Very stiff, multicolored slightly sandy silty CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	29.00-29.45 29.00-29.45	U85 D86	100 blows	0% Recovery	
							30.00	D87			
							30.50		N50/ 235 mm	7, 10 / 12, 14, 17, 7	
15/07/21	5.00	Dry	3.17		31.00	End of Borehole	30.50-30.95	D88			

Issue: FINAL

Logger: DH/AN

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

16/07/21

Date Completed

21/07/21

Ground Level (mOD)

34.42

Co-Ordinates

E 503455.58 N 180411.39

Final Depth

20.00m

Client

Ove Arup and Partners

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 20.00	IP CP	16/07/2021 16/07/2021	16/07/2021 20/07/2021	GM GM	DH/AB/FP AB/FP			Hand Excavated Dando 1000	AR909

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					1.70	3.70	1.70	2.50	02:00	Slow Drilling

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Duration (hr)	Recovery (%)
0.00 20.00	150 150	0.00 4.60	150 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP GWMP	50 50	1.20 3.80	0.50 1.70	1.20 3.80	21/07/2021 21/07/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.25 0.50 1.20 1.70 3.80	0.25 0.50 1.20 1.70 3.80 20.00	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Pea Shingle Bentonite Pellets	21/07/2021	Flush Cover

Project**LHR114 Ridgeway Trading Estate****Job No****21/3593****Date Started**

16/07/21

Date Completed

21/07/21

Ground Level (mOD)

34.42

Co-Ordinates

E 503455.58 N 180411.39

Final Depth

20.00m

Client**Ove Arup and Partners****PROGRESS****SPT DETAILS**

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
16/07/21	0.00		Dry		S	1.50	N15	1, 2 / 2, 2, 4, 7	1.50	Dry
16/07/21	1.20		Dry		C	2.50	N50/0.147	15, 10 / 27, 23	2.40	2.00
16/07/21	1.70	1.50	Wet	... Water Added	C	3.50	N28	7, 8 / 11, 8, 6, 3	2.40	2.00
16/07/21	2.50	2.40	2.00		S	5.00	N17	2, 2 / 3, 4, 5, 5	2.40	Dry
19/07/21	2.50	2.40	2.00	... Water Added	S	6.00	N18	3, 3 / 4, 4, 5, 5	2.40	Dry
19/07/21	3.50	2.40	3.30		S	7.50	N21	3, 3 / 3, 6, 6, 6	2.40	Dry
19/07/21	4.50	2.40	Dry		S	9.00	N23	3, 4 / 4, 4, 7, 8	2.40	Dry
19/07/21	10.50	4.60	Dry		S	10.50	N27	3, 3 / 4, 7, 7, 9	2.40	Dry
20/07/21	10.50	4.60	9.60	... see Remark 1	S	12.00	N28	4, 4 / 6, 7, 7, 8	4.60	Dry
20/07/21	12.00	4.60	Dry		S	13.50	N27	4, 4 / 5, 6, 7, 9	4.60	Dry
20/07/21	20.00	4.60	Dry		S	15.00	N28	4, 5 / 6, 7, 7, 8	4.60	Dry
					S	16.50	N30	4, 4 / 6, 7, 8, 9	4.60	Dry
					S	18.00	N35	4, 6 / 8, 9, 9, 9	4.60	Dry
					S	19.50	N40	4, 7 / 9, 9, 11, 11	4.60	Dry

GENERAL REMARKS

1. UXO carried out in the borehole.
2. Water entering the borehole between 19/07/2021 and 20/07/2021.

KEY**SAMPLES**

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

HOLE TYPES

IP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC - Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 16/07/21 Date Completed 21/07/21	Ground Level (mOD) 34.42	Co-Ordinates E 503455.58 N 180411.39	Final Depth 20.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 1 of 2		

PROGRESS			STRATA			SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	
16/07/21		Dry				Brown silty sandy GRAVEL. Gravel comprises angular to subrounded fine to coarse brick, concrete, ceramic, clinker, asphalt and glass fragments. (MADE GROUND)	0.10 0.10 0.10 0.10 0.40	ES1 B2 B3		VOC 5.6ppm
			33.67		0.75	0.15 ... with a layer of geotextile	0.40	ES4		VOC 4.1ppm
16/07/21		Dry	33.22		1.20	0.40 - 0.50 ... weak concrete slab with brick and concrete aggregate	0.70 0.90	B5		VOC 540ppm
						0.50 ... with low concrete and brick cobble content and occasional glass fragments	0.90-1.20	ES6 B7		VOC 340ppm
16/07/21	1.50	Wet	32.72		1.70	0.60 ... with 1 No plastic fragment (<150mm)	1.20	ES8 B9		VOC 340ppm
						Medium dense, dark brown silty gravelly fine to coarse SAND with occasional pockets of dark grey silt (<60mm). Gravel comprises angular to subrounded fine to coarse flint, brick, concrete and coal fragments. (MADE GROUND)	1.20-1.50 1.20-1.50 1.50		N15	1, 2 / 2, 2, 4, 7
16/07/21	2.40	2.00				0.90 ... becoming slightly gravelly	1.50-1.95	D10		VOC 3ppm
19/07/21	2.40	2.00			(2.00)	Very stiff, dark grey slightly gravelly sandy silty CLAY. Gravel comprises angular to subangular fine to medium flint and brick fragments. (MADE GROUND)	2.00 2.00 2.00-2.50 2.50	ES11 D12 B13		15, 10 / 27, 23
19/07/21	2.40	3.30				Very dense, light brown very sandy subangular to subrounded fine to coarse flint GRAVEL. Sand is medium to coarse. (RIVER TERRACE DEPOSITS)	2.50-3.00 3.30 3.50 3.50	B14 D15		N28
			30.72		3.70	2.50 ... becoming sandy 3.50 ... becoming clayey	3.50-3.70 3.70-4.50	ES16 B17 B18		7, 8 / 11, 8, 6, 3 VOC 3ppm
19/07/21	2.40	Dry			(1.30)	Stiff, brown silty CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)	4.50-4.95	U19	45 blows	100% Recovery
			29.42		5.00	Very stiff, extremely closely to very closely fissured brown slightly micaceous silty CLAY with rare pockets of dark grey silt (<20mm), off-white shell fragments (<25mm), lenses of white silt (<5mm), white flecks and occasional to frequent bioturbation. Fissures are subvertical, undulating, rough, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	5.00 5.00 5.00-5.45 5.30 5.50-5.95	D20 D21 D22 U23	N17	2, 2 / 3, 4, 5, 5
						5.30 ... with occasional shell fragments (<20mm)	6.00 6.00 6.00-6.45 6.50	D24 D25 D26	N18	3, 3 / 4, 4, 5, 5
						6.00 ... with a parting of light brown and dark grey silty fine sand, rare pockets of light brown silty fine sand (<30mm) and frequent bioturbation	7.00-7.45	U27	100 blows	100% Recovery
						6.50 ... with very closely spaced partings of light brown fine sand, rare off-white shell fragments (<5mm), white flecks and bioturbation	7.50 7.50 7.50-7.95 8.00	D28 D29 D30	N21	3, 3 / 3, 6, 6, 6
						8.00 ... with a parting of light brown silty fine sand	8.50-8.95	U31	100 blows	100% Recovery
						9.00 ... with very closely spaced partings of light brown silty fine sand	9.00 9.00 9.00-9.45 9.50	D32 D33 D34	N23	3, 4 / 4, 4, 7, 8
						9.50 ... with very closely spaced partings of light brown and dark grey silty fine sand and rare pockets of light brown and dark grey silty fine sand (<15mm)	10.00-10.45	U35	100 blows	100% Recovery
19/07/21	4.60	Dry				10.50 ... with a parting of light brown silty fine sand	10.50 10.50 10.50-10.95 11.00	D36 D37 D38	N27	3, 3 / 4, 7, 7, 9
20/07/21	4.60	9.60			(11.50)					

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 16/07/21 Date Completed 21/07/21	Ground Level (mOD) 34.42	Co-Ordinates E 503455.58 N 180411.39	Final Depth 20.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 2 of 2		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
20/07/21	4.60	Dry	17.92		16.50	12.00 ... with extremely closely spaced partings of dark yellowish brown and light greyish brown silty fine sand	11.50-11.95	U39	100 blows	100% Recovery	
						12.50 ... with a parting of light brown silty fine sand and rare pockets of dark grey silty fine sand (<20mm)	12.00 12.00 12.00-12.45 12.50	D40 D41 D42	N28	4, 4 / 6, 7, 7, 8	
						13.50 ... with extremely closely to very close partings of light grey silty fine sand and rare white flecks	13.00-13.45	U43	100 blows	100% Recovery	
						13.50 - 13.53 ... with a band of light brown claystone	13.50 13.50 13.50-13.95 14.00	D44 D45 D46	N27	4, 4 / 5, 6, 7, 9	
						14.00 ... with rare bioturbation	14.50-14.95	U47	100 blows	100% Recovery	
						15.00 ... with rare pockets of dark grey and light brown silty fine sand (<30mm) and off-white shell fragments (<5mm)	15.00 15.00 15.00-15.45 15.50	D48 D49 D50	N28	4, 5 / 6, 7, 7, 8	
							16.00-16.45	U51	100 blows	100% Recovery	
							16.50 16.50 16.50-16.95 17.00	D52 D53 D54	N30	4, 4 / 6, 7, 8, 9	
						Very stiff, extremely closely to very closely fissured dark brown slightly micaceous silty CLAY with a pocket of extremely weak brownish grey claystone fragments (<100mm). Fissures are subhorizontal and subvertical, undulating, rough, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	17.50-17.95	U55	100 blows	100% Recovery	
						18.00 ... with rare to occasional off-white shell fragments (<5mm)	18.00 18.00 18.00-18.45 18.50	D56 D57 D58	N35	4, 6 / 8, 9, 9, 9	
20/07/21	4.60	Dry	14.42		20.00	Very stiff, extremely closely to very closely fissured dark brown slightly micaceous silty CLAY with occasional pockets of light grey and light brown silty fine sand (<40mm), rare off-white and brown shell fragments (<5mm) and bioturbation. Fissures are subvertical, undulating, rough, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A2)	19.00-19.45	U59	100 blows	100% Recovery	
						20.00 ... becoming slightly sandy with frequent white flecks, occasional lenses of white silt (<5mm) and bioturbation End of Borehole	19.50 19.50 19.50-19.95 20.00	D60 D61 B62	N40	4, 7 / 9, 9, 11, 11	

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 23/07/21 Date Completed 27/07/21	Ground Level (mOD) 34.15	Co-Ordinates E 503500.93 N 180455.72	Final Depth 31.00m
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Client

Ove Arup and Partners

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 31.00	IP CP	23/07/2021 26/07/2021	23/07/2021 27/07/2021	GM GM	DH/FP FP			Hand Excavated Dando 4000	805

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
8.90 24.30	8.90 24.30	20 20	4.00 4.50		1.30	2.80				

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Duration (hr)	Recovery (%)
0.00 20.00 31.00	200 200 150	0.00 4.00 4.50	200 200 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP GWMP	50 50	0.80 2.70	0.45 1.00	0.80 2.70	27/07/2021 27/07/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.25 0.45 0.80 1.00 2.70	0.25 0.45 0.80 1.00 2.70 31.00	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Pea Shingle Bentonite Pellets	27/07/2021	Flush Cover

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 23/07/21
Date Completed 27/07/21

Ground Level (mOD)
34.15

Co-Ordinates
E 503500.93 N 180455.72

Final Depth
31.00m

Client

Ove Arup and Partners

PROGRESS

SPT DETAILS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
23/07/21	0.00		Dry	
23/07/21	1.20		Dry	
26/07/21	1.20		Dry	
26/07/21	1.30		Wet	... Water Added
26/07/21	3.00	3.00	Dry	
26/07/21	8.90	4.00	8.90	... Water Strike
26/07/21	9.00	4.00	Dry	
26/07/21	13.00	4.00	Dry	... see Remark 3
27/07/21	13.00	4.00	11.80	
27/07/21	13.20	4.50	Dry	
27/07/21	24.30	4.50	24.30	... Water Strike
27/07/21	24.45	4.50	Dry	
27/07/21	31.00	4.50	Dry	

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
C	1.50	N50/0.15	8, 17 / 22, 28	1.50	Wet
C	2.50	N50	7, 9 / 14, 12, 13, 11	2.50	Wet
S	4.00	N17	1, 2 / 3, 4, 4, 6	3.00	Dry
S	5.00	N19	1, 3 / 3, 5, 5, 6	4.00	Dry
S	6.00	N24	2, 3 / 5, 5, 6, 8	4.00	Dry
S	7.00	N24	2, 2 / 4, 5, 7, 8	4.00	Dry
S	8.00	N27	2, 4 / 5, 6, 7, 9	4.00	Dry
S	9.50	N27	3, 4 / 5, 6, 8, 8	4.00	Dry
S	11.00	N28	5, 5 / 5, 7, 7, 9	4.00	Dry
S	12.50	N30	3, 4 / 5, 7, 8, 10	4.00	Dry
S	14.00	N33	4, 6 / 6, 8, 8, 11	4.50	Dry
S	15.50	N33	4, 6 / 6, 8, 9, 10	4.50	Dry
S	17.00	N38	4, 6 / 7, 9, 10, 12	4.50	Dry
S	18.50	N40	4, 6 / 8, 9, 11, 12	4.50	Dry
S	20.00	N40	5, 7 / 8, 8, 11, 13	4.50	Dry
S	21.50	N43	5, 7 / 9, 10, 12, 12	4.50	Dry
S	23.00	N43	5, 7 / 8, 10, 12, 13	4.50	Dry
S	24.50	N43	4, 6 / 7, 11, 12, 13	4.50	Dry
S	26.00	N49	4, 7 / 10, 11, 12, 16	4.50	Dry
S	27.50	N50	5, 7 / 10, 12, 14, 14	4.50	Dry
S	29.00	N50/0.175	8, 12 / 19, 21, 10	4.50	Dry
S	30.50	N50/0.245	9, 13 / 13, 13, 15, 9	4.50	Dry

GENERAL REMARKS

1. UXO carried out in the borehole.
2. Water seepage encountered at 8.90m depth with no rise.
3. Water entering the borehole between 26/07/2021 and 27/07/2021.
4. Water seepage encountered at 24.30m depth with no rise.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

HOLE TYPES

IP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC - Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 23/07/21 Date Completed 27/07/21	Ground Level (mOD) 34.15	Co-Ordinates E 503500.93 N 180455.72	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 1 of 3		

PROGRESS			STRATA			SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	
23/07/21		Dry	33.70		(0.45)	Reinforced CONCRETE.				
			33.60		0.45	0.10 ... with Ø8mm rebar	0.50			
			33.35		0.55	0.25 ... with sheet of plastic	0.50-0.80	ES1		VOC 0.4ppm
					0.80	Dark grey angular to subangular medium to coarse flint GRAVEL.	0.50-0.80	B2		
						(MADE GROUND)	0.80			VOC 0.8ppm
						0.55 ... with layer of geotextile	0.80-1.20	ES3		
23/07/21		Dry	32.85		(0.50)	Soft, orangish brown slightly gravelly slightly sandy silty CLAY. Gravel comprises angular to subangular fine to coarse flint and chalk fragments. Sand is fine to coarse.	0.80-1.20	B4		
26/07/21		Dry			1.30	(MADE GROUND)	1.50		N50/ 150 mm	8, 17 / 22, 28
26/07/21		Wet			(1.50)	Soft, orangish brown slightly gravelly sandy silty CLAY with occasional organic black staining. Gravel comprises subangular to rounded fine to medium flint. Sand is fine to medium.	1.50	B5		
			31.35		2.80	(LANGLEY SILT MEMBER)	2.50	B6	N50	7, 9 / 14, 12, 13, 11
26/07/21	3.00	Dry			(0.80)	Very dense, orangish brown very sandy subangular to rounded fine to coarse flint GRAVEL. Sand is fine to coarse.	3.00	ES7		VOC 0.2ppm
						(RIVER TERRACE DEPOSITS)	3.00	B8		
			30.55		3.60	2.50 ... becoming greyish brown	3.00-3.50	U9	25 blows	100% Recovery
						Very stiff, orangish brown slightly sandy slightly gravelly silty CLAY with rare pockets of reddish brown silt (<10mm) and frequent black flecks. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse.	3.95	D10		1, 2 / 3, 4, 4, 6
						(THAMES GROUP: WEATHERED LONDON CLAY)	4.00	D11	N17	
							4.00-4.45			
							4.50-4.95	U12	40 blows	100% Recovery
						Very stiff, brown slightly micaceous silty CLAY with rare pyrite nodules (<20mm), bioturbation and white flecks.	4.95	D13		
						(THAMES GROUP: LONDON CLAY FORMATION - A3ii)	5.00	D14	N19	1, 3 / 3, 5, 5, 6
						4.00 ... with rare pockets of dark grey silt (<10mm) and lenses of white silt	5.00-5.45			
						4.95 ... with 1No very weak brownish grey coarse gravel size claystone fragment	5.50-5.95	U15	40 blows	100% Recovery
						5.00 ... with occasional bioturbation	5.95	D16		
						5.95 ... with rare pockets of light grey silt (<15mm) and 1No very weak grey medium gravel size claystone fragment	6.00	D17	N24	2, 3 / 5, 5, 6, 8
						6.00 ... becoming slightly sandy with rare bioturbation	6.00-6.45			
						6.95 ... becoming extremely closely to very closely fissured. Fissured are subvertical, undulating, rough, unpolished	6.50-6.95	U18	50 blows	100% Recovery
							6.95	D19		
							7.00	D20	N24	2, 2 / 4, 5, 7, 8
							7.00-7.45			
							7.50-7.95	U21	50 blows	100% Recovery
							7.95	D22		
						7.95 ... with a parting of light grey and dark grey silty fine sand and rare pockets of light grey and dark grey silty fine sand (<40mm)	8.00	D23	N27	2, 4 / 5, 6, 7, 9
						8.00 ... with very closely spaced partings of light greyish brown and dark grey silty fine sand and frequent pockets of light grey and dark grey silty fine sand (<30mm)	8.00-8.45			
						8.70 - 9.00 ... becoming slightly gravelly. Gravel is angular to subangular fine to medium grey claystone fragments	8.70	D24		
26/07/21	4.00	1			(11.10)		9.00-9.45	U25	60 blows	100% Recovery
26/07/21	4.00	Dry					9.45	D26		
						9.45 ... with rare shell fragments (<10mm)	9.50	D27	N27	3, 4 / 5, 6, 8, 8
						9.50 ... with a parting of light grey and dark grey silty fine sand	9.50-9.95			
							10.20	D28		
							10.50-10.95	U29	70 blows	100% Recovery
						10.70 ... with a pocket of extremely weak light brown angular to subangular fine to	10.95	D30		

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 23/07/21 Date Completed 27/07/21	Ground Level (mOD) 34.15	Co-Ordinates E 503500.93 N 180455.72	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 2 of 3		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
26/07/21	4.00	Dry				medium gravel size claystone fragments and rare to occasional lenses of white silt (<15mm)	11.00		N28	5, 5 / 5, 7, 7, 9	
27/07/21	4.00					10.95 ... with rare partings of light grey and dark grey silty fine sand	11.00-11.45	D31			
27/07/21	4.50	Dry				11.00 - 11.45 ... with occasionally extremely weak greyish brown claystone fragments (<20mm)	11.70	D32			
						11.70 ... with extremely closely spaced partings of light brown silty fine sand	12.00-12.45	U33	80 blows	100% Recovery	
						12.45 - 12.95 ... with rare light greyish brown discoloration	12.45	D34			
						12.50 ... with rare pockets of light brown silt (<15mm)	12.50-12.95	D35	N30	3, 4 / 5, 7, 8, 10	
						13.20 ... with frequent pockets of light brown and dark brown silty fine sand (<30mm)	13.20	D36			
						13.95 ... with extremely to very closely spaced partings of light grey and dark grey silty fine sand	13.50-13.95	U37	90 blows	100% Recovery	
							13.95	D38			
							14.00	D39	N33	4, 6 / 6, 8, 8, 11	
							14.00-14.45				
			19.45		14.70		14.70	D40			
						Very stiff, brownish grey slightly micaceous CLAY with occasional bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	15.00-15.45	U41	100 blows	100% Recovery	
						15.45 ... with rare pockets of light brown and dark grey silty fine sand (<70mm). Fissures becoming subhorizontal and subvertical, undulating, smooth, unpolished	15.45	D42			
							15.50	D43	N33	4, 6 / 6, 8, 9, 10	
						16.20 ... with a parting of light brown silty fine sand and rare shell fragments (<8mm)	15.50-15.95				
							16.20	D44			
							16.50-16.95	U45	100 blows	100% Recovery	
							16.95	D46			
			17.15		17.00	16.95 ... with frequent bioturbation	17.00	D47	N38	4, 6 / 7, 9, 10, 12	
						Very stiff, dark greyish brown slightly micaceous silty CLAY with very closely spaced partings of light grey and dark grey silty fine sand. (THAMES GROUP: LONDON CLAY FORMATION - A2)	17.00-17.45				
						17.00 - 17.45 ... with occasionally extremely weak greyish brown claystone fragments (<20mm)	17.70	D48			
						18.45 ... with rare pockets of light grey silty fine sand (<30mm) and bioturbation	18.00-18.45	U49	100 blows	100% Recovery	
							18.45	D50			
							18.50	D51	N40	4, 6 / 8, 9, 11, 12	
							18.50-18.95				
						19.20 ... with rare brown shell fragments (<5mm)	19.20	D52			
							19.50-19.95	U53	100 blows	100% Recovery	
							19.95	D54			
						19.95 ... with extremely closely spaced partings of light brown and dark grey silty fine sand and occasional pyrite nodules (<30mm)	20.00	D55	N40	5, 7 / 8, 8, 11, 13	
						20.00 ... becoming very closely fissured with rare white flecks. Fissures are subvertical, undulating, smooth, polished	20.00-20.45				
						20.70 ... with a parting of light grey silty fine sand, rare pockets of dark grey and light brownish grey silty fine sand (<15mm), off-white shell fragments (<3mm) and bioturbation	20.70	D56			
							21.00-21.45	U57	100 blows	100% Recovery	
						21.45 ... becoming slightly sandy with frequent white flecks, bioturbation, rare shell	21.45	D58			
							21.50	D59	N43	5, 7 / 9, 10, 12, 12	
							21.50-21.95				

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 23/07/21 Date Completed 27/07/21	Ground Level (mOD) 34.15	Co-Ordinates E 503500.93 N 180455.72	Final Depth 31.00m
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion	Sheet 3 of 3		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
27/07/21	4.50	24.3				fragments (<5mm) and 1No pyrite nodule (<90mm)	22.20	D60			
27/07/21	4.50	Dry			(11.20)	21.50 ... becoming dark brownish grey with rare light brownish grey staining and dark grey flecks	22.45	D61	100 blows	100% Recovery	
						22.20 ... with frequent pockets of dark grey and light grey fine sand (<40mm), white flecks, bioturbation and rare foraminifera	22.50-22.95	U62			
						22.95 ... with frequent foraminifera and rare pyrite nodules (<10mm)	23.00		N43	5, 7 / 8, 10, 12, 13	
							23.00-23.45	D63			
							23.70	D64			
							24.00-24.45	U65	100 blows	100% Recovery	
							24.45	D66			
						24.50 ... becoming sandy	24.50		N43	4, 6 / 7, 11, 12, 13	
						24.50 ... with frequent pockets of light brownish grey and dark grey silty fine sand (<30mm), occasional white flecks and rare bioturbation	24.50-24.95	D67			
						25.20 ... with frequent white flecks, occasional foraminifera, bioturbation and rare pyrite nodules (<30mm)	25.20	D68			
							25.50-25.95	U69	100 blows	100% Recovery	
							25.95	D70			
						25.95 ... with occasional to frequent bioturbation	26.00		N49	4, 7 / 10, 11, 12, 16	
							26.00-26.45	D71			
							26.70	D72			
						26.70 ... with occasional pyrite nodules (<20mm) and rare off-white shell fragments (<3mm)	27.00-27.45	U73	100 blows	100% Recovery	
							27.45	D74			
						27.45 ... with very closely spaced partings of greyish brown and dark grey silty fine sand and rare white flecks	27.50		N50	5, 7 / 10, 12, 14, 14	
						27.50 ... with rare to occasional pockets of foraminifera (<35mm)	27.50-27.95	D75			
			5.95		28.20		28.20	D76			
						Very stiff, dark greyish brown slightly sandy silty CLAY with frequent pockets of greyish brown and dark grey silty fine sand (<35mm), occasional to frequent off-white and brown shell fragments (<20mm) and rare lignite fragments (<5mm).	28.50-28.95	U77	100 blows	89% Recovery	
						(THAMES GROUP: HARWICH FORMATION - Swanscombe Member)	28.90	D78			
						29.00 ... becoming slightly gravelly. Gravel is subrounded to rounded fine to medium black flint	29.00		N50/ 175 mm	8, 12 / 19, 21, 10	
							29.00-29.45	D79			
						29.70 ... becoming very sandy with rare to occasional off-white shell fragments (<15mm)	29.70	D80			
			4.15		30.00		30.00-30.45	U81	100 blows	100% Recovery	
						Very stiff, blue mottled greyish blue and yellowish brown silty CLAY with rare pockets of light grey and dark grey silty fine sand (<15mm).	30.45	D82			
						(LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	30.50		N50/ 245 mm	9, 13 / 13, 13, 15, 9	
27/07/21	4.50	Dry	3.15		31.00	30.50 ... becoming multicolored with trace rootlets	30.50-30.95	D83			
						End of Borehole					

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

21/07/21

Date Completed

23/07/21

Ground Level (mOD)

34.35

Co-Ordinates

E 503526.79 N 180546.89

Final Depth

20.00m

Client

Ove Arup and Partners

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	23/07/2021	23/07/2021	GM	DH			Hand Excavated	
1.20	31.00	CP	26/07/2021	27/07/2021	GM	DH			Dando 4000	805

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
6.90	6.90	20	4.50		1.00	2.70				

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Duration (hr)	Recovery (%)
0.00	200	0.00	200				
3.50	200	3.00	200				
20.00	150	4.50	150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP	50	1.00	0.50	1.00	23/07/2021
GWMP	50	2.70	1.50	2.70	23/07/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.25	Concrete	23/07/2021	Flush Cover
0.25	0.50	Bentonite Pellets		
0.50	1.00	Pea Shingle		
1.00	1.50	Bentonite Pellets		
1.50	2.70	Pea Shingle		
2.70	20.00	Bentonite Pellets		

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

21/07/21

Date Completed

23/07/21

Ground Level (mOD)

34.35

Co-Ordinates

E 503526.79 N 180546.89

Final Depth

20.00m

Client

Ove Arup and Partners

PROGRESS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
21/07/21	0.00		Dry	
21/07/21	1.00		Wet	... Water Added
21/07/21	3.00	3.00	Dry	
22/07/21	3.00	3.00	Dry	
22/07/21	6.90	4.50	6.90	... Water Strike
22/07/21	7.00	4.50	Dry	
22/07/21	20.00	4.50	Dry	

SPT DETAILS

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
S	1.00	N33	3, 6 / 7, 7, 9, 10	4.50	Dry
C	1.50	N50/0.125	12, 13 / 25, 25	1.50	Wet
C	2.50	N22	7, 9 / 7, 6, 5, 4	2.50	Wet
S	4.00	N20	1, 3 / 4, 5, 5, 6	3.00	Dry
S	5.00	N21	2, 2 / 4, 5, 6, 6	4.50	Dry
S	6.00	N24	2, 3 / 5, 6, 6, 7	4.50	Dry
S	7.00	N27	2, 4 / 6, 6, 7, 8	4.50	Dry
S	8.00	N27	3, 4 / 5, 6, 8, 8	4.50	Dry
S	9.50	N27	3, 4 / 6, 6, 7, 8	4.50	Dry
S	12.50	N33	3, 6 / 6, 8, 9, 10	4.50	Dry
S	14.00	N35	4, 6 / 7, 8, 9, 11	4.50	Dry
S	15.50	N37	4, 6 / 7, 9, 10, 11	4.50	Dry
S	17.00	N41	4, 6 / 8, 9, 11, 13	4.50	Dry
S	18.50	N43	16, 7 / 8, 10, 12, 13	4.50	Dry

GENERAL REMARKS

1. UXO carried out in the borehole.
2. Borehole blowing in the gravels.
3. Water seepage encountered at 6.90m depth with no rise.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

HOLE TYPES

IP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC - Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 21/07/21 Date Completed 23/07/21	Ground Level (mOD) 34.35	Co-Ordinates E 503526.79 N 180546.89	Final Depth 20.00m
Client Ove Arup and Partners			Method/ Plant Used Cable Percussion	Sheet 1 of 2

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
21/07/21		Dry	34.25		0.10	Asphalt. (MADE GROUND)	0.20			VOC 0.7ppm	
			33.85		0.50	Brownish grey sandy GRAVEL. Gravel comprises subangular to subrounded fine to coarse flint, brick and concrete fragments. Sand is fine to coarse.	0.20-0.50 0.20-0.50 0.50	ES1 B2		VOC 0.3ppm	
21/07/21		Wet	33.35		(0.50) 1.00	(MADE GROUND) 0.35 ... with layer of geofabric	0.50-1.00 0.50-1.00 1.00	ES3 B4			
					(1.70)	Orangish brown slightly gravelly clayey fine to medium SAND. Gravel is subangular to subrounded fine to coarse flint. (LANGLEY SILT MEMBER/ RIVER TERRACE DEPOSITS)	1.20-1.50 1.50	B5	N33	3, 6 / 7, 7, 9, 10	
						Dense to very dense, orangish brown sandy angular to rounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.50 1.50	B6	N50/ 125 mm	12, 13 / 25, 25	
			31.65		2.70		2.50 2.50 2.70	B7	N22	7, 9 / 7, 6, 5, 4	
21/07/21 22/07/21	3.00 3.00	Dry Dry			(0.70)	Stiff, orangish brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY)	2.70-3.00	ES8		VOC 0.8ppm	
			30.95		3.40		3.50-3.95	U9	20 blows	89% Recovery	
						Stiff, greyish brown slightly micaceous slightly sandy silty CLAY with frequent bioturbation, occasional pyrite nodules (<15mm) and rare white flecks. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	3.90 4.00 4.00-4.45	D10 D11	N20	1, 3 / 4, 5, 5, 6	
							4.50-4.95	U12	30 blows	89% Recovery	
							4.90 5.00 5.00-5.45	D13 D14	N21	2, 2 / 4, 5, 6, 6	
							5.50-5.95	U15	40 blows	100% Recovery	
							5.95 6.00 6.00-6.45	D16 D17	N24	2, 3 / 5, 6, 6, 7	
						5.95 ... with frequent partings of light brown fine silty sand (<30mm), rare pockets of dark grey silt (<5mm) and off-white shell fragments (<5mm)	6.50-6.95	U18	50 blows	100% Recovery	
22/07/21 22/07/21	4.50 4.50	6.90 Dry					6.95 7.00 7.00-7.45	D19 D20	N27	2, 4 / 6, 6, 7, 8	
						6.95 ... becoming sandy with rare bioturbation	7.50-7.95	U21	50 blows	100% Recovery	
							7.95 8.00 8.00-8.45	D22 D23	N27	3, 4 / 5, 6, 8, 8	
						7.95 ... with occasional partings of light brown silty fine sand and occasional pockets of brown fine sand (<10mm)	8.70	D24			
					(10.55)	8.70 ... with frequent pockets of light brown silty fine sand (<40mm)	9.00-9.45	U25	60 blows	89% Recovery	
							9.40 9.50 9.50-9.95	D26 D27	N27	3, 4 / 6, 6, 7, 8	
						9.50 ... becoming slightly sandy with occasional white flecks	10.20	D28			
						10.20 ... with occasional pockets of light brown silty fine sand (<40mm) and off-white shell fragments	10.50-10.95	U29	80 blows	100% Recovery	
							10.95	D30			

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 21/07/21
Date Completed 23/07/21

Ground Level (mOD)
34.35

Co-Ordinates
E 503526.79 N 180546.89

Final Depth
20.00m

Client
Ove Arup and Partners

Method/
Plant Used Cable Percussion

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
22/07/21	4.50	Dry	14.35		20.00	11.00 ... with rare white flecks and rare shell fragments	11.00-11.45	D31				
							11.70	D32				
							12.00-12.45	U33	100 blows	100% Recovery		
							12.45	D34				
							12.50					
							12.50-12.95	D35	N33	3, 6 / 6, 8, 9, 10		
							13.20	D36				
						13.20 ... with occasional pockets of light brown silt (<25mm)	13.50-13.95	U37	100 blows	100% Recovery		
							13.95	D38				
							14.00					
							14.00-14.45	D39	N35	4, 6 / 7, 8, 9, 11		
							14.70	D40				
						Very stiff, brownish grey slightly micaceous CLAY with occasional white flecks, rare off-white shell fragments (<5mm) and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	15.00-15.45	U41	100 blows	100% Recovery		
						14.00 ... with rare fine to coarse gravel size claystone fragments	15.45	D42				
							15.50					
							15.50-15.95	D43	N37	4, 6 / 7, 9, 10, 11		
							16.20	D44				
							16.50-16.95	U45	100 blows	100% Recovery		
							16.95	D46				
							17.00					
						17.00 ... becoming light brownish grey with occasional off-white shell fragments and bioturbation	17.00-17.45	D47	N41	4, 6 / 8, 9, 11, 13		
							17.70	D48				
							18.00-18.45	U49	100 blows	100% Recovery		
							18.45	D50				
							18.50					
						18.50 ... with band of claystone	18.50-18.95	D51	N43	16, 7 / 8, 10, 12, 13		
							19.20	D52				
						19.20 ... with rare partings of light brown silt	19.50-19.95	U53	100 blows	100% Recovery		
							19.95	D54				
						End of Borehole						

Issue: FINAL

Logger: DH

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 16:42

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

13/07/21

Date Completed

15/07/21

Ground Level (mOD)

34.32

Co-Ordinates

E 503484.45 N 180385.52

Final Depth

20.00m

Client

Ove Arup and Partners

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 20.00	IP CP	13/07/2021 13/07/2021	13/07/2021 15/07/2021	ST ST	DH/AN DH/AN			Hand Excavated Dando 1000	AR909

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					1.50	3.00	1.50 2.30 9.00	2.30 3.70 9.30	02:00 02:00 00:30	Slow Drilling Slow Drilling Claystone

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Duration (hr)	Recovery (%)
0.00 20.00	150 150	0.00 4.10	150 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP	50	0.80	0.40	0.80	15/07/2021
GWMP	50	3.70	1.30	3.70	15/07/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.25 0.40 0.80 1.30 3.70	0.25 0.40 0.80 1.30 3.70 20.00	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Pea Shingle Bentonite Pellets	15/07/2021	Flush Cover

Project

LHR114 Ridgeway Trading Estate

Job No

21/3593

Date Started

13/07/21

Date Completed

15/07/21

Ground Level (mOD)

34.32

Co-Ordinates

E 503484.45 N 180385.52

Final Depth

20.00m

Client

Ove Arup and Partners

PROGRESS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
13/07/21	0.00		Dry	
13/07/21	1.20		Dry	
13/07/21	1.50	1.50	Wet	... Water Added
13/07/21	2.30	2.00	1.50	
14/07/21	2.30	2.00	1.50	... Water Added
14/07/21	3.50	2.00	2.10	
14/07/21	4.30	4.10	Dry	
14/07/21	12.00	4.10	Dry	
15/07/21	12.00	4.10	Dry	
15/07/21	20.00	4.10	Dry	

SPT DETAILS

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
S	1.20	N11	1, 1 / 1, 1, 1, 8		Dry
C	1.50	N43	9, 12 / 13, 10, 7, 13		Wet
C	2.50	N50/0.14	13, 7 / 33, 17	1.50	1.50
C	3.50	N10	3, 2 / 2, 2, 3, 3	1.50	2.10
S	5.00	N17	1, 3 / 4, 4, 4, 5	4.10	Dry
S	6.50	N21	2, 3 / 4, 5, 5, 7	4.10	Dry
S	8.00	N23	3, 4 / 5, 5, 6, 7	4.10	Dry
S	10.00	N27	3, 3 / 5, 7, 7, 8	4.10	Dry
S	12.00	N29	4, 5 / 6, 7, 8, 8	4.10	Dry
S	13.50	N30	4, 4 / 5, 8, 8, 9	4.10	Dry
S	15.00	N35	3, 5 / 6, 9, 9, 11	4.10	Dry
S	16.50	N50/0.25	3, 5 / 6, 8, 10, 26	4.10	Dry
S	18.00	N39	6, 7 / 9, 9, 9, 12	4.10	Dry
S	19.50	N35	5, 6 / 7, 8, 9, 11	4.10	Dry

GENERAL REMARKS

- UXO carried out in the borehole.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

HOLE TYPES

IP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC - Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

27/08/2021 16:41

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 13/07/21	Ground Level (mOD) 34.32	Co-Ordinates E 503484.45 N 180385.52	Final Depth 20.00m
Date Completed 15/07/21				
Client Ove Arup and Partners	Method/ Plant Used Cable Percussion			Sheet 1 of 2

PROGRESS			STRATA			SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	
13/07/21		Dry	34.12		0.20	Reinforced CONCRETE.				
						0.16 ... with steel mesh	0.50			
						0.20 ... with black plastic sheet	0.50-0.60	ES1		VOC 1.2ppm
						Greyish brown silty sandy GRAVEL with low brick cobble content. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete, ceramic, glass, plastic fragments. Sand is fine to coarse.	0.50-0.60	B2		VOC 1.1ppm
13/07/21		Dry	33.22		1.10	(MADE GROUND)	0.80-1.00	ES3		
						0.40 - 0.70 ... becoming brownish grey with high brick and concrete cobble content	0.80-1.00	B4		
13/07/21	1.50	Wet	32.82		1.50	(MADE GROUND)	1.10	D5	N11	1, 1 / 1, 1, 1, 8 VOC 1.1ppm
						0.40 ... with a layer of geotextile fabric	1.20			
						0.40 - 0.70 ... becoming brownish grey with high brick and concrete cobble content	1.20	ES6		
13/07/21	2.00	1.50				0.70 - 1.10 ... becoming reddish brown with high brick cobble content and clay pipe fragments	1.20-1.50	D7		
14/07/21	2.00	1.50					1.20-1.50	B8		
						Firm, orangish brown slightly gravelly sandy silty CLAY with occasional coal and ceramic fragments. Gravel comprises angular to subrounded fine to coarse flint and brick fragments. Sand is fine to coarse.	1.50		N43	9, 12 / 13, 10, 7, 13 VOC 1ppm
						(MADE GROUND)	1.50	B10		
						Very dense, orangish brown sandy angular to subrounded fine to coarse flint GRAVEL.	1.50-2.00	ES9		
						Sand is fine to coarse.	2.30	D11		
14/07/21	2.00	2.10	30.82		3.50	(RIVER TERRACE DEPOSITS)	2.50		N50/ 140 mm	13, 7 / 33, 17
						Firm to stiff, extremely closely fissured orangish brown mottled grey slightly sandy slightly gravelly silty CLAY with occasional pockets of orangish brown silty fine sand (<40mm) and rare dark grey flecks. Gravel is subangular to subrounded fine to medium flint. Fissures are randomly orientated, planar, smooth, unpolished.	2.50-3.00	B12		
						(THAMES GROUP: WEATHERED LONDON CLAY)	3.30	D13		
						Stiff to very stiff, extremely closely to very closely fissured brownish grey slightly sandy slightly micaceous silty CLAY with rare off-white shell fragments and dark grey flecks. Fissures are subhorizontal and subvertical, planar, smooth, unpolished.	3.50		N10	3, 2 / 2, 2, 3, 3 VOC 1.2ppm
14/07/21	4.10	Dry			(1.50)		3.50-4.00	B14		
						5.50 ... with rare pockets of dark grey silt (<15mm), occasional bioturbation and white flecks	3.70	ES15		
						6.50 ... becoming extremely closely fissured with rare pockets of light brown fine sand (<30mm). Fissures are subhorizontal, planar, smooth, unpolished	3.70-4.00	D16		
						7.00 ... with occasional pockets of light brown fine sandy silt (<35mm) and off-white shell fragments (<3mm)	4.30	D17	57 blows	100% Recovery
						8.00 ... with rare partings of light brown fine sand and rare pockets of light brown silty fine sand (<15mm)	4.50-4.95	U17		
						8.50 ... with frequent white flecks	5.00		N17	1, 3 / 4, 4, 4, 5
						9.00 - 9.50 ... with a band of claystone	5.00	D18		
						10.00 ... becoming very closely fissured with occasional pockets of light brown and light grey silty fine sand (<40mm). Fissures are subhorizontal, planar, smooth, unpolished	5.00-5.45	D19		
						10.50 ... with occasional partings of light brown fine sand and frequent pockets of light	5.50	D20		
							6.00-6.45	U21	70 blows	100% Recovery
							6.50		N21	2, 3 / 4, 5, 5, 7
							6.50	D22		
							6.50-6.95	D23		
							7.00	D24		
							7.50-7.95	U25	78 blows	100% Recovery
							8.00		N23	3, 4 / 5, 5, 6, 7
							8.00	D26		
							8.00-8.45	D27		
							9.00-9.50	B28		
							9.50-9.95	U29	60 blows	100% Recovery
							10.00		N27	3, 3 / 5, 7, 7, 8
							10.00	D30		
							10.00-10.45	D31		
							10.50	D32		
							11.00-11.50	B33		

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 13/07/21
Date Completed 15/07/21

Ground Level (mOD)
34.32

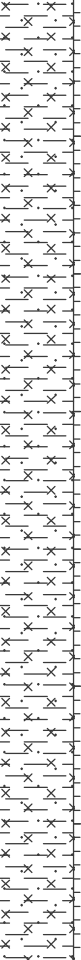
Co-Ordinates
E 503484.45 N 180385.52

Final Depth
20.00m

Client
Ove Arup and Partners

Method/
Plant Used Cable Percussion

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
14/07/21 15/07/21	4.10 4.10	Dry Dry			(13.00)	brown and light grey silty fine sand (<45mm) 11.00 - 11.40 ... with a band of claystone	11.50-11.95	U34	100 blows	100% Recovery		
						12.00 ... with rare pockets of light brown silt (<10mm)	12.00 12.00-12.45 12.50	D35 D36 D37	N29	4, 5 / 6, 7, 8, 8		
						12.50 ... with rare bioturbation and white flecks	13.00-13.45	U38	95 blows	100% Recovery		
							13.50 13.50-13.95 14.00	D39 D40 D41	N30	4, 4 / 5, 8, 8, 9		
						14.00 ... with frequent white flecks	14.50-14.95	U42	100 blows	100% Recovery		
							15.00 15.00-15.45 15.50	D43 D44 D45	N35	3, 5 / 6, 9, 9, 11		
						15.50 ... with frequent pockets of light brown silty fine sand (<45mm)	16.00-16.45	U46	100 blows	100% Recovery		
							16.50		N50/ 250 mm	3, 5 / 6, 8, 10, 26		
						16.50 ... with occasional pockets of light brown silty fine sand (<25mm)	16.50 16.50-16.95 17.00	D47 D48 D49				
						17.00 ... with occasional strong light brown angular to subangular medium to coarse gravel size claystone fragments	17.50-17.95	U50	100 blows	100% Recovery		
			16.32		18.00		18.00 18.00 18.50	D51 D52 D53	N39	6, 7 / 9, 9, 9, 12		
					(2.00)	Very stiff, extremely closely fissured brownish grey slightly micaceous CLAY with occasional off-white shell fragments (<35mm), bioturbation and rare white flecks. Fissures are subhorizontal, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	19.00-19.45	U54	100 blows	100% Recovery		
						19.50 - 19.50 ... with a band of claystone	19.50 19.50-19.95 20.00	D55 D56 D57	N35	5, 6 / 7, 8, 9, 11		
15/07/21	4.10	Dry	14.32 14.32		20.00 20.00	Very stiff, slightly sandy slightly micaceous silty CLAY with rare pockets of light brown silt (<30mm), occasional bioturbation, rare lignite fragments (<5mm) and white flecks. (THAMES GROUP: LONDON CLAY FORMATION - A2) End of Borehole						

Issue: FINAL

Logger: DH/AN

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 16:42

SPT Hammer Energy Test Report

Presented with this test report is a copy of the test data.

Southern Testing
Unit 11
Charlwood Road
East Grinstead
West Sussex
BN19 2BU

SPT Hammer Test: 14/02/06
Test Date: 15/12/2005
Report Date: 20/02/2006
File Name: EQM15.spt
Test Operator: JPS

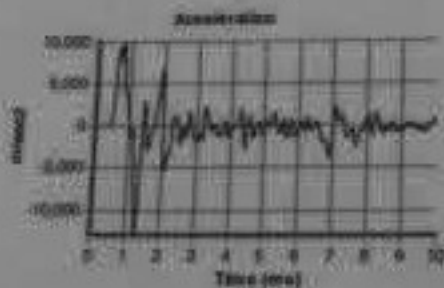
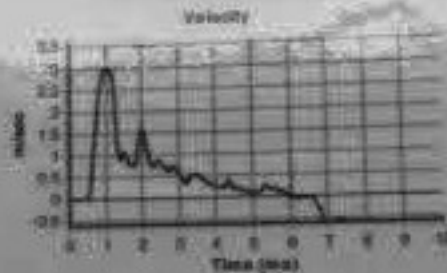
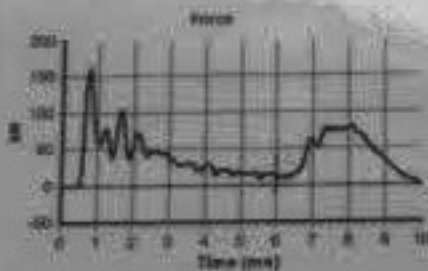
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.3
Assumed Modulus E_r (GPa): 208
Accelerometer No.1: 6452
Accelerometer No.2: 9507

SPT Hammer Information

Hammer Mass m (kg): 65.5
Falling Height h (mm): 266
SPT Spring Length L (m): 19.5

Comments / Location
CHARLWOODS



Calculations

Area of Rod A (mm^2): 944
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 263

Energy Ratio E_r (%): **56**

Signed: S. Simmonds
Title: Field Operations Tech

The recommended calibration interval is 12 months

SPT Hammer Energy Test Report

In accordance with BS EN ISO 22476-3:2005

Southern Testing
Unit 11
Charlwood Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref: AR909
Test Date: 28/06/2021
Report Date: 28/06/2021
File Name: AR909.spt
Test Operator: NPB

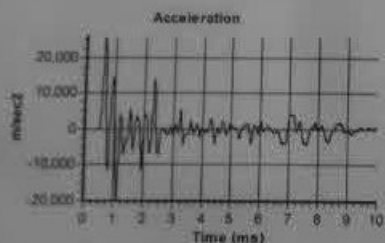
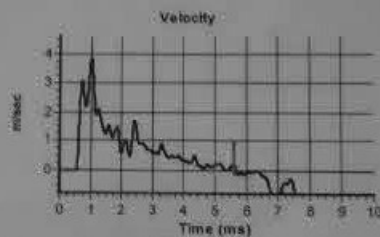
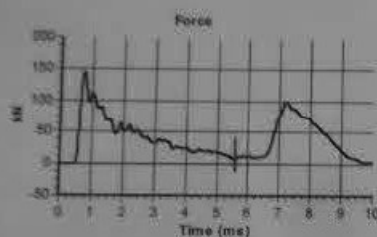
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.6
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 64786
Accelerometer No.2: 64789

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location
CHARLWOODS



Calculations

Area of Rod A (mm²): 983
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 338

Energy Ratio E_r (%): **71**

Signed: *NPB Burrows*
Title: Field Operations Manager

The recommended calibration interval is 12 months

9. DYNAMIC SAMPLING BOREHOLE LOGS

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 13/07/21
Date Completed 13/07/21

Ground Level (mOD)
34.40

Co-Ordinates
E 503615.98 N 180448.56

Final Depth
4.00m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
13/07/21		Dry	34.20		(0.20) 0.20	Dark greyish brown slightly gravelly very sandy SILT with frequent rootlets. Gravel comprises angular to subangular fine to medium flint, brick glass and ceramic fragments. Sand is fine to medium. (MADE GROUND)	0.10 0.20-0.30 0.30 0.30	D1 B2 ES3		VOC 1ppm	
					(0.70)	Brown silty gravelly fine SAND with frequent rootlets. Gravel comprises angular to subrounded fine to medium flint, brick, chalk, glass and ceramic fragments. (MADE GROUND)	0.70 0.70	ES4 B5		VOC 1.2ppm	
			33.50		0.90	0.40 ... with 1No metal wire 0.45 - 0.60 ... with 1No concrete cobble 0.60 ... becoming very gravelly. Gravel comprises sandstone, concrete and clinker fragments. Sand becoming fine to medium	0.70-0.80 0.90	D6			
13/07/21		Dry	33.00		(0.50) 1.40	Light brown slightly gravelly silty fine SAND. Gravel comprises angular to subrounded fine to medium flint, brick, clinker, ceramic, slate and concrete fragments. (MADE GROUND)	1.20 1.20	ES7		VOC 2.2ppm	
					(1.00)	Brown very gravelly fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, brick, clinker, concrete and ceramic fragments. (MADE GROUND)	1.60 1.60	ES8		VOC 1.6ppm	
						1.60 ... becoming yellowish brown and very clayey 1.65 ... becoming reddish brown	2.00 2.00	ES9		VOC 2.6ppm	
			32.00		2.40						
					(0.40)	Dark grey slightly sandy slightly silty subangular to subrounded fine to coarse flint GRAVEL. Sand is fine. (MADE GROUND)	2.50 2.50 2.50	ES10 D11		VOC 2.7ppm	
			31.60		2.80	2.75 ... with 2No tile fragments					
						Yellowish brown sandy very clayey subangular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse.	3.00			VOC 0.9ppm	

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	3.00	87	100
3.00	4.00	87	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 3.00m depth.
3. Borehole aborted at 4.00m depth due to instability. Borehole collapsing to 3.2m depth.
4. Water level at 2.95m upon completion.
5. Ø50mm groundwater monitoring pipe installed at 3.20m, slotted between 2.20m and 3.20m depth.
6. Borehole backfilled with soil arisings between 4.00m and 3.20m depth, pea shingle between 3.20m and 2.20m, and bentonite pellets between 2.20m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: CS

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 13/07/21
Date Completed 13/07/21

Ground Level (mOD)
34.40

Co-Ordinates
E 503615.98 N 180448.56

Final Depth
4.00m

Client
Ove Arup and Partners

Method/
Plant Used **Dynamic Sampling**

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
13/07/21	3.00	2.95	31.17		(0.43) 3.23	(RIVER TERRACE DEPOSITS) 2.90 ... with no clay	3.00 3.20	ES12		... Borehole collapsing to 3.20m depth VOC 0.1ppm ... Borehole aborted at 4.00m depth (see Remarks)	
			30.55		(0.62) 3.85	Firm, orangish brown silty CLAY. (THAMES GROUP: WEATHERED LONDON CLAY) 3.36 ... with dark grey staining 3.39 - 3.52 ... with a pocket of yellowish brown sandy subangular to subrounded fine to medium flint gravel. Sand is fine to coarse	3.60 3.60 3.70	ES13 D14			
			30.40		(0.15) 4.00	Firm, grey slightly sandy silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	4.00				
						End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 13/07/21
Date Completed 14/07/21

Ground Level (mOD)
34.24

Co-Ordinates
E 503595.21 N 180392.92

Final Depth
3.40m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA			SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	
13/07/21		Dry	34.19		0.05	Dark brown slightly sandy slightly gravelly SILT. Gravel comprises angular to subrounded fine to medium flint, concrete, brick and occasional glass fragments. Sand is fine to medium. (MADE GROUND)	0.01	D1		
					(0.30)					
			33.89		0.35	Grey CONCRETE, clasts are subangular to subrounded fine flint gravel. 0.24 ... becoming light brown	0.40	ES2	VOC 1.6ppm	
							0.40	D3		
							0.40			
						Reddish orange gravelly silty fine SAND with low brick cobble content and occasional shell fragments. Gravel comprises angular to subrounded fine to coarse flint, brick, clinker, clay pipe, metal, ceramic and glass fragments. (MADE GROUND)	0.60-0.70	B4		
							0.70	ES5	VOC 1.3ppm	
					(1.00)		0.70	D6		
							0.70			
							1.00	B7		
13/07/21		Dry					1.20		VOC 0.9ppm	
14/07/21		Dry					1.20	ES8		
			32.89		1.35		1.20	D9		
						Brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is subangular to subrounded fine flint. Sand is fine. (LANGLEY SILT MEMBER)	1.50	ES10	VOC 0.2ppm	
					(0.45)		1.50	D11		
						1.60 ... becoming mottled reddish brown and light grey	1.50			
			32.44		1.80	1.70 ... becoming very sandy				
						Yellowish brown gravelly fine to medium SAND. Gravel is subangular to subrounded fine to medium flint. (RIVER TERRACE DEPOSITS)	2.00	ES12	VOC 0.4ppm	
					(0.45)		2.00	D13		
						2.00 ... becoming yellowish grey and slightly silty	2.00	D14		
			31.99		2.25		2.15-2.25	D15		
						Dark reddish brown slightly silty sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	2.25-2.40			
						2.40 ... becoming greyish and yellowish brown	2.40-2.80	B16		
					(1.15)					
						2.80-3.40		B17		
						2.90 ... becoming orangish brown				

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	2.80	87	100
2.80	3.40	87	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.80m depth.
3. Borehole aborted at 3.40m depth due to refusal.
4. Ø50mm groundwater monitoring pipe installed at 3.10m, slotted between 1.70m and 3.10m depth.
5. Borehole backfilled with bentonite pellets between 3.40m and 3.10m depth, pea shingle between 3.10m and 1.70m, and bentonite pellets between 1.70m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: CS

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50



Borehole No

WS102

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 13/07/21 Date Completed 14/07/21	Ground Level (mOD) 34.24	Co-Ordinates E 503595.21 N 180392.92	Final Depth 3.40m
Client Ove Arup and Partners			Method/ Plant Used Dynamic Sampling	Sheet 2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
14/07/21	2.80	Dry	30.84		3.40	3.10 ... becoming slightly sandy 3.25 ... becoming slightly clayey, slightly silty and sandy 3.35 ... becoming greyish brown End of Borehole	3.40			... Borehole aborted at 3.40m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: KZ	Logger: CS	CHD: AN	APRV: OS	Log Print Date & Time: 27/08/2021 14:50	
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Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 14/07/21
Date Completed 14/07/21

Ground Level (mOD)
34.26

Co-Ordinates
E 503488.89 N 180362.20

Final Depth
5.00m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
14/07/21		Dry	34.20		0.06	Dark brown slightly gravelly sandy SILT. Gravel comprises angular to subrounded fine to medium flint, concrete and brick fragments. Sand is fine to medium. (MADE GROUND)					
					(0.29)						
			33.91		0.35	Light grey CONCRETE. 0.25 ... becoming grey	0.35-0.55 0.40	B1		VOC 0.3ppm	
					(0.20)		0.40	ES2			
			33.71		0.55	Greyish brown sandy GRAVEL with frequent roots (<15mm) and low concrete cobble content. Gravel comprises angular to subrounded fine to coarse flint, concrete, brick and glass fragments. Sand is fine to coarse (MADE GROUND) 0.55 ... with layer of geofabric	0.55	D3			
							0.80 0.80-1.00 0.80-1.00	B4 ES5		VOC 2.2ppm	
14/07/21		Dry				Brownish grey sandy GRAVEL with medium concrete and tile cobble content. Gravel comprises angular fine to coarse tile and screed fragments. Sand is fine to medium. (MADE GROUND)	1.20 1.20-1.60	ES6		VOC 0.6ppm	
					(2.05)						
							1.60-2.00	D7			
							2.30 2.30-2.60	ES8		VOC 0.2ppm	
						2.30 ... becoming dark grey. Gravel is angular to subangular fine to coarse clinker fragments					
			31.66		2.60		2.60-2.80	D9			
							2.80 2.80-3.00	ES10		VOC 0.8ppm	
					(0.60)	Brown slightly gravelly sandy clayey SILT with frequent roots (<5mm). Gravel comprises angular to subangular fine to coarse flint, brick, clinker and coal fragments. (MADE GROUND)	3.00-3.20	D11			

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	75
2.00	3.00	87	100
3.00	4.00	87	90

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 4.00m depth.
3. Water level at 4.85m upon completion.
4. Ø50mm groundwater monitoring pipe installed at 4.30m, slotted between 3.20m and 4.30m depth.
5. Borehole backfilled with bentonite pellets between 5.00m and 4.30m, pea shingle between 4.30m and 3.20m and bentonite pellets between 3.20m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: CS

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 14/07/21
Date Completed 14/07/21

Ground Level (mOD)
34.26

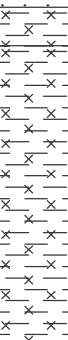
Co-Ordinates
E 503488.89 N 180362.20

Final Depth
5.00m

Client
Ove Arup and Partners

Method/
Plant Used **Dynamic Sampling**

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
14/07/21	4.00	4.85	31.06		3.20	Greyish brown slightly sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS) 3.35 ... becoming yellowish brown and sandy	3.20-4.00	B12	VOC 0.2ppm	VOC 0.2ppm	
				(0.90)	3.40 3.40-3.60		ES13				
					30.16		4.10	4.10-5.00			B14
			30.06	4.20	4.20-4.30	ES15					
				(0.80)	Stiff, brownish grey slightly micaceous silty CLAY with occasional partings of light grey silt, frequent pocket of dark grey fine sand (<18mm) and occasional pyrite nodules. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)						
29.26	5.00	End of Borehole									

DYNAMIC SAMPLING RECOVERY

GENERAL REMARKS

From	To	Diameter (mm)	Recovery (%)
4.00	5.00	87	90

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: CS

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

AGS

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 15/07/21
Date Completed 15/07/21

Ground Level (mOD)
34.04

Co-Ordinates
E 503401.49 N 180333.73

Final Depth
4.00m

Client
Ove Arup and Partners

Method/
Plant Used **Dynamic Sampling**

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
15/07/21	Dry	Dry	33.91		0.13	Paving stones (0.08m) over yellow medium to coarse SAND. (MADE GROUND)					
			33.79		0.25	CONCRETE.					
						Reddish brown sandy GRAVEL with high brick and concrete cobble content. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.30	ES1 B2		VOC 1.2ppm	
						0.50 ... with a layer of geofabric	0.30				
						0.50 ... becoming greyish brown and silty with low brick and concrete cobble content, rare glass (<30mm) and tile fragments	0.30				
					(1.10)	0.80 ... with rare coal and clinker fragments (<15mm)	0.50	ES3 B4		VOC 1.3ppm	
							0.50-0.70				
							0.50-0.70				
							1.00	ES5 B6		VOC 0.9ppm	
							1.00-1.20				
							1.00-1.20				
15/07/21	Dry	Dry	32.69		1.35	1.20 ... becoming dark grey					
							1.35	ES7		VOC 0.3ppm	
							1.35				
					(0.20)	Soft to firm, yellowish brown slightly gravelly sandy silty CLAY with occasional black flecks. Gravel comprises angular to subrounded fine to coarse flint, brick, clinker and coal fragments. Sand is fine to coarse. (MADE GROUND)					
			32.49		1.55						
					(0.25)	Brown slightly gravelly sandy SILT. Gravel comprises angular to subrounded fine to coarse flint, brick, coal, clinker, tile and ceramic fragments. (MADE GROUND)	1.70	ES8		VOC 0.8ppm	
							1.70				
			32.24		1.80						
					(0.30)	Blackish brown gravelly silty fine to coarse SAND with occasional wood fragments (<5mm). Gravel comprises angular to subangular fine to coarse brick, clinker and glass fragments. (MADE GROUND)	1.90	ES9		VOC 0.3ppm	
							1.90				
			31.94		2.10		2.10	ES10		VOC 0.2ppm	
					(0.40)	Greyish brown silty clayey sandy GRAVEL. Gravel comprises angular to subangular fine to coarse brick, clinker, ceramic, coal and metal fragments. Sand is fine to coarse. (MADE GROUND)	2.10-2.50				
			31.54		2.50						
					(0.50)	2.25 ... with a pocket of off-white and orangish brown medium to coarse sand (<80mm)					
			31.04		3.00						

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	3.00	87	50
3.00	4.00	87	90

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 4.00m depth.
3. Water level at 2.40m upon completion.
4. Ø50mm groundwater monitoring pipe installed at 3.60m, slotted between 2.10m and 3.60m depth.
5. Borehole backfilled with bentonite pellets between 4.00m and 3.60m, pea shingle between 3.60m and 2.10m and bentonite pellets between 2.10m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: DH

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 15/07/21
Date Completed 15/07/21

Ground Level (mOD)
34.04

Co-Ordinates
E 503401.49 N 180333.73

Final Depth
4.00m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
2 of 2

PROGRESS			STRATA			SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	
15/07/21	4.00	2.40	30.94		3.10	No Recovery				VOC 0.5ppm
					(0.50)	Dark reddish brown sandy angular fine to medium slate GRAVEL. Sand is medium to coarse. (MADE GROUND)	3.30 3.30 3.30-3.60	ES11 D12		
			30.44		3.60	Yellowish brown clayey very sandy angular to rounded fine to coarse flint GRAVEL. (RIVER TERRACE DEPOSITS)	3.60-4.00	D13		
			30.14		(0.30)	3.20 ... becoming slightly clayey and sandy Stiff, brown silty CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)	3.70 3.70	ES14		
			30.04		3.90	Stiff, brownish grey silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)				
					4.00	3.90 ... becoming brownish grey End of Borehole				

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: DH

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 19/07/21
Date Completed 19/07/21

Ground Level (mOD)
34.26

Co-Ordinates
E 503449.12 N 180436.48

Final Depth
4.00m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/07/21		Dry	34.16		0.10	TOPSOIL					
			34.06		0.20	Dark brown silty gravelly fine to coarse SAND. Gravel comprises angular to subangular fine to coarse flint and brick fragments. (MADE GROUND)	0.20 0.20 0.20	ES1 B2		VOC 0.3ppm	
					(0.50)	Light brown slightly clayey silty sandy GRAVEL. Gravel comprises angular to subangular fine to coarse flint, concrete, brick, clinker and ceramic fragments. (MADE GROUND)					
			33.56		0.70	Dark brown slightly sandy gravelly silty CLAY. Gravel comprises angular to subangular fine to coarse flint, brick and clinker fragments. (MADE GROUND)	0.70 0.70 0.70	ES3 B4		VOC 0.1ppm	
19/07/21		Dry	33.06		1.20	Light brown slightly gravelly slightly sandy silty CLAY. Gravel is angular to subangular fine to coarse flint. (LANGLEY SILT MEMBER)	1.20 1.20 1.20	ES5 B6		VOC 0.1ppm	
					(1.20)	1.75 ... becoming mottled bluish grey and very sandy					
						2.30 ... becoming orangish brown					
			31.86		2.40	Light grey silty sandy angular to subangular fine to coarse flint GRAVEL. (RIVER TERRACE DEPOSITS)	2.60 2.60	ES8		VOC 0.3ppm	

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	3.00	87	100
3.00	4.00	87	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 3.00m depth.
3. Water level at 2.00m upon completion.
4. Ø50mm groundwater monitoring pipe installed at 3.00m, slotted between 2.00m and 3.00m depth.
5. Borehole backfilled with bentonite pellets between 4.00m and 3.00m, pea shingle between 3.00m and 2.00m and bentonite pellets between 2.00m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 19/07/21
Date Completed 19/07/21

Ground Level (mOD)
34.26

Co-Ordinates
E 503449.12 N 180436.48

Final Depth
4.00m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/07/21	3.00	2.00	30.26		(1.60) 4.00		3.60 3.60	ES9		VOC 0.3ppm	
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

GENERAL REMARKS

From To Diameter (mm) Recovery (%)

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 22/07/21
Date Completed 22/07/21

Ground Level (mOD)
34.21

Co-Ordinates
E 503359.48 N 180469.96

Final Depth
3.70m

Client
Ove Arup and Partners

**Method/
Plant Used** Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
22/07/21		Dry				Dark brown clayey silty very gravelly fine to coarse SAND. Gravel comprises angular to subangular fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.00-0.20 0.20 0.20	B1 ES2		VOC 0ppm	
22/07/21		Dry	33.01		(1.20)						
							0.70 0.70 0.70	ES3 B4		VOC 0.1ppm	
							1.20 1.20 1.20 1.20	ES5 B6 B7		VOC 0.1ppm	
			32.81		(0.20)	Light brown locally mottled bluish grey slightly gravelly slightly sandy CLAY. Gravel comprises angular to subangular fine to coarse flint and chalk fragments. Sand is medium to coarse. (MADE GROUND)					
					1.40						
						Orangish brown slightly gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS) 1.60 ... becoming yellowish brown and very gravelly					
							2.00	B8			
						2.15 - 2.25 ... with a band of greenish grey sandy silty clay					
					(2.30)						
							2.70 2.70	B9		... Borehole collapsing to 2.70m depth	

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	100	
2.00	3.00	77	100	
2.70	3.70	67	80	
				1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Ø110mm casing used from ground level to 2.00m depth. 3. Borehole collapsing to 2.70m depth. Re-drilled from 2.70m to 3.70m depth. 4. Water level at 2.20m upon completion. 5. Ø50mm groundwater monitoring pipe installed at 2.40m, slotted between 1.50m and 2.40m depth. 6. Borehole backfilled with bentonite pellets between 3.70m and 2.40m, pea shingle between 2.40m and 1.50m and bentonite pellets between 1.50m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: KZ	Logger: AB	CHD: AN	APRV: OS	Log Print Date & Time: 27/08/2021 14:50	AGS
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Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 22/07/21
Date Completed 22/07/21

Ground Level (mOD)
34.21

Co-Ordinates
E 503359.48 N 180469.96

Final Depth
3.70m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
22/07/21	2.00	2.20	30.51		3.70	End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: KZ	Logger: AB	CHD: AN	APRV: OS	Log Print Date & Time: 27/08/2021 14:50	
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Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 19/07/21
Date Completed 20/07/21

Ground Level (mOD)
34.18

Co-Ordinates
E 503302.79 N 180454.83

Final Depth
3.90m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/07/21		Dry	34.08		0.10	CONCRETE. 0.05 ... with a rebar layer					
					(0.25)	Greyish brown sandy GRAVEL. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete, mortar and glass fragments. Sand is fine to coarse. (MADE GROUND)	0.20 0.20 0.20	ES1 B2		VOC 0.3ppm	
			33.83		0.35	Dark brown slightly gravelly silty fine to coarse SAND with occasional roots (<5mm). Gravel comprises angular to subrounded fine to coarse flint, brick, concrete and plastic fragments. (MADE GROUND)	0.50 0.50 0.50	ES3 B4		VOC 0.3ppm	
			33.38		0.80	0.60 ... becoming light brown Soft, brown slightly gravelly sandy silty CLAY. Gravel is subangular to rounded fine to coarse flint. Sand is fine to medium. (LANGLEY SILT MEMBER)	1.00 1.00-1.20 1.00-1.20	ES5 B6		VOC 0.4ppm	
19/07/21 20/07/21		Dry Dry	32.98		1.20	Orangish brown slightly clayey silty gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse flint. (RIVER TERRACE DEPOSITS)	1.40 1.40	ES7		VOC 0.2ppm	
					(2.10)	1.85 ... becoming clayey 2.00 - 2.10 ... with a band of light greyish brown slightly sandy clay 2.10 - 2.15 ... with a band of dark greyish black sandy gravel. Gravel is angular to subangular fine to coarse flint 2.20 ... becoming dark orangish brown and very gravelly 2.50 ... becoming light brown and gravelly	2.30 2.30	ES8		VOC 0.3ppm	
						2.90 - 3.25 ... AZCL					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	88
2.00	2.90	87	100
2.90	3.90	87	70

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.90m depth.
3. Core run re-drilled between 2.90m and 3.90m depth using Ø67mm diameter liner, still no clay encountered.
4. Water level at 2.30m upon completion.
5. Ø50mm groundwater monitoring pipe installed at 2.90m, slotted between 1.70m and 2.90m depth.
6. Borehole backfilled with bentonite pellets between 3.90m and 2.90m, pea shingle between 2.90m and 1.70m and bentonite pellets between 1.70m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
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All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 19/07/21
Date Completed 20/07/21

Ground Level (mOD)
34.18

Co-Ordinates
E 503302.79 N 180454.83

Final Depth
3.90m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
20/07/21	2.90	2.30	30.88		3.30	3.25 ... becoming slightly gravelly					
					(0.60)	Light grey silty angular to subangular fine to coarse flint GRAVEL. (RIVER TERRACE DEPOSITS)					
			30.28		3.90	End of Borehole					

DYNAMIC SAMPLING RECOVERY

GENERAL REMARKS

From To Diameter (mm) Recovery (%)

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 22/07/21
Date Completed 22/07/21

Ground Level (mOD)
34.40

Co-Ordinates
E 503554.57 N 180467.79

Final Depth
3.70m

Client
Ove Arup and Partners

**Method/
Plant Used** Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
22/07/21		Dry			(0.55)	Brown clayey very sandy GRAVEL with low brick and concrete cobble content. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.20 0.20 0.20	ES1 B2		VOC 0.2ppm	
			33.85		0.55						
22/07/21		Dry			(1.25)	Soft, light brown slightly gravelly sandy silty CLAY. Gravel comprises angular to rounded fine to coarse flint. Sand is fine to coarse. (LANGLEY SILT MEMBER)	0.70 0.70-0.90 0.70-0.90	ES3 B4		VOC 0.1ppm	
						1.00 ... becoming mottled orangish brown and light grey with frequent dark grey staining and flecks	1.00 1.00-1.20 1.00-1.20	ES5 B6		VOC 0ppm	
						1.20 - 1.45 ... AZCL					
			32.60		1.80						
					(1.90)	Orangish brown slightly gravelly silty fine to medium SAND. Gravel is angular to subangular fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.55 2.55 2.70	ES7		VOC 0.1ppm	
										... Borehole collapsing to 2.70m depth	

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	81
2.00	3.00	87	70
2.70	3.70	77	90

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 3.00m depth.
3. Core run between 2.00m and 3.00m drilled with no casing. Borehole collapsing to 2.70m depth. Re-drilled from 2.70m to 3.70m depth. Water level at 2.70m upon completion.
4. Ø50mm groundwater monitoring pipe installed at 2.90m, slotted between 2.00m and 2.90m depth.
5. Borehole backfilled with bentonite pellets between 3.70m and 2.90m, pea shingle between 2.90m and 2.00m and bentonite pellets between 2.00m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: DH/ AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:50

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 22/07/21
Date Completed 22/07/21

Ground Level (mOD)
34.40

Co-Ordinates
E 503554.57 N 180467.79

Final Depth
3.70m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
22/07/21	3.00	2.70	30.70		3.70	End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 22/07/21
Date Completed 22/07/21

Ground Level (mOD)
34.84

Co-Ordinates
E 503591.98 N 180526.80

Final Depth
2.40m

Client
Ove Arup and Partners

**Method/
Plant Used** Dynamic Sampling

Sheet
1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
22/07/21		Dry				Light brown slightly gravelly silty fine to coarse SAND with occasional rootlets. Gravel is angular to subangular fine to coarse flint. (MADE GROUND)	0.10 0.10 0.10	ES1 B2		VOC 0.1ppm	
			34.04		(0.80)	0.20 ... becoming gravelly with medium brick cobble content. Gravel comprises angular to subangular fine to coarse flint and brick fragments	0.50 0.50 0.50	ES3 B4		VOC 0.4ppm	
22/07/21		Dry	33.64		(0.40)	Light brown slightly clayey slightly gravelly silty fine to coarse SAND with occasional rootlets. Gravel is angular to subangular fine to coarse flint. (MADE GROUND?)	1.00 1.00 1.00	ES5 B6		VOC 0.5ppm	
					(0.60)	Light orangish brown slightly gravelly sandy silty CLAY with occasional to frequent dark grey flecks and occasional bioturbation. (LANGLEY SILT MEMBER)	1.20-2.00	B7			
			33.04		1.80						
					(0.60)	Light orangish brown very gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse flint. (RIVER TERRACE DEPOSITS)					
22/07/21		Dry	32.44		2.40		2.40				
						End of Borehole				... Borehole aborted at 2.40m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	2.40	77	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Borehole aborted at 2.40m due to refusal.
3. Ø50mm groundwater monitoring pipe installed at 2.20m, slotted between 1.70m and 2.20m depth.
4. Borehole backfilled with pea shingle between 2.40m and 1.70m and bentonite pellets between 1.70m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:51

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 16/07/21
Date Completed 16/07/21

Ground Level (mOD)
34.95

Co-Ordinates
E 503587.17 N 180563.52

Final Depth
4.40m

Client
Ove Arup and Partners

Method/
Plant Used Dynamic Sampling

Sheet
1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
16/07/21		Dry				Light brown clayey silty very sandy GRAVEL. Gravel comprises angular to subangular fine to coarse flint, brick and clinker fragments. Sand is fine to coarse. (MADE GROUND)	0.30 0.30 0.30	ES1 B2		VOC 1.3ppm	
			34.25		0.70		0.70 0.70 0.70	ES3 B4		VOC 0.4ppm	
16/07/21		Dry	33.75		1.20	Light brown sandy gravelly silty CLAY. Gravel comprises angular to subangular fine to coarse flint, brick and clinker fragments. Sand is fine to coarse. (MADE GROUND)	1.20 1.20 1.20	ES5 B6		VOC 0.9ppm	
			33.25		1.70	Light brown slightly sandy slightly gravelly silty CLAY with occasional pockets of light grey silty fine sand (<20mm). Gravel is angular to subangular fine to coarse flint. (LANGLEY SILT MEMBER)	1.80 1.80	ES7		VOC 0.4ppm	
			32.45		2.50	2.10 ... becoming bluish grey mottled light brown and slightly gravelly. Gravel is angular to subangular fine to coarse flint	2.60 2.60	ES8		VOC 0.2ppm	
						Light grey slightly clayey silty gravelly fine to medium SAND. Gravel is angular to subangular fine to coarse flint. (RIVER TERRACE DEPOSITS) 2.70 ... becoming light brown					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	3.00	87	100
3.00	3.40	87	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 3.00m depth.
3. Due to low recovery run between 3.00m and 4.00m, was re-drilled from 3.40m to 4.40m depth using Ø67mm liner.
4. Water level at 1.60m upon completion.
5. Ø50mm groundwater monitoring pipe installed at 3.00m, slotted between 1.50m and 3.00m depth.
6. Borehole backfilled with bentonite pellets between 4.40m and 3.00m, pea shingle between 3.00m and 1.50m and bentonite pellets between 1.50m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:51

Project

LHR114 Ridgeway Trading Estate

Job No 21/3593	Date Started 16/07/21	Ground Level (mOD) 34.95	Co-Ordinates E 503587.17 N 180563.52	Final Depth 4.40m
Date Completed 16/07/21				
Client Ove Arup and Partners	Method/ Plant Used Dynamic Sampling	Sheet 2 of 2		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
16/07/21	3.00	1.60			(1.60)	3.00 ... becoming medium to coarse	3.40 3.40	ES9		VOC 0.3ppm	
			30.85		4.10		4.10 4.10	ES10		VOC 0.5ppm	
			30.55		4.40	Stiff, dark grey silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)					
						End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
3.40	4.40	67	100	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: KZ	Logger: AB	CHD: AN	APRV: OS	Log Print Date & Time: 27/08/2021 14:51	AGS
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Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 21/07/21
Date Completed 21/07/21

Ground Level (mOD)
34.98

Co-Ordinates
E 503436.83 N 180586.12

Final Depth
2.40m

Client
Ove Arup and Partners

**Method/
Plant Used** Dynamic Sampling

Sheet
1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
21/07/21		Dry	34.68		(0.30)	Dark brown silty sandy GRAVEL. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. Sand is medium to coarse. (MADE GROUND)	0.00-0.05	B1		VOC 0.3ppm	
					0.30	0.20 ... becoming light brown with occasional rootlets and plastic fragments (<150mm)	0.20	ES2			
							0.30	B3			
							0.30	B4			
							0.50	B5			
					(0.90)	Light brown slightly silty gravelly fine to coarse SAND. Gravel comprises subangular to subrounded fine to coarse brick and concrete fragments. (MADE GROUND)	0.70	ES6		VOC 0.2ppm	
						0.70 ... becoming reddish brown	0.70	B7			
21/07/21		Dry	33.78		1.20	Reddish brown slightly clayey silty fine to coarse SAND with occasional dark grey staining (RIVER TERRACE DEPOSITS)	1.20	ES8		VOC 0.2ppm	
							1.20	B9			
					(1.20)	1.80 - 2.00 ... becoming gravelly. Gravel is angular to subangular fine to coarse flint	1.20				
21/07/21		Dry	32.58		2.40	End of Borehole	2.40			... Borehole aborted at 2.40m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	2.40	67	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Borehole aborted at 2.40m due to refusal.
3. Ø50mm groundwater monitoring pipe installed at 2.00m, slotted between 1.00m and 2.00m depth.
4. Borehole backfilled with bentonite pellets between 2.40m and 2.00m, pea shingle between 2.00m and 1.00m and bentonite pellets between 1.00m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:51

Project

LHR114 Ridgeway Trading Estate

Job No
21/3593

Date Started 19/07/21
Date Completed 20/07/21

Ground Level (mOD)
34.26

Co-Ordinates
E 503420.14 N 180558.75

Final Depth
2.30m

Client
Ove Arup and Partners

Method/
Plant Used **Dynamic Sampling**

Sheet
1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/07/21		Dry				Dark brown silty gravelly fine to coarse SAND. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.10 0.10 0.10	ES1 D2		VOC 0.4ppm	
19/07/21 20/07/21		Dry Dry	33.06		1.20	0.50 ... becoming light brown and slightly gravelly	0.70 0.70 0.70	ES3 B4		VOC 0.2ppm	
						Light greyish brown silty sandy angular to subangular fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.40 1.40	ES5		VOC 0.3ppm	
						1.80 ... becoming orangish brown					
			32.26		2.00						
						Dark greyish brown and orangish brown slightly gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse flint. (RIVER TERRACE DEPOSITS)					
20/07/21	2.00	2.10	31.96		2.30		2.30				
						End of Borehole				... Borehole aborted at 2.30m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	100
2.00	2.30	87	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.00m depth.
3. Borehole aborted at 2.30m due to refusal.
4. Water level at 2.10m upon completion.
5. Ø50mm groundwater monitoring pipe installed at 2.10m, slotted between 1.60m and 2.10m depth.
6. Borehole backfilled with pea shingle between 2.30m and 1.60m and bentonite pellets between 1.60m and 0.25m depth. Concrete with a stopcock cover installed from 0.25m to ground level.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
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All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: KZ

Logger: AB

CHD: AN

APRV: OS

Log Print Date & Time: 27/08/2021 14:51

10. INSTRUMENTATION MONITORING RESULTS

Borehole	Depth of Installation (mbgl)	Date of Installation	Type	Top (mbgl)	Bottom (mbgl)	Date & Time	Water Level (mbgl)	Water Level (mOD)	Remarks
BH1	1.00	21/07/2021	GMP	0.50	1.00	10/08/2021 18:20:00	DRY		
	1.00	21/07/2021	GMP	0.50	1.00	17/08/2021 10:51:00	DRY		
	1.00	21/07/2021	GMP	0.50	1.00	25/08/2021	DRY		
	2.80	21/07/2021	GWMP	1.50	2.80	10/08/2021 18:20:00	2.57	31.65	
	2.80	21/07/2021	GWMP	1.50	2.80	17/08/2021 10:51:00	2.58	31.64	
	2.80	21/07/2021	GWMP	1.50	2.80	25/08/2021	2.65	31.57	
BH2	1.00	16/07/2021	GMP	0.50	1.00	11/08/2021 16:18:00	DRY		
	1.00	16/07/2021	GMP	0.50	1.00	17/08/2021 12:35:00	DRY		
	1.00	16/07/2021	GMP	0.50	1.00	25/08/2021	DRY		
	3.50	16/07/2021	GWMP	2.00	3.50	11/08/2021 16:24:00	2.09	32.08	
	3.50	16/07/2021	GWMP	2.00	3.50	17/08/2021 12:35:00	2.15	32.02	
	3.50	16/07/2021	GWMP	2.00	3.50	25/08/2021	2.16	32.01	
BH3	1.20	21/07/2021	GMP	0.50	1.20	11/08/2021 11:42:00	DRY		
	1.20	21/07/2021	GMP	0.50	1.20	17/08/2021	DRY		
	1.20	21/07/2021	GMP	0.50	1.20	25/08/2021	DRY		
	3.80	21/07/2021	GWMP	1.70	3.80	11/08/2021 11:42:00	2.82	31.60	
	3.80	21/07/2021	GWMP	1.70	3.80	17/08/2021	2.90	31.52	
	3.80	21/07/2021	GWMP	1.70	3.80	25/08/2021	2.93	31.49	
BH4	0.80	27/07/2021	GMP	0.45	0.80	11/08/2021 14:03:00	DRY		
	0.80	27/07/2021	GMP	0.45	0.80	17/08/2021 11:40:00	DRY		
	0.80	27/07/2021	GMP	0.45	0.80	25/08/2021	DRY		
	2.70	27/07/2021	GWMP	1.00	2.70	11/08/2021 13:40:00	2.05	32.10	
	2.70	27/07/2021	GWMP	1.00	2.70	17/08/2021 11:40:00	2.14	32.01	
	2.70	27/07/2021	GWMP	1.00	2.70	25/08/2021	2.15	32.00	
BH5	1.00	23/07/2021	GMP	0.50	1.00	11/08/2021 15:31:00	DRY		
	1.00	23/07/2021	GMP	0.50	1.00	17/08/2021 14:09:00	DRY		
	1.00	23/07/2021	GMP	0.50	1.00	25/08/2021	DRY		
	2.70	23/07/2021	GWMP	1.50	2.70	11/08/2021 15:31:00	2.10	32.25	
	2.70	23/07/2021	GWMP	1.50	2.70	17/08/2021 14:09:00	2.19	32.16	
	2.70	23/07/2021	GWMP	1.50	2.70	25/08/2021	2.20	32.15	
BH6	0.80	15/07/2021	GMP	0.40	0.80	11/08/2021 17:28:00	DRY		
	0.80	15/07/2021	GMP	0.40	0.80	17/08/2021 09:35:00	DRY		
	0.80	15/07/2021	GMP	0.40	0.80	25/08/2021	DRY		
	3.70	15/07/2021	GWMP	1.30	3.70	11/08/2021 17:28:00	2.82	31.50	
	3.70	15/07/2021	GWMP	1.30	3.70	17/08/2021 09:35:00	2.91	31.41	
	3.70	15/07/2021	GWMP	1.30	3.70	25/08/2021	2.94	31.38	
WS101	3.20	13/07/2021	GWMP	2.20	3.20	10/08/2021 14:56:00	3.15	31.25	
	3.20	13/07/2021	GWMP	2.20	3.20	17/08/2021	3.16	31.24	

KEY

GMP - Gas monitoring point
 GWMP - Groundwater monitoring point
 SPIE - Standpipe piezometer
 EPIE - Electronic Piezometer
 SP - Standpipe

CONCEPT

Warple Mews, 8 Warple Way
 W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk

AGS**GROUNDWATER MONITORING****Job No:** 21/3593**Project:** LHR114 Ridgeway Trading Estate**Client:** Ove Arup and Partners

Borehole	Depth of Installation (mbgl)	Date of Installation	Type	Top (mbgl)	Bottom (mbgl)	Date & Time	Water Level (mbgl)	Water Level (mOD)	Remarks
WS101	3.20	13/07/2021	GWMP	2.20	3.20	25/08/2021	3.25	31.15	
WS102	3.10	14/07/2021	GWMP	1.70	3.40	10/08/2021 15:10:00	DRY		
	3.10	14/07/2021	GWMP	1.70	3.40	17/08/2021	DRY		
	3.10	14/07/2021	GWMP	1.70	3.40	25/08/2021	DRY		
WS103	4.30	14/07/2021	GWMP	3.20	4.30	10/08/2021 16:07:00	2.92	31.34	
	4.30	14/07/2021	GWMP	3.20	4.30	17/08/2021	2.97	31.29	
	4.30	14/07/2021	GWMP	3.20	4.30	25/08/2021	3.12	31.14	
WS104	3.60	15/07/2021	GWMP	2.10	3.60	11/08/2021 10:58:00	2.54	31.50	
	3.60	15/07/2021	GWMP	2.10	3.60	17/08/2021	2.57	31.47	
	3.60	15/07/2021	GWMP	2.10	3.60	25/08/2021	2.01	32.03	
WS105	3.00	19/07/2021	GWMP	2.00	3.00	10/08/2021 17:06:00	2.47	31.79	
	3.00	19/07/2021	GWMP	2.00	3.00	17/08/2021	2.57	31.69	
	3.00	19/07/2021	GWMP	2.00	3.00	25/08/2021	2.65	31.61	
WS106	2.40	22/07/2021	GWMP	1.50	2.40	11/08/2021 14:43:00	2.15	32.06	
	2.40	22/07/2021	GWMP	1.50	2.40	17/08/2021	2.20	32.01	
	2.40	22/07/2021	GWMP	1.50	2.40	25/08/2021	2.20	32.01	
WS107	2.90	02/07/2021	GWMP	1.70	2.90	11/08/2021 09:15:00	2.24	31.94	
	2.90	02/07/2021	GWMP	1.70	2.90	17/08/2021	2.26	31.92	
	2.90	02/07/2021	GWMP	1.70	2.90	25/08/2021	2.31	31.87	
WS108	2.90	22/07/2021	GWMP	2.00	2.90	11/08/2021 08:18:00	2.49	31.91	
	2.90	22/07/2021	GWMP	2.00	2.90	17/08/2021	2.55	31.85	
	2.90	22/07/2021	GWMP	2.00	2.90	25/08/2021	2.63	31.77	
WS109	2.20	22/07/2021	GWMP	1.70	2.20	11/08/2021	DRY		
	2.20	22/07/2021	GWMP	1.70	2.20	17/08/2021	DRY		
	2.20	22/07/2021	GWMP	1.70	2.20	25/08/2021	DRY		
WS110	3.00	16/07/2021	GWMP	1.50	3.00	11/08/2021 07:21:00	1.54	33.41	
	3.00	16/07/2021	GWMP	1.50	3.00	17/08/2021	1.66	33.29	
	3.00	16/07/2021	GWMP	1.50	3.00	25/08/2021	1.69	33.26	
WS111	2.40	21/07/2021	GWMP	1.00	2.00	11/08/2021	DRY		
	2.40	21/07/2021	GWMP	1.00	2.00	17/08/2021	DRY		
	2.40	21/07/2021	GWMP	1.00	2.00	25/08/2021	DRY		
WS112	2.10	20/07/2021	GWMP	1.60	2.10	11/08/2021	DRY		
	2.10	20/07/2021	GWMP	1.60	2.10	17/08/2021	DRY		
	2.10	20/07/2021	GWMP	1.60	2.10	25/08/2021	DRY		

KEY

GMP - Gas monitoring point
 GWMP - Groundwater monitoring point
 SPIE - Standpipe piezometer
 EPIE - Electronic Piezometer
 SP - Standpipe

CONCEPT

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 W3 0RF
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GROUNDWATER MONITORING

Job No: 21/3593

Project: LHR114 Ridgeway Trading Estate

Client: Ove Arup and Partners

Groundwater Monitoring Record

Job No.	21/3593		Site	GI - Ridgeway Industrial Estate	
Installation Details			Water Monitoring		
BH No.	Depth of Installation (mbgl)	Type	Date	Water level (mbgl)	
BH near BH1	4.72	GW	17/08/2021	2.65	
BH near BH2	3.02	GW	17/08/2021	1.66	
Installation types: G/GW - combined Gas & Groundwater Standpipe SPIE - Standpipe piezometer GW - Groundwater Standpipe VWP - Vibrating wire piezometer					



Gas Monitoring Results

JOB DETAILS											
Location: Ridgeway Industrial Estate	DF										
Date: 11/08/2021	Time: 11:30										
Job Number: 21/3593	Engineer:										
METEOROLOGICAL AND SITE INFORMATION											
State of ground: ☒ Dry ☐ Moist ☐ Wet	Delete As Required Ground Level										
Wind: ☒ Calm ☐ Light ☐ Moderate											
Cloud cover: ☒ None ☐ Cloudy ☐ Overcast											
Precipitation: ☒ None ☐ Slight ☐ Moderate											
Barometric pressure (mb) Before: 1012 dP (Pa) initial: 0 aP (mb) After: 1011 Temperature (°C) 20											
INSTRUMENTATION USED											
Tick if gas sample taken:											
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%,	Tick Instrument used										
#2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%,											
BH (No.)	Depth to GW (m)	Flow Measurements	Time (s)	CH₄ (%)	LEL (%)	CO₂ (%)	O₂ (%)	H₂S (ppm)	CO (ppm)	PID (ppm)	Comments
BH1	DRY	dP (Pa)	Flow (l/h)	5	0.0	0.0	3.8	13.0	0.0	0.0	Short
				30	0.0	0.0	2.8	12.7	0.0	0.0	0.0
				60	0.0	0.0	2.7	12.1	0.0	0.0	0.0
				5	0.0	0.0	1.2	15.1	0.0	0.0	Long
				30	0.0	0.0	2.4	14.1	0.0	0.0	0.0
				90	0.0	0.0	2.7	13.4	0.0	0.0	0.0
				120	0.0	0.0	2.6	15.4	0.0	0.0	0.0
				150	0.0	0.0	2.6	13.7	0.0	0.0	0.0
				180	0.0	0.0	2.5	12.9	0.0	0.0	0.0
				210	0.0	0.0	2.5	12.7	0.0	0.0	0.0
				240	0.0	0.0	2.6	12.5	0.0	0.0	0.0
				270							Constant readings
				300							
				360							
				420							
				480							
				540							
				600							
				5	0.0	0.0	1.9	15.0	0.0	0.0	Short
				30	0.0	0.0	2.4	14.4	0.0	0.0	0.0
				60	0.0	0.0	2.5	13.7	0.0	0.0	0.0
				5	0.0	0.0	2.0	15.3	0.0	0.0	Long
				30	0.0	0.0	2.5	13.2	0.0	0.0	0.0
				60	0.0	0.0	2.6	12.7	0.0	0.0	0.0
KEY											
Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.											
Atmospheric Pressure NR: Not Recorded											
Differential Pressure OR: Out of Range											



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	DF
Date: 11/08/2021	Time: 16:18
Job Number: 21/3593	Engineer:

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist	☐ Wet	Delete As Required					
Wind:	☒ Calm	☐ Light	☐ Moderate	Ground Level					
Cloud cover:	☒ None	☐ Slight	☐ Cloudy	Strong					
Precipitation	☒ None	☐ Slight	☐ Moderate	Overcast					
Barometric pressure (mb) Before: 1012	dP (Pa) initial: 0		aP (mb) After: 1010		Temperature (°C) 21				

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
Tick instrument used									

BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH2	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.1	19.6	0.0	0.0	Short
		0	0	0	30	0.0	0.0	0.2	17.5	0.0	0.0	
		30	0	0	60	0.0	0.0	0.2	17.1	0.0	0.0	
		60	0	0	5	0.0	0.0	0.2	17.2	0.0	0.0	Long
		90			30	0.0	0.0	0.2	17.3	0.0	0.0	
		120			60	0.0	0.0	0.2	17.3	0.0	0.0	
		150			60	0.0	0.0	0.2	16.9	0.0	0.0	
		180			120	0.0	0.0	0.2	17.1	0.0	0.0	
		210			180	0.0	0.0	0.2	17.0	0.0	0.0	
		240			240	0.0	0.0	0.2	17.0	0.0	0.0	
		270			300	0.0	0.0	0.2	16.8	0.0	0.0	
		300			360	0.0	0.0	0.2	16.9	0.0	0.0	Constant readings
		360			420							
		420			480							
		480			540							
		540			600							
		600			5	0.0	0.0	0.1	19.0	0.0	0.0	Short
					30	0.0	0.0	0.2	17.2	0.0	0.0	
					60	0.0	0.0	0.2	17.0	0.0	0.0	
					5	0.0	0.0	0.2	17.1	0.0	0.0	Long
					30	0.0	0.0	0.2	17.1	0.0	0.0	
					60	0.0	0.0	0.2	17.5	0.0	0.0	

KEY	
aP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS	
Location:	Ridgeway Industrial Estate
Date:	11/08/2021
Job Number:	21/3593
Engineer:	DF
Time:	12:15

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist	☐ Wet	Delete As Required					
Wind:	☒ Calm	☐ Light	☐ Moderate	☐ Ground Level					
Cloud cover:	☒ None	☐ Slight	☐ Cloudy	☐ Strong					
Precipitation	☒ None	☐ Slight	☐ Moderate	☐ Overcast					
Barometric pressure (mb) Before:	1012	dP (Pa) initial:	0	aP (mb) After:	1013	Temperature (°C)			
						22			
INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
Tick instrument used									
X									

BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH3	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.0	0.0	0.0	0.3	Short
		0	0	0	30	0.0	0.0	0.0	0.0	0.0	0.5	
		30	0	0	60	0.0	0.0	0.0	0.0	0.0	0.6	
		60	0	0	5	0.0	0.0	0.0	0.0	0.0	0.0	Long
		90	0	0	30	0.0	0.0	0.0	0.0	0.0	0.0	
		120	0	0	60	0.0	0.0	0.0	0.0	0.0	0.0	
		150			60	0.0	0.0	0.0	0.0	0.0	0.0	
		180			120	0.0	0.0	0.0	0.0	0.0	0.0	
		210			180	0.0	0.0	0.0	0.0	0.0	0.0	
		240			240	0.0	0.0	0.0	0.0	0.0	0.0	
		270			300							Constant readings
		300			360							
		360			420							
		420			480							
		480			540							
		540			600							
		600			5	0.0	0.0	0.1	20.0	0.0	0.1	Short
					30	0.0	0.0	0.2	19.1	0.0	0.0	
					60	0.0	0.0	0.1	18.6	0.0	0.0	
					5	0.0	0.0	0.3	19.1	0.0	0.0	Long
					30	0.0	0.0	0.2	18.7	0.0	0.0	
					60	0.0	0.0	0.2	18.5	0.0	0.0	

KEY	
aP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range
Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.	



METEOROLOGICAL AND SITE INFORMATION

INSTRUMENTATION USED

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
		Time (s)	dP (Pa)	Flow (l/h)									
BH4	DRY	0	0	0	5	0.0	0.0	0.8	15.1	0.0	0.0	0.0	Circulation not installed.
		30	0	0	30	0.0	0.0	0.8	8.8	0.0	0.0	0.0	
		60	0	0	60	0.0	0.0	0.8	8.1	0.0	0.0	0.0	
		90			60								
		120			60								
		150			120								
		180			180								
		210			240								
		240			300								
		270			360								
		300		420									
		360		480									
		420		540									
		480		600									
		540		5									
		600		30									
				60									
				5									
				30									
				60									

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS		Engineer:		DF								
Location: Ridgeway Industrial Estate												
Date: 11/08/2021		Job Number: 21/3593		Time: 15:30								
METEOROLOGICAL AND SITE INFORMATION												
State of ground:		☒ Dry		☐ Moist								
Wind:		☒ Calm		☐ Moderate								
Cloud cover:		☒ None		☐ Cloudy								
Precipitation		☒ None		☐ Moderate								
Barometric pressure (mb) Before: 1012		dP (Pa) initial: 0		aP (mb) After: 1012								
				Temperature (°C) 21								
				☐ Strong ☐ Overcast ☐ Heavy								
				☐ Wet ☐ Moderate ☐ Cloudy ☐ Moderate								
				☐ Delete As Required ☐ Ground Level								
INSTRUMENTATION USED												
Gas concentration:		#1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%, #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%,		Tick if gas sample taken: ☒								
				Tick instrument used ☒								
BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	H2S (ppm)	CO (ppm)	PID (ppm)	Comments
BH5	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.0	15.5	0.0	0.0	Short
					30	0.0	0.0	0.0	14.0	0.0	0.0	0.0
					60	0.0	0.0	0.0	13.4	0.0	0.0	0.0
					5	0.0	0.0	0.1	13.6	0.0	0.0	Long
					30	0.0	0.0	0.2	13.7	0.0	0.0	0.0
		90			0.0	0.0	0.2	13.3	0.0	0.0	0.0	
		120			0.0	0.0	0.1	13.4	0.0	0.0		
		150			0.0	0.0	0.1	13.3	0.0	0.0		
		180			0.0	0.0	0.1	13.3	0.0	0.0		
		210			0.0	0.0	0.1	13.3	0.0	0.0		
		240			0.0	0.0	0.1	13.3	0.0	0.0		
		270			0.0	0.0	0.1	13.3	0.0	0.0		Constant readings
		300										
		360										
		420										
		480										
		540										
		600										
		5			0.0	0.0	0.1	17.3	0.0	0.0	0.0	Short
		30			0.0	0.0	0.1	15.1	0.0	0.0	0.0	
		60			0.0	0.0	0.1	13.4	0.0	0.0	0.0	
		5			0.0	0.0	0.1	17.0	0.0	0.0	0.0	Long
		30			0.0	0.0	0.2	13.7	0.0	0.0	0.0	
		60			0.0	0.0	0.2	15.4	0.0	0.0	0.0	
KEY												
Atmospheric Pressure		NR: Not Recorded		Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.								
Differential Pressure		OR: Out of Range										



Gas Monitoring Results

JOB DETAILS												
Location: Ridgeway Industrial Estate	DF											
Date: 11/08/2021	Time: 17:35											
Job Number: 21/3593	Engineer:											
METEOROLOGICAL AND SITE INFORMATION												
State of ground: Wind: Cloud cover: Precipitation: Barometric pressure (mb) Before:	☒ Dry ☒ Calm ☒ None ☒ None 1012 ☐ Moist ☐ Light ☐ Slight ☐ Slight 0 ☐ Wet ☐ Moderate ☐ Cloudy ☐ Moderate 1011 ☐ Strong ☐ Overcast ☐ Heavy 20 Temperature (°C) dP (Pa) initial:											
INSTRUMENTATION USED												
Tick if gas sample taken:												
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;												
Tick instrument used												
BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH6	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	4.5	12.5	0.0	0.0	Short
		0	0	0	30	0.0	0.0	4.5	11.0	0.0	0.0	
		30	0	0	60	0.0	0.0	4.5	10.0	0.0	0.0	
		60	0	0	5	0.0	0.0	2.3	15.1	0.0	0.0	Long
		90			30	0.0	0.0	4.5	10.5	0.0	0.0	
		120			60	0.0	0.0	4.6	10.1	0.0	0.0	
		150			120	0.0	0.0	4.5	9.8	0.0	0.0	
		180			180	0.0	0.0	4.5	10.0	0.0	0.0	
		210			240	0.0	0.0	4.4	10.1	0.0	0.0	
		240			300	0.0	0.0	4.5	10.9	0.0	0.0	
		270			360	0.0	0.0	4.5	10.0	0.0	0.0	Constant readings
		300			420							
		360			480							
		420			540							
		480			600							
		540			5	0.0	0.0	1.8	15.1	0.0	0.0	Short
		600			30	0.0	0.0	4.5	12.5	0.0	0.0	
					60	0.0	0.0	4.4	10.7	0.0	0.0	
					5	0.0	0.0	4.4	10.0	0.0	0.0	Long
					30	0.0	0.0	4.6	10.0	0.0	0.0	
					60	0.0	0.0	4.5	9.9	0.0	0.0	
KEY		Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.										
Atmospheric Pressure		NR: Not Recorded										
Differential Pressure		OR: Out of Range										



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	Engineer: DF, AK, DS
Date: 17/08/2021	Job Number: 21/3593
	Time: 10:51

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist			☐ Wet	Delete As Required			
Wind:	☐ Calm	☒ Light	☐ Moderate			☐ Ground Level			
Cloud cover:	☐ None	☐ Slight	☒ Cloudy			☐ Strong			
Precipitation	☒ None	☐ Slight	☐ Moderate			☐ Overcast			
Barometric pressure (mb) Before:	1014	dP (Pa) initial:	0	aP (mb) After:	1014	Temperature (°C) 16			

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
Tick instrument used									

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH1	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	1.0	16.0	0.0	0.0	0.0	Short
		30	0	0	30	0.0	0.0	2.9	12.5	0.0	0.0	0.0	
		60	0	0	60	0.0	0.0	3.0	12.0	0.0	0.0	0.0	
		30	0	0	5	0.0	0.0	2.3	12.2	0.0	0.0	0.0	Long
		60	0	0	30	0.0	0.0	3.2	11.6	0.0	0.0	0.0	
		90			60	0.0	0.0	3.2	11.5	0.0	0.0	0.0	
		120			60	0.0	0.0	3.0	12.0	0.0	0.0	0.0	
		150			120	0.0	0.0	3.0	11.9	0.0	0.0	0.0	
		180			180	0.0	0.0	3.1	11.8	0.0	0.0	0.0	
		210			240	0.0	0.0	3.1	11.8	0.0	0.0	0.0	
		240			300	0.0	0.0	3.1	11.7	0.0	0.0	0.0	
		270			360	0.0	0.0	3.1	11.7	0.0	0.0	0.0	Constant readings
		300			420								
		360			480								
		420			540								
		480			600								
		540			5	0.0	0.0	3.1	11.8	0.0	0.0	0.0	Short
		600			30	0.0	0.0	3.1	11.7	0.0	0.0	0.0	
					60	0.0	0.0	3.1	11.7	0.0	0.0	0.0	
					5	0.0	0.0	3.1	12.3	0.0	0.0	0.0	Long
					30	0.0	0.0	3.2	11.5	0.0	0.0	0.0	
					60	0.0	0.0	3.2	11.5	0.0	0.0	0.0	

KEY	
Atmospheric Pressure	NR: Not Recorded
Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	Engineer: DF, AK, DS
Date: 17/08/2021	Job Number: 21/3593
	Time: 12:35

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist	☐ Wet						
Wind:	☐ Calm	☒ Light	☐ Moderate						
Cloud cover:	☐ None	☐ Slight	☒ Cloudy						
Precipitation	☒ X	☐ None	☐ Moderate						
Barometric pressure (mb) Before:	1015	dP (Pa) initial:	0	aP (mb) After:	1013	Temperature (°C)	16	Delete As Required	
								Ground Level	

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
Tick instrument used									

BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH2	DRY	Time (s)	dP (Pa)	Flow (l/h)								
		0	0	0								
		30	0	0								
		60	0	0								
		90										
		120										
		150										
		180										
		210										
		240										
		270										
		300										
		360										
		420										
		480										
		540										
		600										
		5			0.0	0.0	0.1	20.8	0.0	0.0	0.0	Short
		30			0.0	0.0	0.2	20.0	0.0	0.0	0.0	
		60			0.0	0.0	0.2	19.9	0.0	0.0	0.0	
		5			0.0	0.0	0.2	20.0	0.0	0.0	0.0	Long
		30			0.0	0.0	0.2	19.8	0.0	0.0	0.0	
		60			0.0	0.0	0.2	19.7	0.0	0.0	0.0	

KEY	
aP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	Engineer: DF, AK, DS
Date: 17/08/2021	Job Number: 21/3593
Time:	

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☐ Dry	☐ Moist	☐ Wet	Delete As Required					
Wind:	☐ Calm	☐ Light	☐ Moderate	☐ Ground Level					
Cloud cover:	☐ None	☐ Slight	☐ Cloudy	☐ Strong					
Precipitation:	☐ None	☐ Slight	☐ Moderate	☐ Overcast					
Barometric pressure (mb) Before: 1015	dP (Pa) initial: 0		aP (mb) After: 1015		Temperature (°C) 16				

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%, X									
#2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%,									

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH3	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.2	19.4	0.0	0.0	0.0	Short
					30	0.0	0.0	0.3	19.9	0.0	0.0	0.0	
					60	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					5	0.0	0.0	0.1	19.9	0.0	0.0	0.0	Long
					30	0.0	0.0	0.3	19.7	0.0	0.0	0.0	
					60	0.0	0.0	0.2	19.7	0.0	0.0	0.0	
					90	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					120	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					150	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					180	0.0	0.0	0.0	19.0	0.0	0.0	0.0	
					210	0.0	0.0	0.0	19.0	0.0	0.0	0.0	
					240	0.0	0.0	0.0	19.0	0.0	0.0	0.0	
					270	0.0	0.0	0.0	19.0	0.0	0.0	0.0	Constant readings
					300	0.0	0.0	0.0	19.0	0.0	0.0	0.0	
					360	0.0	0.0	0.0	19.0	0.0	0.0	0.0	
					420	0.0	0.0	0.0	20.1	0.0	0.0	0.0	Short
					480	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					540	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					600	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					5	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					30	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					60	0.0	0.0	0.0	20.0	0.0	0.0	0.0	
					5	0.0	0.0	0.0	20.0	0.0	0.0	0.0	Long
					30	0.0	0.0	0.3	19.7	0.0	0.0	0.0	
					60	0.0	0.0	0.3	19.7	0.0	0.0	0.0	

KEY	
atP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



JOB DETAILS			
Location:	Ridgeway Industrial Estate	Engineer:	DF, AK, DS
Date:	17/08/2021	Job Number:	21/3593 Time: 11:40

METEOROLOGICAL AND SITE INFORMATION

State of ground:									
Wind:		Dry		Moist		Wet			
		Calm		X					
Cloud cover:		None		Slight		Cloudy		Strong	
Precipitation:		X		None		Slight		Overcast	
								Heavy	
Barometric pressure (mb) Before:		1015		dP (Pa) initial:		0		aP (mb) After:	
								1015	
								Temperature (°C)	
								16	
Delete As Required									
Ground Level									

INSTRUMENTATION USED

	X
#1 Gas Data GFM 436. Accuracy: CH ₄ $\pm 0.3\%$ (0 to 5%), $\pm 3.0\%$ (at 30%), $\pm 3.0\%$ (at 100%); CO ₂ $\pm 0.3\%$ (0 to 5%), $\pm 3.0\%$ (at 40%); O ₂ $\pm 0.2\%$;	X
#2 Gas Data GFM 436. Accuracy: CH ₄ $\pm 0.3\%$ (0 to 5%), $\pm 3.0\%$ (at 30%), $\pm 3.0\%$ (at 100%); CO ₂ $\pm 0.3\%$ (0 to 5%), $\pm 3.0\%$ (at 40%); O ₂ $\pm 0.2\%$;	X

[illegible]

KEY

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



JOB DETAILS				
Location:	Ridgeway Industrial Estate		Engineer:	DF, AK, DS
Date:	17/08/2021	Job Number:	21/3593	Time: 14:09

METEOROLOGICAL AND SITE INFORMATION								
State of ground:	X	Dry			Moist		Wet	
Wind:		Calm	X		Light		Moderate	
Cloud cover:		None			Slight		Cloudy	
Precipitation	X	None			Slight		Moderate	
Barometric pressure (mb) Before:	1015		dP (Pa) initial:	0		ap (mb) After:	1012	Temperature (°C)
								Strong
								Overcast
								Heavy
								16
								Delete As Required
								(Ground Level)

INSTRUMENTATION USED		Tick if gas sample taken:		
#1 Gas Data GFM 43c, Accuracy: CH ₄ ±0.3% (0 to 5%), ±3.0% (at 30%); CO ₂ ±0.3% (0 to 5%), ±3.0% (at 40%); O ₂ ±0.2%;			X	
#2 Gas Data GFM 43c, Accuracy: CH ₄ ±0.3% (0 to 5%), ±3.0% (at 30%); CO ₂ ±0.3% (0 to 5%), ±3.0% (at 40%); O ₂ ±0.2%;				Tick Instrument used

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH5	DRY	Time (s)		dP (Pa)	Flow (l/h)	5	0.0	0.0	0.0	20.5	0.0	0.0	Short
		30		0	0	30	0.0	0.0	0.1	14.1	0.0	0.0	
		60		0	0	60	0.0	0.0	0.1	13.8	0.0	0.0	Long
		90		0	0	5	0.0	0.0	0.0	20.0	0.0	0.0	
					30	0.0	0.0	0.2	14.0	0.0	0.0	0.0	
					60	0.0	0.0	0.3	13.6	0.0	0.0	0.0	
					120	0.0	0.0	0.1	13.8	0.0	0.0	Circulation	
					150	0.0	0.0	0.1	12.6	0.0	0.0		
					180	0.0	0.0	0.1	12.6	0.0	0.0		
					210	0.0	0.0	0.2	13.6	0.0	0.0		
					240	0.0	0.0	0.2	13.6	0.0	0.0		
					270								
					300								
					360								
					420								
					480								
					540								
					600								
					5	0.0	0.0	0.0	20.3	0.0	0.0	0.0	Short
					30	0.0	0.0	0.2	14.0	0.0	0.0	0.0	
					60	0.0	0.0	0.2	13.9	0.0	0.0	0.0	
					5	0.0	0.0	0.0	20.2	0.0	0.0	0.0	Long
					30	0.0	0.0	0.3	13.9	0.0	0.0	0.0	
					60	0.0	0.0	0.3	13.7	0.0	0.0	0.0	

KEY	
aP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	Engineer: DF
Date: 17/08/2021	Job Number: 21/3593
	Time: 09:35

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist	☐ Wet						
Wind:	☐ Calm	☒ Light	☐ Moderate						
Cloud cover:	☐ None	☐ Slight	☒ Cloudy	☐ Strong					
Precipitation	☒ None	☐ Slight	☐ Moderate	☐ Overcast					
Barometric pressure (mb) Before:	1015	dP (Pa) initial:	0	aP (mb) After:	1014	Temperature (°C)	16	Delete As Required	
						Ground Level			

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%, X									
#2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%,									

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH6	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	2.2	15.0	0.0	0.0	0.0	Short
		0	0	0	30	0.0	0.0	4.5	11.5	0.0	0.0	0.0	
		30	0	0	60	0.0	0.0	5.0	10.1	0.0	0.0	0.0	
		60	0	0	5	0.0	0.0	3.5	12.0	0.0	0.0	0.0	Long
		90	0	0	30	0.0	0.0	5.5	9.5	0.0	0.0	0.0	
		120	0	0	60	0.0	0.0	5.6	9.2	0.0	0.0	0.0	
		150			60	0.0	0.0	5.2	9.8	0.0	0.0		
		180			120	0.0	0.0	5.3	9.5	0.0	0.0		
		210			180	0.0	0.0	5.4	9.4	0.0	0.0		
		240			240	0.0	0.0	5.5	9.2	0.0	0.0		
		270			300	0.0	0.0	5.6	9.2	0.0	0.0		Constant readings
		300			360								
		360			420								
		420			480								
		480			540								
		540			600								
		600			5	0.0	0.0	5.3	9.6	0.0	0.0	0.0	Short
					30	0.0	0.0	5.5	9.3	0.0	0.0	0.0	
					60	0.0	0.0	5.5	9.2	0.0	0.0	0.0	
					5	0.0	0.0	3.3	13.1	0.0	0.0	0.0	Long
					30	0.0	0.0	5.4	9.7	0.0	0.0	0.0	
					60	0.0	0.0	5.6	9.1	0.0	0.0	0.0	

KEY		Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.	
alP: Atmospheric Pressure	NR: Not Recorded		
dP: Differential Pressure	OR: Out of Range		



JOB DETAILS			
Location:	Ridgeway Industrial Estate		DF
Date:	25/08/2021	Job Number: 21/3593	Time: 09:45

METEOROLOGICAL AND SITE INFORMATION									
State of ground:		☒ Dry			☐ Moist	☐ Wet			
Wind:		☒ Calm			☐ Light	☐ Moderate			
Cloud cover:		☐ None			☒ Slight	☐ Cloudy			
Precipitation		☒ None			☐ Slight	☐ Moderate			
Barometric pressure (mb) Before:		1023			dP (Pa) initial: 0	aP (mb) After: 1022		Temperature (°C) 22	
								Strong	
								Overcast	
								Heavy	
								22	
								Strong	
								Overcast	
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INSTRUMENTATION USED		Tick if gas sample taken:		
Gas concentration:	#1 Gas Data GFM 436, Accuracy: CH ₄ ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO ₂ ±0.3% (0 to 5%), ±3.0% (at 40%); O ₂ ±0.2%,			Tick Instrument used
	#2 Gas Data GFM 436, Accuracy: CH ₄ ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO ₂ ±0.3% (0 to 5%), ±3.0% (at 40%); O ₂ ±0.2%,		X	

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments		
BHI	DRY	Time (s)		dP (Pa)	Flow (l/h)	0	0.0	0.0	0.8	19.3	0.0	0.0	0.4		
		0	0	0	Short										
					30								0	0	0.1
					60								0	0	0.0
		90	0	0	5	0.0	0.0	0.7	19.0	0.0	0.0	Long			
		60	0	0	30	0.0	0.0	1.3	17.9	0.0	0.0	0.0			
		120	0	0	60	0.0	0.0	1.3	17.8	0.0	0.0	0.0			
		150	0.0	0.0	60	0.0	0.0	1.2	17.9	0.0	0.0	Circulation			
		180	0.0	0.0	120	0.0	0.0	1.2	17.9	0.0	0.0				
		210	0.0	0.0	180	0.0	0.0	1.2	17.9	0.0	0.0				
		240	0.0	0.0	240	0.0	0.0	1.2	17.9	0.0	0.0				
		270	0.0	0.0	300	0.0	0.0	1.2	17.9	0.0	0.0				
		300			360										
		360			420										
		420			480										
		480			540										
		540			600										
		600			5	0.0	0.0	1.2	18.3	0.0	0.0	0.0	Short		
					30	0.0	0.0	1.2	18.8	0.0	0.0	0.0			
					60	0.0	0.0	1.3	17.9	0.0	0.0	0.0			
					5	0.0	0.0	1.0	19.5	0.0	0.0	0.0	Long		
					30	0.0	0.0	1.2	18.3	0.0	0.0	0.0			
					60	0.0	0.0	1.2	18.1	0.0	0.0	0.0			

KEY	
aP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS											
Location: Ridgeway Industrial Estate	DF										
Date: 25/08/2021	Time: 12:30										
Job Number: 21/3593	Engineer:										
METEOROLOGICAL AND SITE INFORMATION											
State of ground: X Dry	Moist										
Wind: Calm	X Light										
Cloud cover: None	X Cloudy										
Precipitation: X None	Slight										
Barometric pressure (mb) Before: 1022	aP (mb) After: 1020										
dP (Pa) initial: 0	Temperature (°C) 21										
INSTRUMENTATION USED											
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;	Tick if gas sample taken: X										
INSTRUMENTATION USED											
BH (No.)	Depth to GW (m)	Flow Measurements	Time (s)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	H2S (ppm)	CO (ppm)	PID (ppm)	Comments
BH2	DRY	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.2	19.2	0.0	0.0	Short
		0	0	30	0.0	0.0	0.4	17.7	0.0	0.0	
		30	0	60	0.0	0.0	0.4	17.1	0.0	0.0	
		60	0	5	0.0	0.0	0.3	17.0	0.0	0.0	Long
		90	0	30	0.0	0.0	0.4	17.1	0.0	0.0	
		120	0	60	0.0	0.0	0.4	16.9	0.0	0.0	
		150	0	120	0.0	0.0	0.4	16.9	0.0	0.0	
		180	0	180	0.0	0.0	0.4	16.8	0.0	0.0	
		210	0	240	0.0	0.0	0.4	16.8	0.0	0.0	
		240	0	300	0.0	0.0	0.4	16.8	0.0	0.0	
		270	0	360	0.0	0.0	0.4	16.8	0.0	0.0	
		300	0	420	0.0	0.0	0.4	16.9	0.0	0.0	
		360	0	480	0.0	0.0	0.4	16.9	0.0	0.0	
		420	0	540	0.0	0.0	0.4	17.0	0.0	0.0	
		480	0	600	0.0	0.0	0.4	17.0	0.0	0.0	
		540	0	5	0.0	0.0	0.4	17.4	0.0	0.0	Short
		600	0	30	0.0	0.0	0.4	17.3	0.0	0.0	
			0	60	0.0	0.0	0.4	16.9	0.0	0.0	
			0	5	0.0	0.0	0.4	17.0	0.0	0.0	Long
			0	30	0.0	0.0	0.4	17.0	0.0	0.0	
			0	60	0.0	0.0	0.4	16.8	0.0	0.0	
KEY											
Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.											
alP: Atmospheric Pressure NR: Not Recorded											
dP: Differential Pressure OR: Out of Range											



JOB DETAILS			
Location:	Ridgeway Industrial Estate	Engineer:	DF
Date:	25/08/2021	Job Number:	21/3593
		Time:	11:24

METEOROLOGICAL AND SITE INFORMATION									
State of ground:		☒ Dry			☐ Moist	☐ Wet			
Wind:		☒ Calm			☐ Light	☐ Moderate			
Cloud cover:		☐ None			☒ Slight	☐ Cloudy			
Precipitation		☒ None			☐ Slight	☐ Moderate			
Barometric pressure (mb) Before:		1022			dP (Pa) initial: 0	aP (mb) After: 1022		Temperature (°C) 21	
Delete As Required									
Ground Level									

INSTRUMENTATION USED		Tick if gas sample taken:	
Gas concentration:			
#1 Gas Data GFM 436, Accuracy: CH ₄ ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO ₂ ±0.3% (0 to 5%), ±3.0% (at 40%), O ₂ ±0.2%,			
#2 Gas Data GFM 436, Accuracy: CH ₄ ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO ₂ ±0.3% (0 to 5%), ±3.0% (at 40%), O ₂ ±0.2%,			X

BH (No.)	Depth to GW (m)	Flow Measurements				Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH3	DRY	0	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.0	18.9	0.0	0.0	0.0	Short
						30	0.0	0.0	0.0	19.2	0.0	0.0	0.0	
						60	0.0	0.0	0.0	19.3	0.0	0.0	0.0	
				30	0	0	5	0.0	0.0	0.0	19.0	0.0	0.0	Long
				60	0	0	30	0.0	0.0	0.0	19.0	0.0	0.0	
			90	0	0	60	0.0	0.0	0.0	19.0	0.0	0.0		
			120	0	0	60	0.0	0.0	0.0	19.4	0.0	0.0	Circulation	
			150			120	0.0	0.0	0.0	19.2	0.0	0.0		
			180			180	0.0	0.0	0.0	19.2	0.0	0.0		
			210			240	0.0	0.0	0.0	19.2	0.0	0.0		
			240			300	0.0	0.0	0.1	19.2	0.0	0.0		
			270			360	0.0	0.0	0.0	19.2	0.0	0.0		
			300			420							Constant readings	
			360			480								
			420			540								
			480			600								
			540			5	0.0	0.0	0.0	19.6	0.0	0.0		Short
			600			30	0.0	0.0	0.0	19.4	0.0	0.0		
						60	0.0	0.0	0.0	19.3	0.0	0.0		
						5	0.0	0.0	0.0	19.2	0.0	0.0	Long	
						30	0.0	0.0	0.1	19.3	0.0	0.0		
						60	0.0	0.0	0.1	19.2	0.0	0.0		

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.

aP: Atmospheric Pressure
dP: Differential Pressure
NR: Not Recorded
OR: Out of Range



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	DF
Date: 24/08/2021	Time: 12:34
Job Number: 21/3593	Engineer:

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist	☐ Wet						
Wind:	☐ Calm	☒ Light	☐ Moderate						
Cloud cover:	☐ None	☒ Slight	☐ Cloudy						
Precipitation:	☒ X	☐ Slight	☐ Moderate						
Barometric pressure (mb) Before:	1024	dP (Pa) initial:	0	aP (mb) After:	1024	Temperature (°C)	20	Delete As Required	
								Ground Level	

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%); CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%); CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
Tick Instrument used									
☒									

BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH4	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	17.0	0.0	0.0	0.0	Short
		0	0	0	30	0.0	0.0	14.4	0.0	0.0	0.0	
		30	0	0	60	0.0	0.0	14.2	0.0	0.0	0.0	
		60	0	0	5	0.0	0.0	17.7	0.0	0.0	0.0	Long
		90	0	0	30	0.0	0.0	15.1	0.0	0.0	0.0	
		120	0	0	60	0.0	0.0	13.7	0.0	0.0	0.0	
		150			60	0.0	0.0	13.3	0.0	0.0	0.0	
		180			120	0.0	0.0	13.2	0.0	0.0	0.0	
		210			180	0.0	0.0	13.3	0.0	0.0	0.0	
		240			240	0.0	0.0	13.5	0.0	0.0	0.0	
		270			300	0.0	0.0	13.6	0.0	0.0	0.0	Constant readings
		300			360							
		360			420							
		420			480							
		480			540							
		540			600							
		600			5	0.0	0.0	13.5	0.0	0.0	0.0	Short
					30	0.0	0.0	13.3	0.0	0.0	0.0	
					60	0.0	0.0	13.2	0.0	0.0	0.0	
					5	0.0	0.0	15.0	0.0	0.0	0.0	Long
					30	0.0	0.0	14.0	0.0	0.0	0.0	
					60	0.0	0.0	13.6	0.0	0.0	0.0	

KEY	
Atmospheric Pressure	NR: Not Recorded
Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS	
Location: Ridgeway Industrial Estate	DF
Date: 24/08/2021	Time: 13:35
Job Number: 21/3593	Engineer:

METEOROLOGICAL AND SITE INFORMATION									
State of ground:	☒ Dry	☐ Moist	☐ Wet	Delete As Required					
Wind:	☐ Calm	☒ Light	☐ Moderate	☐ Strong					
Cloud cover:	☐ None	☒ Slight	☐ Cloudy	☐ Overcast					
Precipitation	☒ X	☐ None	☐ Slight	☐ Moderate					
Barometric pressure (mb) Before:	1024	dP (Pa) initial:	0	aP (mb) After:	1023	Temperature (°C) 21			

INSTRUMENTATION USED									
Tick if gas sample taken:									
Gas concentration: #1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%; #2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
Tick instrument used: ☒ X									

BH (No.)	Depth to GW (m)	Flow Measurements		Time (s)	CH ₄ (%)	LEL (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID (ppm)	Comments
BH5	DRY	Time (s)	dP (Pa)	Flow (l/h)	5	0.0	0.0	0.2	16.0	0.0	0.0	Short
		0	0	0	30	0.0	0.0	0.1	13.6	0.0	0.0	
		30	0	0	60	0.0	0.0	0.1	13.0	0.0	0.0	
		60	0	0	5	0.0	0.0	0.1	18.5	0.0	0.0	Long
		90	0	0	30	0.0	0.0	0.3	14.2	0.0	0.0	
		120	0	0	60	0.0	0.0	0.3	13.2	0.0	0.0	
		150			60	0.0	0.0	0.1	13.0	0.0	0.0	
		180			120	0.0	0.0	0.1	12.9	0.0	0.0	
		210			180	0.0	0.0	0.2	12.9	0.0	0.0	
		240			240	0.0	0.0	0.2	12.6	0.0	0.0	
		270			300	0.0	0.0	0.2	12.5	0.0	0.0	
		300			360	0.0	0.0	0.2	12.5	0.0	0.0	
		360			420	0.0	0.0	0.2	12.5	0.0	0.0	
		420			480							
		480			600							
		540			5	0.0	0.0	0.2	14.4	0.0	0.0	Short
		600			30	0.0	0.0	0.2	13.7	0.0	0.0	
					60	0.0	0.0	0.2	13.1	0.0	0.0	
					5	0.0	0.0	0.2	12.8	0.0	0.0	Long
					30	0.0	0.0	0.2	12.7	0.0	0.0	
					60	0.0	0.0	0.2	12.6	0.0	0.0	

KEY	
aP: Atmospheric Pressure	NR: Not Recorded
dP: Differential Pressure	OR: Out of Range

Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.



Gas Monitoring Results

JOB DETAILS			
Location:	Ridgeway Industrial Estate	Engineer:	DF
Date:	24/08/2021	Job Number:	21/3593
		Time:	09:43

METEOROLOGICAL AND SITE INFORMATION										
State of ground:	☒ Dry				☐ Moist				☐ Wet	
Wind:	☐ Calm				☒ Light				☐ Moderate	
Cloud cover:	☐ None				☒ Slight				☐ Cloudy	
Precipitation	☒ None				☐ Slight				☐ Moderate	
Barometric pressure (mb) Before:	1027	dP (Pa) initial:			0	aP (mb) After:			1027	
					Temperature (°C)					16

INSTRUMENTATION USED									
Tick if gas sample taken:									
Tick instrument used									
Gas concentration:									
#1 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									
#2 Gas Data GFM 436, Accuracy: CH4 ±0.3% (0 to 5%), ±3.0% (at 30%), ±3.0% (at 100%), CO2 ±0.3% (0 to 5%), ±3.0% (at 40%), O2 ±0.2%;									

BH (No.)	Depth to GW (m)	Flow Measurements			Time (s)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	H2S (ppm)	CO (ppm)	PID (ppm)	Comments
		Time (s)	dP (Pa)	Flow (l/h)									
BH6	DRY	0	1	0.3	5	0.0	0.0	0.5	18.0	0.0	0.0	0.0	Short
		30	0	0	30	0.0	0.0	3.5	16.3	0.0	0.0	0.0	
		60	0	0	60	0.0	0.0	5.1	10.2	0.0	0.0	0.0	
		30	0	0	5	0.0	0.0	0.3	18.1	0.0	0.0	0.1	Long
		60	0	0	30	0.0	0.0	5.4	11.1	0.0	0.0	0.1	
		90	0	0	60	0.0	0.0	5.6	9.7	0.0	0.0	0.1	
		120			60	0.0	0.0	5.3	9.6	0.0	0.0		
		150			120	0.0	0.0	5.3	9.5	0.0	0.0		
		180			180	0.0	0.0	5.4	9.6	0.0	0.0		
		210			240	0.0	0.0	5.4	9.6	0.0	0.0		
		240			300	0.0	0.0	5.4	9.6	0.0	0.0		
		270			360								Constant readings
		300			420								
		360			480								
		420			540								
		480			600								
		540			5	0.0	0.0	0.3	17.3	0.0	0.0	0.0	Short
		600			30	0.0	0.0	5.3	12.5	0.0	0.0	0.0	
					60	0.0	0.0	5.4	9.8	0.0	0.0	0.0	
					5	0.0	0.0	4.8	14.1	0.0	0.0	0.0	Long
					30	0.0	0.0	5.4	11.0	0.0	0.0	0.0	
					60	0.0	0.0	5.5	9.7	0.0	0.0	0.0	

KEY		Note: Where 0.0 is shown on the results indicates value lower than the detection limit of the instrument.	
atP: Atmospheric Pressure	NR: Not Recorded		
dP: Differential Pressure	OR: Out of Range		



GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

Job No.: 21/3593

Date: 10/08/2021

Technician: DF

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH1		2.80	1.50	2.57			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	18:20							
0.5	18:23	18.2	15.18	1.12	7.14	-11.1	92.5	Light brown
1.0	18:26	18.2	3.03	1.11	7.06	-10.0	91.5	Light brown
1.5	18:29	18.5	2.68	1.10	7.04	-8.6	87.4	Light brown
2.0	18:33	18.6	2.67	1.10	7.04	-8.7	86.2	Light brown



GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

Job No.: 21/3593

Date: 11/08/2021

Technician: DF, PM,EP

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH2		3.50	2.00	2.09			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/ Turbidity)
0.0	16:24							
1.0	16:27	18.7	0.05	0.86	7.28	-22.2	-78.1	Clear/Slight sheen/ very slight hydrocarbon odour
2.0	16:30	18.6	2.37	0.84	7.22	-18.7	-72.3	Clear/Slight sheen/ very slight hydrocarbon odour
3.0	16:33	18.5	1.75	0.83	7.15	-14.6	-67.7	Clear/Slight sheen/ very slight hydrocarbon odour
4.0	16:36	18.4	1.49	0.81	7.10	-11.9	-65.1	Clear/Slight sheen/ very slight hydrocarbon odour
5.0	16:39	18.5	1.14	0.81	7.07	-10.4	-61.8	Clear/Slight sheen/ very slight hydrocarbon odour



GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

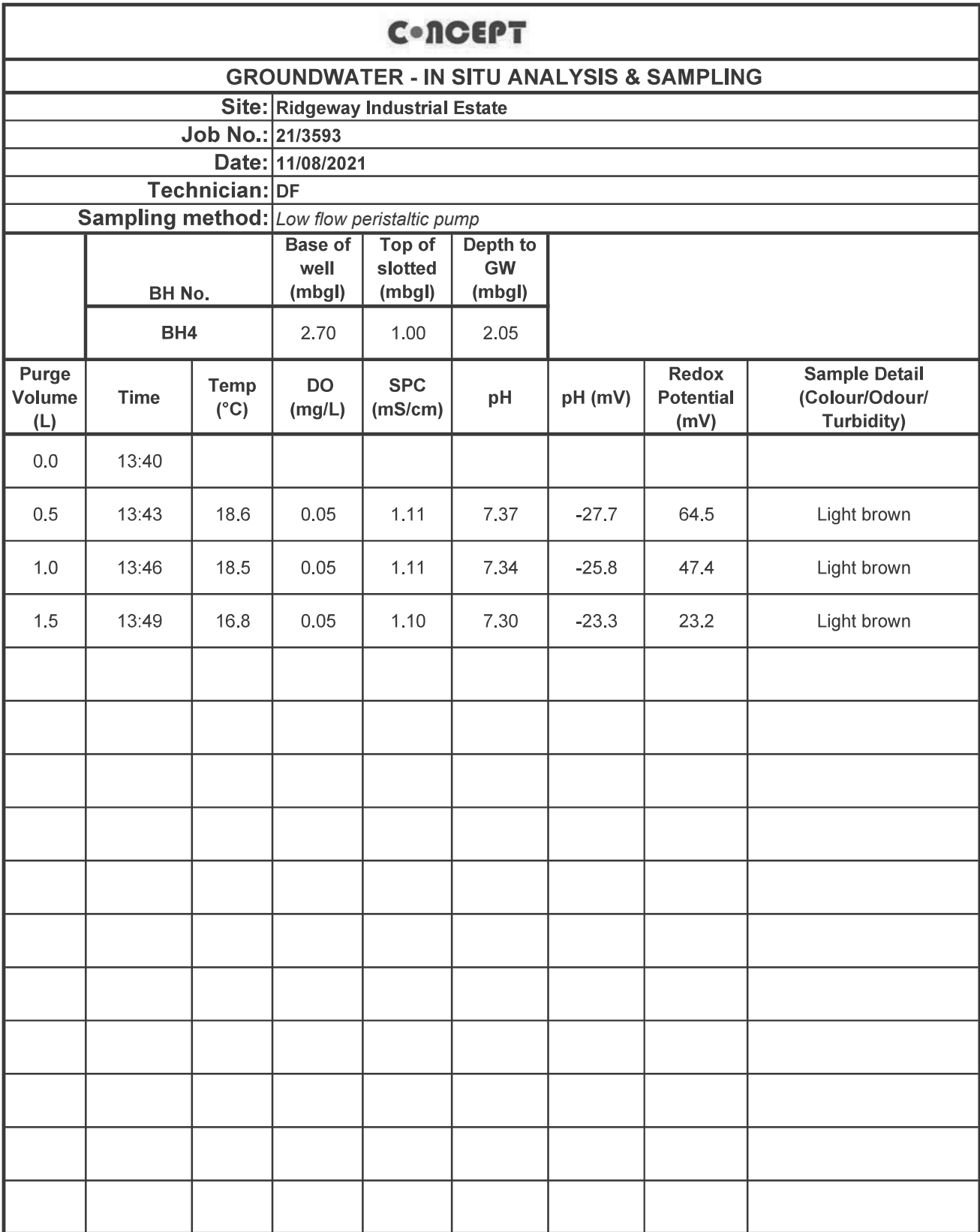
Job No.: 21/3593

Date: 11/08/2021

Technician: DF, PM, EP

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH3		3.80	1.70	2.82			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	11:42							
1.0	11:45	16.1	0.06	0.70	6.98	-5.2	-77.9	Clear
2.0	11:48	16.1	0.06	0.70	6.97	-4.8	-84.9	Clear
3.0	11:51	16.1	0.06	0.69	6.95	-3.7	-84.5	Clear
4.0	11:54	16.1	0.06	0.69	6.94	-3	-82.8	Clear





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

Job No.: 21/3593

Date: 11/08/2021

Technician: DF, PM,EP

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH5		2.70	1.50	2.10			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	15:28							
1.0	15:31	17.9	4.11	0.71	6.77	6.5	3.1	Clear
2.0	15:34	17.8	3.25	0.68	6.79	5.5	-6.7	Clear
3.0	15:37	17.8	2.60	0.67	6.78	6.4	-10.3	Clear
4.0	15:40	17.8	2.17	0.66	6.77	6.9	-11.5	Clear
5.0	15:43	17.3	1.73	0.66	6.76	6.7	-8.9	Clear
6.0	15:46	17.7	1.59	0.65	6.74	8.2	-10.5	Clear



GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

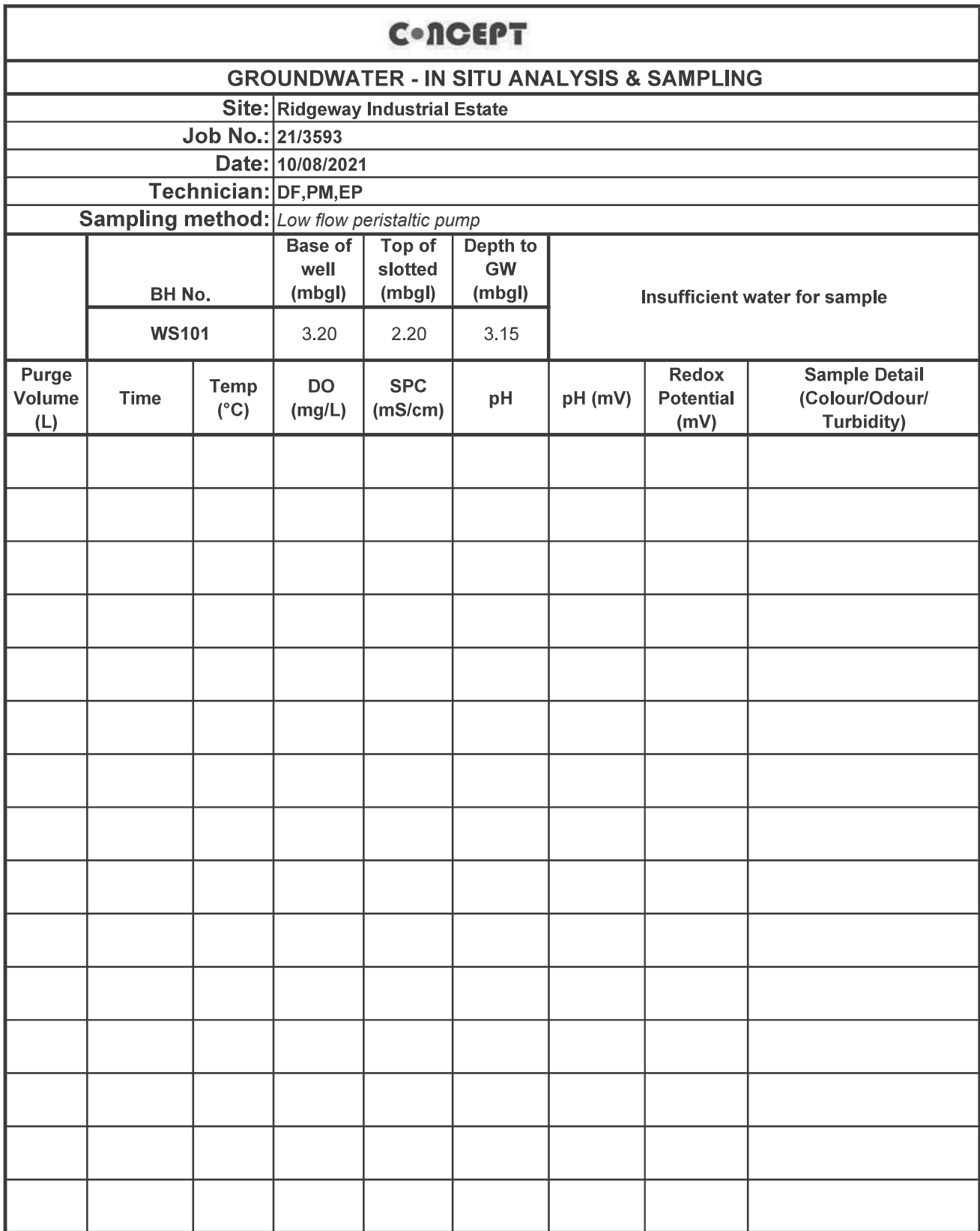
Job No.: 21/3593

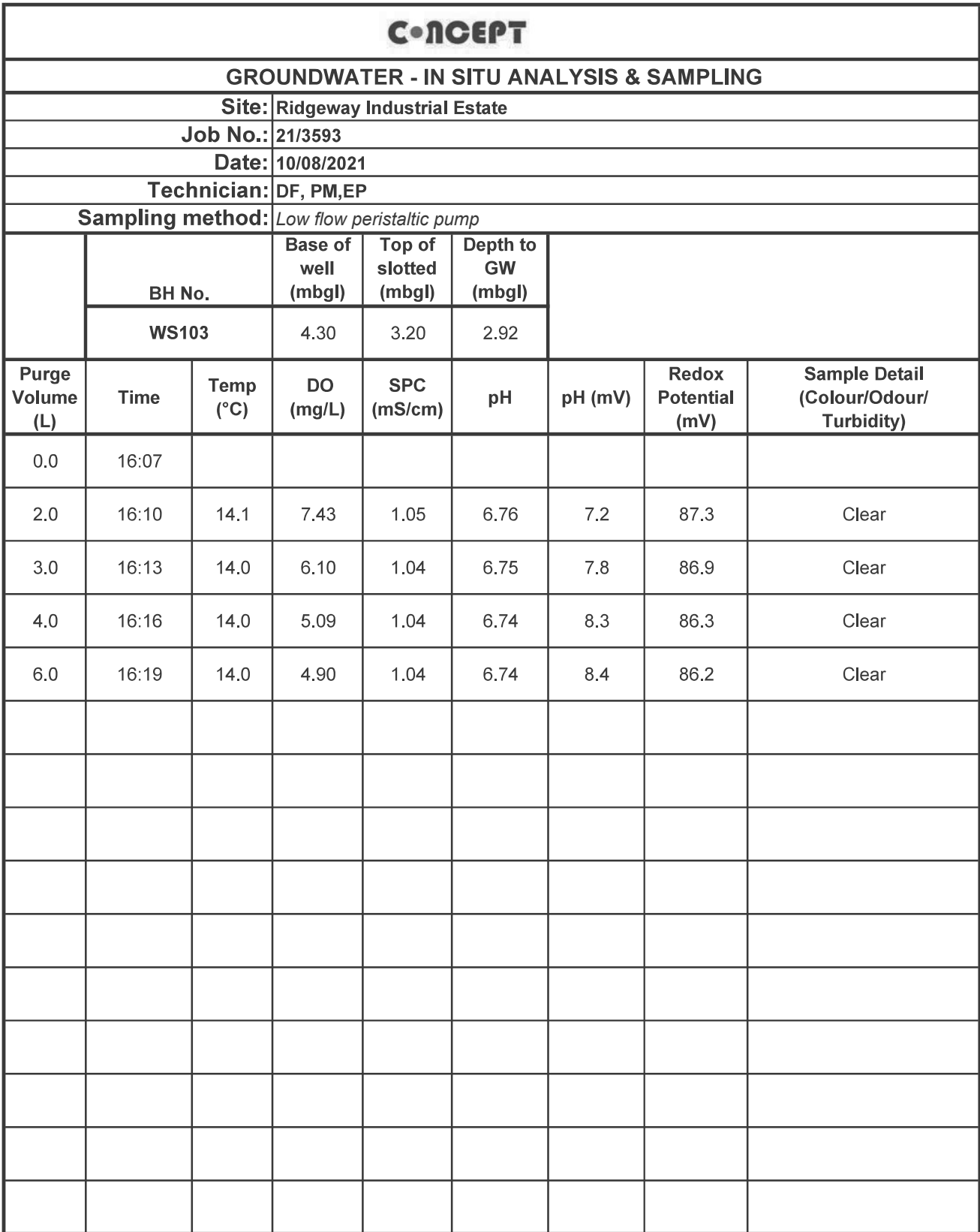
Date: 11/08/2021

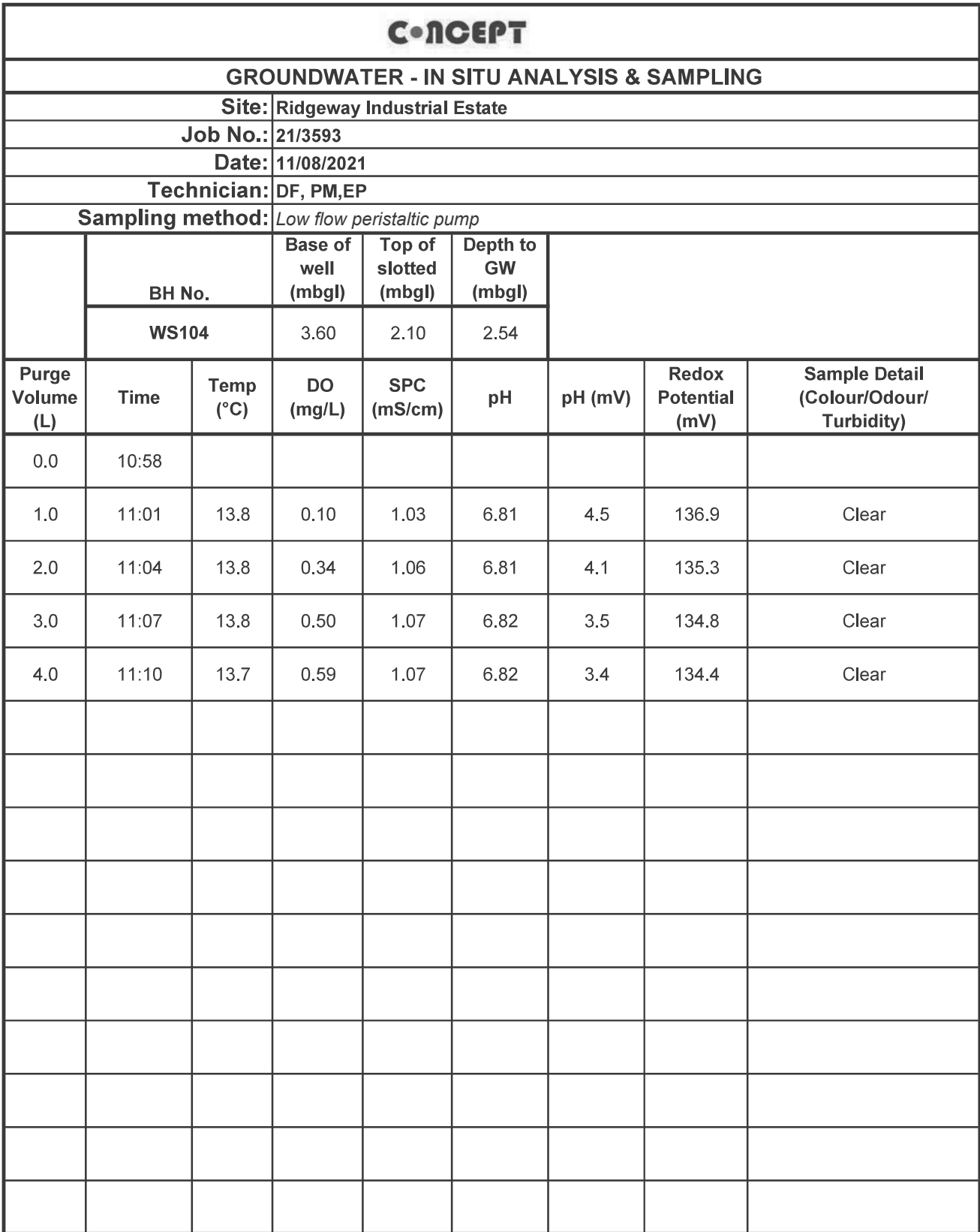
Technician: DF, PM, EP

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH6		3.70	1.30	2.82			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	17:25							
1.0	17:28	18.5	4.04	0.73	6.81	4.2	12.8	Clear
2.0	17:31	18.5	4.17	0.73	6.84	2.8	29.2	Clear
3.0	17:34	18.5	4.01	0.73	6.84	2.5	38.4	Clear
4.0	17:37	18.4	3.80	0.73	6.84	2.6	42.1	Clear









GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

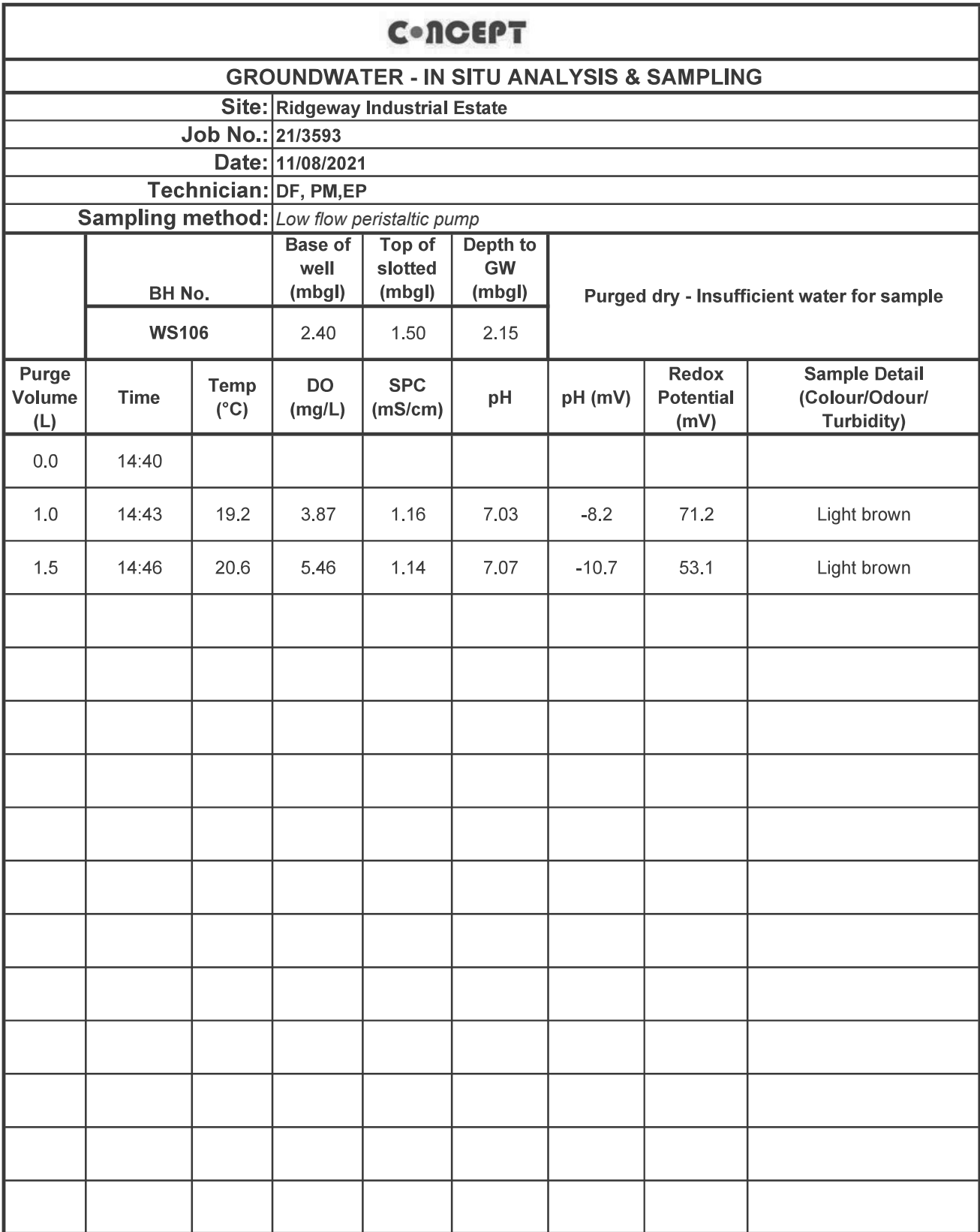
Job No.: 21/3593

Date: 10/08/2021

Technician: DF

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS105		3.00	2.00	2.47			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	17:06							
0.5	17:09	16.3	3.75	1.07	7.45	-31.4	85.8	Light brown
1.0	17:12	16.2	4.05	1.06	7.29	-22.8	81.4	Light brown
1.5	17:15	16.1	3.76	1.04	7.22	-18.8	73.2	Light brown
2.0	17:18	16.2	3.60	1.03	7.15	-15.0	54.0	Light brown





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

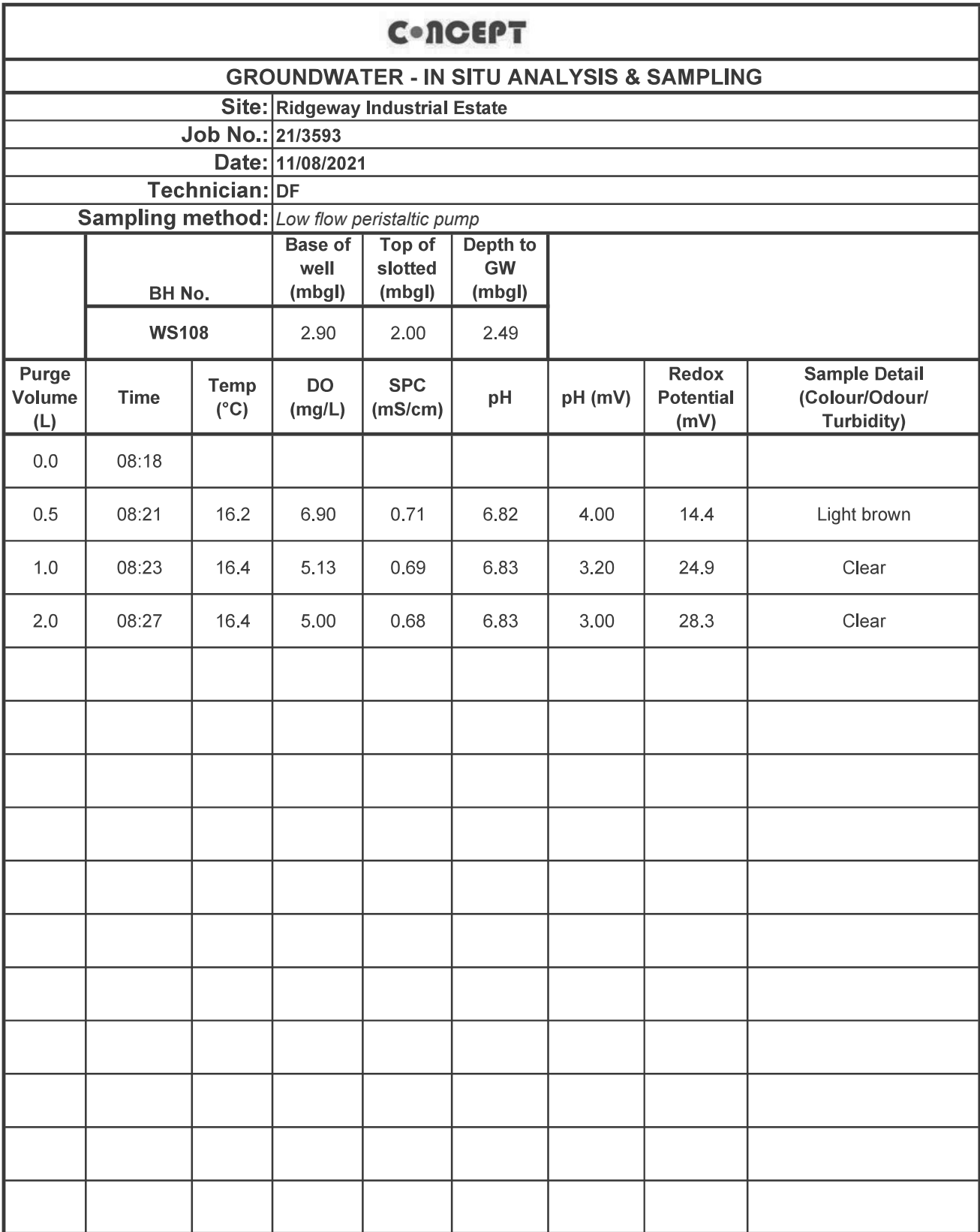
Job No.: 21/3593

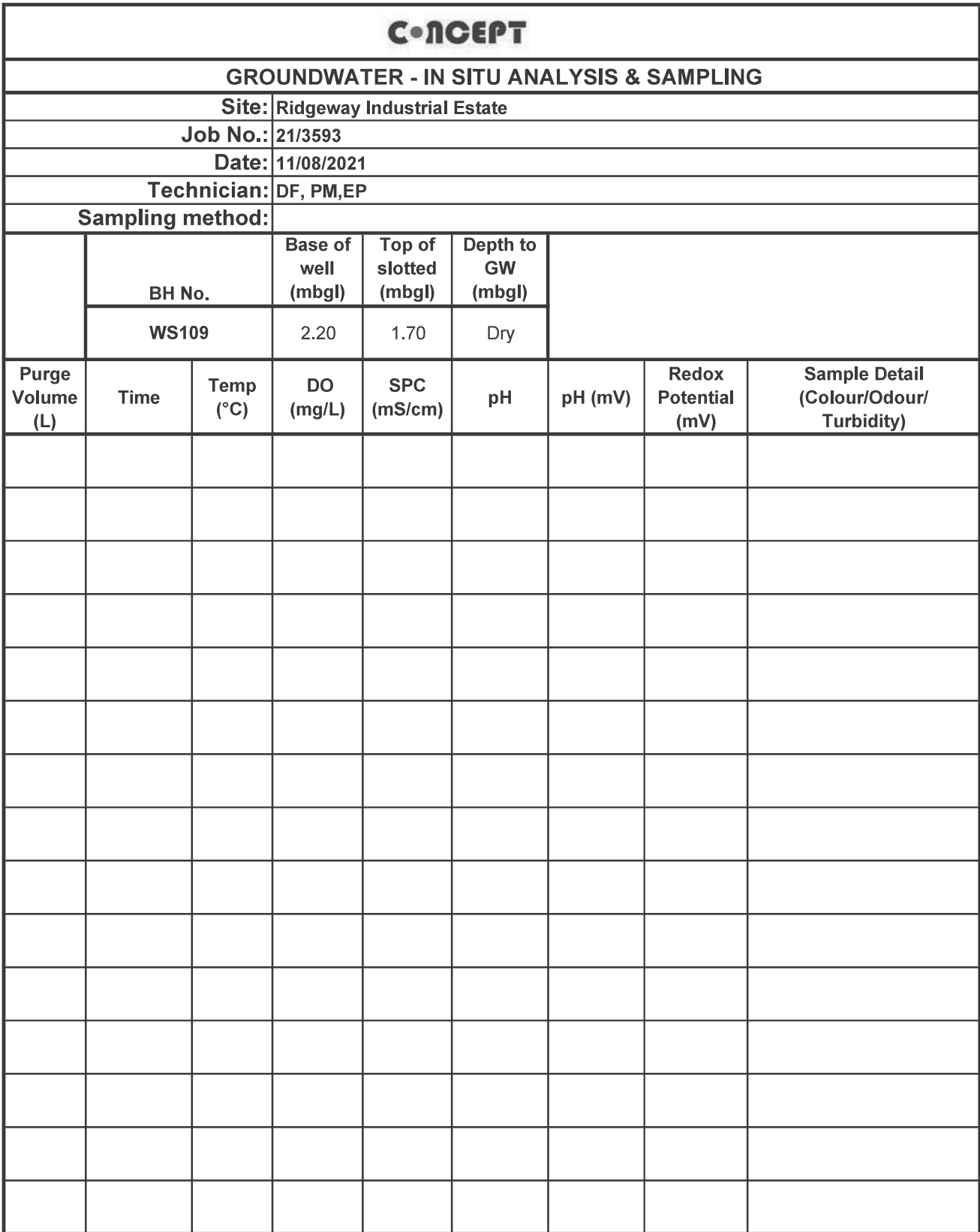
Date: 11/08/2021

Technician: DF

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS107		2.90	1.70	2.24			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	09:15							
0.5	09:18	13.4	6.35	1.00	7.00	-5.3	88.5	Light brown
1.0	09:21	13.4	4.56	0.91	6.92	-1.7	88.7	Light brown
1.5	09:24	13.4	3.57	0.88	6.89	-0.4	87.9	Light brown
2.0	09:27	13.4	2.90	0.84	6.85	1.8	86.1	Light brown
2.5	09:30	13.4	2.82	0.82	6.85	1.8	84.9	Light brown







GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

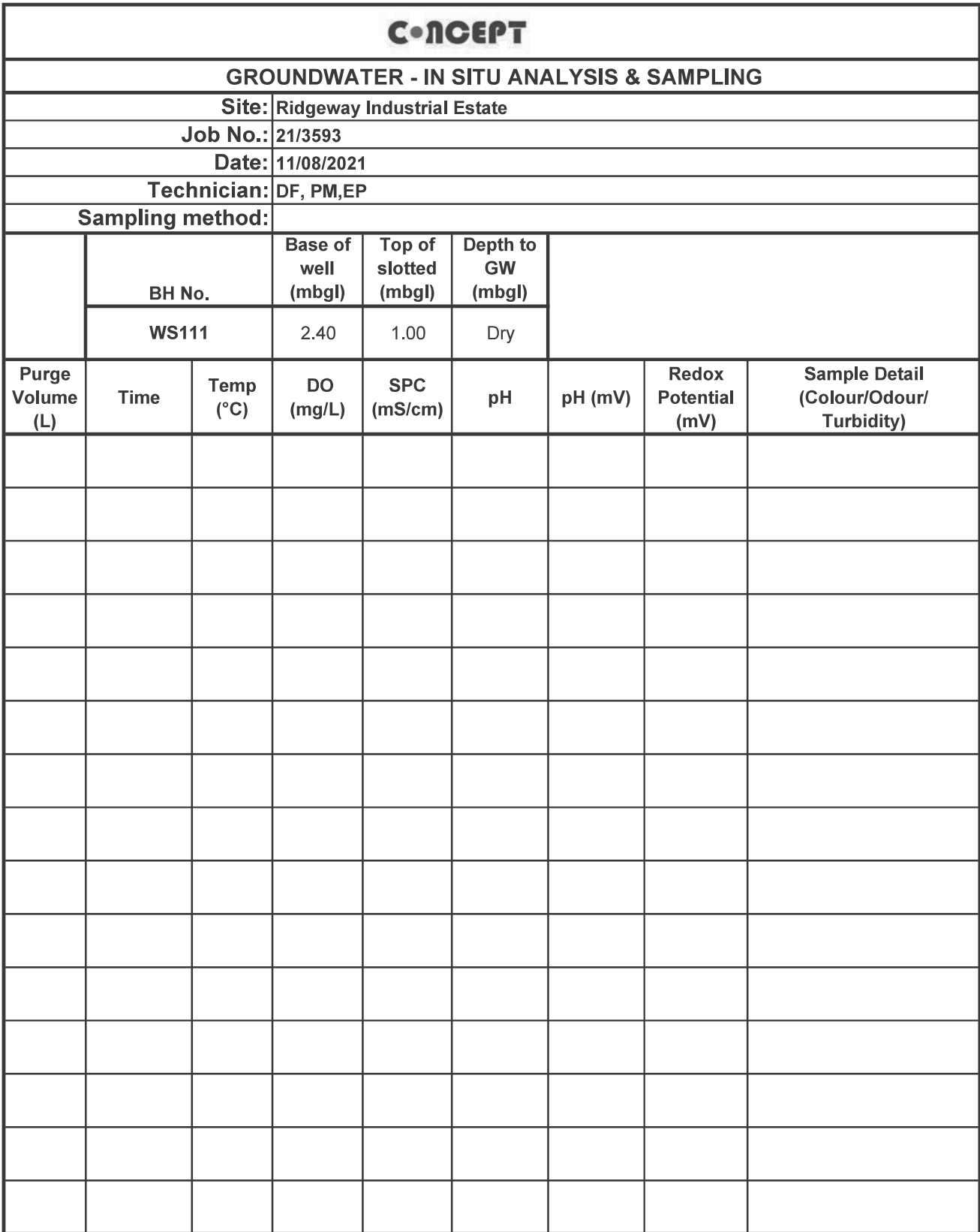
Job No.: 21/3593

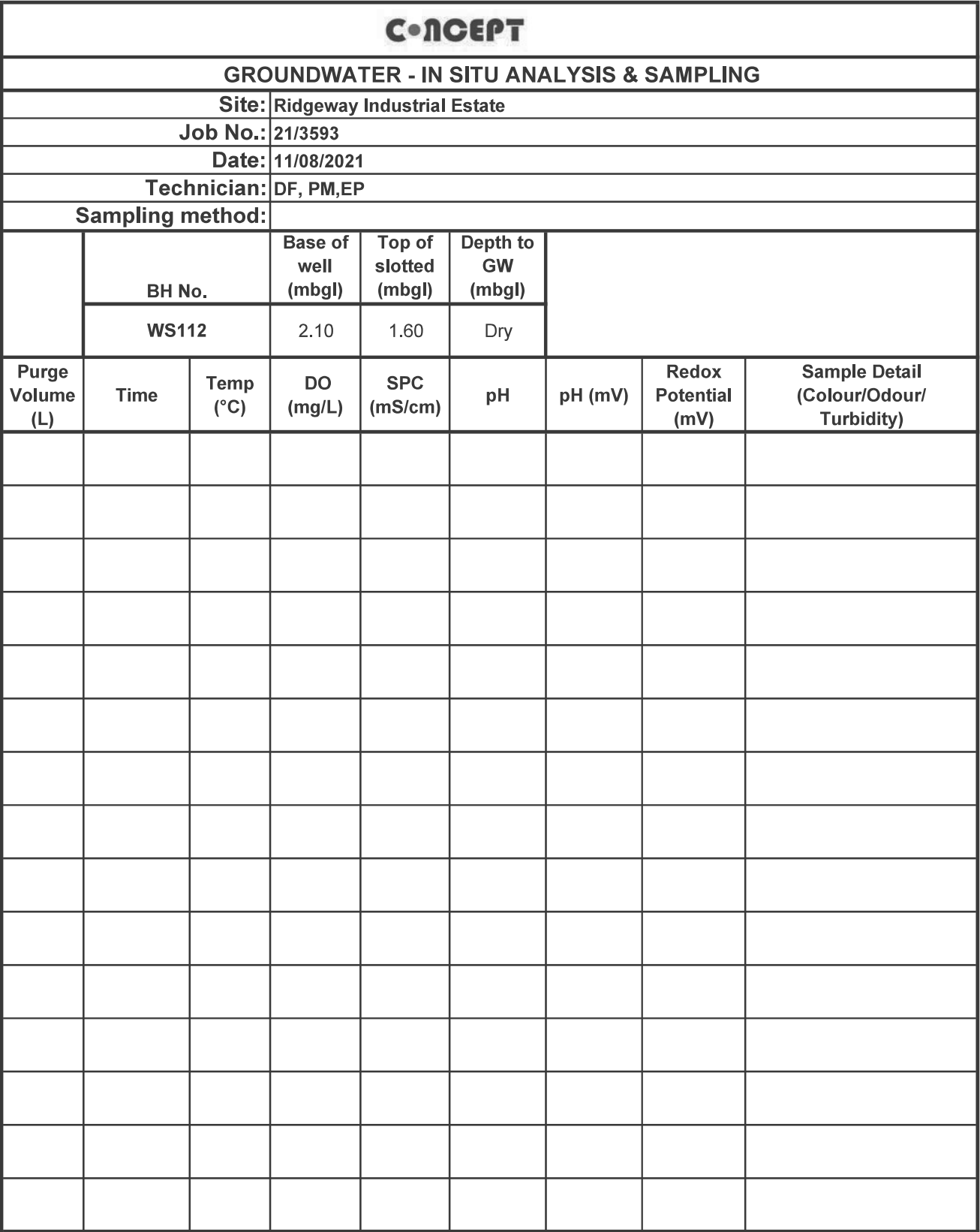
Date: 11/08/2021

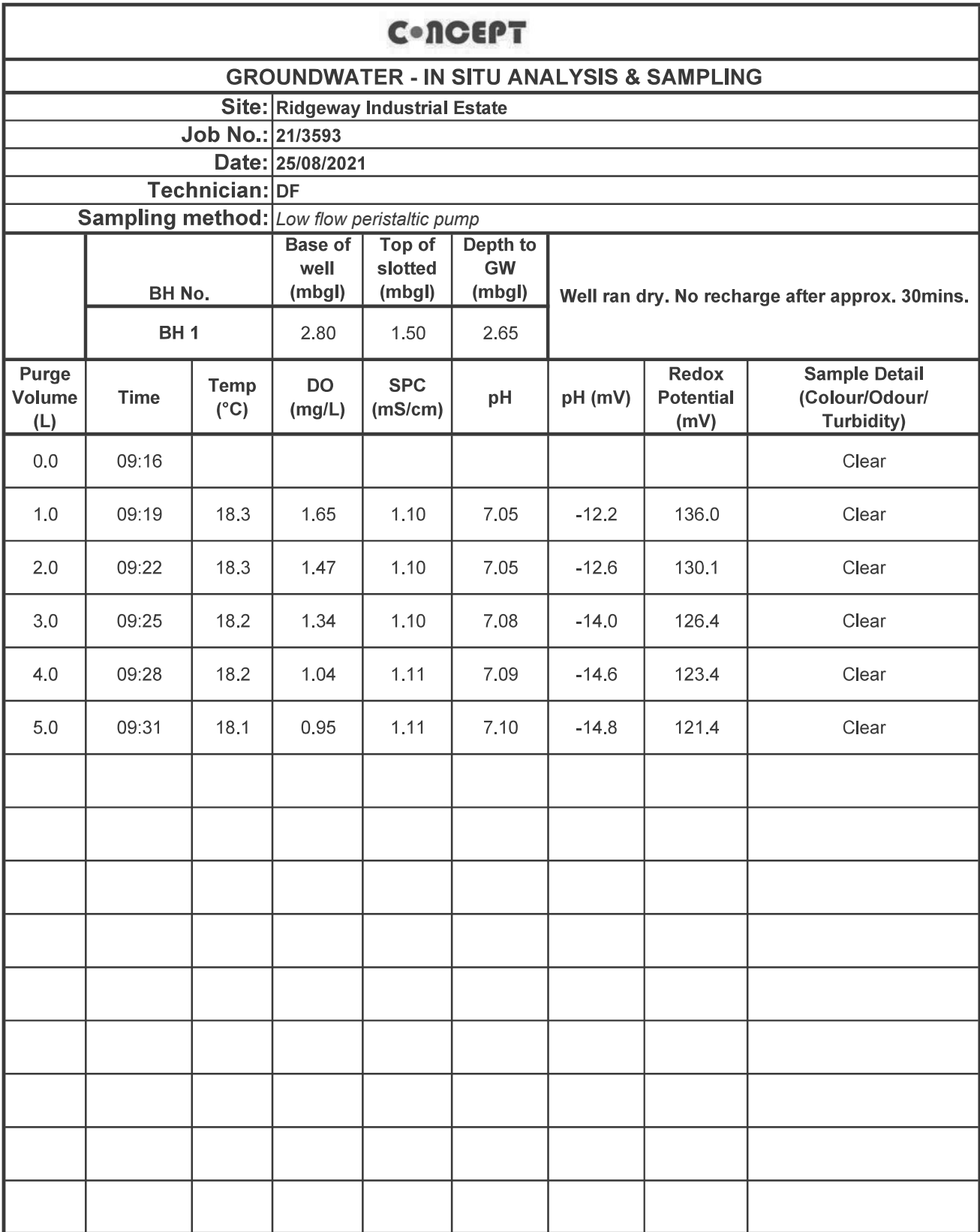
Technician: DF

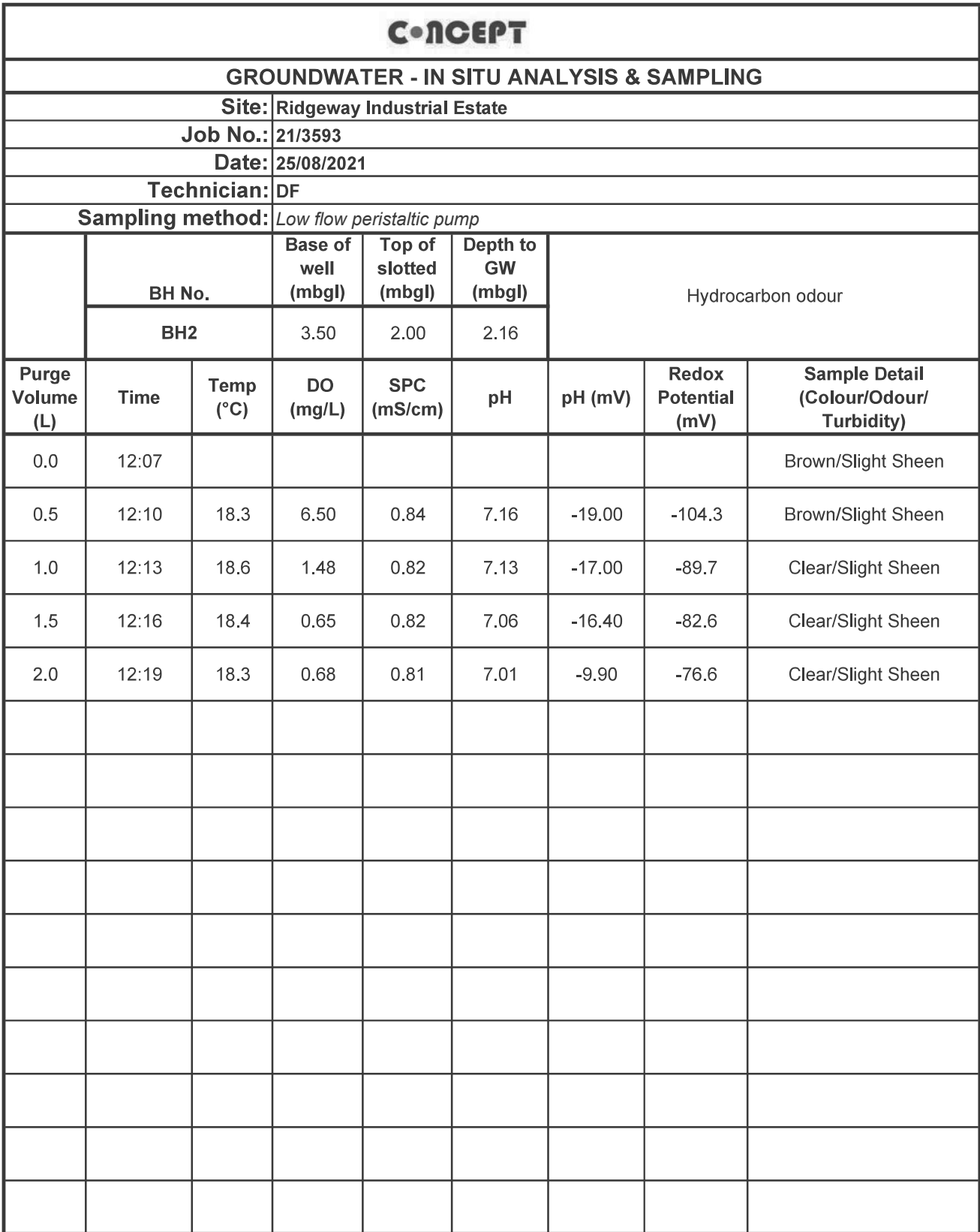
Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS110		3.00	1.50	1.54			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	07:21							
0.5	07:24	17.4	3.62	1.36	7.46	-32.0	-106.6	Light brown
1.0	07:27	17.2	2.04	1.26	7.10	-11.8	-83.8	Light brown
1.5	07:30	17.3	1.98	1.32	7.24	-20.4	-104.0	Light brown
2.0	07:33	17.4	1.93	1.27	7.21	-19.5	-101.0	Light brown











GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

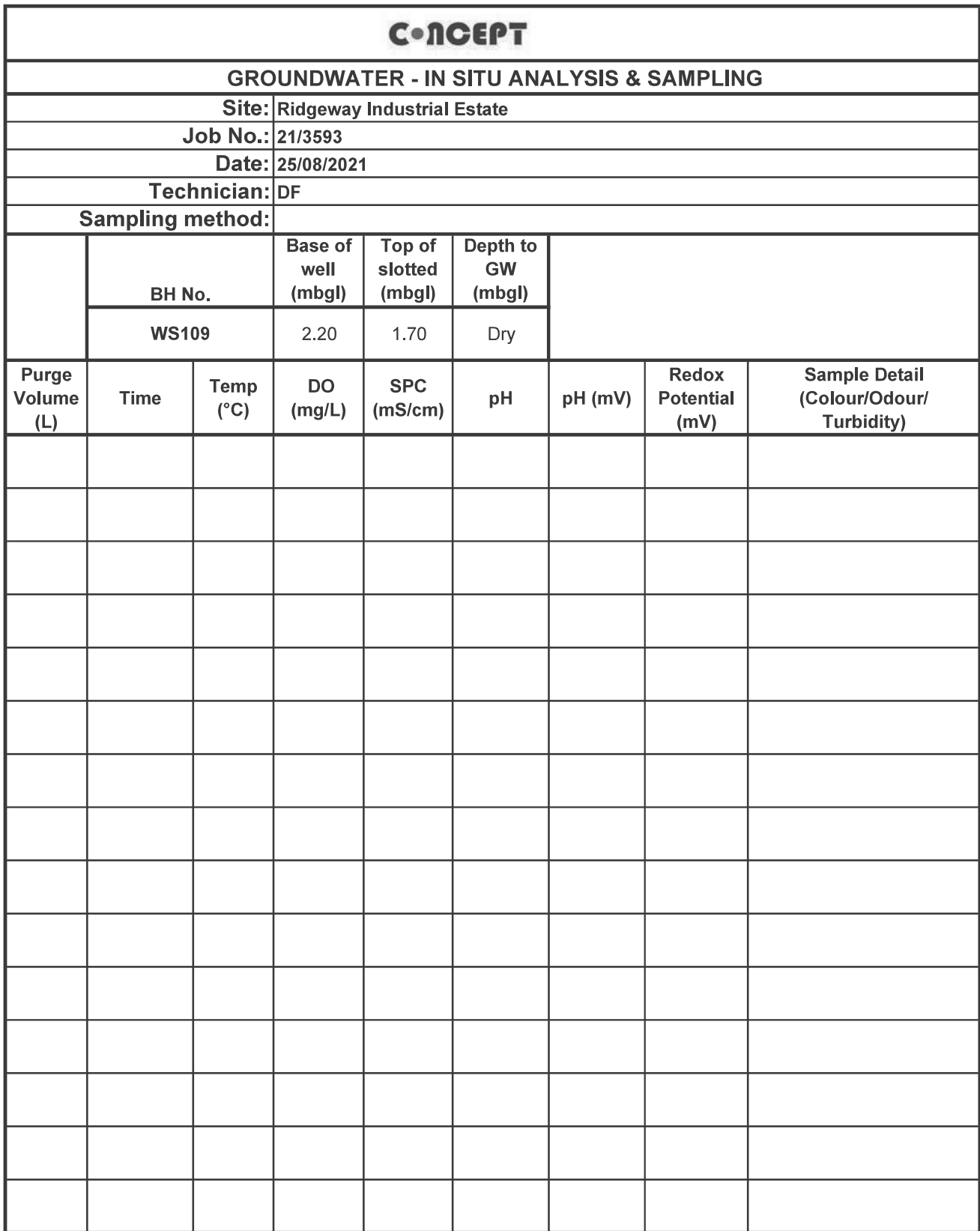
Job No.: 21/3593

Date: 25/08/2021

Technician: DF

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH3		3.80	1.70	2.93			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	10:57							Clear
0.5	11:00	16.5	1.91	0.68	7.00	-9.70	-49.2	Clear
1.0	11:03	16.5	1.63	0.68	6.97	-7.90	-63.6	Clear
1.5	11:06	16.4	1.01	0.68	6.97	-7.90	-77.6	Clear
2.0	11:09	16.4	0.73	0.68	6.96	-7.60	-80.5	Clear
2.5	11:12	16.4	0.67	0.69	6.97	8.00	-82.0	Clear





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

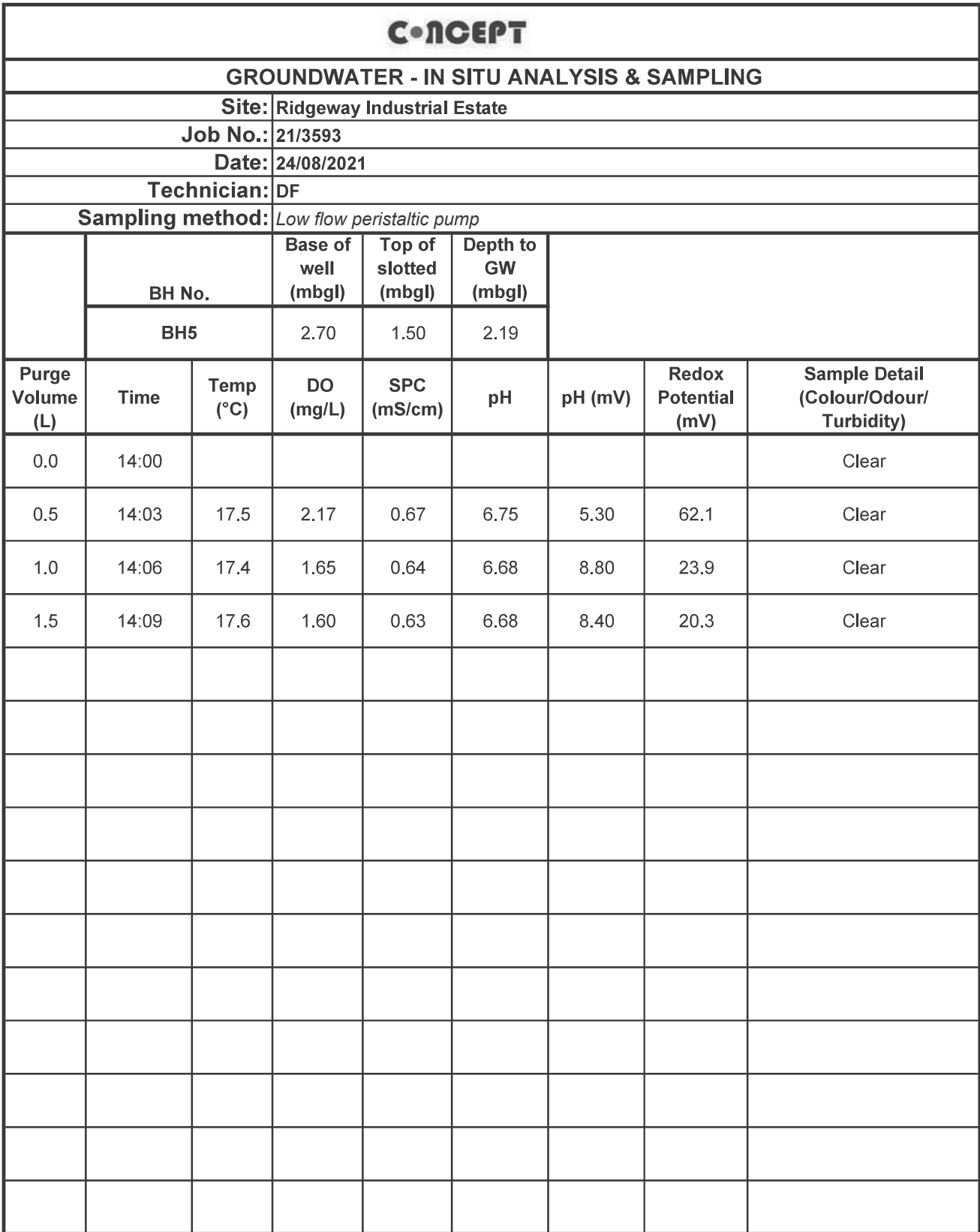
Job No.: 21/3593

Date: 24/08/2021

Technician: DF, DS, PM

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH4		2.70	1.00	2.14			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	12:19							Cloudy
0.5	12:22	18.4	0.02	1.11	7.34	-29.2	97.6	Cloudy
1.0	12:25	18.3	0.04	1.12	7.33	-28.2	89.9	Cloudy
2.0	12:28	18.3	0.05	1.11	7.31	-27.2	86.5	Cloudy
3.0	12:31	18.2	0.04	1.09	7.29	25.9	82.7	Cloudy





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

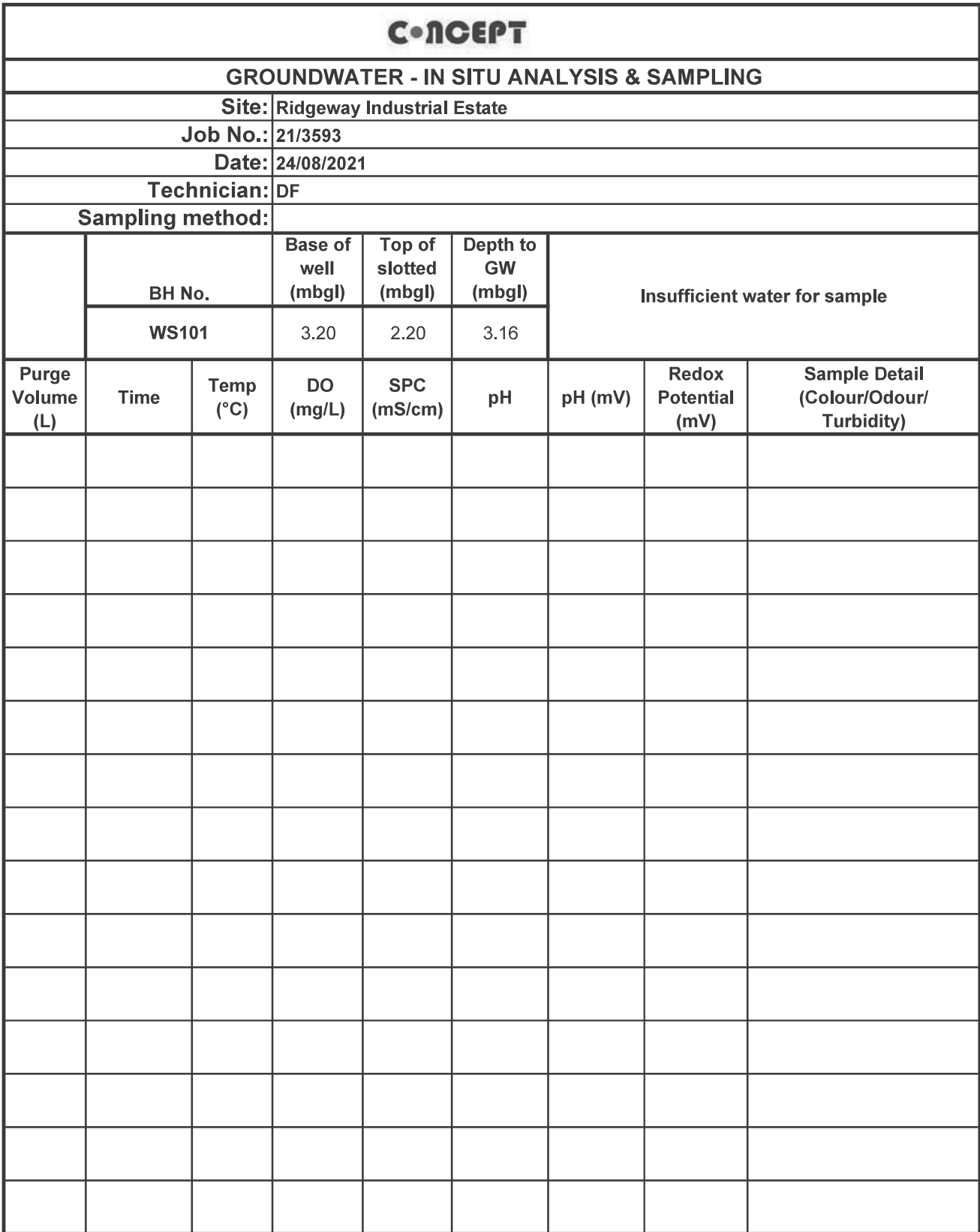
Job No.: 21/3593

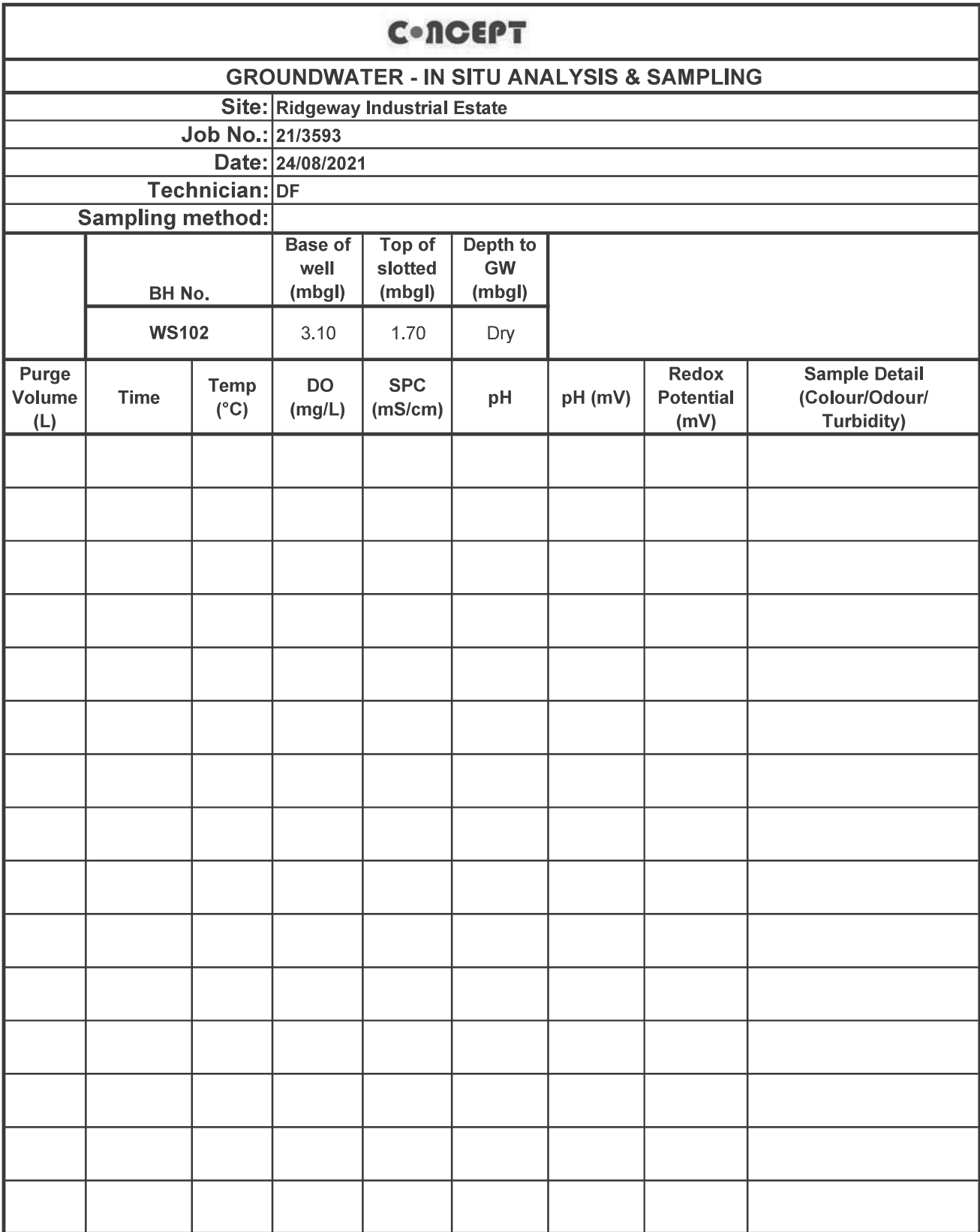
Date: 24/08/2021

Technician: DF, PM, DS

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	BH6		3.70	1.30	2.91			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	09:20							Clear
1.0	09:23	18.3	3.77	0.76	6.84	-0.7	28.7	Clear
2.0	09:27	18.2	3.02	0.76	6.83	0.2	38.6	Clear
3.0	09:30	18.4	2.73	0.76	6.82	0.3	44.8	Clear
4.0	09:33	18.4	2.60	0.76	6.80	0.4	44.3	Clear







GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

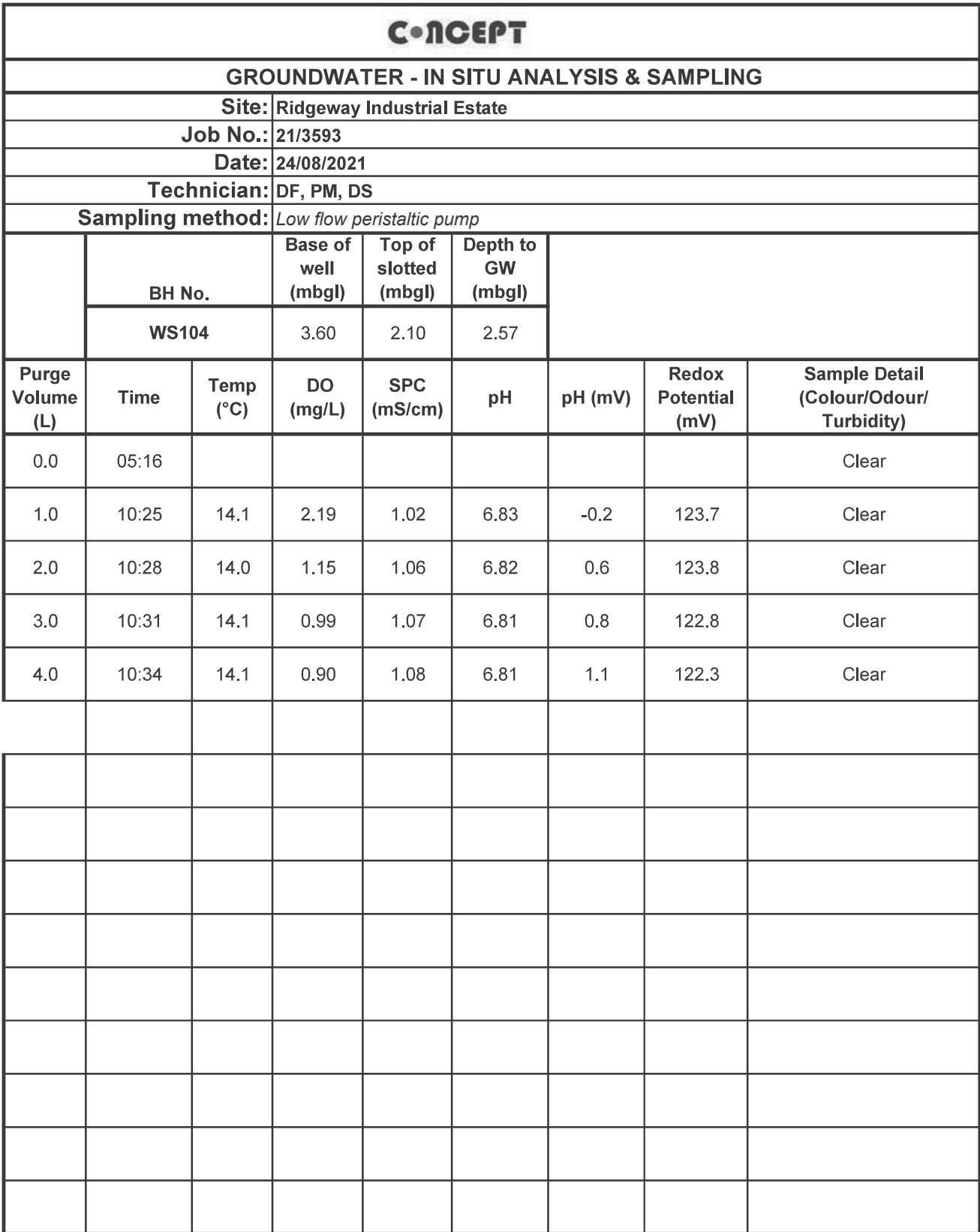
Job No.: 21/3593

Date: 24/08/2021

Technician: DF

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS103		4.30	3.20	2.97			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	08:12							Brown
0.5	08:15	14.0	2.38	1.07	7.04	-10.9	-48.8	Clear
1.0	08:18	14.3	2.04	1.06	6.85	-1.2	-10.3	Clear
1.5	08:21	14.1	2.21	1.07	6.80	1.7	2.9	Clear
2.0	08:24	14.1	2.01	1.06	6.77	1.9	3.8	Clear





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

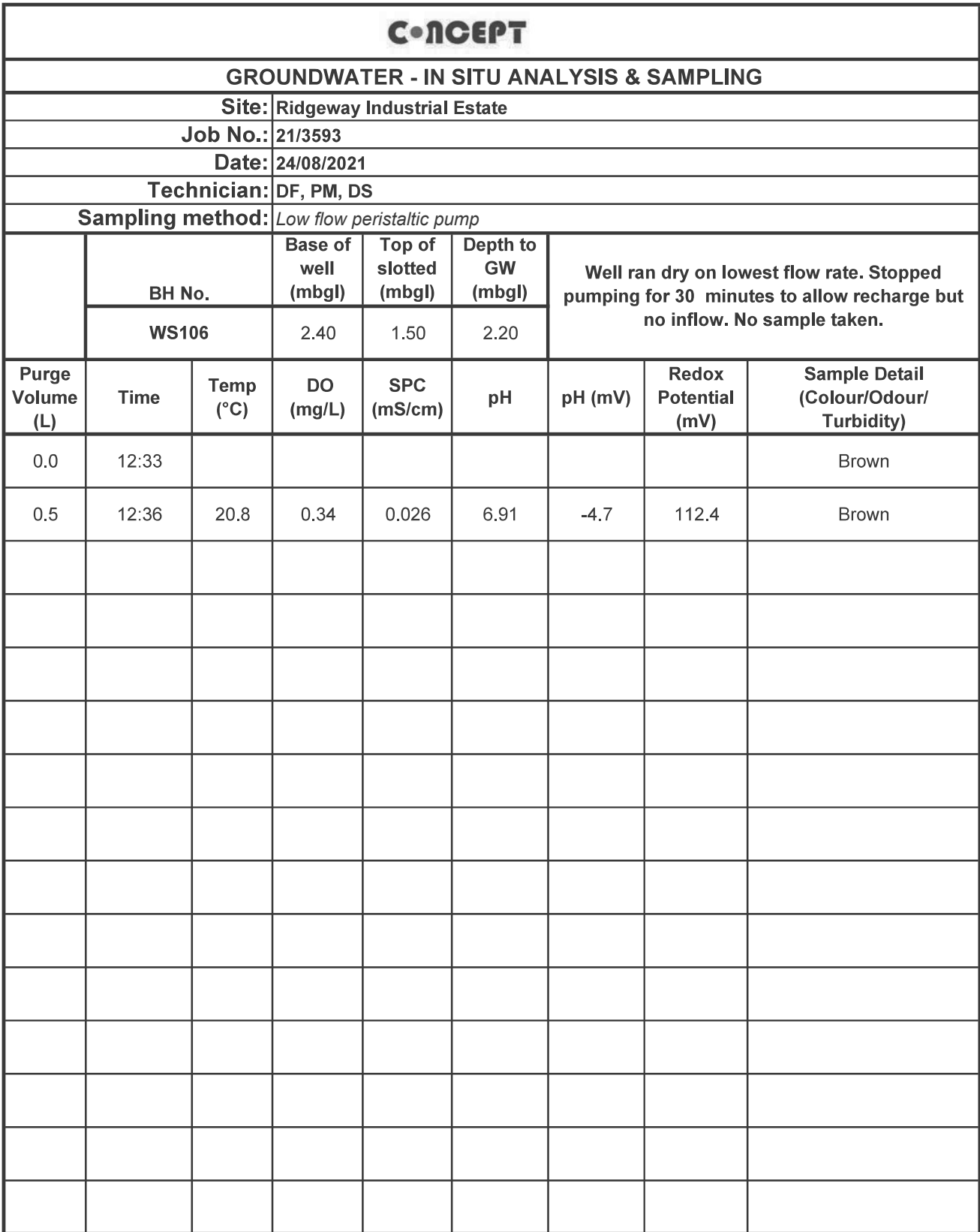
Job No.: 21/3593

Date: 24/08/2021

Technician: DF

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS105		3.00	2.00	2.57			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	11:01							Cloudy
1.0	11:04	16.2	3.44	1.03	7.30	-26.5	69.5	Cloudy
2.0	11:07	16.2	2.44	1.05	7.15	-18.0	71.6	Cloudy
3.0	11:10	16.2	2.01	1.06	7.07	-13.7	69.6	Cloudy
4.0	11:13	16.2	1.95	1.04	7.07	-13.6	61.7	Cloudy





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

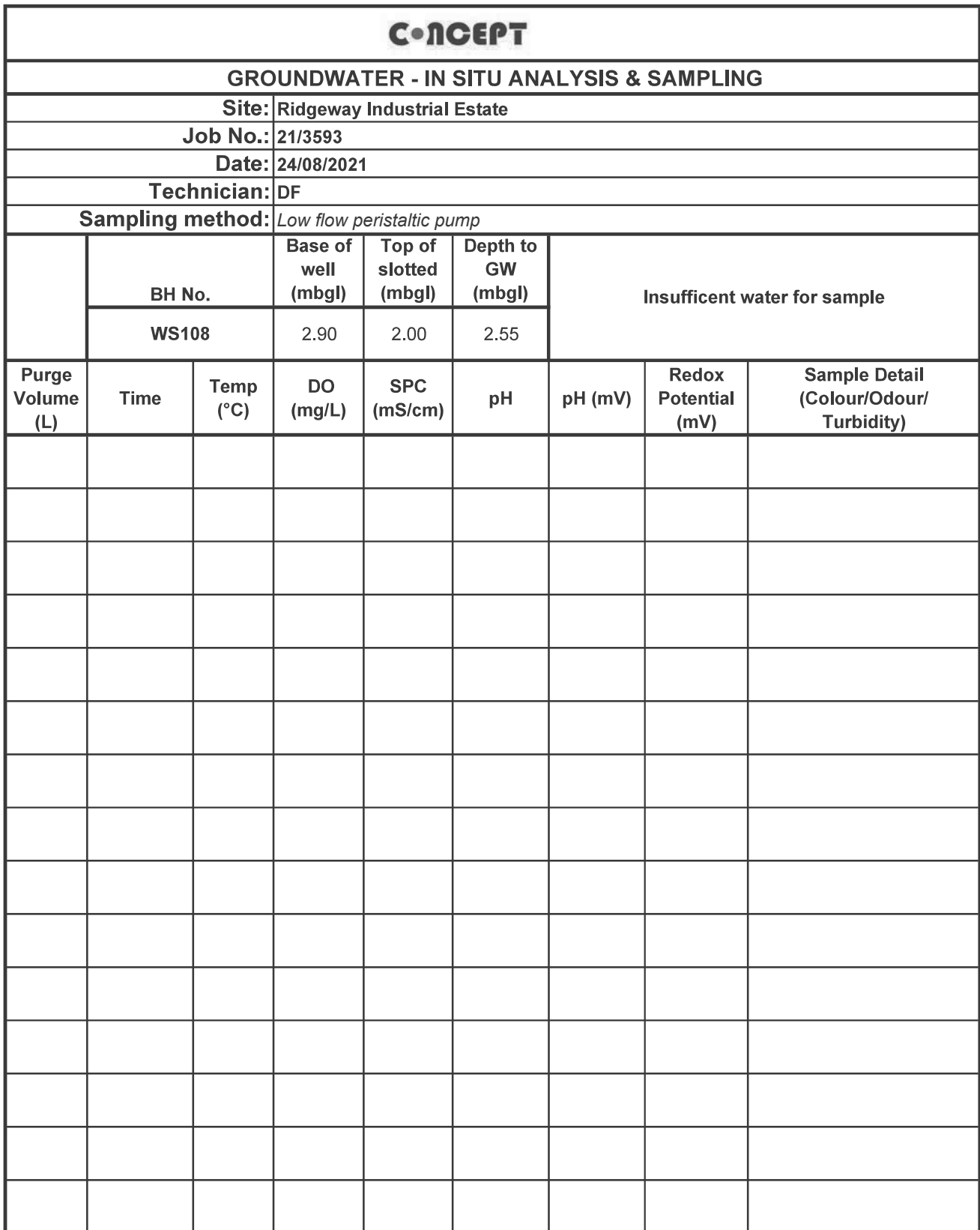
Job No.: 21/3593

Date: 24/08/2021

Technician: DF, DS, PM

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS107		2.90	1.70	2.26			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	11:35							Clear
1.0	11:38	13.8	3.20	0.90	6.96	-7.1	89.1	Clear
2.0	11:41	13.6	1.44	0.81	6.33	-0.4	84.0	Clear
3.0	11:44	13.6	1.22	0.81	6.81	0.7	78.9	Clear
4.0	11:47	13.6	1.02	0.79	6.80	1.4	74.2	Clear
5.0	11:50	13.7	0.99	0.79	6.80	1.8	71.6	Clear





GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site: Ridgeway Industrial Estate

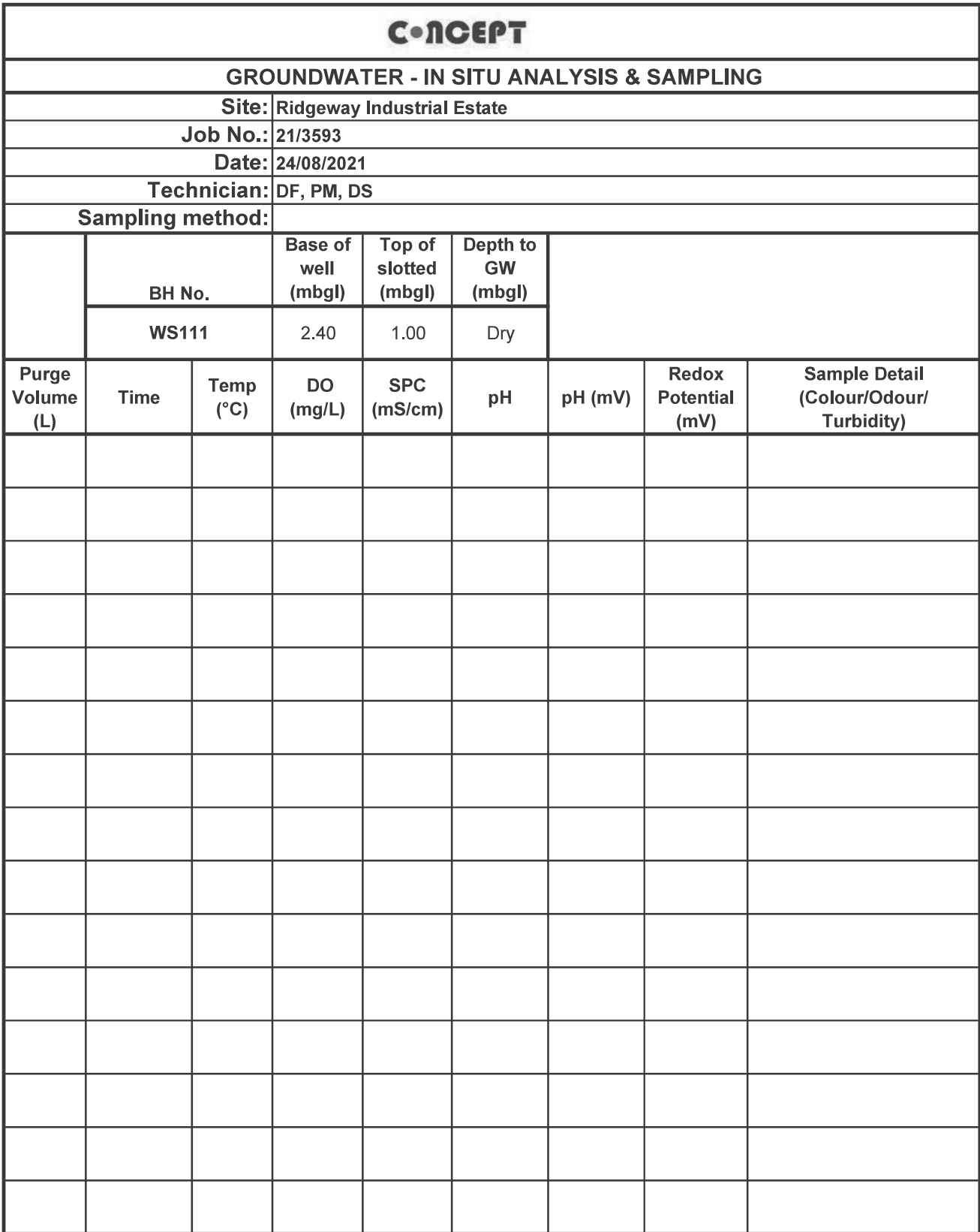
Job No.: 21/3593

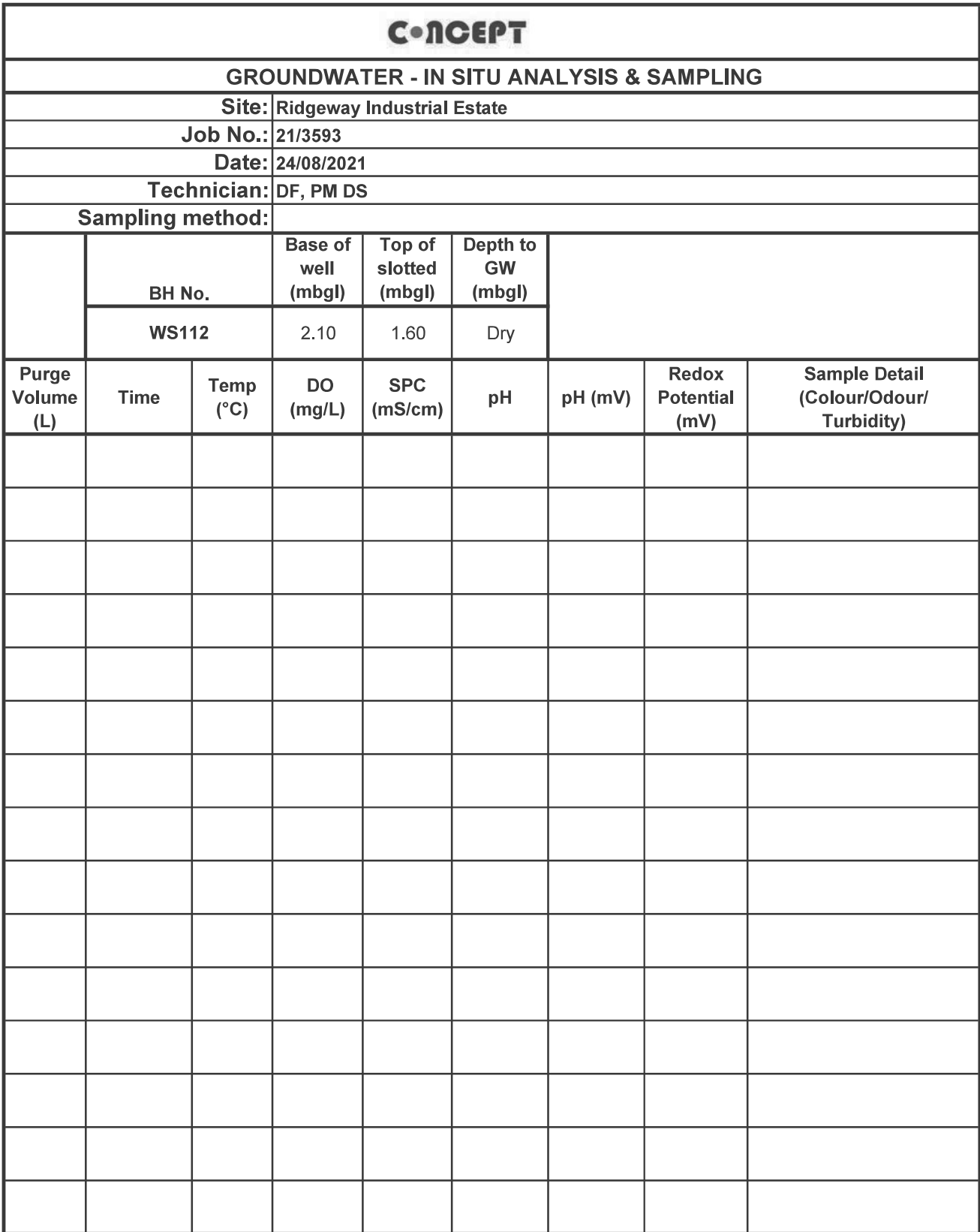
Date: 24/08/2021

Technician: DF, PM, DS

Sampling method: Low flow peristaltic pump

	BH No.		Base of well (mbgl)	Top of slotted (mbgl)	Depth to GW (mbgl)			
	WS110		3.00	1.50	1.66			
Purge Volume (L)	Time	Temp (°C)	DO (mg/L)	SPC (mS/cm)	pH	pH (mV)	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
0.0	14:51							Clear
1.0	14:54	18.3	7.26	1.38	7.05	-12.7	-42.8	Clear
2.0	14:57	17.4	1.24	1.18	6.95	-6.3	-62.4	Clear
3.0	15:00	17.3	0.90	1.05	6.88	-2.6	-60.3	Clear
4.0	15:03	17.4	0.77	0.95	6.86	-1.6	-60.1	Clear
5.0	15:06	17.3	0.68	0.91	6.83	-0.1	-58.8	Clear





TEST DATE AND CONDITIONS			
Date		11/08/2020	
Atmospheric Pressure Ambient Temperature Envionics Serial No.		997	mB
		21.6	°C
		5089	

**GFM436 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311

Fax 02476307711



Customer	Concept Site Investigations
Certificate Number	121930
Order Number	326344

Serial Number	13240
Software Version	G436-00.0027/0010

Recalibration DUE Date
11/08/21

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	400	Accept > 200 cc/min	Pump Flow @ -200mB	250	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	59.8	60	40	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	4.9	5	5	5	6	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N2	0	0	0	0	0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H2S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0
CO	2000	1000	0	Accept ±0.0	1000	Accept ±5.0
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0

TEST DATE AND CONDITIONS	
Date	03/03/21
Atmospheric Pressure	1013mB
Ambient Temp	24.7°C
Envionics Serial No.	2518

GAS DATA LTD

Pegasus House
Seven Stars Estate
Wheler Rd
Coventry
CV3 4LB

Tel 02476303311 Fax 02476307711



GFM436-3 FINAL INSPECTION & CALIBRATION CHECK CERTIFICATE

INSTRUMENT DETAILS	
Serial No	Customer
12224	Concept Site Investigations

INSTRUMENT CHECKS			
Keyboard	✓	Pump Flow	500cc/min
Display Contrast	✓	Pump Flow @ -200mB	300cc/min
Clock Set / Running	✓	S/W Version	G436.0027/0011
Labels Fitted	✓	Recalibration Date	03/03/22

GAS CHECKS							
Calibration Gas		Instrument Gas Channels Read					
Gas Type	Applied Conc.	CH4 (%)	tol. (% vol.)	CO2 (%)	tol. (% vol.)	O2 (%)	tol. (% vol.)
N2	100%	0.0	0.0	0.0	0.0	0.0	+/-0.1
CH4	5%	4.9	+/-0.3	0.0	0.0	0.0	+/-0.1
	60%	59.7	+/-3.0	0.0	0.0	0.0	+/-0.1
CO2	5%	0.0	0.0	5.0	+/-0.3	0.0	+/-0.1
	40%	0.0	0.0	40.2	+/-3.0	0.0	+/-0.1
O2	20.9%	0.0	0.0	0.1	+0.1	20.8	+/-0.5

OPTIONAL GAS CHECKS							
Calibration Gas		Instrument Gas Channels Read					
Gas Type	Applied Conc.	Label	H2S	CO		Hexane	tol.
		Range	5000ppm	2000ppm		2.00%	(% vol.)
N2	100%		0	0		0	0.0
H2S	1500ppm		1500	0			+/- 5.0
CO	1000ppm		70	998			+/- 5.0
Hexane	2.00%					1.966	+/- 10.0

PRESSURE CHECKS							
Calibration Pressure		Instrument Pressure Channels Read					
Pressure @	Applied Pressure	Atmospheric [Ap] (mB)	tol. (mB)				
All Ports	Current Atmospheric	1012	+/-2.0				
Ap Port (Internal)	+800mB(a)	802	+/-5.0				
	+1200mB(a)	1197	+/-5.0				

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	40		1000		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		997	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200mb	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-30.1	Accept ± 3.0	-328	-330	Accept ± 50
-3	-3	Accept ± 1.0	-15	-15	Accept ± 6.0
0	0	Accept ± 0.0	0	0	Accept ± 0.5
3	3	Accept ± 0.5	16	16	Accept ± 3.0
30	30	Accept ± 3.0	328	328	Accept ± 50
60	60	Accept ± 6.0	971	968	Accept ± 130
90	90.7	Accept ± 9.0	1894	1933	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10	Accept ± 2.0
0	0	Accept ± 1.0
30	30	Accept ± 1.0
60	60	Accept ± 1.0
100	100	Accept ± 1.0

Technician:
<i>Jack Rutland</i>

Date Tested:
<i>12/08/2020</i>

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.



CERTIFICATE OF CALIBRATION
Phocheck Tiger

CALIBRATION CERTIFICATE NO: 70229

ISSUED BY: SHAWCITY LIMITED
DATE: 18-Feb-21
APPROVED SIGNATORY: 
NAME: Dave Godfrey
CUSTOMER: Concept Engineering Consultants
INSTRUMENT: PhoCheck Tiger
SERIAL NUMBER: T-111151
CALIBRATION METHOD: CM03
AMBIENT CONDITIONS: 20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.
The instrument was calibrated by exposing the sensor to known values of gas concentrations.
All gases were sampled through the complete probe and in line filter, where applicable.
The reference value is that generated by the certified source and the indicated value is that measured by the instrument.

CALIBRATION RESULTS

GAS	LOT No	REF. VALUE	INDICATED VALUE
Isobutylene	WO277042-1	100 ppm	100 ppm
Isobutylene	WO224476-2	1000 ppm	1000 ppm

COMMENTS:

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$.
This provides a level of confidence of uncertainty of approximately 95%.
The uncertainty of measurement is $\pm 2\%$
The results indicate that the instrument conforms to the applicable parts of the published specification.

HEALTH & SAFETY, OCCUPATIONAL HYGIENE AND ENVIRONMENTAL MONITORING INSTRUMENTS

Tel: 01793 780622
www.shawcity.co.uk

Instrument House, 91-92 Shrivenham Hundred Business Park
Watchfield, Oxfordshire, SN6 8TY

Fax: 01793 784466
service@shawcity.co.uk

11. GEOTECHNICAL LABORATORY TEST RESULTS



Final Report

Report No.: 21-28754-1

Initial Date of Issue: 25-Aug-2021

Client Concept Consultants

Client Address: Unit D, Herald Way
Binley Industrial Estate
Coventry
CV3 2RQ

Contact(s): Kasia Mazerant
Lab
Lynn Griffin

Project 21/3593 GI - Ridgeway Industrial Estate

Quotation No.: Q21-24764 **Date Received:** 19-Aug-2021

Order No.: L2594 **Date Instructed:** 19-Aug-2021

No. of Samples: 14

Turnaround (Wkdays): 5 **Results Due:** 25-Aug-2021

Date Approved: 25-Aug-2021

Approved By:


Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28754	21-28754	21-28754	21-28754	21-28754	21-28754	21-28754	21-28754	21-28754
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263281	1263282	1263283	1263284	1263285	1263286	1263287	1263288	
Order No.: L2594		Client Sample Ref.:		3	5	8	9	14	17	23	31	
		Sample Location:		BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	0.70	1.50	2.50	4.50	5.50	7.50	10.50	
		Bottom Depth (m):		0.70	1.20			4.95	5.95	7.95	10.95	
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	
Determinand		Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	4.0	1.9	6.7	6.6	9.4	12	
pH		U	2010		4.0	8.8	6.3	7.8	8.0	8.1	7.9	
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.20	0.84	0.63	0.41	0.15	0.57	

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28754	21-28754	21-28754	21-28754	21-28754	21-28754
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263289	1263290	1263291	1263292	1263293	1263294
Order No.: L2594		Client Sample Ref.:		39	47	55	63	71	75
		Sample Location:		BH1	BH1	BH1	BH1	BH1	BH1
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		13.50	16.50	19.50	22.50	25.50	27.00
		Bottom Depth (m):		13.95	16.95	19.95	22.95	25.95	27.45
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021
Determinand		Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	14	12	13	12
pH		U	2010		4.0	8.2	8.0	8.2	8.2
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.57	0.42	0.62	0.65

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

Report Information

Key

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request

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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

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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



Final Report

Report No.: 21-28749-1

Initial Date of Issue: 24-Aug-2021

Client Concept Consultants

Client Address: Unit D, Herald Way
Binley Industrial Estate
Coventry
CV3 2RQ

Contact(s): Kasia Mazerant
Lab
Lynn Griffin

Project 21/3593 GI - Ridgeway Industrial Estate

Quotation No.: Q21-24764 **Date Received:** 19-Aug-2021

Order No.: L2592 **Date Instructed:** 19-Aug-2021

No. of Samples: 18

Turnaround (Wkdays): 5 **Results Due:** 25-Aug-2021

Date Approved: 24-Aug-2021

Approved By:


Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28749	21-28749	21-28749	21-28749	21-28749	21-28749	21-28749	21-28749
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263243	1263244	1263245	1263246	1263247	1263248	1263249	1263250
Order No.: L2592		Client Sample Ref.:		4	5	7	9	11	14	17	18
		Sample Location:		BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	0.90	1.30	1.50	2.00	3.00	3.50	4.00
		Bottom Depth (m):		0.80	1.10			2.50	3.50	4.00	4.45
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021
Determinand		Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	7.2	2.3	2.0	3.9	16	12
pH		U	2010		4.0	10.0	8.8	8.4	8.6	8.2	7.8
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.18	< 0.010	0.19	0.012	0.015	0.46

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28749	21-28749	21-28749	21-28749	21-28749	21-28749	21-28749	21-28749	21-28749
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263251	1263252	1263253	1263254	1263255	1263256	1263257	1263258	
Order No.: L2592		Client Sample Ref.:		21	24	30	38	46	54	62	70	
		Sample Location:		BH2	BH2	BH2	BH2	BH2	BH2	BH2	BH2	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		5.50	6.50	8.50	11.50	14.50	17.50	20.50	23.50	
		Bottom Depth (m):		5.95	6.95	8.95	11.95	14.95	17.95	20.95	23.95	
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	
Determinand		Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	13	15	14	13	13	
pH		U	2010		4.0	7.8	8.0	8.7	8.3	8.3	8.4	
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.68	0.31	0.16	0.54	0.49	0.68	

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:	21-28749	21-28749
Quotation No.: Q21-24764		Chemtest Sample ID.:	1263259	1263260
Order No.: L2592		Client Sample Ref.:	78	82
		Sample Location:	BH2	BH2
		Sample Type:	SOIL	SOIL
		Top Depth (m):	26.50	28.00
		Bottom Depth (m):	26.95	28.45
		Date Sampled:	18-Aug-2021	18-Aug-2021
Determinand	Accred.	SOP	Units	LOD
Moisture	N	2030	%	0.020
pH	U	2010		4.0
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010
				0.44
				11
				7.9
				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

Report Information

Key

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SOP	Standard operating procedure
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- 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



Final Report

Report No.: 21-28772-1

Initial Date of Issue: 24-Aug-2021

Client Concept Consultants

Client Address: Unit D, Herald Way
Binley Industrial Estate
Coventry
CV3 2RQ

Contact(s): Kasia Mazerant
Lab
Lynn Griffin

Project 21/3593 GI - Ridgeway Industrial Estate

Quotation No.: Q21-24764 **Date Received:** 19-Aug-2021

Order No.: L2595 **Date Instructed:** 19-Aug-2021

No. of Samples: 10

Turnaround (Wkdays): 5 **Results Due:** 25-Aug-2021

Date Approved: 24-Aug-2021

Approved By:


Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28772	21-28772	21-28772	21-28772	21-28772	21-28772	21-28772	21-28772	21-28772
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263396	1263397	1263398	1263399	1263400	1263401	1263402	1263403	
Order No.: L2595		Client Sample Ref.:		5	7	10	17	23	27	35	43	
		Sample Location:		BH3	BH3	BH3	BH3	BH3	BH3	BH3	BH3	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.70	0.90	1.50	3.50	5.50	7.00	10.00	13.00	
		Bottom Depth (m):			1.20	1.95	3.70	5.95	7.45	10.45	13.45	
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	
Determinand		Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	5.5	11	13	15	16	17	15
pH		U	2010		4.0	10.9	8.4	8.9	8.5	8.0	7.9	8.1
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.48	0.13	0.038	< 0.010	0.12	0.19	0.10

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants	Chemtest Job No.:	21-28772	21-28772
Quotation No.: Q21-24764	Chemtest Sample ID.:	1263404	1263405
Order No.: L2595	Client Sample Ref.:	51	59
	Sample Location:	BH3	BH3
	Sample Type:	SOIL	SOIL
	Top Depth (m):	16.00	19.00
	Bottom Depth (m):	16.45	19.45
	Date Sampled:	18-Aug-2021	18-Aug-2021
Determinand	Accred.	SOP	Units
Moisture	N	2030	%
pH	U	2010	4.0
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l
			0.010
			0.074
			0.043

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

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- D - Broken Container
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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



Final Report

Report No.:	21-28753-1		
Initial Date of Issue:	24-Aug-2021		
Client	Concept Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Ana Gonzalez Kasia Mazerant Lynn Griffin		
Project	21/3593 GI - Ridgeway Industrial Estate		
Quotation No.:	Q21-24764	Date Received:	19-Aug-2021
Order No.:	L2593	Date Instructed:	19-Aug-2021
No. of Samples:	16		
Turnaround (Wkdays):	5	Results Due:	25-Aug-2021
Date Approved:	24-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28753	21-28753	21-28753	21-28753	21-28753	21-28753	21-28753	21-28753	21-28753
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263265	1263266	1263267	1263268	1263269	1263270	1263271	1263272	
Order No.: L2593		Client Sample Ref.:		4	8	10	12	14	17	21	25	
		Sample Location:		BH6	BH6	BH6	BH6	BH6	BH6	BH6	BH6	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.80	1.20	1.50	2.50	3.50	4.50	6.00	7.50	
		Bottom Depth (m):		1.00	1.50	2.00	3.00	4.00	4.95	6.45	7.95	
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	
Determinand		Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	10	4.8	9.1	13	14	13	
pH		U	2010		4.0	8.5	8.9	8.3	7.9	8.0	8.1	
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.23	< 0.010	0.10	0.63	0.75	0.40	

Results - Soil

Project: 21/3593 GI - Ridgeway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-28753	21-28753	21-28753	21-28753	21-28753	21-28753	21-28753	21-28753	21-28753
Quotation No.: Q21-24764		Chemtest Sample ID.:		1263273	1263274	1263275	1263276	1263277	1263278	1263279	1263280	
Order No.: L2593		Client Sample Ref.:		34	42	50	7	4	6	12	13	
		Sample Location:		BH6	BH6	BH6	WS102	WS104	WS104	WS104	WS104	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		11.50	14.50	17.50	1.00	0.50	1.00	3.30	3.60	
		Bottom Depth (m):		11.95	14.95	17.95		0.70	1.20	3.60	4.00	
		Date Sampled:		18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	18-Aug-2021	
Determinand		Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	11	9.1	6.8	7.7	4.3	14	
pH		U	2010		4.0	7.8	8.6	10.5	9.2	8.8	8.4	
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	0.70	0.023	0.26	0.22	< 0.010	0.17	

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

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<	"less than"
>	"greater than"
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- D - Broken Container
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CONCEPT SITE INVESTIGATIONS				Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8					Date Reported: 27/08/2021			
Site Location: GI - Ridgeway Industrial Estate				Client: Ove Arup and Partners							Job No.: 21/3593	
BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH2	U	18	4.00	Firm , orangish brown sandy slightly gravelly CLAY. Gravel is fine to coarse flint	80	>20	1.99	1.54	29	130	65	Plastic
BH2	U	21	5.50	Stiff, extremely closely fissured dark grey slightly sandy slightly micaceous silty CLAY	110	8.0	2.04	1.63	25	190	95	Brittle
BH2	U	24	6.50	Stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY with rare pockets of silty sand	130	5.6	2.03	1.63	25	270	135	Brittle
BH2	U	27	7.50	Stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY with a band of silty sand between 7.62 and 7.73m	150	9.0	2.04	1.64	24	261	131	Brittle with slight plastic deformation
BH2	U	30	8.50	Stiff, extremely closely fissured dark grey slightly sandy slightly micaceous silty CLAY with rare pockets of silty sand	170	7.6	2.03	1.62	25	304	152	Brittle

Remarks: The results reported relate only to the items tested or sampled.

Date - samples received: 16/07/2021

Date - sample testing commenced: 20/08/2021
Checked/Approved by: KM

Date - sample testing completed: 23/08/2021
Date Approved: 27/08/2021

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)





47-49 Brunel Road, London W3 7XR
Tel: 02087401553
Email: Lab@conceptconsultants.co.uk

Form Lab 014

Rev 02/20 02nd October 2020

L:\Concept System\2021\213593 - GI - Ridgeway Industrial Estate\LAB RESULTS\Geotechnical\Concept\213593_TXL (BH02 Part1)

CONCEPT SITE INVESTIGATIONS				Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8					Date Reported: 27/08/2021			
									Job No.: 21/3593			
Site Location: GI - Ridgeway Industrial Estate				Client: Ove Arup and Partners								
BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH2	U	34	10.00	Very stiff, extremely closely fissured dark grey slightly sandy micaceous silty CLAY	200	3.4	2.03	1.62	25	234	117	Brittle
BH2	U	38	11.50	Very stiff, extremely closely fissured dark grey slightly sandy micaceous silty CLAY with rare pyrite nodules (<20mm)	230	5.8	2.02	1.61	25	418	209	Brittle
BH2	U	42	13.00	Very stiff, extremely closely fissured dark grey slightly sandy micaceous silty CLAY with occasional pockets of silty sand	260	5.1	2.02	1.58	28	343	172	Brittle
BH2	U	46	14.50	Very stiff, extremely closely fissured dark grey slightly sandy micaceous silty CLAY	290	6.0	2.02	1.61	25	390	195	Brittle
BH2	U	50	16.00	Stiff, becoming very stiff at 16.18, extremely closely fissured dark grey slightly sandy micaceous silty CLAY with 1No pocket of fine shell fragments (<30mm) at 16.25m	320	6.1	2.02	1.61	25	358	179	Brittle
Remarks: The results reported relate only to the items tested or sampled.												
Date - samples received: 16/07/2021												
Date - sample testing commenced: 20/08/2021				Checked/Approved by: KM								
Date - sample testing completed: 23/08/2021				Date Approved: 27/08/2021								
Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)												
				CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: Lab@conceptconsultants.co.uk					 			

CONCEPT SITE INVESTIGATIONS				Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8					Date Reported: 27/08/2021			
Site Location: GI - Ridgeway Industrial Estate				Client: Ove Arup and Partners							Job No.: 21/3593	
BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m ²	Strain at failure %	Bulk Density Mg/m ³	Dry Density Mg/m ³	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH2	U	54	17.50	Very stiff, extremely closely fissured dark grey slightly sandy micaceous silty CLAY	350	5.2	2.04	1.64	24	457	229	Brittle
BH2	U	58	19.00	Very stiff, extremely closely fissured dark grey slightly micaceous silty CLAY	380	4.2	2.02	1.61	26	457	229	Brittle
BH2	U	62	20.50	Very stiff, extremely closely fissured dark grey slightly micaceous silty CLAY	410	4.0	2.05	1.65	24	416	208	Brittle
BH2	U	66	22.00	Very stiff, extremely closely fissured dark grey slightly micaceous silty CLAY	440	5.7	2.04	1.65	24	661	331	Brittle
BH2	U	70	23.50	Very stiff, extremely closely fissured bluish dark grey slightly micaceous silty CLAY with occasional pyrite nodules (<20mm)	470	6.6	2.03	1.63	25	384	192	Brittle

Remarks: The results reported relate only to the items tested or sampled.

Date - samples received: 16/07/2021	
Date - sample testing commenced: 20/08/2021	Checked/Approved by: KM
Date - sample testing completed: 23/08/2021	Date Approved: 27/08/2021
Approved Signatories: L Griffin LG (QA Technical & Lab Mngt) – K Mazerant KM (Lab Mngt)	



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UKAS
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CONCEPT SITE INVESTIGATIONS				Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8				Date Reported: 27/08/2021				
								Job No.: 21/3593				
Site Location: GI - Ridgeway Industrial Estate				Client: Ove Arup and Partners								
BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH2	U	74	25.00	Very stiff, dark grey slightly sandy slightly micaceous silty CLAY	500	4.2	2.06	1.67	23	459	230	Brittle
BH2	U	78	26.50	Very stiff, slightly sandy slightly micaceous silty CLAY with occasional fine shell fragments	530	8.8	2.14	1.82	18	893	447	Brittle with slight plastic deformation
BH2	U	82	28.00	Stiff, dark grey sandy slightly micaceous silty CLAY with occasional fine shell fragments	560	15.8	2.09	1.73	20	526	263	Brittle with plastic deformation
Remarks: The results reported relate only to the items tested or sampled.												
Date - samples received: 16/07/2021												
Date - sample testing commenced: 24/08/2021				Checked/Approved by: KM								
Date - sample testing completed: 26/08/2021				Date Approved: 27/08/2021								
Approved Signatories: L Griffin LG (QA Technical & Lab Mngt) – K Mazerant KM (Lab Mngt)												
				CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: Lab@conceptconsultants.co.uk				 				

CONCEPT SITE INVESTIGATIONS				Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8					Date Reported: 27/08/2021				
									Job No.: 21/3593				
Site Location: GI - Ridgeway Industrial Estate				Client: Ove Arup and Partners									
BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m ²	Strain at failure %	Bulk Density Mg/m ³	Dry Density Mg/m ³	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments	
BH6	U	17	4.50	Stiff, dark grey slightly micaceous silty CLAY with rare fine pyrite nodules	90	9.7	2.00	1.56	28	154	77	Brittle with slight plastic deformation	
BH6	U	21	6.00	Very stiff, extremely closely fissured dark grey slightly micaceous silty CLAY	120	6.4	2.00	1.58	27	221	111		
BH6	U	25	7.50	Very stiff, extremely closely fissured dark grey slightly sandy slightly micaceous silty CLAY with 1No parting (<2mm) of silty sand at 7.88m	150	7.9	2.05	1.67	23	298	149		Brittle
BH6	U	29	9.50	Very stiff, extremely closely fissured brownish dark grey slightly sandy slightly micaceous silty CLAY with occasional pockets (<40mm) of silty sand	190	7.7	2.02	1.72	17	328	164		
BH6	U	34	11.50	Very stiff, extremely closely fissured dark grey slightly micaceous silty CLAY with a band of claystone between 11.76 and 11.79m	230	3.8	2.00	1.61	24	231	116		Brittle
Remarks: The results reported relate only to the items tested or sampled.													
Date - samples received: 16/07/2021													
Date - sample testing commenced: 24/08/2021				Checked/Approved by: KM									
Date - sample testing completed: 26/08/2021				Date Approved: 27/08/2021									
Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)													
				CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: Lab@conceptconsultants.co.uk					 				

CONCEPT SITE INVESTIGATIONS				Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8					Date Reported: 27/08/2021			
									Job No.: 21/3593			
Site Location: GI - Ridgeway Industrial Estate				Client: Ove Arup and Partners								
BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH6	U	38	13.00	Very stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY	260	6.1	2.04	1.63	25	291	146	Brittle
BH6	U	42	14.50	Very stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY	290	6.2	2.01	1.61	25	314	157	Brittle
BH6	U	46	16.00	Very stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY	320	5.3	2.02	1.61	26	355	178	Brittle
BH6	U	50	17.50	Very stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY with 1No pocket of fine to medium gravel size pyrite nodules (<50mm)	350	1.9	1.98	1.59	25	243	122	Brittle
BH6	U	54	19.00	Very stiff, extremely closely fissured brownish grey slightly sandy slightly micaceous silty CLAY with a band of fine to medium gravel size claystone fragments	380	2.6	2.03	1.62	25	223	112	Brittle
Remarks: The results reported relate only to the items tested or sampled.												
Date - samples received: 16/07/2021												
Date - sample testing commenced: 24/08/2021				Checked/Approved by: KM								
Date - sample testing completed: 26/08/2021				Date Approved: 27/08/2021								
Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)												
				CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: Lab@conceptconsultants.co.uk					 			

12. CHEMICAL LABORATORY TEST RESULTS



Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL

Tel: 01638 606070

Email: info@chemtest.com

Amended Report

Report No.:	21-24033-2		
Initial Date of Issue:	21-Jul-2021	Date of Re-Issue:	03-Aug-2021
Client	Concept Consultants		
Client Address:	Unit D, Herald Way Binley Industrial Estate Coventry CV3 2RQ		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway GI		
Quotation No.:	Q21-24764	Date Received:	14-Jul-2021
Order No.:	CL2968	Date Instructed:	16-Jul-2021
No. of Samples:	4		
Turnaround (Wkdays):	5	Results Due:	22-Jul-2021
Date Approved:	21-Jul-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Gl

Client: Concept Consultants		Chemtest Job No.:		21-24033	21-24033	21-24033	21-24033
Quotation No.: Q21-24764	Chemtest Sample ID.:	1239669	1239672	1239673	1239676	1239676	1239676
	Sample Location:	BH02	BH02	BH02	SOIL	SOIL	SOIL
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.50	2.00	3.00	0.70	0.70	0.70
	Bottom Depth (m):	0.80	2.50	3.50			
	Date Sampled:	13-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021
	Asbestos Lab:	COVENTRY					COVENTRY
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-		-
Asbestos Identification	U	2192		N/A	No Asbestos Detected		No Asbestos Detected
Moisture	N	2030	%	0.020	11	7.4	8.9
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand
pH	M	2010		4.0	9.6	9.0	8.6
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.65	< 0.40	< 0.40
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	9.3	6.5	9.8
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.19	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	15	10	18
Antimony	N	2450	mg/kg	2.0	3.3	< 2.0	< 2.0
Copper	M	2450	mg/kg	0.50	21	5.5	9.9
Mercury	M	2450	mg/kg	0.10	0.13	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	11	8.5	22
Lead	M	2450	mg/kg	0.50	120	7.7	9.5
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	21	20	44
Zinc	M	2450	mg/kg	0.50	98	16	30
Total Organic Carbon	M	2625	%	0.20	1.6	< 0.20	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	34	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	34	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3593 Ridgeway GI

Client: Concept Consultants		Chemtest Job No.:		21-24033	21-24033	21-24033	21-24033
Quotation No.: Q21-24764	Chemtest Sample ID.:	1239669		1239672	1239673	1239676	1239676
	Sample Location:	BH02		BH02	BH02	WS101	WS101
	Sample Type:	SOIL		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.50		2.00	3.00	0.70	0.70
	Bottom Depth (m):	0.80		2.50	3.50		
	Date Sampled:	13-Jul-2021		12-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021
	Asbestos Lab:	COVENTRY				COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	68	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	68	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	100	< 10	< 10
Dichlorodifluoromethane	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Chloromethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Vinyl Chloride	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Bromomethane	M	2760	mg/kg	0.020	< 0.020	< 0.020	
Chloroethane	U	2760	mg/kg	0.0020	< 0.0020	< 0.0020	
Trichlorofluoromethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,1-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,1-Dichloroethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Bromochloromethane	U	2760	mg/kg	0.0050	< 0.0050	< 0.0050	
Trichloromethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Tetrachloromethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,1-Dichloropropene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane	M	2760	mg/kg	0.0020	< 0.0020	< 0.0020	
Trichloroethene	N	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,2-Dichloropropene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Dibromomethane	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Bromodichloromethane	M	2760	mg/kg	0.0050	< 0.0050	< 0.0050	
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010	< 0.010	< 0.010	
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010	< 0.010	< 0.010	
1,1,2-Trichloroethane	M	2760	mg/kg	0.010	< 0.010	< 0.010	
Tetrachloroethene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,3-Dichloropropane	U	2760	mg/kg	0.0020	< 0.0020	< 0.0020	
Dibromochloromethane	U	2760	mg/kg	0.010	< 0.010	< 0.010	
1,2-Dibromoethane	M	2760	mg/kg	0.0050	< 0.0050	< 0.0050	
Chlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020	< 0.0020	< 0.0020	
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway GI

Client: Concept Consultants		Chemtest Job No.:		21-24033	21-24033	21-24033	21-24033
Quotation No.: Q21-24764		Chemtest Sample ID.:		1239669	1239672	1239673	1239676
		Sample Location:		BH02	BH02	BH02	WS101
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	3.00	0.70
		Bottom Depth (m):		0.80	2.50	3.50	
		Date Sampled:		13-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021
		Asbestos Lab:		COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Styrene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Tribromomethane	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Isopropylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Bromobenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,2,3-Trichloropropane	N	2760	mg/kg	0.050	< 0.050	< 0.050	
N-Propylbenzene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
2-Chlorotoluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,3,5-Trimethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
4-Chlorotoluene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Tert-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,2,4-Trimethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Sec-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,3-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
4-Isopropyltoluene	N	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,4-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
N-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,2-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,2-Dibromo-3-Chloropropane	U	2760	mg/kg	0.050	< 0.050	< 0.050	
1,2,4-Trichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
Hexachlorobutadiene	U	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
1,2,3-Trichlorobenzene	U	2760	mg/kg	0.0020	< 0.0020	< 0.0020	
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	
N-Nitrosodimethylamine	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Phenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Chlorophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050	< 0.050	< 0.050	
1,3-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
1,4-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
1,2-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Methylphenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Hexachloroethane	N	2790	mg/kg	0.050	< 0.050	< 0.050	
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050	< 0.050	< 0.050	
4-Methylphenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Nitrobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Isophorone	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Nitrophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2,4-Dimethylphenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	

Results - Soil

Project: 21/3593 Ridgeway Gl

Client: Concept Consultants		Chemtest Job No.:		21-24033	21-24033	21-24033	21-24033
Quotation No.: Q21-24764		Chemtest Sample ID.:		1239669	1239672	1239673	1239676
		Sample Location:		BH02	BH02	SOIL	WS101
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	3.00	0.70
		Bottom Depth (m):		0.80	2.50	3.50	
		Date Sampled:		13-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021
		Asbestos Lab:		COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2,4-Dichlorophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Naphthalene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
4-Chloroaniline	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Hexachlorobutadiene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Methylnaphthalene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Chloronaphthalene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Acenaphthylene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Dimethylphthalate	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2,6-Dinitrotoluene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Acenaphthene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
3-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Dibenzofuran	N	2790	mg/kg	0.050	< 0.050	< 0.050	
4-Chlorophenylphenylether	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2,4-Dinitrotoluene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Fluorene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Diethyl Phthalate	N	2790	mg/kg	0.050	< 0.050	< 0.050	
4-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	< 0.050	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Azobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Hexachlorobenzene	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Pentachlorophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Phenanthrene	N	2790	mg/kg	0.050	0.62	< 0.050	
Anthracene	N	2790	mg/kg	0.050	0.17	< 0.050	
Carbazole	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Fluoranthene	N	2790	mg/kg	0.050	1.2	0.14	
Pyrene	N	2790	mg/kg	0.050	1.4	0.13	
Butylbenzyl Phthalate	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Benzo[a]anthracene	N	2790	mg/kg	0.050	0.82	< 0.050	
Chrysene	N	2790	mg/kg	0.050	0.82	< 0.050	

Results - Soil

Project: 21/3593 Ridgeway GI

Client: Concept Consultants	Chemtest Job No.:		21-24033	21-24033	21-24033	21-24033	21-24033
	Chemtest Sample ID.:		1239669	1239672	1239673	1239676	1239676
Quotation No.: Q21-24764	Sample Location:		BH02	BH02	BH02	WS101	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.50	2.00	3.00	0.70	
	Bottom Depth (m):		0.80	2.50	3.50		
	Date Sampled:		13-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021	
	Asbestos Lab:		COVENTRY			COVENTRY	
Determinand	Accred.	SOP	Units	LOD			
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Benzo[b]fluoranthene	N	2790	mg/kg	0.050	1.1	< 0.050	
Benzo[k]fluoranthene	N	2790	mg/kg	0.050	0.54	< 0.050	
Benzo[a]pyrene	N	2790	mg/kg	0.050	0.88	< 0.050	
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050	0.49	< 0.050	
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050	0.14	< 0.050	
Benzo[g,h,i]perylene	N	2790	mg/kg	0.050	0.56	< 0.050	
4-Nitrophenol	N	2790	mg/kg	0.050	< 0.050	< 0.050	
Naphthalene	M	2800	mg/kg	0.10	0.20	< 0.10	0.10
Acenaphthylene	N	2800	mg/kg	0.10	0.11	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.21	< 0.10	0.13
Fluorene	M	2800	mg/kg	0.10	0.13	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	2.1	< 0.10	0.87
Anthracene	M	2800	mg/kg	0.10	0.54	< 0.10	1.7
Fluoranthene	M	2800	mg/kg	0.10	5.0	< 0.10	1.2
Pyrene	M	2800	mg/kg	0.10	4.4	< 0.10	1.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	2.9	< 0.10	0.50
Chrysene	M	2800	mg/kg	0.10	2.4	< 0.10	0.54
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	3.1	< 0.10	0.62
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	1.1	< 0.10	0.22
Benzo[a]pyrene	M	2800	mg/kg	0.10	3.0	< 0.10	0.57
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	1.6	< 0.10	0.43
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.39	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	1.6	< 0.10	0.37
Total Of 16 PAH's	N	2800	mg/kg	2.0	29	< 2.0	8.4
PCB 81	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 77	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 105	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 114	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 118	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 123	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 126	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 156	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 157	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 167	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 169	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 189	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway GI

Client: Concept Consultants		Chemtest Job No.:		21-24033	21-24033	21-24033	21-24033
Quotation No.: Q21-24764		Chemtest Sample ID.:		1239669	1239672	1239673	1239676
		Sample Location:		BH02	BH02	BH02	WS101
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	3.00	0.70
		Bottom Depth (m):		0.80	2.50	3.50	
		Date Sampled:		13-Jul-2021	12-Jul-2021	12-Jul-2021	12-Jul-2021
		Asbestos Lab:		COVENTRY			COVENTRY
Determinand	Accred.	SOP	Units	LOD			
		N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
Total PCBs (12 Congeners)	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Phenols							

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.
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
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
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane 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.

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



Final Report

Report No.:	21-24231-1		
Initial Date of Issue:	27-Jul-2021		
Client	Concept Consultants		
Client Address:	Unit 8 Warple Mews Warple Way London W3 0RF		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	14-Jul-2021
Order No.:	CL2971	Date Instructed:	20-Jul-2021
No. of Samples:	8		
Turnaround (Wkdays):	5	Results Due:	26-Jul-2021
Date Approved:	27-Jul-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:			21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231
Quotation No.: Q21-24764		Chemtest Sample ID.:			1240631	1240633	1240635	1240636	1240637	1240640	1240643
		Sample Location:			BH06	BH06	BH06	BH02	WS101	WS101	WS102
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.50	1.20	3.70	3.50	1.20	2.50	0.40
		Bottom Depth (m):			0.60	1.50	4.00	4.00			
		Date Sampled:			13-Jul-2021	13-Jul-2021	14-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021
		Asbestos Lab:			DURHAM	DURHAM			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
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
Moisture	N	2030	%	0.020	13	15	22	8.5	22	13	11
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Grey	Brown	Brown
Other Material	N	2040		N/A	Stones	None	None	Stones	None	Roots and Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Gravel	Sand	Sand
pH	M	2010		4.0	10.9	8.6	8.1	9.4	9.2	9.1	8.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.4	0.74	< 0.40	0.84	< 0.40	1.2	1.3
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	49	< 0.50	< 0.50	< 0.50	0.80
Arsenic	M	2450	mg/kg	1.0	13	6.5	230	12	1.7	11	33
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0	9.7	< 1.0	< 1.0	< 1.0	1.6
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	1.8	0.13	< 0.10	< 0.10	0.20
Chromium	M	2450	mg/kg	1.0	13	16	340	16	13	13	17
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0	4.0	2.4	2.0	< 2.0	4.1
Copper	M	2450	mg/kg	0.50	220	150	270	160	770	95	150
Mercury	M	2450	mg/kg	0.10	0.14	< 0.10	0.96	0.79	0.12	0.19	1.9
Nickel	M	2450	mg/kg	0.50	9.2	24	580	11	8.2	8.9	14
Lead	M	2450	mg/kg	0.50	110	18	210	150	150	67	550
Selenium	M	2450	mg/kg	0.20	< 0.20	0.70	4.0	0.22	< 0.20	< 0.20	0.31
Vanadium	U	2450	mg/kg	5.0	13	29	560	27	9.0	23	34
Zinc	M	2450	mg/kg	0.50	60	41	670	76	110	39	160
Total Organic Carbon	M	2625	%	0.20	0.45	0.27	0.20	1.2	0.67	0.41	2.8
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		21-24231		21-24231		21-24231		21-24231		21-24231		21-24231		21-24231		21-24231	
	Quotation No.: Q21-24764	Chemtest Sample ID.:	1240631	BH06	SOIL	1240633	BH06	SOIL	1240635	BH06	SOIL	1240636	BH02	SOIL	1240640	WS101	1240643	WS102
		Sample Location:	BH06	SOIL	1.20	BH06	SOIL	1.50	BH06	SOIL	3.70	BH02	SOIL	3.50	SOIL	2.50	SOIL	SOIL
		Sample Type:	SOIL	SOIL	0.50	SOIL	SOIL	1.20	SOIL	SOIL	4.00	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.50	0.50	0.50	1.20	1.20	1.50	4.00	4.00	4.00	4.00	4.00	4.00	2.50	2.50	0.40	1.20
		Bottom Depth (m):	0.60	0.60	0.60	1.50	1.50	1.50	4.00	4.00	4.00	4.00	4.00	4.00				
		Date Sampled:	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	14-Jul-2021	14-Jul-2021	14-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM							DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	57
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	74
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	74
Dichlorodifluoromethane	U	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Chloromethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Vinyl Chloride	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Bromomethane	M	2760	mg/kg	0.020											< 0.020	< 0.020	< 0.020	
Chloroethane	U	2760	mg/kg	0.0020											< 0.0020	< 0.0020	< 0.0020	
Trichlorofluoromethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,1-Dichloroethene	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,1-Dichloroethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Bromochloromethane	U	2760	mg/kg	0.0050											< 0.0050	< 0.0050	< 0.0050	
Trichloromethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Tetrachloromethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,1-Dichloropropene	U	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane	M	2760	mg/kg	0.0020											< 0.0020	< 0.0020	< 0.0020	
Trichloroethene	N	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,2-Dichloropropane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Dibromomethane	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
Bromodichloromethane	M	2760	mg/kg	0.0050											< 0.0050	< 0.0050	< 0.0050	
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010											< 0.010	< 0.010	< 0.010	
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010											< 0.010	< 0.010	< 0.010	
1,1,2-Trichloroethane	M	2760	mg/kg	0.010											< 0.010	< 0.010	< 0.010	
Tetrachloroethene	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,3-Dichloropropane	U	2760	mg/kg	0.0020											< 0.0020	< 0.0020	< 0.0020	
Dibromochloromethane	U	2760	mg/kg	0.010											< 0.010	< 0.010	< 0.010	
1,2-Dibromoethane	M	2760	mg/kg	0.0050											< 0.0050	< 0.0050	< 0.0050	
Chlorobenzene	M	2760	mg/kg	0.0010											< 0.0010	< 0.0010	< 0.0010	
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020											< 0.0020	< 0.0020	< 0.0020	
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:			21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231
Quotation No.: Q21-24764		Chemtest Sample ID.:			1240631	1240633	1240635	1240636	1240637	1240640	1240643	21-24231
		Sample Location:			BH06	BH06	BH06	BH02	WS101	WS101	WS102	21-24231
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	21-24231
		Top Depth (m):			0.50	1.20	3.70	3.50	1.20	2.50	0.40	21-24231
		Bottom Depth (m):			0.60	1.50	4.00	4.00				21-24231
		Date Sampled:			13-Jul-2021	13-Jul-2021	14-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	21-24231
		Asbestos Lab:			DURHAM	DURHAM			DURHAM	DURHAM	DURHAM	21-24231
Determinand	Accred.	SOP	Units	LOD								
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Styrene	M	2760	mg/kg	0.0010						< 0.0010		
Tribromomethane	U	2760	mg/kg	0.0010						< 0.0010		
Isopropylbenzene	M	2760	mg/kg	0.0010						< 0.0010		
Bromobenzene	M	2760	mg/kg	0.0010						< 0.0010		
1,2,3-Trichloropropane	N	2760	mg/kg	0.050						< 0.050		
N-Propylbenzene	U	2760	mg/kg	0.0010						< 0.0010		
2-Chlorotoluene	M	2760	mg/kg	0.0010						< 0.0010		
1,3,5-Trimethylbenzene	M	2760	mg/kg	0.0010						< 0.0010		
4-Chlorotoluene	U	2760	mg/kg	0.0010						< 0.0010		
Tert-Butylbenzene	U	2760	mg/kg	0.0010						< 0.0010		
1,2,4-Trimethylbenzene	M	2760	mg/kg	0.0010						< 0.0010		
Sec-Butylbenzene	U	2760	mg/kg	0.0010						< 0.0010		
1,3-Dichlorobenzene	M	2760	mg/kg	0.0010						< 0.0010		
4-Isopropyltoluene	N	2760	mg/kg	0.0010						< 0.0010		
1,4-Dichlorobenzene	M	2760	mg/kg	0.0010						< 0.0010		
N-Butylbenzene	U	2760	mg/kg	0.0010						< 0.0010		
1,2-Dichlorobenzene	M	2760	mg/kg	0.0010						< 0.0010		
1,2-Dibromo-3-Chloropropane	U	2760	mg/kg	0.050						< 0.050		
1,2,4-Trichlorobenzene	M	2760	mg/kg	0.0010						< 0.0010		
Hexachlorobutadiene	U	2760	mg/kg	0.0010						< 0.0010		
1,2,3-Trichlorobenzene	U	2760	mg/kg	0.0020						< 0.0020		
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010						< 0.0010		
N-Nitrosodimethylamine	N	2790	mg/kg	0.050						< 0.050		
Phenol	N	2790	mg/kg	0.050						< 0.050		
2-Chlorophenol	N	2790	mg/kg	0.050						< 0.050		
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050						< 0.050		
1,3-Dichlorobenzene	N	2790	mg/kg	0.050						< 0.050		
1,4-Dichlorobenzene	N	2790	mg/kg	0.050						< 0.050		
1,2-Dichlorobenzene	N	2790	mg/kg	0.050						< 0.050		
2-Methylphenol	N	2790	mg/kg	0.050						< 0.050		
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050						< 0.050		
Hexachloroethane	N	2790	mg/kg	0.050						< 0.050		
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050						< 0.050		
4-Methylphenol	N	2790	mg/kg	0.050						< 0.050		
Nitrobenzene	N	2790	mg/kg	0.050						< 0.050		
Isophorone	N	2790	mg/kg	0.050						< 0.050		
2-Nitrophenol	N	2790	mg/kg	0.050						< 0.050		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:				21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231
Quotation No.: Q21-24764		Chemtest Sample ID.:		1240631	1240633	1240635	1240636	1240637	1240640	1240643	1240645	
		Sample Location:		BH06	BH06	BH06	BH02	WS101	WS101	WS102	WS102	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	1.20	3.70	3.50	1.20	2.50	0.40	1.20	
		Bottom Depth (m):		0.60	1.50	4.00	4.00					
		Date Sampled:		13-Jul-2021	13-Jul-2021	14-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	
		Asbestos Lab:		DURHAM	DURHAM			DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD								
2,4-Dimethylphenol	N	2790	mg/kg	0.050					< 0.050			
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050					< 0.050			
2,4-Dichlorophenol	N	2790	mg/kg	0.050					< 0.050			
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050					< 0.050			
Naphthalene	N	2790	mg/kg	0.050					< 0.050			
4-Chloroaniline	N	2790	mg/kg	0.050					< 0.050			
Hexachlorobutadiene	N	2790	mg/kg	0.050					< 0.050			
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050					< 0.050			
2-Methylnaphthalene	N	2790	mg/kg	0.050					< 0.050			
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050					< 0.050			
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050					< 0.050			
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050					< 0.050			
2-Chloronaphthalene	N	2790	mg/kg	0.050					< 0.050			
2-Nitroaniline	N	2790	mg/kg	0.050					< 0.050			
Acenaphthylene	N	2790	mg/kg	0.050					< 0.050			
Dimethylphthalate	N	2790	mg/kg	0.050					< 0.050			
2,6-Dinitrotoluene	N	2790	mg/kg	0.050					< 0.050			
Acenaphthene	N	2790	mg/kg	0.050					< 0.050			
3-Nitroaniline	N	2790	mg/kg	0.050					< 0.050			
Dibenzofuran	N	2790	mg/kg	0.050					< 0.050			
4-Chlorophenylphenylether	N	2790	mg/kg	0.050					< 0.050			
2,4-Dinitrotoluene	N	2790	mg/kg	0.050					< 0.050			
Fluorene	N	2790	mg/kg	0.050					< 0.050			
Diethyl Phthalate	N	2790	mg/kg	0.050					< 0.050			
4-Nitroaniline	N	2790	mg/kg	0.050					< 0.050			
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050					< 0.050			
Azobenzene	N	2790	mg/kg	0.050					< 0.050			
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050					< 0.050			
Hexachlorobenzene	N	2790	mg/kg	0.050					< 0.050			
Pentachlorophenol	N	2790	mg/kg	0.050					< 0.050			
Phenanthrene	N	2790	mg/kg	0.050					0.064			
Anthracene	N	2790	mg/kg	0.050					< 0.050			
Carbazole	N	2790	mg/kg	0.050					< 0.050			
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050					< 0.050			
Fluoranthene	N	2790	mg/kg	0.050					0.17			
Pyrene	N	2790	mg/kg	0.050					0.18			
Butylbenzyl Phthalate	N	2790	mg/kg	0.050					< 0.050			
Benzo[a]anthracene	N	2790	mg/kg	0.050					0.077			

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:				21-24231		21-24231		21-24231		21-24231		21-24231		21-24231		21-24231	
Quotation No.: Q21-24764		Chemtest Sample ID.:		1240631		1240633		1240635		1240636		1240637		1240640		1240643		1240645	
		Sample Location:		BH06		BH06		BH06		BH02		WS101		WS101		WS102		WS102	
		Sample Type:		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Top Depth (m):		0.50		1.20		1.50		3.70		1.20		2.50		0.40		1.20	
		Bottom Depth (m):		0.60		1.50		4.00		4.00									
		Date Sampled:		13-Jul-2021		13-Jul-2021		14-Jul-2021		13-Jul-2021		13-Jul-2021		13-Jul-2021		13-Jul-2021		13-Jul-2021	
		Asbestos Lab:		DURHAM		DURHAM						DURHAM		DURHAM		DURHAM		DURHAM	
Determinand	Accred.	SOP	Units	LOD															
Chrysene	N	2790	mg/kg	0.050										0.14					
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050										< 0.050					
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050										< 0.050					
Benzo[b]fluoranthene	N	2790	mg/kg	0.050										0.28					
Benzo[k]fluoranthene	N	2790	mg/kg	0.050										0.077					
Benzo[a]pyrene	N	2790	mg/kg	0.050										0.17					
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050										0.27					
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050										0.051					
Benzofg,h,iperylene	N	2790	mg/kg	0.050										0.39					
4-Nitrophenol	N	2790	mg/kg	0.050										< 0.050					
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	1.0	< 0.10	< 0.10	0.85	< 0.10	< 0.10	< 0.10	3.6	< 0.10	0.41	< 0.10	0.70	< 0.10	1.1	< 0.10
Anthracene	M	2800	mg/kg	0.10	0.23	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	0.75	< 0.10	0.15	< 0.10	0.11	< 0.10	0.22	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	1.6	0.17	0.17	1.3	< 0.10	< 0.10	< 0.10	5.9	< 0.10	0.22	< 0.10	1.5	< 0.10	1.9	< 0.10
Pyrene	M	2800	mg/kg	0.10	1.3	0.19	0.19	1.0	< 0.10	< 0.10	< 0.10	4.4	< 0.10	0.18	< 0.10	1.2	< 0.10	1.4	< 0.10
Benzofa]anthracene	M	2800	mg/kg	0.10	0.78	0.11	0.11	0.52	< 0.10	< 0.10	< 0.10	2.5	< 0.10	< 0.10	0.80	< 0.10	0.86	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	0.73	0.10	0.10	0.51	< 0.10	< 0.10	< 0.10	2.5	< 0.10	0.13	< 0.10	0.73	< 0.10	0.75	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.93	0.24	0.24	0.65	< 0.10	< 0.10	< 0.10	3.5	< 0.10	< 0.10	1.2	< 0.10	1.2	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.45	0.12	0.12	0.25	< 0.10	< 0.10	< 0.10	1.0	< 0.10	< 0.10	0.52	< 0.10	0.32	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.89	0.22	0.22	0.61	< 0.10	< 0.10	< 0.10	2.6	< 0.10	< 0.10	1.1	< 0.10	0.92	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.61	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10	1.7	< 0.10	< 0.10	0.69	< 0.10	0.62	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.32	< 0.10	< 0.10	0.17	< 0.10	0.14	< 0.10	< 0.10
Benzo[g,h,iperylene	M	2800	mg/kg	0.10	0.63	< 0.10	< 0.10	0.40	< 0.10	< 0.10	< 0.10	1.6	< 0.10	< 0.10	0.75	< 0.10	0.50	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	9.3	< 2.0	< 2.0	6.6	< 2.0	< 2.0	< 2.0	32	< 2.0	< 2.0	9.5	< 2.0	9.9	< 2.0	< 2.0
PCB 81	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 77	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 105	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 114	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 118	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 123	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 126	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 156	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 157	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 167	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB 169	N	2815	mg/kg	0.0010								< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231	21-24231
Quotation No.: Q21-24764		Chemtest Sample ID.:		1240631	1240633	1240635	1240636	1240637	1240640	1240643	1240645		
		Sample Location:		BH06	BH06	BH06	BH02	WS101	WS101	WS102	WS102		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.50	1.20	3.70	3.50	1.20	2.50	0.40	1.20		
		Bottom Depth (m):		0.60	1.50	4.00	4.00						
		Date Sampled:		13-Jul-2021	13-Jul-2021	14-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021	13-Jul-2021		
		Asbestos Lab:		DURHAM	DURHAM			DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	Accred.	SOP	Units	LOD									
	N	2815	mg/kg	0.0010				< 0.0010	< 0.0010	< 0.0010	< 0.0010		
	N	2815	mg/kg	0.0010				< 0.0010	< 0.0010	< 0.0010	< 0.0010		
	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
PCB 189													
Total PCBs (12 Congeners)													
Total Phenols													

Results - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231								Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 1240631											
Sample Ref:											
Sample ID: BH06											
Sample Location: Top Depth(m): 0.50 Bottom Depth(m): 0.60 Sampling Date: 13-Jul-2021											
Determinand	SOP	Accred.	Units	10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
Total Organic Carbon				0.0019	0.019	0.5	2	25			
Loss on Ignition				0.009	0.086	20	100	300			
Total BTEX				< 0.00011	< 0.00011	0.04	1	5			
Total PCBs (7 congeners)				0.0050	0.050	0.5	10	70			
TPH Total WAC (Mineral Oil)				0.0014	0.014	2	50	100			
Total (of 17) PAHs				< 0.00005	< 0.00005	0.01	0.2	2			
pH				0.0065	0.065	0.5	10	30			
Acid Neutralisation Capacity				< 0.0005	< 0.0005	0.4	10	40			
Eluate Analysis				0.0005	0.0005	0.5	10	50			
Arsenic	1455	U		0.0014	0.014	0.01	0.2	2			
Barium	1455	U		0.0065	0.065	0.5	10	30			
Cadmium	1455	U		< 0.0005	< 0.0005	0.4	10	40			
Chromium	1455	U		< 0.0005	< 0.0005	0.5	10	50			
Copper	1455	U		0.0014	0.014	2	50	100			
Mercury	1455	U		< 0.00005	< 0.00005	0.01	0.2	2			
Molybdenum	1455	U		0.0065	0.065	0.5	10	30			
Nickel	1455	U		< 0.0005	< 0.0005	0.4	10	40			
Lead	1455	U		< 0.0005	< 0.0005	0.5	10	50			
Antimony	1455	U		0.0014	0.014	0.06	0.7	5			
Selenium	1455	U		0.0006	0.0065	0.1	0.5	7			
Zinc	1455	U		< 0.003	< 0.003	4	50	200			
Chloride	1220	U		2.4	24	800	15000	25000			
Fluoride	1220	U		0.24	2.4	10	150	500			
Sulphate	1220	U		47	470	1000	20000	50000			
Total Dissolved Solids	1020	N		140	1400	4000	60000	100000			
Phenol Index	1920	U		< 0.030	< 0.30	1	-	-			
Dissolved Organic Carbon	1610	U		5.9	59	500	800	1000			

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231		Sample Location: BH06 Top Depth(m): 1.20 Bottom Depth(m): 1.50 Sampling Date: 13-Jul-2021			Landfill Waste Acceptance Criteria Limits																	
Chemtest Sample ID: 1240633																						
Sample Ref:																						
Sample ID:																						
Sample Location:																						
Top Depth(m):		Inert Waste Landfill			Stable, Non-reactive hazardous waste in non-hazardous Landfill			Hazardous Waste Landfill														
Bottom Depth(m):																						
Sampling Date:																						
Deteriminand																						
SOP																						
Accred.		Units			Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg																	
10:1 Eluate mg/l		10:1 Eluate mg/kg																				
Arsenic		1455			U			0.0004			0.0041			0.5			2			25		
Barium		1455			U			0.021			0.21			20			100			300		
Cadmium		1455			U			< 0.00011			< 0.00011			0.04			1			5		
Chromium		1455			U			< 0.0005			< 0.0005			0.5			10			70		
Copper		1455			U			0.0006			0.0060			2			50			100		
Mercury		1455			U			< 0.00005			< 0.00005			0.01			0.2			2		
Molybdenum		1455			U			0.016			0.16			0.5			10			30		
Nickel		1455			U			< 0.0005			< 0.0005			0.4			10			40		
Lead		1455			U			< 0.0005			< 0.0005			0.5			10			50		
Antimony		1455			U			< 0.0005			< 0.0005			0.06			0.7			5		
Selenium		1455			U			0.0013			0.013			0.1			0.5			7		
Zinc		1455			U			< 0.003			< 0.003			4			50			200		
Chloride		1220			U			1.5			15			800			15000			25000		
Fluoride		1220			U			1.1			11			10			150			500		
Sulphate		1220			U			32			320			1000			20000			50000		
Total Dissolved Solids		1020			N			120			1200			4000			60000			100000		
Phenol Index		1920			U			< 0.030			< 0.30			1			-			-		
Dissolved Organic Carbon		1610			U			6.6			66			500			800			1000		

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

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.

Project: 21/3593 Ridgeway Estate

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231		Landfill Waste Acceptance Criteria							
Chemtest Sample ID: 1240636									
Sample Ref:									
Sample ID: BH02									
Sample Location: 3.50									
Top Depth(m): 4.00		Limits							
Bottom Depth(m): 13-Jul-2021									
Sampling Date:									
Determinand									
SOP									
Units		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill			
Accred.									
10:1 Eluate mg/l								10:1 Eluate mg/kg	
10:1 Eluate mg/l								10:1 Eluate mg/kg	
10:1 Eluate mg/l								10:1 Eluate mg/kg	
Eluate Analysis		Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg							
Arsenic	1455	U	0.0008	0.080	0.5	2	25		
Barium	1455	U	< 0.005	< 0.0005	20	100	300		
Cadmium	1455	U	< 0.00011	< 0.00011	0.04	1	5		
Chromium	1455	U	< 0.0005	< 0.0005	0.5	10	70		
Copper	1455	U	< 0.0005	< 0.0005	2	50	100		
Mercury	1455	U	< 0.00005	< 0.00005	0.01	0.2	2		
Molybdenum	1455	U	0.013	0.13	0.5	10	30		
Nickel	1455	U	0.0009	0.0089	0.4	10	40		
Lead	1455	U	< 0.0005	< 0.0005	0.5	10	50		
Antimony	1455	U	< 0.0005	< 0.0005	0.06	0.7	5		
Selenium	1455	U	< 0.0005	< 0.0005	0.1	0.5	7		
Zinc	1455	U	< 0.003	< 0.003	4	50	200		
Chloride	1220	U	1.3	13	800	15000	25000		
Fluoride	1220	U	0.28	2.8	10	150	500		
Sulphate	1220	U	11	110	1000	20000	50000		
Total Dissolved Solids	1020	N	52	520	4000	60000	100000		
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-		
Dissolved Organic Carbon	1610	U	36	360	500	800	1000		

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231		21-24231 1240637 WS101 1.20 13-Jul-2021			Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 1240637					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref:								
Sample ID:								
Sample Location:								
Top Depth(m):		10:1 Eluate mg/l			Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Bottom Depth(m):								
Sampling Date:								
Determinand								
SOP								
Accred.		Units			10:1 Eluate mg/kg			
Total Organic Carbon								
Loss on Ignition					0.026			
Total BTEX								
Total PCBs (7 congeners)					0.33			
TPH Total WAC (Mineral Oil)								
Total (of 17) PAHs					0.00011			
pH								
Acid Neutralisation Capacity					0.0006			
Eluate Analysis								
Arsenic		1455	U	0.0026	0.026	0.5	2	25
Barium		1455	U	0.033	0.33	20	100	300
Cadmium		1455	U	< 0.00011	< 0.00011	0.04	1	5
Chromium		1455	U	0.0006	0.0064	0.5	10	70
Copper		1455	U	0.0024	0.024	2	50	100
Mercury		1455	U	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum		1455	U	0.013	0.12	0.5	10	30
Nickel		1455	U	< 0.0005	< 0.0005	0.4	10	40
Lead		1455	U	< 0.0005	< 0.0005	0.5	10	50
Antimony		1455	U	0.0010	0.0096	0.06	0.7	5
Selenium		1455	U	< 0.0005	< 0.0005	0.1	0.5	7
Zinc		1455	U	< 0.003	< 0.003	4	50	200
Chloride		1220	U	< 1.0	< 10	800	15000	25000
Fluoride		1220	U	0.17	1.7	10	150	500
Sulphate		1220	U	380	3800	1000	20000	50000
Total Dissolved Solids		1020	N	510	5100	4000	60000	100000
Phenol Index		1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon		1610	U	4.9	< 50	500	800	1000

Solid Information

Dry mass of test portion/kg	
Moisture (%)	

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231		21-24231 1240640 Sample Ref: WS101 Sample Location: Top Depth(m): 2.50 Bottom Depth(m): Sampling Date: 13-Jul-2021				Landfill Waste Acceptance Criteria Limits											
Chemtest Sample ID: 1240640						Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Sample ID: WS101																	
Sample Location: Top Depth(m): Bottom Depth(m): Sampling Date:																	
Determinand		SOP		Accred.		Units											
Total Organic Carbon								3		5		6					
Loss on Ignition								--		--		10					
Total BTEX								6		--		--					
Total PCBs (7 congeners)								1		--		--					
TPH Total WAC (Mineral Oil)								500		--		--					
Total (of 17) PAHs								100		--		--					
pH								--		>6		--					
Acid Neutralisation Capacity								--		To evaluate		To evaluate					
Eluate Analysis								10:1 Eluate mg/l		10:1 Eluate mg/kg		Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
Arsenic		1455		U				0.0018		0.018		0.5		2		25	
Barium		1455		U				< 0.005		< 0.0005		20		100		300	
Cadmium		1455		U				< 0.00011		< 0.00011		0.04		1		5	
Chromium		1455		U				0.0006		0.0057		0.5		10		70	
Copper		1455		U				0.0021		0.021		2		50		100	
Mercury		1455		U				< 0.00005		< 0.00005		0.01		0.2		2	
Molybdenum		1455		U				0.0052		0.052		0.5		10		30	
Nickel		1455		U				< 0.0005		< 0.0005		0.4		10		40	
Lead		1455		U				0.0057		0.057		0.5		10		50	
Antimony		1455		U				< 0.0005		< 0.0005		0.06		0.7		5	
Selenium		1455		U				< 0.0005		< 0.0005		0.1		0.5		7	
Zinc		1455		U				< 0.003		< 0.003		4		50		200	
Chloride		1220		U				< 1.0		< 10		800		15000		25000	
Fluoride		1220		U				0.13		1.3		10		150		500	
Sulphate		1220		U				2.3		23		1000		20000		50000	
Total Dissolved Solids		1020		N				44		430		4000		60000		100000	
Phenol Index		1920		U				< 0.030		< 0.30		1		-		-	
Dissolved Organic Carbon		1610		U				22		220		500		800		1000	

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231				Landfill Waste Acceptance Criteria Limits		
Chemtest Sample ID: 1240643						
Sample Ref: WS102						
Sample Location: 0.40						
Top Depth(m): Bottom Depth(m): Sampling Date: 13-Jul-2021						
Determinand	SOP	Accred.	Units	Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon				3	5	6
Loss on Ignition				---	---	10
Total BTEX				6	---	---
Total PCBs (7 congeners)				1	---	---
TPH Total WAC (Mineral Oil)				500	---	---
Total (of 17) PAHs				100	---	---
pH				---	>6	---
Acid Neutralisation Capacity				---	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.012	0.5	2	25
Barium	1455	U	< 0.005	20	100	300
Cadmium	1455	U	< 0.00011	0.04	1	5
Chromium	1455	U	0.0009	0.5	10	70
Copper	1455	U	0.0026	2	50	100
Mercury	1455	U	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0096	0.5	10	30
Nickel	1455	U	< 0.0005	0.4	10	40
Lead	1455	U	0.0019	0.5	10	50
Antimony	1455	U	0.0007	0.06	0.7	5
Selenium	1455	U	< 0.0005	0.1	0.5	7
Zinc	1455	U	< 0.003	4	50	200
Chloride	1220	U	1.8	800	15000	25000
Fluoride	1220	U	0.63	10	150	500
Sulphate	1220	U	10	1000	20000	50000
Total Dissolved Solids	1020	N	72	4000	60000	100000
Phenol Index	1920	U	< 0.030	1	-	-
Dissolved Organic Carbon	1610	U	9.7	500	800	1000

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24231		Landfill Waste Acceptance Criteria Limits			Hazardous Waste Landfill	
Chemtest Sample ID: 1240645						
Sample Ref: WS102						
Sample Location: 1.20						
Sampling Date: 13-Jul-2021						
Determinand	SOP	Accred.	Units	Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	
Total Organic Carbon				3	5	6
Loss on Ignition				---	---	10
Total BTEX				6	---	---
Total PCBs (7 congeners)				1	---	---
TPH Total WAC (Mineral Oil)				500	---	---
Total (of 17) PAHs				100	---	---
pH				--	>6	---
Acid Neutralisation Capacity				---	To evaluate	To evaluate
Eluate Analysis				Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.016	0.16	0.5	25
Barium	1455	U	0.010	0.10	20	300
Cadmium	1455	U	< 0.00011	< 0.00011	0.04	5
Chromium	1455	U	0.0011	0.011	0.5	70
Copper	1455	U	0.0040	0.040	2	100
Mercury	1455	U	0.00007	0.00066	0.01	2
Molybdenum	1455	U	0.017	0.17	0.5	30
Nickel	1455	U	< 0.0005	< 0.0005	0.4	40
Lead	1455	U	0.0053	0.053	0.5	50
Antimony	1455	U	0.0019	0.019	0.06	5
Selenium	1455	U	< 0.0005	< 0.0005	0.1	7
Zinc	1455	U	< 0.003	< 0.003	4	200
Chloride	1220	U	6.8	68	800	25000
Fluoride	1220	U	0.68	6.8	10	500
Sulphate	1220	U	7.9	79	1000	50000
Total Dissolved Solids	1020	N	85	840	4000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-
Dissolved Organic Carbon	1610	U	32	320	500	1000

Solid Information

Dry mass of test portion/kg	
Moisture (%)	

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.

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
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.
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
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
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: 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	Compliance Test 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 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



Final Report

Report No.:	21-24339-1		
Initial Date of Issue:	26-Jul-2021		
Client	Concept Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Ana Gonzales Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	16-Jul-2021
Order No.:	CL2972	Date Instructed:	20-Jul-2021
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	26-Jul-2021
Date Approved:	26-Jul-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24339	21-24339	21-24339
Quotation No.: Q21-24764		Chemtest Sample ID.:		1241119	1241121	1241122
		Sample Location:		WS103	WS103	WS103
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.8	2.3	2.8
		Bottom Depth (m):		1.0	2.6	3.0
		Date Sampled:		14-Jul-2021	14-Jul-2021	14-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	Fibres/Clumps
Asbestos Identification	U	2192		N/A	No Asbestos Detected	Amosite
Asbestos by Gravimetry	U	2192	%	0.001		0.002
Total Asbestos	U	2192	%	0.001		0.002
Moisture	N	2030	%	0.020	10	16
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand
pH	M	2010		4.0	10.3	9.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.80	1.3
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	18	12
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.18	0.10
Chromium	M	2450	mg/kg	1.0	22	16
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0
Copper	M	2450	mg/kg	0.50	51	34
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	14	7.9
Lead	M	2450	mg/kg	0.50	30	20
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	28	17
Zinc	M	2450	mg/kg	0.50	60	39
Total Organic Carbon	M	2625	%	0.20	0.48	4.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	140	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	1100	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	530	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	1700	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24339	21-24339	21-24339
Quotation No.: Q21-24764		Chemtest Sample ID.:		1241119	1241121	1241122
	Sample Location:		WS103	WS103	WS103	WS103
	Sample Type:		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.8	2.3	2.8	2.8
	Bottom Depth (m):		1.0	2.6	3.0	3.0
	Date Sampled:		14-Jul-2021	14-Jul-2021	14-Jul-2021	14-Jul-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	480	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	480	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	2200	< 10
Dichlorodifluoromethane	U	2760	mg/kg	0.0010	< 0.0010	
Chloromethane	M	2760	mg/kg	0.0010	< 0.0010	
Vinyl Chloride	M	2760	mg/kg	0.0010	< 0.0010	
Bromomethane	M	2760	mg/kg	0.020	< 0.020	
Chloroethane	U	2760	mg/kg	0.0020	< 0.0020	
Trichlorofluoromethane	M	2760	mg/kg	0.0010	< 0.0010	
1,1-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	
1,1-Dichloroethane	M	2760	mg/kg	0.0010	< 0.0010	
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	
Bromochloromethane	U	2760	mg/kg	0.0050	< 0.0050	
Trichloromethane	M	2760	mg/kg	0.0010	< 0.0010	
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010	< 0.0010	
Tetrachloromethane	M	2760	mg/kg	0.0010	< 0.0010	
1,1-Dichloropropene	U	2760	mg/kg	0.0010	< 0.0010	
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane	M	2760	mg/kg	0.0020	< 0.0020	
Trichloroethene	N	2760	mg/kg	0.0010	< 0.0010	
1,2-Dichloropropane	M	2760	mg/kg	0.0010	< 0.0010	
Dibromomethane	M	2760	mg/kg	0.0010	< 0.0010	
Bromodichloromethane	M	2760	mg/kg	0.0050	< 0.0050	
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010	< 0.010	
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010	< 0.010	
1,1,2-Trichloroethane	M	2760	mg/kg	0.010	< 0.010	
Tetrachloroethene	M	2760	mg/kg	0.0010	< 0.0010	
1,3-Dichloropropane	U	2760	mg/kg	0.0020	< 0.0020	
Dibromochloromethane	U	2760	mg/kg	0.010	< 0.010	
1,2-Dibromoethane	M	2760	mg/kg	0.0050	< 0.0050	
Chlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020	< 0.0020	

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:				21-24339	21-24339	21-24339
Quotation No.: Q21-24764		Chemtest Sample ID.:		1241119		1241121	1241121	1241122
		Sample Location:		WS103		WS103	WS103	WS103
		Sample Type:		SOIL		SOIL	SOIL	SOIL
		Top Depth (m):		0.8		2.3	2.3	2.8
		Bottom Depth (m):		1.0		2.6	2.6	3.0
		Date Sampled:		14-Jul-2021		14-Jul-2021	14-Jul-2021	14-Jul-2021
		Asbestos Lab:		DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Styrene	M	2760	mg/kg	0.0010	< 0.0010			
Tribromomethane	U	2760	mg/kg	0.0010	< 0.0010			
Isopropylbenzene	M	2760	mg/kg	0.0010	< 0.0010			
Bromobenzene	M	2760	mg/kg	0.0010	< 0.0010			
1,2,3-Trichloropropane	N	2760	mg/kg	0.050	< 0.050			
N-Propylbenzene	U	2760	mg/kg	0.0010	< 0.0010			
2-Chlorotoluene	M	2760	mg/kg	0.0010	< 0.0010			
1,3,5-Trimethylbenzene	M	2760	mg/kg	0.0010	< 0.0010			
4-Chlorotoluene	U	2760	mg/kg	0.0010	< 0.0010			
Tert-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010			
1,2,4-Trimethylbenzene	M	2760	mg/kg	0.0010	< 0.0010			
Sec-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010			
1,3-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010			
4-Isopropyltoluene	N	2760	mg/kg	0.0010	< 0.0010			
1,4-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010			
N-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010			
1,2-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010			
1,2-Dibromo-3-Chloropropane	U	2760	mg/kg	0.050	< 0.050			
1,2,4-Trichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010			
Hexachlorobutadiene	U	2760	mg/kg	0.0010	< 0.0010			
1,2,3-Trichlorobenzene	U	2760	mg/kg	0.0020	< 0.0020			
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010	< 0.0010			
N-Nitrosodimethylamine	N	2790	mg/kg	0.050	< 0.050			
Phenol	N	2790	mg/kg	0.050	< 0.050			
2-Chlorophenol	N	2790	mg/kg	0.050	< 0.050			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050	< 0.050			
1,3-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050			
1,4-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050			
1,2-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050			
2-Methylphenol	N	2790	mg/kg	0.050	< 0.050			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050	< 0.050			
Hexachloroethane	N	2790	mg/kg	0.050	< 0.050			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050	< 0.050			
4-Methylphenol	N	2790	mg/kg	0.050	< 0.050			
Nitrobenzene	N	2790	mg/kg	0.050	< 0.050			

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24339	21-24339	21-24339
Quotation No.: Q21-24764		Chemtest Sample ID.:		1241119	1241121	1241122
		Sample Location:		WS103	WS103	WS103
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.8	2.3	2.8
		Bottom Depth (m):		1.0	2.6	3.0
		Date Sampled:		14-Jul-2021	14-Jul-2021	14-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Isophorone	N	2790	mg/kg	0.050	< 0.050	
2-Nitrophenol	N	2790	mg/kg	0.050	< 0.050	
2,4-Dimethylphenol	N	2790	mg/kg	0.050	< 0.050	
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050	< 0.050	
2,4-Dichlorophenol	N	2790	mg/kg	0.050	< 0.050	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050	< 0.050	
Naphthalene	N	2790	mg/kg	0.050	< 0.050	
4-Chloroaniline	N	2790	mg/kg	0.050	< 0.050	
Hexachlorobutadiene	N	2790	mg/kg	0.050	< 0.050	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050	< 0.050	
2-Methylnaphthalene	N	2790	mg/kg	0.050	< 0.050	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050	< 0.050	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050	< 0.050	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050	< 0.050	
2-Chloronaphthalene	N	2790	mg/kg	0.050	< 0.050	
2-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	
Acenaphthylene	N	2790	mg/kg	0.050	< 0.050	
Dimethylphthalate	N	2790	mg/kg	0.050	< 0.050	
2,6-Dinitrotoluene	N	2790	mg/kg	0.050	< 0.050	
Acenaphthene	N	2790	mg/kg	0.050	< 0.050	
3-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	
Dibenzofuran	N	2790	mg/kg	0.050	< 0.050	
4-Chlorophenylphenylether	N	2790	mg/kg	0.050	< 0.050	
2,4-Dinitrotoluene	N	2790	mg/kg	0.050	< 0.050	
Fluorene	N	2790	mg/kg	0.050	< 0.050	
Diethyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
4-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050	< 0.050	
Azobenzene	N	2790	mg/kg	0.050	< 0.050	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050	< 0.050	
Hexachlorobenzene	N	2790	mg/kg	0.050	< 0.050	
Pentachlorophenol	N	2790	mg/kg	0.050	< 0.050	
Phenanthrene	N	2790	mg/kg	0.050	< 0.050	
Anthracene	N	2790	mg/kg	0.050	< 0.050	
Carbazole	N	2790	mg/kg	0.050	< 0.050	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
Fluoranthene	N	2790	mg/kg	0.050	< 0.050	
Pyrene	N	2790	mg/kg	0.050	< 0.050	

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24339	21-24339	21-24339
Quotation No.: Q21-24764		Chemtest Sample ID.:		1241119	1241121	1241122
		Sample Location:		WS103	WS103	WS103
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.8	2.3	2.8
		Bottom Depth (m):		1.0	2.6	3.0
		Date Sampled:		14-Jul-2021	14-Jul-2021	14-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Butylbenzyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
Benzof[anthracene	N	2790	mg/kg	0.050	< 0.050	
Chrysene	N	2790	mg/kg	0.050	< 0.050	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050	< 0.050	
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
Benzob[fluoranthene	N	2790	mg/kg	0.050	< 0.050	
Benzok[fluoranthene	N	2790	mg/kg	0.050	< 0.050	
Benzofalpyrene	N	2790	mg/kg	0.050	< 0.050	
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050	< 0.050	
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050	< 0.050	
Benzofg,h,i]perylene	N	2790	mg/kg	0.050	< 0.050	
4-Nitrophenol	N	2790	mg/kg	0.050	< 0.050	
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	0.41	1.1
Anthracene	M	2800	mg/kg	0.10	0.15	0.22
Fluoranthene	M	2800	mg/kg	0.10	0.22	1.9
Pyrene	M	2800	mg/kg	0.10	0.18	1.4
Benzof[anthracene	M	2800	mg/kg	0.10	< 0.10	0.86
Chrysene	M	2800	mg/kg	0.10	0.13	0.75
Benzob[fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.2
Benzok[fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.52
Benzofalpyrene	M	2800	mg/kg	0.10	< 0.10	1.1
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	0.69
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	0.17
Benzofg,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	0.75
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	10
PCB 81	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 77	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 105	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 114	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 118	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 123	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 126	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 156	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 157	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24339	21-24339	21-24339
Quotation No.: Q21-24764		Chemtest Sample ID.:		1241121	1241121	1241122
		Sample Location:		WS103	WS103	WS103
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.8	2.3	2.8
		Bottom Depth (m):		1.0	2.6	3.0
		Date Sampled:		14-Jul-2021	14-Jul-2021	14-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
PCB 167	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 169	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 189	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
Total PCBs (12 Congeners)	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24339		Chemtest Sample ID: 1241119 Sample Ref: WS103 Sample Location: 0.8 Top Depth(m): 1.0 Bottom Depth(m): 14-Jul-2021 Sampling Date:		SOP Accred. Units		Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable, Non-reactive hazardous waste in non-hazardous Landfill Hazardous Waste Landfill		
Determinand								
Total Organic Carbon								
Loss on Ignition								
Total BTEX								
Total PCBs (7 congeners)						3	5	6
TPH Total WAC (Mineral Oil)						--	--	10
Total (of 17) PAHs						6	--	--
pH						1	--	--
Acid Neutralisation Capacity						500	--	--
Eluate Analysis						100	--	--
						--	>6	To evaluate
						--	To evaluate	To evaluate
						Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	10:1 Eluate mg/l	10:1 Eluate mg/kg	0.5	2	25	
Barium	1455	U	0.0075	0.075	20	100	300	
Cadmium	1455	U	0.006	0.056	0.04	1	5	
Chromium	1455	U	<0.00011	<0.00011	0.5	10	70	
Copper	1455	U	0.0060	0.060	2	50	100	
Mercury	1455	U	0.12	0.12	0.01	0.2	2	
Molybdenum	1455	U	<0.00005	<0.00005	0.5	10	30	
Nickel	1455	U	0.0018	0.018	0.4	10	40	
Lead	1455	U	0.0012	0.012	0.5	10	50	
Antimony	1455	U	0.0010	0.0096	0.06	0.7	5	
Selenium	1455	U	0.0013	0.013	0.1	0.5	7	
Zinc	1455	U	<0.0005	<0.0005	4	50	200	
Chloride	1220	U	<0.003	<0.003	800	15000	25000	
Fluoride	1220	U	6.9	69	10	150	500	
Sulphate	1220	U	0.33	3.3	1000	20000	50000	
Total Dissolved Solids	1020	N	22	220	4000	60000	100000	
Phenol Index	1920	U	140	1400	1	--	--	
Dissolved Organic Carbon	1610	U	<0.030	<0.30	500	800	1000	

Solid Information

Dry mass of test portion/kg	
Moisture (%)	

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24339					
Chemtest Sample ID: 1241121					
Sample Ref:					
Sample ID: WS103					
Sample Location: 2.3					
Top Depth(m): 2.6					
Bottom Depth(m): 14-Jul-2021					
Sampling Date:					
Determinand	SOP	Accred.	Units		
Total Organic Carbon					
Loss on Ignition					
Total BTEX					
Total PCBs (7 congeners)					
TPH Total WAC (Mineral Oil)					
Total (of 17) PAHs					
pH					
Acid Neutralisation Capacity					
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg
Arsenic	1455	U	0.024	0.24	0.5
Barium	1455	U	0.024	0.24	20
Cadmium	1455	U	< 0.00011	< 0.00011	0.04
Chromium	1455	U	0.0031	0.032	0.5
Copper	1455	U	0.027	0.26	2
Mercury	1455	U	0.00006	0.00061	0.01
Molybdenum	1455	U	0.010	0.10	0.5
Nickel	1455	U	0.0016	0.016	0.4
Lead	1455	U	0.0044	0.044	0.5
Antimony	1455	U	0.0086	0.087	0.06
Selenium	1455	U	0.0008	0.0082	0.1
Zinc	1455	U	< 0.003	< 0.003	4
Chloride	1220	U	9.5	95	800
Fluoride	1220	U	0.11	1.1	10
Sulphate	1220	U	22	220	1000
Total Dissolved Solids	1020	N	110	1100	4000
Phenol Index	1920	U	< 0.030	< 0.30	1
Dissolved Organic Carbon	1610	U	25	250	500

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24339		21-24339 1241122			WS103 2.8 3.0 14-Jul-2021						Landfill Waste Acceptance Criteria Limits				
Chemtest Sample ID: 1241122															
Sample Ref:															
Sample Location: WS103															
Top Depth(m): 2.8															
Bottom Depth(m): 3.0															
Sampling Date: 14-Jul-2021															
Determinand		SOP		Accred.		Units									
Total Organic Carbon															
Loss on Ignition															
Total BTEX															
Total PCBs (7 congeners)															
TPH Total WAC (Mineral Oil)															
Total (of 17) PAHs															
pH															
Acid Neutralisation Capacity															
Eluate Analysis						10:1 Eluate mg/l		10:1 Eluate mg/kg		Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
Arsenic		1455		U		0.043		0.43		0.5		2		25	
Barium		1455		U		0.023		0.23		20		100		300	
Cadmium		1455		U		0.00044		0.0044		0.04		1		5	
Chromium		1455		U		0.0026		0.026		0.5		10		70	
Copper		1455		U		0.0086		0.086		2		50		100	
Mercury		1455		U		0.00047		0.0047		0.01		0.2		2	
Molybdenum		1455		U		0.019		0.19		0.5		10		30	
Nickel		1455		U		0.0029		0.030		0.4		10		40	
Lead		1455		U		0.014		0.14		0.5		10		50	
Antimony		1455		U		0.011		0.11		0.06		0.7		5	
Selenium		1455		U		0.0079		0.079		0.1		0.5		7	
Zinc		1455		U		0.025		0.25		4		50		200	
Chloride		1220		U		8.3		83		800		15000		25000	
Fluoride		1220		U		0.58		5.8		10		150		500	
Sulphate		1220		U		16		160		1000		20000		50000	
Total Dissolved Solids		1020		N		110		1100		4000		60000		100000	
Phenol Index		1920		U		< 0.030		< 0.30		1		-		-	
Dissolved Organic Carbon		1610		U		18		180		500		800		1000	

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

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.

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
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.
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
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
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
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: 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	Compliance Test 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 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



Final Report

Report No.:	21-24622-1		
Initial Date of Issue:	27-Jul-2021		
Client	Concept Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Ana Gonzales Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	19-Jul-2021
Order No.:	CL2979	Date Instructed:	21-Jul-2021
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	27-Jul-2021
Date Approved:	27-Jul-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24622	21-24622	21-24622
Quotation No.: Q21-24764		Chemtest Sample ID.:		1242391	1242393	1242394
		Sample Location:		WS110	WS110	WS110
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.70	1.80	2.60
		Date Sampled:		16-Jul-2021	16-Jul-2021	16-Jul-2021
		Asbestos Lab:		COVENTRY		
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	
Moisture	N	2030	%	0.020	10	5.6
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand
pH	M	2010		4.0	8.5	8.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.41	< 0.40
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	9.9	8.1
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	26	14
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0
Copper	M	2450	mg/kg	0.50	10	7.6
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	19	13
Lead	M	2450	mg/kg	0.50	45	9.8
Selenium	M	2450	mg/kg	0.20	< 0.20	0.22
Vanadium	U	2450	mg/kg	5.0	34	21
Zinc	M	2450	mg/kg	0.50	140	18
Total Organic Carbon	M	2625	%	0.20	< 0.20	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24622	21-24622	21-24622
Quotation No.: Q21-24764		Chemtest Sample ID.:		1242391	1242393	1242394
		Sample Location:		WS110	WS110	WS110
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.70	1.80	2.60
		Date Sampled:		16-Jul-2021	16-Jul-2021	16-Jul-2021
		Asbestos Lab:		COVENTRY		
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Total Petroleum Hydrocarbons	N	2680	mg/kg	0.0010	< 0.0010	< 0.0010
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	1.4	0.15
Pyrene	M	2800	mg/kg	0.10	1.2	0.15
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.44	< 0.10
Chrysene	M	2800	mg/kg	0.10	0.40	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.54	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.19	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.47	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	5.7	< 2.0
PCB 81	N	2815	mg/kg	0.0010	< 0.0010	
PCB 77	N	2815	mg/kg	0.0010	< 0.0010	
PCB 105	N	2815	mg/kg	0.0010	< 0.0010	
PCB 114	N	2815	mg/kg	0.0010	< 0.0010	
PCB 118	N	2815	mg/kg	0.0010	< 0.0010	
PCB 123	N	2815	mg/kg	0.0010	< 0.0010	
PCB 126	N	2815	mg/kg	0.0010	< 0.0010	
PCB 156	N	2815	mg/kg	0.0010	< 0.0010	
PCB 157	N	2815	mg/kg	0.0010	< 0.0010	
PCB 167	N	2815	mg/kg	0.0010	< 0.0010	
PCB 169	N	2815	mg/kg	0.0010	< 0.0010	
PCB 189	N	2815	mg/kg	0.0010	< 0.0010	
Total PCBs (12 Congeners)	N	2815	mg/kg	0.0010	< 0.0010	
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24622		21-24622 1242391 WS110 0.70 16-Jul-2021			Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 1242391								
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID:								
Sample Location: Top Depth(m): Bottom Depth(m): Sampling Date:								
Sample Ref:		21-24622 1242391			Landfill Waste Acceptance Criteria Limits			
Sample ID:		WS110 0.70			Inert Waste Landfill			
Sample Location:		Top Depth(m): Bottom Depth(m): Sampling Date:			Stable, Non-reactive hazardous waste in non-hazardous Landfill			
Top Depth(m):		16-Jul-2021			Hazardous Waste Landfill			
Bottom Depth(m):								
Sampling Date:								
Determinand		SOP	Accred.	Units				
Total Organic Carbon								
Loss on Ignition								
Total BTEX								
Total PCBs (7 congeners)								
TPH Total WAC (Mineral Oil)								
Total (of 17) PAHs								
pH								
Acid Neutralisation Capacity								
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic		1455	U	0.0010	0.010	0.5	2	25
Barium		1455	U	0.007	0.068	20	100	300
Cadmium		1455	U	< 0.00011	< 0.00011	0.04	1	5
Chromium		1455	U	< 0.0005	< 0.0005	0.5	10	70
Copper		1455	U	0.0007	0.0068	2	50	100
Mercury		1455	U	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum		1455	U	0.0068	0.068	0.5	10	30
Nickel		1455	U	< 0.0005	< 0.0005	0.4	10	40
Lead		1455	U	< 0.0005	< 0.0005	0.5	10	50
Antimony		1455	U	< 0.0005	< 0.0005	0.06	0.7	5
Selenium		1455	U	0.0006	0.0064	0.1	0.5	7
Zinc		1455	U	< 0.003	< 0.003	4	50	200
Chloride		1220	U	< 1.0	< 10	800	15000	25000
Fluoride		1220	U	0.90	9.0	10	150	500
Sulphate		1220	U	59	590	1000	20000	50000
Total Dissolved Solids		1020	N	160	1600	4000	60000	100000
Phenol Index		1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon		1610	U	4.4	< 50	500	800	1000

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24622		Landfill Waste Acceptance Criteria Limits		To evaluate	To evaluate
Chemtest Sample ID: 1242393					
Sample Ref:					
Sample ID:					
Sample Location:					
Top Depth(m): 1.80		Inert Waste Landfill		Stable, Non- reactive hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill
Bottom Depth(m):		5		3	6
Sampling Date: 16-Jul-2021		6		--	10
Determinand		Units			
SOP		Accred.			
Total Organic Carbon					
Loss on Ignition					
Total BTEX					
Total PCBs (7 congeners)					
TPH Total WAC (Mineral Oil)					
Total (of 17) PAHs					
pH					
Acid Neutralisation Capacity					
Eluate Analysis		10:1 Eluate mg/l		10:1 Eluate mg/kg	
Arsenic		1455		0.012	
Barium		1455		< 0.0005	
Cadmium		1455		< 0.00011	
Chromium		1455		< 0.0005	
Copper		1455		< 0.0005	
Mercury		1455		< 0.00005	
Molybdenum		1455		0.054	
Nickel		1455		< 0.0005	
Lead		1455		< 0.0005	
Antimony		1455		< 0.0005	
Selenium		1455		0.0068	
Zinc		1455		< 0.003	
Chloride		1220		< 10	
Fluoride		1220		2.5	
Sulphate		1220		28	
Total Dissolved Solids		1020		840	
Phenol Index		1920		< 0.30	
Dissolved Organic Carbon		1610		110	
				25	
				300	
				5	
				70	
				100	
				2	
				0.01	
				0.5	
				10	
				40	
				50	
				7	
				200	
				25000	
				500	
				50000	
				100000	
				-	
				1000	

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24622		Landfill Waste Acceptance Criteria Limits		Hazardous Waste Landfill	
Chemtest Sample ID: 1242394					
Sample Ref:					
Sample ID: WS110					
Sample Location: 2.60					
Top Depth(m):		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	
Bottom Depth(m):					
Sampling Date: 16-Jul-2021					
Determinand					
SOP					
Units		Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		To evaluate	
Total Organic Carbon					
Loss on Ignition					
Total BTEX					
Total PCBs (7 congeners)					
TPH Total WAC (Mineral Oil)		10:1 Eluate mg/kg		To evaluate	
Total (of 17) PAHs					
pH					
Acid Neutralisation Capacity					
Eluate Analysis					
10:1 Eluate mg/l		10:1 Eluate mg/kg		To evaluate	
Arsenic					
Barium					
Cadmium					
Chromium					
Copper		10:1 Eluate mg/kg		To evaluate	
Mercury					
Molybdenum					
Nickel					
Lead					
Antimony		10:1 Eluate mg/kg		To evaluate	
Selenium					
Zinc					
Chloride					
Fluoride					
Sulphate		10:1 Eluate mg/kg		To evaluate	
Total Dissolved Solids					
Phenol Index					
Dissolved Organic Carbon					

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

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.

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
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.
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
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.
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
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.

Test Methods

SOP	Title	Parameters included	Method summary
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test 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 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



Final Report

Report No.:	21-24630-1		
Initial Date of Issue:	27-Jul-2021		
Client	Concept Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Ana Gonzales Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	19-Jul-2021
Order No.:	CL2979	Date Instructed:	21-Jul-2021
No. of Samples:	4		
Turnaround (Wkdays):	5	Results Due:	27-Jul-2021
Date Approved:	27-Jul-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24630	21-24630	21-24630	21-24630
Quotation No.: Q21-24764		Chemtest Sample ID.:		1242422	1242424	1242431	1242432
		Sample Location:		WS104	WS104	BH03	BH03
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	1.35	0.40	0.90
		Bottom Depth (m):		0.70	1.55		1.20
		Date Sampled:		15-Jul-2021	15-Jul-2021	16-Jul-2021	16-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	Fibres/Clumps	-	-
Asbestos Identification	U	2192		N/A	Amosite Chrysotile	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001	<0.001		
Total Asbestos	U	2192	%	0.001	<0.001		
Moisture	N	2030	%	0.020	8.5	9.9	11
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand
pH	M	2010		4.0	9.6	9.4	8.3
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.89	0.96	1.7
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	32	24	13
Beryllium	U	2450	mg/kg	1.0	1.7	< 1.0	3.4
Cadmium	M	2450	mg/kg	0.10	0.83	0.24	0.45
Chromium	M	2450	mg/kg	1.0	34	23	27
Antimony	N	2450	mg/kg	2.0	4.9	5.3	< 2.0
Copper	M	2450	mg/kg	0.50	110	130	35
Mercury	M	2450	mg/kg	0.10	0.64	0.75	0.21
Nickel	M	2450	mg/kg	0.50	34	24	18
Lead	M	2450	mg/kg	0.50	420	220	230
Selenium	M	2450	mg/kg	0.20	< 0.20	0.30	< 0.20
Vanadium	U	2450	mg/kg	5.0	50	41	30
Zinc	M	2450	mg/kg	0.50	210	160	100
Total Organic Carbon	M	2625	%	0.20	2.8	0.73	0.84
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	320	< 1.0	350
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	320	< 5.0	480
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		21-24630		21-24630		21-24630	
	Chemtest Sample ID.:		1242422		1242424		1242431	
Quotation No.: Q21-24764	Sample Location:		WS104		WS104		BH03	
	Sample Type:		SOIL		SOIL		SOIL	
	Top Depth (m):		0.50		1.35		0.40	
	Bottom Depth (m):		0.70		1.55		1.20	
	Date Sampled:		15-Jul-2021		15-Jul-2021		16-Jul-2021	
	Asbestos Lab:		DURHAM		DURHAM		DURHAM	
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	7.3	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	290	< 1.0	320	160
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	290	< 5.0	320	160
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	610	< 10	800	6100
Dichlorodifluoromethane	U	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Chloromethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Vinyl Chloride	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Bromomethane	M	2760	mg/kg	0.020			< 0.020	< 0.020
Chloroethane	U	2760	mg/kg	0.0020			< 0.0020	< 0.0020
Trichlorofluoromethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,1-Dichloroethene	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,1-Dichloroethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Bromochloromethane	U	2760	mg/kg	0.0050			< 0.0050	< 0.0050
Trichloromethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Tetrachloromethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,1-Dichloropropene	U	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	0.0026
1,2-Dichloroethane	M	2760	mg/kg	0.0020			< 0.0020	< 0.0020
Trichloroethene	N	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,2-Dichloropropane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Dibromomethane	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
Bromodichloromethane	M	2760	mg/kg	0.0050			< 0.0050	< 0.0050
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010			< 0.010	< 0.010
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	0.0029
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010			< 0.010	< 0.010
1,1,2-Trichloroethane	M	2760	mg/kg	0.010			< 0.010	< 0.010
Tetrachloroethene	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,3-Dichloropropane	U	2760	mg/kg	0.0020			< 0.0020	< 0.0020
Dibromochloromethane	U	2760	mg/kg	0.010			< 0.010	< 0.010
1,2-Dibromoethane	M	2760	mg/kg	0.0050			< 0.0050	< 0.0050
Chlorobenzene	M	2760	mg/kg	0.0010			< 0.0010	< 0.0010
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020			< 0.0020	< 0.0020
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants Quotation No.: Q21-24764	Chemtest Job No.:		21-24630	21-24630	21-24630	21-24630
	Chemtest Sample ID.:		1242422	1242424	1242431	1242432
	Sample Location:		WS104	WS104	BH03	BH03
	Sample Type:		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.50	1.35	0.40	0.90
	Bottom Depth (m):		0.70	1.55		1.20
	Date Sampled:		15-Jul-2021	15-Jul-2021	16-Jul-2021	16-Jul-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Styrene	M	2760	mg/kg	0.0010		< 0.0010
Tribromomethane	U	2760	mg/kg	0.0010		< 0.0010
Isopropylbenzene	M	2760	mg/kg	0.0010		0.0047
Bromobenzene	M	2760	mg/kg	0.0010		< 0.0010
1,2,3-Trichloropropane	N	2760	mg/kg	0.050		< 0.050
N-Propylbenzene	U	2760	mg/kg	0.0010		< 0.0010
2-Chlorotoluene	M	2760	mg/kg	0.0010		< 0.0010
1,3,5-Trimethylbenzene	M	2760	mg/kg	0.0010		0.020
4-Chlorotoluene	U	2760	mg/kg	0.0010		< 0.0010
Tert-Butylbenzene	U	2760	mg/kg	0.0010		< 0.0010
1,2,4-Trimethylbenzene	M	2760	mg/kg	0.0010		< 0.0010
Sec-Butylbenzene	U	2760	mg/kg	0.0010		0.041
1,3-Dichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
4-Isopropyltoluene	N	2760	mg/kg	0.0010		0.064
1,4-Dichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
N-Butylbenzene	U	2760	mg/kg	0.0010		< 0.0010
1,2-Dichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
1,2-Dibromo-3-Chloropropane	U	2760	mg/kg	0.050		< 0.050
1,2,4-Trichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
Hexachlorobutadiene	U	2760	mg/kg	0.0010		< 0.0010
1,2,3-Trichlorobenzene	U	2760	mg/kg	0.0020		< 0.0020
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010		< 0.0010
N-Nitrosodimethylamine	N	2790	mg/kg	0.050		< 0.050
Phenol	N	2790	mg/kg	0.050		< 0.050
2-Chlorophenol	N	2790	mg/kg	0.050		< 0.050
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050		< 0.050
1,3-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050
1,4-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050
1,2-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050
2-Methylphenol	N	2790	mg/kg	0.050		< 0.050
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050		< 0.050
Hexachloroethane	N	2790	mg/kg	0.050		< 0.050
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050		< 0.050
4-Methylphenol	N	2790	mg/kg	0.050		< 0.050
Nitrobenzene	N	2790	mg/kg	0.050		< 0.050
Isophorone	N	2790	mg/kg	0.050		< 0.050

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		21-24630		21-24630		21-24630	
	Chemtest Sample ID.:		1242422		1242424		1242431	
	Sample Location:		WS104		WS104		BH03	
	Sample Type:		SOIL		SOIL		SOIL	
	Top Depth (m):		0.50		1.35		0.40	
	Bottom Depth (m):		0.70		1.55		1.20	
	Date Sampled:		15-Jul-2021		15-Jul-2021		16-Jul-2021	
	Asbestos Lab:		DURHAM		DURHAM		DURHAM	
Determinand	Accred.	SOP	Units	LOD				
2-Nitrophenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
2,4-Dimethylphenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050			< 0.050	< 0.050
2,4-Dichlorophenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050			< 0.050	< 0.050
Naphthalene	N	2790	mg/kg	0.050			0.19	< 0.050
4-Chloroaniline	N	2790	mg/kg	0.050			< 0.050	< 0.050
Hexachlorobutadiene	N	2790	mg/kg	0.050			< 0.050	< 0.050
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
2-Methylnaphthalene	N	2790	mg/kg	0.050			0.13	< 0.050
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050			< 0.050	< 0.050
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
2-Chloronaphthalene	N	2790	mg/kg	0.050			< 0.050	< 0.050
2-Nitroaniline	N	2790	mg/kg	0.050			< 0.050	< 0.050
Acenaphthylene	N	2790	mg/kg	0.050			< 0.050	< 0.050
Dimethylphthalate	N	2790	mg/kg	0.050			< 0.050	< 0.050
2,6-Dinitrotoluene	N	2790	mg/kg	0.050			< 0.050	< 0.050
Acenaphthene	N	2790	mg/kg	0.050			0.31	< 0.050
3-Nitroaniline	N	2790	mg/kg	0.050			< 0.050	< 0.050
Dibenzofuran	N	2790	mg/kg	0.050			0.26	< 0.050
4-Chlorophenylphenylether	N	2790	mg/kg	0.050			< 0.050	< 0.050
2,4-Dinitrotoluene	N	2790	mg/kg	0.050			< 0.050	< 0.050
Fluorene	N	2790	mg/kg	0.050			0.32	< 0.050
Diethyl Phthalate	N	2790	mg/kg	0.050			< 0.050	< 0.050
4-Nitroaniline	N	2790	mg/kg	0.050			< 0.050	< 0.050
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
Azobenzene	N	2790	mg/kg	0.050			0.16	< 0.050
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050			< 0.050	< 0.050
Hexachlorobenzene	N	2790	mg/kg	0.050			< 0.050	< 0.050
Pentachlorophenol	N	2790	mg/kg	0.050			< 0.050	< 0.050
Phenanthrene	N	2790	mg/kg	0.050			2.0	< 0.050
Anthracene	N	2790	mg/kg	0.050			0.68	< 0.050
Carbazole	N	2790	mg/kg	0.050			0.14	< 0.050
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050			< 0.050	< 0.050
Fluoranthene	N	2790	mg/kg	0.050			3.1	0.23
Pyrene	N	2790	mg/kg	0.050			3.6	0.20
Butylbenzyl Phthalate	N	2790	mg/kg	0.050			< 0.050	< 0.050

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		21-24630	21-24630	21-24630	21-24630
	Chemtest Sample ID.:		1242422	1242424	1242431	1242432
Quotation No.: Q21-24764	Sample Location:		WS104	WS104	BH03	BH03
	Sample Type:		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.50	1.35	0.40	0.90
	Bottom Depth (m):		0.70	1.55		1.20
	Date Sampled:		15-Jul-2021	15-Jul-2021	16-Jul-2021	16-Jul-2021
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Benzof[anthracene	N	2790	mg/kg	0.050		0.079
Chrysene	N	2790	mg/kg	0.050		0.12
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050		< 0.050
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050		< 0.050
Benzof[b]fluoranthene	N	2790	mg/kg	0.050		0.19
Benzof[k]fluoranthene	N	2790	mg/kg	0.050		0.068
Benzof[a]pyrene	N	2790	mg/kg	0.050		0.12
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050		0.079
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050		< 0.050
Benzof[g,h,i]perylene	N	2790	mg/kg	0.050		0.12
4-Nitrophenol	N	2790	mg/kg	0.050		< 0.050
Naphthalene	M	2800	mg/kg	0.10	14	3.0
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	0.47
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	0.75
Fluorene	M	2800	mg/kg	0.10	< 0.10	0.38
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	2.7
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.73
Fluoranthene	M	2800	mg/kg	0.10	1.9	6.0
Pyrene	M	2800	mg/kg	0.10	1.5	6.8
Benzof[anthracene	M	2800	mg/kg	0.10	0.84	4.1
Chrysene	M	2800	mg/kg	0.10	0.99	3.6
Benzof[b]fluoranthene	M	2800	mg/kg	0.10	1.3	5.3
Benzof[k]fluoranthene	M	2800	mg/kg	0.10	0.39	1.9
Benzof[a]pyrene	M	2800	mg/kg	0.10	1.1	4.6
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.64	2.8
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.10	0.53
Benzof[g,h,i]perylene	M	2800	mg/kg	0.10	0.58	2.6
Total Of 16 PAH's	N	2800	mg/kg	2.0	27	46
PCB 81	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 77	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 105	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 114	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 118	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 123	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 126	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 156	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 157	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 167	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24630	21-24630	21-24630
Quotation No.: Q21-24764		Chemtest Sample ID.:		1242422	1242424	1242432
		Sample Location:		WS104	BS104	BH03
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.50	1.35	0.90
		Bottom Depth (m):		0.70	1.55	1.20
		Date Sampled:		15-Jul-2021	15-Jul-2021	16-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
PCB 169	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
PCB 189	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
Total PCBs (12 Congeners)	N	2815	mg/kg	0.0010	< 0.0010	< 0.0010
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24630		21-24630 1242422		WS104 0.50 0.70 15-Jul-2021		SOP		Accred..		Units				Landfill Waste Acceptance Criteria Limits					
Chemtest Sample ID: 1242422																			
Sample Ref:														Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill	
Sample ID: WS104														Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill	
Sample Location: Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
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Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m): Sampling Date:		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill							
Top Depth(m): Bottom Depth(m):																			

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24630				Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1242424							
Sample Ref:							
Sample ID: WS104							
Sample Location: 1.35							
Top Depth(m): 1.55				Limits			
Bottom Depth(m): 15-Jul-2021							
Sampling Date:							
Determinand							
SOP							
Total Organic Carbon				Inert Waste Landfill			
Loss on Ignition				Stable, Non-reactive hazardous waste in non-hazardous Landfill			
Total BTEX				Hazardous Waste Landfill			
Total PCBs (7 congeners)							
TPH Total WAC (Mineral Oil)							
Total (of 17) PAHs							
pH							
Acid Neutralisation Capacity							
Eluate Analysis				Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic				0.5			
Barium				20			
Cadmium				0.04			
Chromium				0.5			
Copper				2			
Mercury				0.01			
Molybdenum				0.5			
Nickel				0.4			
Lead				0.5			
Antimony				0.06			
Selenium				0.1			
Zinc				4			
Chloride				800			
Fluoride				10			
Sulphate				1000			
Total Dissolved Solids				4000			
Phenol Index				1			
Dissolved Organic Carbon				500			

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

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 - Single Stage WAC

Project: 21/3593 Ridgeway Estate

Chemtest Job No: 21-24630				Landfill Waste Acceptance Criteria Limits																											
Chemtest Sample ID: 1242432																															
Sample Ref: BH03																															
Sample ID: 0.90																															
Top Depth(m): 1.20				Inert Waste Landfill																											
Bottom Depth(m): 16-Jul-2021																															
Sampling Date:																															
Determinand																															
Total Organic Carbon				3				5				6																			
Loss on Ignition				---				---				10																			
Total BTEX				6				---				---																			
Total PCBs (7 congeners)				1				---				---																			
TPH Total WAC (Mineral Oil)				500				---				---																			
Total (of 17) PAHs				100				---				---																			
pH				---				---				---																			
Acid Neutralisation Capacity				---				---				---																			
Eluate Analysis				10:1 Eluate mg/l				10:1 Eluate mg/kg				Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg																			
Arsenic				1455				0.010				0.10				0.5				2				25							
Barium				1455				0.034				0.34				20				100				300							
Cadmium				1455				U				U				0.00011				0.04				1				5			
Chromium				1455				U				U				0.0005				0.5				10				70			
Copper				1455				U				U				0.0030				2				50				100			
Mercury				1455				U				U				0.00005				0.01				0.2				2			
Molybdenum				1455				U				U				0.045				0.5				10				30			
Nickel				1455				U				U				0.0012				0.4				10				40			
Lead				1455				U				U				0.0048				0.5				10				50			
Antimony				1455				U				U				0.015				0.06				0.7				5			
Selenium				1455				U				U				0.0007				0.1				0.5				7			
Zinc				1455				U				U				0.003				4				50				200			
Chloride				1220				U				U				0.007				800				15000				25000			
Fluoride				1220				U				U				0.003				10				150				500			
Sulphate				1220				U				U				0.003				25				2000				50000			
Total Dissolved Solids				1020				N				140				1400				4000				60000				100000			
Phenol Index				1920				U				U				0.030				1				-				-			
Dissolved Organic Carbon				1610				U				19				190				500				800				1000			

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

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.

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
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.
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
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
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: 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	Compliance Test 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 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



Final Report

Report No.:	21-24782-1		
Initial Date of Issue:	02-Aug-2021		
Client	Concept Consultants		
Client Address:	Unit D, Herald Way Binley Industrial Estate Coventry CV3 2RQ		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	20-Jul-2021
Order No.:	CL2988	Date Instructed:	27-Jul-2021
No. of Samples:	6		
Turnaround (Wkdays):	5	Results Due:	02-Aug-2021
Date Approved:	02-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:			21-24782	21-24782	21-24782	21-24782	21-24782	21-24782	21-24782
Quotation No.: Q21-24764		Chemtest Sample ID.:			1243337	1243338	1243339	1243342	1243343	1243344	
Order No.: CL2988		Client Sample Ref.:			BH03	WS105	WS105	BH01	BH01	BH03	
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):			2.00	0.20	0.70	0.70	1.20	1.20	
		Date Sampled:			19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021	
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD		-	-	-	-	-	
ACM Type	U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Asbestos Identification	U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture	N	2030	%	0.020	5.4	11	18	7.8	13	14	
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	
Soil Texture	N	2040		N/A	Sand	Sand	Clay	Sand	Clay	Clay	
pH	M	2010		4.0	8.8	10.2	9.3	9.4	8.9	8.6	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	1.3	0.98	0.83	0.72	0.82	
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Arsenic	M	2450	mg/kg	1.0	6.4	26	17	12	16	21	
Beryllium	U	2450	mg/kg	1.0	< 1.0	1.5	1.0	< 1.0	< 1.0	1.2	
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.62	0.17	< 0.10	0.12	0.18	
Chromium	M	2450	mg/kg	1.0	9.0	23	21	19	16	23	
Antimony	N	2450	mg/kg	2.0	< 2.0	4.8	2.7	< 2.0	2.1	2.3	
Copper	M	2450	mg/kg	0.50	8.2	99	44	33	30	47	
Mercury	M	2450	mg/kg	0.10	< 0.10	0.34	1.3	0.20	0.39	0.84	
Nickel	M	2450	mg/kg	0.50	6.3	22	18	17	15	22	
Lead	M	2450	mg/kg	0.50	5.5	380	190	260	320	190	
Selenium	M	2450	mg/kg	0.20	< 0.20	0.21	0.22	0.27	0.24	0.36	
Vanadium	U	2450	mg/kg	5.0	23	44	40	38	32	46	
Zinc	M	2450	mg/kg	0.50	14	140	83	63	63	110	
Total Organic Carbon	M	2625	%	0.20	< 0.20	0.98	1.1	0.36	1.3	1.5	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	250	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	200	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	470	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		Chemtest Sample ID.:		21-24782		21-24782		21-24782		21-24782		21-24782		21-24782	
	Chemtest Sample ID.:		Client Sample Ref.:		1243337		1243338		1243339		1243342		1243343		1243344	
	Sample Type:		Sample Type:		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Top Depth (m):		Date Sampled:		2.00		19-Jul-2021		0.20		19-Jul-2021		0.70		19-Jul-2021	
	Asbestos Lab:		Asbestos Lab:				DURHAM		DURHAM		DURHAM		DURHAM		DURHAM	
Determinand	Accred.	SOP	Units	LOD	21-24782		21-24782		21-24782		21-24782		21-24782		21-24782	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10		< 10		< 10		< 10		< 10		470	
Dichlorodifluoromethane	U	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Chloromethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Vinyl Chloride	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Bromomethane	M	2760	mg/kg	0.020			< 0.020								< 0.020	
Chloroethane	U	2760	mg/kg	0.0020			< 0.0020								< 0.0020	
Trichlorofluoromethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,1-Dichloroethene	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,1-Dichloroethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Bromochloromethane	U	2760	mg/kg	0.0050			< 0.0050								< 0.0050	
Trichloromethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Tetrachloromethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,1-Dichloropropene	U	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Benzene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010	
1,2-Dichloroethane	M	2760	mg/kg	0.0020			< 0.0020								< 0.0020	
Trichloroethene	N	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,2-Dichloropropane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Dibromomethane	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Bromodichloromethane	M	2760	mg/kg	0.0050			< 0.0050								< 0.0050	
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010			< 0.010								< 0.010	
Toluene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010	
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010			< 0.010								< 0.010	
1,1,2-Trichloroethane	M	2760	mg/kg	0.010			< 0.010								< 0.010	
Tetrachloroethene	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,3-Dichloropropane	U	2760	mg/kg	0.0020			< 0.0020								< 0.0020	
Dibromochloromethane	U	2760	mg/kg	0.010			< 0.010								< 0.010	
1,2-Dibromoethane	M	2760	mg/kg	0.0050			< 0.0050								< 0.0050	
Chlorobenzene	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020			< 0.0020								< 0.0020	
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010	
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010	
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010		< 0.0010	
Styrene	M	2760	mg/kg	0.0010			< 0.0010								< 0.0010	
Tribromomethane	U	2760	mg/kg	0.0010			< 0.0010								< 0.0010	

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:				Chemtest Sample ID.:		Chemtest Sample Ref.:		Sample Type:		Top Depth (m):		Date Sampled:		Asbestos Lab:		21-24782		21-24782		21-24782		21-24782	
		Chemtest Sample ID.:		Client Sample Ref.:		Sample Type:		Top Depth (m):		Date Sampled:		Asbestos Lab:		21-24782		21-24782		21-24782		21-24782		21-24782		21-24782	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS105		SOIL		BH01		SOIL		BH03	
		1243337		BH03		SOIL		2.00		19-Jul-2021		DURHAM		1243338		WS1									

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:			21-24782	21-24782	21-24782	21-24782	21-24782
Quotation No.: Q21-24764		Chemtest Sample ID.:			1243337	1243338	1243339	1243342	1243343
Order No.: CL2988		Client Sample Ref.:			BH03	WS105	WS105	BH01	BH01
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			2.00	0.20	0.70	0.70	1.20
		Date Sampled:			19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD					
Naphthalene	N	2790	mg/kg	0.050		< 0.050			< 0.050
4-Chloroaniline	N	2790	mg/kg	0.050		< 0.050			< 0.050
Hexachlorobutadiene	N	2790	mg/kg	0.050		< 0.050			< 0.050
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050		< 0.050			< 0.050
2-Methylnaphthalene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050		< 0.050			< 0.050
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050		< 0.050			< 0.050
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050		< 0.050			< 0.050
2-Chloronaphthalene	N	2790	mg/kg	0.050		< 0.050			< 0.050
2-Nitroaniline	N	2790	mg/kg	0.050		< 0.050			< 0.050
Acenaphthylene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Dimethylphthalate	N	2790	mg/kg	0.050		< 0.050			< 0.050
2,6-Dinitrotoluene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Acenaphthene	N	2790	mg/kg	0.050		< 0.050			< 0.050
3-Nitroaniline	N	2790	mg/kg	0.050		< 0.050			< 0.050
Dibenzofuran	N	2790	mg/kg	0.050		< 0.050			< 0.050
4-Chlorophenylphenylether	N	2790	mg/kg	0.050		< 0.050			< 0.050
2,4-Dinitrotoluene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Fluorene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Diethyl Phthalate	N	2790	mg/kg	0.050		< 0.050			< 0.050
4-Nitroaniline	N	2790	mg/kg	0.050		< 0.050			< 0.050
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050		< 0.050			< 0.050
Azobenzene	N	2790	mg/kg	0.050		< 0.050			< 0.050
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050		< 0.050			< 0.050
Hexachlorobenzene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Pentachlorophenol	N	2790	mg/kg	0.050		< 0.050			< 0.050
Phenanthrene	N	2790	mg/kg	0.050		< 0.050			0.15
Anthracene	N	2790	mg/kg	0.050		< 0.050			< 0.050
Carbazole	N	2790	mg/kg	0.050		< 0.050			< 0.050
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050		< 0.050			< 0.050
Fluoranthene	N	2790	mg/kg	0.050		0.96			0.27
Pyrene	N	2790	mg/kg	0.050		0.84			0.25
Butylbenzyl Phthalate	N	2790	mg/kg	0.050		< 0.050			< 0.050
Benzo[a]anthracene	N	2790	mg/kg	0.050		0.56			0.15
Chrysene	N	2790	mg/kg	0.050		0.56			0.21
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050		< 0.050			< 0.050
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050		< 0.050			< 0.050
Benzo[b]fluoranthene	N	2790	mg/kg	0.050		0.80			0.25
Benzo[k]fluoranthene	N	2790	mg/kg	0.050		0.29			0.13

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants Quotation No.: Q21-24764 Order No.: CL2988	Chemtest Job No.:		Chemtest Sample ID.:		21-24782	21-24782	21-24782	21-24782	21-24782	21-24782	21-24782	21-24782
	Client Sample Ref.:		Sample Type:		1243337	1243338	1243339	1243342	1243343	1243344	1243344	1243344
	Top Depth (m):		Date Sampled:		BH03	WS105	WS105	BH01	BH01	BH03	BH03	BH03
	Asbestos Lab:		LOD		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Determinand	Accred.	SOP	Units	LOD	21-24782	21-24782	21-24782	21-24782	21-24782	21-24782	21-24782	21-24782
Benzo[a]pyrene	N	2790	mg/kg	0.050		0.54					0.18	
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050		< 0.050					< 0.050	
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050		< 0.050					< 0.050	
Benzo[g,h,i]perylene	N	2790	mg/kg	0.050		< 0.050					< 0.050	
4-Nitrophenol	N	2790	mg/kg	0.050		< 0.050					< 0.050	
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.54	1.1	< 0.10	0.64	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.18	0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	0.12	1.6	2.2	0.26	0.89	0.34	0.34	0.34
Pyrene	M	2800	mg/kg	0.10	0.10	1.2	1.8	0.36	0.75	0.24	0.24	0.24
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.12	0.80	0.83	0.18	0.42	0.12	0.12	0.12
Chrysene	M	2800	mg/kg	0.10	0.14	0.81	0.98	0.17	0.39	0.19	0.19	0.19
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.93	1.4	0.21	0.48	0.24	0.24	0.24
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.36	0.42	0.12	0.18	0.12	0.12	0.12
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	0.73	1.1	0.20	0.29	0.26	0.26	0.26
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	0.45	0.85	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	0.13	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	0.51	0.78	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	8.2	12	< 2.0	4.1	< 2.0	< 2.0	< 2.0
PCB 81	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 77	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 105	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 114	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 118	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 123	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 126	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 156	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 157	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 167	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 169	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
PCB 189	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
Total PCBs (12 Congeners)	N	2815	mg/kg	0.0010		< 0.0010				< 0.0010	< 0.0010	< 0.0010
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

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.
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
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
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
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.

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



Final Report

Report No.:	21-24930-1		
Initial Date of Issue:	02-Aug-2021		
Client	Concept Consultants		
Client Address:	Unit D, Herald Way Binley Industrial Estate Coventry CV3 2RQ		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	21-Jul-2021
Order No.:	CL2988	Date Instructed:	27-Jul-2021
No. of Samples:	4		
Turnaround (Wkdays):	5	Results Due:	02-Aug-2021
Date Approved:	02-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24930	21-24930	21-24930	21-24930
Quotation No.: Q21-24764		Chemtest Sample ID.:		1244220	1244223	1244224	1244225
		Sample Location:		WS105	WS107	WS107	WS112
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.60	0.50	1.00	0.10
		Bottom Depth (m):				1.20	
		Date Sampled:		19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021
		Asbestos Lab:			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	12	10
Soil Colour	N	2040		N/A	Other	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand
pH	M	2010		4.0	9.2	8.5	8.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.43	2.6	1.4
Cyanide (Total)	M	2300	mg/kg	0.50	18	0.90	4.0
Arsenic	M	2450	mg/kg	1.0	9.3	32	8.5
Beryllium	U	2450	mg/kg	1.0	< 1.0	1.4	< 1.0
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.22	< 0.10
Chromium	M	2450	mg/kg	1.0	22	19	13
Antimony	N	2450	mg/kg	2.0	< 2.0	4.8	< 2.0
Copper	M	2450	mg/kg	0.50	43	96	11
Mercury	M	2450	mg/kg	0.10	0.35	1.8	0.16
Nickel	M	2450	mg/kg	0.50	20	18	11
Lead	M	2450	mg/kg	0.50	18	540	21
Selenium	M	2450	mg/kg	0.20	0.35	0.37	< 0.20
Vanadium	U	2450	mg/kg	5.0	36	40	27
Zinc	M	2450	mg/kg	0.50	58	210	30
Total Organic Carbon	M	2625	%	0.20	< 0.20	2.5	0.26
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	120	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	4.4	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	20	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	160	< 1.0

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		21-24930	21-24930	21-24930	21-24930
	Chemtest Sample ID.:		1244220	1244223	1244224	1244225
Quotation No.: Q21-24764	Sample Location:		WS105	WS107	WS107	WS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		2.60	0.50	1.00	0.10
	Bottom Depth (m):				1.20	
	Date Sampled:		19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021
	Asbestos Lab:			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Dichlorodifluoromethane	U	2760	mg/kg	0.0010	< 0.0010	
Chloromethane	M	2760	mg/kg	0.0010	< 0.0010	
Vinyl Chloride	M	2760	mg/kg	0.0010	< 0.0010	
Bromomethane	M	2760	mg/kg	0.020	< 0.020	
Chloroethane	U	2760	mg/kg	0.0020	< 0.0020	
Trichlorofluoromethane	M	2760	mg/kg	0.0010	< 0.0010	
1,1-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	
1,1-Dichloroethane	M	2760	mg/kg	0.0010	< 0.0010	
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010	< 0.0010	
Bromochloromethane	U	2760	mg/kg	0.0050	< 0.0050	
Trichloromethane	M	2760	mg/kg	0.0010	< 0.0010	
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010	< 0.0010	
Tetrachloromethane	M	2760	mg/kg	0.0010	< 0.0010	
1,1-Dichloropropene	U	2760	mg/kg	0.0010	< 0.0010	
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane	M	2760	mg/kg	0.0020	< 0.0020	
Trichloroethene	N	2760	mg/kg	0.0010	< 0.0010	
1,2-Dichloropropene	M	2760	mg/kg	0.0010	< 0.0010	
Dibromomethane	M	2760	mg/kg	0.0010	< 0.0010	
Bromodichloromethane	M	2760	mg/kg	0.0050	< 0.0050	
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010	< 0.010	
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010	< 0.010	
1,1,2-Trichloroethane	M	2760	mg/kg	0.010	< 0.010	
Tetrachloroethene	M	2760	mg/kg	0.0010	< 0.0010	
1,3-Dichloropropene	U	2760	mg/kg	0.0020	< 0.0020	
Dibromochloromethane	U	2760	mg/kg	0.010	< 0.010	
1,2-Dibromoethane	M	2760	mg/kg	0.0050	< 0.0050	
Chlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020	< 0.0020	
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants Quotation No.: Q21-24764	Chemtest Job No.:		21-24930	21-24930	21-24930	21-24930
	Chemtest Sample ID.:		1244220	1244223	1244224	1244225
	Sample Location:		WS105	WS107	WS107	WS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		2.60	0.50	1.00	0.10
	Bottom Depth (m):				1.20	
	Date Sampled:		19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021
	Asbestos Lab:			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Styrene	M	2760	mg/kg	0.0010	< 0.0010	
Tribromomethane	U	2760	mg/kg	0.0010	< 0.0010	
Isopropylbenzene	M	2760	mg/kg	0.0010	< 0.0010	
Bromobenzene	M	2760	mg/kg	0.0010	< 0.0010	
1,2,3-Trichloropropane	N	2760	mg/kg	0.050	< 0.050	
N-Propylbenzene	U	2760	mg/kg	0.0010	< 0.0010	
2-Chlorotoluene	M	2760	mg/kg	0.0010	< 0.0010	
1,3,5-Trimethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	
4-Chlorotoluene	U	2760	mg/kg	0.0010	< 0.0010	
Tert-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010	
1,2,4-Trimethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	
Sec-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010	
1,3-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	
4-Isopropyltoluene	N	2760	mg/kg	0.0010	< 0.0010	
1,4-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	
N-Butylbenzene	U	2760	mg/kg	0.0010	< 0.0010	
1,2-Dichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	
1,2-Dibromo-3-Chloropropane	U	2760	mg/kg	0.050	< 0.050	
1,2,4-Trichlorobenzene	M	2760	mg/kg	0.0010	< 0.0010	
Hexachlorobutadiene	U	2760	mg/kg	0.0010	< 0.0010	
1,2,3-Trichlorobenzene	U	2760	mg/kg	0.0020	< 0.0020	
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010	< 0.0010	
N-Nitrosodimethylamine	N	2790	mg/kg	0.050	< 0.050	
Phenol	N	2790	mg/kg	0.050	< 0.050	
2-Chlorophenol	N	2790	mg/kg	0.050	< 0.050	
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050	< 0.050	
1,3-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050	
1,4-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050	
1,2-Dichlorobenzene	N	2790	mg/kg	0.050	< 0.050	
2-Methylphenol	N	2790	mg/kg	0.050	< 0.050	
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050	< 0.050	
Hexachloroethane	N	2790	mg/kg	0.050	< 0.050	
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050	< 0.050	
4-Methylphenol	N	2790	mg/kg	0.050	< 0.050	
Nitrobenzene	N	2790	mg/kg	0.050	< 0.050	
Isophorone	N	2790	mg/kg	0.050	< 0.050	
2-Nitrophenol	N	2790	mg/kg	0.050	< 0.050	
2,4-Dimethylphenol	N	2790	mg/kg	0.050	< 0.050	

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants Quotation No.: Q21-24764	Chemtest Job No.:		21-24930	21-24930	21-24930	21-24930
	Chemtest Sample ID.:		1244220	1244223	1244224	1244225
	Sample Location:		WS105	WS107	WS107	WS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		2.60	0.50	1.00	0.10
	Bottom Depth (m):				1.20	
	Date Sampled:		19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021
	Asbestos Lab:			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050	< 0.050	
2,4-Dichlorophenol	N	2790	mg/kg	0.050	< 0.050	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050	< 0.050	
Naphthalene	N	2790	mg/kg	0.050	0.26	
4-Chloroaniline	N	2790	mg/kg	0.050	< 0.050	
Hexachlorobutadiene	N	2790	mg/kg	0.050	< 0.050	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050	< 0.050	
2-Methylnaphthalene	N	2790	mg/kg	0.050	0.16	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050	< 0.050	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050	< 0.050	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050	< 0.050	
2-Chloronaphthalene	N	2790	mg/kg	0.050	< 0.050	
2-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	
Acenaphthylene	N	2790	mg/kg	0.050	0.18	
Dimethylphthalate	N	2790	mg/kg	0.050	< 0.050	
2,6-Dinitrotoluene	N	2790	mg/kg	0.050	< 0.050	
Acenaphthene	N	2790	mg/kg	0.050	0.29	
3-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	
Dibenzofuran	N	2790	mg/kg	0.050	0.26	
4-Chlorophenylphenylether	N	2790	mg/kg	0.050	< 0.050	
2,4-Dinitrotoluene	N	2790	mg/kg	0.050	< 0.050	
Fluorene	N	2790	mg/kg	0.050	0.40	
Diethyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
4-Nitroaniline	N	2790	mg/kg	0.050	< 0.050	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050	< 0.050	
Azobenzene	N	2790	mg/kg	0.050	< 0.050	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050	< 0.050	
Hexachlorobenzene	N	2790	mg/kg	0.050	< 0.050	
Pentachlorophenol	N	2790	mg/kg	0.050	< 0.050	
Phenanthrene	N	2790	mg/kg	0.050	4.6	
Anthracene	N	2790	mg/kg	0.050	0.87	
Carbazole	N	2790	mg/kg	0.050	0.38	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
Fluoranthene	N	2790	mg/kg	0.050	8.4	
Pyrene	N	2790	mg/kg	0.050	6.6	
Butylbenzyl Phthalate	N	2790	mg/kg	0.050	< 0.050	
Benzo[a]anthracene	N	2790	mg/kg	0.050	3.7	
Chrysene	N	2790	mg/kg	0.050	3.9	

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24930	21-24930	21-24930	21-24930
Quotation No.: Q21-24764		Chemtest Sample ID.:		1244220	1244223	1244224	1244225
		Sample Location:		WS105	WS107	WS107	WS112
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.60	0.50	1.00	0.10
		Bottom Depth (m):				1.20	
		Date Sampled:		19-Jul-2021	19-Jul-2021	19-Jul-2021	19-Jul-2021
		Asbestos Lab:			DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050	< 0.050		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050	< 0.050		
Benzo[b]fluoranthene	N	2790	mg/kg	0.050	4.5		
Benzo[k]fluoranthene	N	2790	mg/kg	0.050	1.7		
Benzo[a]pyrene	N	2790	mg/kg	0.050	3.6		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050	1.8		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050	0.54		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.050	2.1		
4-Nitrophenol	N	2790	mg/kg	0.050	< 0.050		
Naphthalene	M	2800	mg/kg	0.10	1.2		
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10		
Acenaphthene	M	2800	mg/kg	0.10	0.92		
Fluorene	M	2800	mg/kg	0.10	0.98		
Phenanthrene	M	2800	mg/kg	0.10	12		
Anthracene	M	2800	mg/kg	0.10	2.1		
Fluoranthene	M	2800	mg/kg	0.10	20		
Pyrene	M	2800	mg/kg	0.10	15		
Benzo[a]anthracene	M	2800	mg/kg	0.10	7.7		
Chrysene	M	2800	mg/kg	0.10	7.8		
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	9.9		
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	3.5		
Benzo[a]pyrene	M	2800	mg/kg	0.10	7.3		
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	5.5		
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10		
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	4.6		
Total Of 16 PAH's	N	2800	mg/kg	2.0	100		
PCB 81	N	2815	mg/kg	0.0010	< 0.0010		
PCB 77	N	2815	mg/kg	0.0010	< 0.0010		
PCB 105	N	2815	mg/kg	0.0010	< 0.0010		
PCB 114	N	2815	mg/kg	0.0010	< 0.0010		
PCB 118	N	2815	mg/kg	0.0010	< 0.0010		
PCB 123	N	2815	mg/kg	0.0010	< 0.0010		
PCB 126	N	2815	mg/kg	0.0010	< 0.0010		
PCB 156	N	2815	mg/kg	0.0010	< 0.0010		
PCB 157	N	2815	mg/kg	0.0010	< 0.0010		
PCB 167	N	2815	mg/kg	0.0010	< 0.0010		
PCB 169	N	2815	mg/kg	0.0010	< 0.0010		
PCB 189	N	2815	mg/kg	0.0010	< 0.0010		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-24930	21-24930	21-24930
Quotation No.: Q21-24764		Chemtest Sample ID.:		1244220	1244224	1244225
		Sample Location:		WS105	WS107	WS112
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		2.60	0.50	0.10
		Bottom Depth (m):			1.20	
		Date Sampled:		19-Jul-2021	19-Jul-2021	19-Jul-2021
		Asbestos Lab:			DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
	N	2815	mg/kg	0.0010		
Total PCBs (12 Congeners)	M	2920	mg/kg	0.10	< 0.10	< 0.10
Total Phenols						

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.
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
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
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane 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.

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



Final Report

Report No.:	21-25092-1		
Initial Date of Issue:	30-Jul-2021		
Client	Concept Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	21-Jul-2021
Order No.:	CL2988	Date Instructed:	27-Jul-2021
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	02-Aug-2021
Date Approved:	30-Jul-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25092	21-25092	21-25092
Quotation No.: Q21-24764	Chemtest Sample ID.:	1245050		1245050	1245052	1245054
	Sample Location:	WS111		WS111	WS112	WS107
	Sample Type:	SOIL		SOIL	SOIL	SOIL
	Top Depth (m):	0.70		0.70	1.40	2.30
	Date Sampled:	21-Jul-2021		21-Jul-2021	21-Jul-2021	21-Jul-2021
	Asbestos Lab:	DURHAM				
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	
Moisture	N	2030	%	0.020	6.1	6.7
Soil Colour	N	2040		N/A	Other	Other
Other Material	N	2040		N/A	Stones, Wood and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand
pH	M	2010		4.0	8.6	8.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.63	< 0.40
Cyanide (Total)	M	2300	mg/kg	0.50	2.3	< 0.50
Arsenic	M	2450	mg/kg	1.0	15	20
Beryllium	U	2450	mg/kg	1.0	1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.13	0.11
Chromium	M	2450	mg/kg	1.0	31	23
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0
Copper	M	2450	mg/kg	0.50	16	11
Mercury	M	2450	mg/kg	0.10	0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	29	32
Lead	M	2450	mg/kg	0.50	21	6.1
Selenium	M	2450	mg/kg	0.20	0.27	0.53
Vanadium	U	2450	mg/kg	5.0	48	47
Zinc	M	2450	mg/kg	0.50	130	39
Total Organic Carbon	M	2625	%	0.20	0.59	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3593 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25092	21-25092	21-25092
Quotation No.: Q21-24764		Chemtest Sample ID.:		1245050	1245052	1245054
		Sample Location:		WS111	WS112	WS107
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.70	1.40	2.30
		Date Sampled:		21-Jul-2021	21-Jul-2021	21-Jul-2021
		Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10

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.
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
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.
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

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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



Final Report

Report No.:	21-25292-1		
Initial Date of Issue:	03-Aug-2021		
Client	Concept Consultants		
Client Address:	Unit 8 Warple Mews Warple Way London W3 0RF		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3523 Ridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	23-Jul-2021
Order No.:	CL2994	Date Instructed:	28-Jul-2021
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	03-Aug-2021
Date Approved:	03-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21/3523 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25292	21-25292	21-25292
Quotation No.: Q21-24764		Chemtest Sample ID.:		1246095	1246097	1246100
		Sample Location:		BH5	WS106	WS108
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.5	0.7	0.7
		Bottom Depth (m):		1.0		0.9
		Date Sampled:		21-Jul-2021	22-Jul-2021	22-Jul-2021
		Asbestos Lab:			DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	8.3	4.5
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand
pH	M	2010		4.0	8.8	11.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.73	0.58
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	11	13
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.17
Chromium	M	2450	mg/kg	1.0	27	25
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0
Copper	M	2450	mg/kg	0.50	8.7	34
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	15	16
Lead	M	2450	mg/kg	0.50	13	110
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	38	44
Zinc	M	2450	mg/kg	0.50	27	61
Total Organic Carbon	M	2625	%	0.20	0.30	0.80
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	450
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 21/3523 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25292	21-25292	21-25292
Quotation No.: Q21-24764		Chemtest Sample ID.:		1246095	1246097	1246100
	Sample Location:	BH5		SOIL	SOIL	WS108
	Sample Type:	SOIL		SOIL	SOIL	SOIL
	Top Depth (m):	0.5		0.5	0.7	0.7
	Bottom Depth (m):	1.0		1.0		0.9
	Date Sampled:	21-Jul-2021		22-Jul-2021		22-Jul-2021
	Asbestos Lab:			DURHAM		DURHAM
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Dichlorodifluoromethane	U	2760	mg/kg	0.0010		< 0.0010
Chloromethane	M	2760	mg/kg	0.0010		< 0.0010
Vinyl Chloride	M	2760	mg/kg	0.0010		< 0.0010
Bromomethane	M	2760	mg/kg	0.020		< 0.020
Chloroethane	U	2760	mg/kg	0.0020		< 0.0020
Trichlorofluoromethane	M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloroethene	M	2760	mg/kg	0.0010		< 0.0010
Trans 1,2-Dichloroethene	M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloroethane	M	2760	mg/kg	0.0010		< 0.0010
cis 1,2-Dichloroethene	M	2760	mg/kg	0.0010		< 0.0010
Bromochloromethane	U	2760	mg/kg	0.0050		< 0.0050
Trichloromethane	M	2760	mg/kg	0.0010		< 0.0010
1,1,1-Trichloroethane	M	2760	mg/kg	0.0010		< 0.0010
Tetrachloromethane	M	2760	mg/kg	0.0010		< 0.0010
1,1-Dichloropropene	U	2760	mg/kg	0.0010		< 0.0010
Benzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
1,2-Dichloroethane	M	2760	mg/kg	0.0020		< 0.0020
Trichloroethene	N	2760	mg/kg	0.0010		< 0.0010
1,2-Dichloropropane	M	2760	mg/kg	0.0010		< 0.0010
Dibromomethane	M	2760	mg/kg	0.0010		< 0.0010
Bromodichloromethane	M	2760	mg/kg	0.0050		< 0.0050
cis-1,3-Dichloropropene	N	2760	mg/kg	0.010		< 0.010
Toluene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Trans-1,3-Dichloropropene	N	2760	mg/kg	0.010		< 0.010
1,1,2-Trichloroethane	M	2760	mg/kg	0.010		< 0.010
Tetrachloroethene	M	2760	mg/kg	0.0010		< 0.0010
1,3-Dichloropropane	U	2760	mg/kg	0.0020		< 0.0020
Dibromochloromethane	U	2760	mg/kg	0.010		< 0.010
1,2-Dibromoethane	M	2760	mg/kg	0.0050		< 0.0050
Chlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
1,1,1,2-Tetrachloroethane	M	2760	mg/kg	0.0020		< 0.0020
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010

Results - Soil

Project: 21/3523 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25292	21-25292	21-25292
Quotation No.: Q21-24764		Chemtest Sample ID.:		1246095	1246097	1246100
	Sample Location:	BH5		SOIL	SOIL	SOIL
	Sample Type:	SOIL		SOIL	SOIL	SOIL
	Top Depth (m):	0.5		0.5	0.7	0.7
	Bottom Depth (m):	1.0		1.0		0.9
	Date Sampled:	21-Jul-2021		22-Jul-2021		22-Jul-2021
	Asbestos Lab:			DURHAM		DURHAM
Determinand	Accred.	SOP	Units	LOD		
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	< 0.0010
Styrene	M	2760	mg/kg	0.0010		< 0.0010
Tribromomethane	U	2760	mg/kg	0.0010		< 0.0010
Isopropylbenzene	M	2760	mg/kg	0.0010		< 0.0010
Bromobenzene	M	2760	mg/kg	0.0010		< 0.0010
1,2,3-Trichloropropane	N	2760	mg/kg	0.050		< 0.050
N-Propylbenzene	U	2760	mg/kg	0.0010		< 0.0010
2-Chlorotoluene	M	2760	mg/kg	0.0010		< 0.0010
1,3,5-Trimethylbenzene	M	2760	mg/kg	0.0010		< 0.0010
4-Chlorotoluene	U	2760	mg/kg	0.0010		< 0.0010
Tert-Butylbenzene	U	2760	mg/kg	0.0010		< 0.0010
1,2,4-Trimethylbenzene	M	2760	mg/kg	0.0010		< 0.0010
Sec-Butylbenzene	U	2760	mg/kg	0.0010		< 0.0010
1,3-Dichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
4-Isopropyltoluene	N	2760	mg/kg	0.0010		< 0.0010
1,4-Dichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
N-Butylbenzene	U	2760	mg/kg	0.0010		< 0.0010
1,2-Dichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
1,2-Dibromo-3-Chloropropane	U	2760	mg/kg	0.050		< 0.050
1,2,4-Trichlorobenzene	M	2760	mg/kg	0.0010		< 0.0010
Hexachlorobutadiene	U	2760	mg/kg	0.0010		< 0.0010
1,2,3-Trichlorobenzene	U	2760	mg/kg	0.0020		< 0.0020
Methyl Tert-Butyl Ether	M	2760	mg/kg	0.0010		< 0.0010
N-Nitrosodimethylamine	N	2790	mg/kg	0.050		< 0.050
Phenol	N	2790	mg/kg	0.050		< 0.050
2-Chlorophenol	N	2790	mg/kg	0.050		< 0.050
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.050		< 0.050
1,3-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050
1,4-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050
1,2-Dichlorobenzene	N	2790	mg/kg	0.050		< 0.050
2-Methylphenol	N	2790	mg/kg	0.050		< 0.050
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.050		< 0.050
Hexachloroethane	N	2790	mg/kg	0.050		< 0.050
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.050		< 0.050
4-Methylphenol	N	2790	mg/kg	0.050		< 0.050
Nitrobenzene	N	2790	mg/kg	0.050		< 0.050
Isophorone	N	2790	mg/kg	0.050		< 0.050
2-Nitrophenol	N	2790	mg/kg	0.050		< 0.050

Results - Soil

Project: 21/3523 Ridgeway Estate

Client: Concept Consultants	Chemtest Job No.:		21-25292		21-25292	
	Chemtest Sample ID.:		1246095		1246097	
Quotation No.: Q21-24764	Sample Location:		BH5		WS106	
	Sample Type:		SOIL		SOIL	
	Top Depth (m):		0.5		0.7	
	Bottom Depth (m):		1.0		0.9	
	Date Sampled:		21-Jul-2021		22-Jul-2021	
	Asbestos Lab:				DURHAM	
Determinand	Accred.	SOP	Units	LOD		
2,4-Dimethylphenol	N	2790	mg/kg	0.050		
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.050		
2,4-Dichlorophenol	N	2790	mg/kg	0.050		
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.050		
Naphthalene	N	2790	mg/kg	0.050		
4-Chloroaniline	N	2790	mg/kg	0.050		
Hexachlorobutadiene	N	2790	mg/kg	0.050		
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.050		
2-Methylnaphthalene	N	2790	mg/kg	0.050		
Hexachlorocyclopentadiene	N	2790	mg/kg	0.050		
2,4,6-Trichlorophenol	N	2790	mg/kg	0.050		
2,4,5-Trichlorophenol	N	2790	mg/kg	0.050		
2-Chloronaphthalene	N	2790	mg/kg	0.050		
2-Nitroaniline	N	2790	mg/kg	0.050		
Acenaphthylene	N	2790	mg/kg	0.050		
Dimethylphthalate	N	2790	mg/kg	0.050		
2,6-Dinitrotoluene	N	2790	mg/kg	0.050		
Acenaphthene	N	2790	mg/kg	0.050		
3-Nitroaniline	N	2790	mg/kg	0.050		
Dibenzofuran	N	2790	mg/kg	0.050		
4-Chlorophenylphenylether	N	2790	mg/kg	0.050		
2,4-Dinitrotoluene	N	2790	mg/kg	0.050		
Fluorene	N	2790	mg/kg	0.050		
Diethyl Phthalate	N	2790	mg/kg	0.050		
4-Nitroaniline	N	2790	mg/kg	0.050		
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.050		
Azobenzene	N	2790	mg/kg	0.050		
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.050		
Hexachlorobenzene	N	2790	mg/kg	0.050		
Pentachlorophenol	N	2790	mg/kg	0.050		
Phenanthrene	N	2790	mg/kg	0.050		
Anthracene	N	2790	mg/kg	0.050		
Carbazole	N	2790	mg/kg	0.050		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.050		
Fluoranthene	N	2790	mg/kg	0.050		
Pyrene	N	2790	mg/kg	0.050		
Butylbenzyl Phthalate	N	2790	mg/kg	0.050		
Benzo[a]anthracene	N	2790	mg/kg	0.050		

Results - Soil

Project: 21/3523 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25292	21-25292	21-25292
Quotation No.: Q21-24764		Chemtest Sample ID.:		1246095	1246097	1246100
		Sample Location:		BH5	WS106	WS108
		Sample Type:		SOIL	SOIL	SOIL
		Top Depth (m):		0.5	0.7	0.7
		Bottom Depth (m):		1.0		0.9
		Date Sampled:		21-Jul-2021	22-Jul-2021	22-Jul-2021
		Asbestos Lab:			DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Chrysene	N	2790	mg/kg	0.050		< 0.050
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.050		< 0.050
Di-N-Octyl Phthalate	N	2790	mg/kg	0.050		< 0.050
Benzo[b]fluoranthene	N	2790	mg/kg	0.050		< 0.050
Benzo[k]fluoranthene	N	2790	mg/kg	0.050		< 0.050
Benzo[a]pyrene	N	2790	mg/kg	0.050		< 0.050
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.050		< 0.050
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.050		< 0.050
Benzo[g,h,i]perylene	N	2790	mg/kg	0.050		< 0.050
4-Nitrophenol	N	2790	mg/kg	0.050		< 0.050
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.44
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.19
Fluoranthene	M	2800	mg/kg	0.10	0.17	0.50
Pyrene	M	2800	mg/kg	0.10	0.14	0.51
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	0.16
Chrysene	M	2800	mg/kg	0.10	< 0.10	0.25
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.40
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.11
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	0.31
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	2.9
PCB 81	N	2815	mg/kg	0.0010		< 0.0010
PCB 77	N	2815	mg/kg	0.0010		< 0.0010
PCB 105	N	2815	mg/kg	0.0010		< 0.0010
PCB 114	N	2815	mg/kg	0.0010		< 0.0010
PCB 118	N	2815	mg/kg	0.0010		< 0.0010
PCB 123	N	2815	mg/kg	0.0010		< 0.0010
PCB 126	N	2815	mg/kg	0.0010		< 0.0010
PCB 156	N	2815	mg/kg	0.0010		< 0.0010
PCB 157	N	2815	mg/kg	0.0010		< 0.0010
PCB 167	N	2815	mg/kg	0.0010		< 0.0010
PCB 169	N	2815	mg/kg	0.0010		< 0.0010

Results - Soil

Project: 21/3523 Ridgeway Estate

Client: Concept Consultants		Chemtest Job No.:		21-25292	21-25292
Quotation No.: Q21-24764		Chemtest Sample ID.:		1246097	1246100
		Sample Location:		WS106	WS108
		Sample Type:		SOIL	SOIL
		Top Depth (m):		0.5	0.7
		Bottom Depth (m):		1.0	0.9
		Date Sampled:		21-Jul-2021	22-Jul-2021
		Asbestos Lab:		DURHAM	DURHAM
Determinand		Accred.	SOP	Units	LOD
	PCB 189	N	2815	mg/kg	0.0010
	Total PCBs (12 Congeners)	N	2815	mg/kg	0.0010
	Total Phenols	M	2920	mg/kg	0.10
				< 0.10	< 0.10
				< 0.10	< 0.10

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.
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
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
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane 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.

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



Final Report

Report No.:	21-25852-1		
Initial Date of Issue:	03-Aug-2021		
Client	Concept Consultants		
Client Address:	Unit D, Herald Way Binley Industrial Estate Coventry CV3 2RQ		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway Industrial Estate		
Quotation No.:	Q21-24764	Date Received:	27-Jul-2021
Order No.:	CL2994	Date Instructed:	27-Jul-2021
No. of Samples:	1		
Turnaround (Wkdays):	5	Results Due:	02-Aug-2021
Date Approved:	03-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Project: 21/3593 Ridgeway Industrial Estate						
Client: Concept Consultants		Chemtest Job No.:		21-25852		
Quotation No.: Q21-24764		Chemtest Sample ID.:		1248844		
		Sample Location:		BH04		
		Sample Type:		SOIL		
		Top Depth (m):		0.50		
		Bottom Depth (m):		0.80		
		Date Sampled:		23-Jul-2021		
		Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	
Moisture	N	2030	%	0.020	11	
Soil Colour	N	2040		N/A	Brown	
Other Material	N	2040		N/A	Stones	
Soil Texture	N	2040		N/A	Clay	
pH	M	2010		4.0	9.0	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.8	
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	
Arsenic	M	2450	mg/kg	1.0	12	
Beryllium	U	2450	mg/kg	1.0	< 1.0	
Cadmium	M	2450	mg/kg	0.10	< 0.10	
Chromium	M	2450	mg/kg	1.0	26	
Antimony	N	2450	mg/kg	2.0	< 2.0	
Copper	M	2450	mg/kg	0.50	16	
Mercury	M	2450	mg/kg	0.10	< 0.10	
Nickel	M	2450	mg/kg	0.50	26	
Lead	M	2450	mg/kg	0.50	18	
Selenium	M	2450	mg/kg	0.20	< 0.20	
Vanadium	U	2450	mg/kg	5.0	40	
Zinc	M	2450	mg/kg	0.50	34	
Total Organic Carbon	M	2625	%	0.20	0.60	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	

Project: 21/3593 Ridgeway Industrial Estate						
Client: Concept Consultants		Chemtest Job No.:		21-25852		
Quotation No.: Q21-24764		Chemtest Sample ID.:		1248844		
		Sample Location:		BH04		
		Sample Type:		SOIL		
		Top Depth (m):		0.50		
		Bottom Depth (m):		0.80		
		Date Sampled:		23-Jul-2021		
		Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	
Benzene	M	2760	mg/kg	0.0010	< 0.0010	
Toluene	M	2760	mg/kg	0.0010	< 0.0010	
Ethylbenzene	M	2760	mg/kg	0.0010	< 0.0010	
m & p-Xylene	M	2760	mg/kg	0.0010	< 0.0010	
o-Xylene	M	2760	mg/kg	0.0010	< 0.0010	
Naphthalene	M	2800	mg/kg	0.10	6.7	
Acenaphthylene	N	2800	mg/kg	0.10	0.34	
Acenaphthene	M	2800	mg/kg	0.10	0.72	
Fluorene	M	2800	mg/kg	0.10	0.79	
Phenanthrene	M	2800	mg/kg	0.10	15	
Anthracene	M	2800	mg/kg	0.10	3.7	
Fluoranthene	M	2800	mg/kg	0.10	14	
Pyrene	M	2800	mg/kg	0.10	13	
Benzo[a]anthracene	M	2800	mg/kg	0.10	11	
Chrysene	M	2800	mg/kg	0.10	10	
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	19	
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	7.2	
Benzo[a]pyrene	M	2800	mg/kg	0.10	19	
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	15	
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	2.8	
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	15	
Total Of 16 PAH's	N	2800	mg/kg	2.0	150	
Total Phenols	M	2920	mg/kg	0.10	< 0.10	

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.
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
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.
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
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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



Final Report

Report No.:	21-25531-1		
Initial Date of Issue:	03-Aug-2021		
Client	Concept Consultants		
Client Address:	Unit D, Herald Way Binley Industrial Estate Coventry CV3 2RQ		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Bridgeway Estate		
Quotation No.:	Q21-24764	Date Received:	26-Jul-2021
Order No.:	CL2994	Date Instructed:	28-Jul-2021
No. of Samples:	1		
Turnaround (Wkdays):	5	Results Due:	03-Aug-2021
Date Approved:	03-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Project: 21/3593 Bridgeway Estate

Client: Concept Consultants		Chemtest Job No.: 21-25531	
Quotation No.: Q21-24764	Chemtest Sample ID.: 1247254	1247254	
	Sample Location:	WS109	
	Sample Type:	SOIL	
	Top Depth (m):	0.5	
	Date Sampled:	22-Jul-2021	
	Asbestos Lab:	DURHAM	
Determinand	Accred.	SOP	LOD
ACM Type	U	2192	N/A
Asbestos Identification	U	2192	N/A
Moisture	N	2030	%
Soil Colour	N	2040	N/A
Other Material	N	2040	N/A
Soil Texture	N	2040	N/A
pH	M	2010	4.0
Boron (Hot Water Soluble)	M	2120	mg/kg
Cyanide (Total)	M	2300	mg/kg
Arsenic	M	2450	mg/kg
Beryllium	U	2450	mg/kg
Cadmium	M	2450	mg/kg
Chromium	M	2450	mg/kg
Antimony	N	2450	mg/kg
Copper	M	2450	mg/kg
Mercury	M	2450	mg/kg
Nickel	M	2450	mg/kg
Lead	M	2450	mg/kg
Selenium	M	2450	mg/kg
Vanadium	U	2450	mg/kg
Zinc	M	2450	mg/kg
Total Organic Carbon	M	2625	%
Aliphatic TPH >C5-C6	N	2680	mg/kg
Aliphatic TPH >C6-C8	N	2680	mg/kg
Aliphatic TPH >C8-C10	M	2680	mg/kg
Aliphatic TPH >C10-C12	M	2680	mg/kg
Aliphatic TPH >C12-C16	M	2680	mg/kg
Aliphatic TPH >C16-C21	M	2680	mg/kg
Aliphatic TPH >C21-C35	M	2680	mg/kg
Aliphatic TPH >C35-C44	N	2680	mg/kg
Total Aliphatic Hydrocarbons	N	2680	mg/kg
Aromatic TPH >C5-C7	N	2680	mg/kg
Aromatic TPH >C7-C8	N	2680	mg/kg
Aromatic TPH >C8-C10	M	2680	mg/kg
Aromatic TPH >C10-C12	M	2680	mg/kg
Aromatic TPH >C12-C16	M	2680	mg/kg
Aromatic TPH >C16-C21	U	2680	mg/kg

Project: 21/3593 Bridgeway Estate

Client: Concept Consultants		Chemtest Job No.: 21-25531		
Quotation No.: Q21-24764	Chemtest Sample ID.: 1247254			
	Sample Location:	WS109		
	Sample Type:	SOIL		
	Top Depth (m):	0.5		
	Date Sampled:	22-Jul-2021		
	Asbestos Lab:	DURHAM		
Determinand	Accred.	SOP	Units	LOD
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0
Benzene	M	2760	mg/kg	0.0010
Toluene	M	2760	mg/kg	0.0010
Ethylbenzene	M	2760	mg/kg	0.0010
m & p-Xylene	M	2760	mg/kg	0.0010
o-Xylene	M	2760	mg/kg	0.0010
Naphthalene	M	2800	mg/kg	0.10
Acenaphthylene	N	2800	mg/kg	0.10
Acenaphthene	M	2800	mg/kg	0.10
Fluorene	M	2800	mg/kg	0.10
Phenanthrene	M	2800	mg/kg	0.10
Anthracene	M	2800	mg/kg	0.10
Fluoranthene	M	2800	mg/kg	0.10
Pyrene	M	2800	mg/kg	0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10
Chrysene	M	2800	mg/kg	0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0
Total Phenols	M	2920	mg/kg	0.10

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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.
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
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.
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.

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Amended Report

Report No.:	21-27820-2		
Initial Date of Issue:	18-Aug-2021	Date of Re-Issue:	24-Aug-2021
Client	Concept Consultants		
Client Address:	47 - 49 Brunel Road London W3 7XR		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Rideway Industrial Estate		
Quotation No.:	Q21-24764	Date Received:	12-Aug-2021
Order No.:	CL3030	Date Instructed:	13-Aug-2021
No. of Samples:	3		
Turnaround (Wkdays):	8	Results Due:	24-Aug-2021
Date Approved:	24-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Water

Project: 21/3593 Rideway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-27820	21-27820	21-27820
Quotation No.: Q21-24764		Chemtest Sample ID.:		1258907	1258908	1258909
		Sample Location:		BH1	WS103	WS105
		Sample Type:		WATER	WATER	WATER
		Date Sampled:		10-Aug-2021	10-Aug-2021	10-Aug-2021
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	8.1	7.7
Chloride	U	1220	mg/l	1.0	78	96
Ammoniacal Nitrogen	U	1220	mg/l	0.050	0.18	0.13
Cyanide (Total)	U	1300	mg/l	0.050	2.1	2.1
Cyanide (Free)	U	1300	mg/l	0.050	2.0	2.0
Thiocyanate	U	1300	mg/l	0.50	0.65	0.64
Cyanide (Complex)	U	1300	mg/l	0.050	0.10	0.10
Cyanide (Total) Low-Level	N	1300	mg/l	0.0050	0.21	0.21
Calcium	U	1455	mg/l	2.00	130	75
Hardness	N	1415	mg/l	1.0	370	380
Arsenic (Dissolved)	U	1455	µg/l	0.20	1.2	1.5
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.27	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.72	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	6.0	4.7
Iron (Dissolved)	N	1455	µg/l	5.0	< 5.0	< 5.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	140	8.4
Nickel (Dissolved)	U	1455	µg/l	0.50	11	12
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Antimony (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.7
Selenium (Dissolved)	U	1455	µg/l	0.50	11	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	1.0	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5	< 2.5
Low-Level Chromium (Hexavalent)	U	1495	µg/l	0.10	< 0.10	< 0.10
Dissolved Organic Carbon Low Level	N	1610	mg/l	N/A	4.8	3.5
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

Results - Water

Project: 21/3593 Rideway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-27820	21-27820	21-27820
Quotation No.: Q21-24764		Chemtest Sample ID.:		1258907	1258908	1258909
		Sample Location:		BH1	WS103	WS105
		Sample Type:		WATER	WATER	WATER
		Date Sampled:		10-Aug-2021	10-Aug-2021	10-Aug-2021
Determinand	Accred.	SOP	Units	LOD		
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
Dichlorodifluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0
Chloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1.0	< 1.0	< 1.0
Bromomethane	U	1760	µg/l	5	< 5	< 5
Chloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5	< 5	< 5
Trichloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	1760	µg/l	1.0	< 1.0	< 1.0
Benzene	N	1760	µg/l	0.10	< 0.10	< 0.10
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0
Trichloroethene	N	1760	µg/l	1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1.0	< 1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10	< 10
Bromodichloromethane	U	1760	µg/l	5	< 5	< 5
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10
Toluene	N	1760	µg/l	0.10	< 0.10	< 0.10
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10	< 10
Tetrachloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2.0	< 2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10	< 10
1,2-Dibromoethane	U	1760	µg/l	5	< 5	< 5
Chlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0
Ethylbenzene	N	1760	µg/l	0.10	< 0.10	< 0.10
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0
m & p-Xylene	N	1760	µg/l	0.10	< 0.10	< 0.10
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0

Results - Water

Project: 21/3593 Rideway Industrial Estate									
Client: Concept Consultants		Chemtest Job No.:				21-27820		21-27820	
Quotation No.: Q21-24764		Chemtest Sample ID.:				1258907		1258908	
		Sample Location:				BH1		WS103	
		Sample Type:				WATER		WATER	
		Date Sampled:				10-Aug-2021		10-Aug-2021	
Determinand	Accred.	SOP	Units	LOD					
o-Xylene	N	1760	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: 21/3593 Rideway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-27820	21-27820	21-27820
Quotation No.: Q21-24764		Chemtest Sample ID.:		1258907	1258908	1258909
		Sample Location:		BH1	WS103	WS105
		Sample Type:		WATER	WATER	WATER
		Date Sampled:		10-Aug-2021	10-Aug-2021	10-Aug-2021
Determinand	Accred.	SOP	Units	LOD		
2,4-Dichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50
Naphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50
4-Chloroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50
Hexachlorobutadiene	N	1790	µg/l	0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50
2-Methylnaphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	1790	µg/l	0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50
2-Chloronaphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50
2-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50
Acenaphthylene	N	1790	µg/l	0.50	< 0.50	< 0.50
Dimethylphthalate	N	1790	µg/l	0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50	< 0.50
Acenaphthene	N	1790	µg/l	0.50	< 0.50	< 0.50
3-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50
Dibenzofuran	N	1790	µg/l	0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50	< 0.50
Fluorene	N	1790	µg/l	0.50	< 0.50	< 0.50
Diethyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50
4-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50
Azobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.50	< 0.50	< 0.50
Hexachlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50
Pentachlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50
Phenanthrene	N	1790	µg/l	0.50	< 0.50	< 0.50
Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50
Carbazole	N	1790	µg/l	0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50
Fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50
Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50
Butylbenzyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50
Benzof[a]anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50
Chrysene	N	1790	µg/l	0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[k]fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50

Results - Water

Project: 21/3593 Rideway Industrial Estate

Client: Concept Consultants		Chemtest Job No.:		21-27820	21-27820	21-27820
Quotation No.: Q21-24764		Chemtest Sample ID.:		1258907	1258908	1258909
		Sample Location:		BH1	WS103	WS105
		Sample Type:		WATER	WATER	WATER
		Date Sampled:		10-Aug-2021	10-Aug-2021	10-Aug-2021
Determinand	Accred.	SOP	Units	LOD		
Benzo[a]pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.50	< 0.50	< 0.50
4-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50
Naphthalene	N	1800	µg/l	0.010	< 0.010	< 0.010
Acenaphthylene	N	1800	µg/l	0.010	< 0.010	< 0.010
Acenaphthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Fluorene	N	1800	µg/l	0.010	< 0.010	< 0.010
Phenanthrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010
Fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[a]anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010
Chrysene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010	< 0.010	< 0.010
Total Of 16 PAH's	N	1800	µg/l	0.20	< 0.20	< 0.20
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

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.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
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).
1495	Low Level Hexavalent Chromium in Waters	Chromium [VI]	Colorimetric determination of hexavalent chromium expressed as Cr (VI) µg/l in water, using Ion Chromatography and UV-visible spectrophotometry.
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
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.
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS 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.
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.

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



Final Report

Report No.:	21-28058-1		
Initial Date of Issue:	24-Aug-2021		
Client	Concept Consultants		
Client Address:	Unit D, Herald Way Binley Industrial Estate Coventry CV3 2RQ		
Contact(s):	Ana Gonzalez Kasia Mazerant		
Project	21/3593 Ridgeway		
Quotation No.:	Q21-24764	Date Received:	13-Aug-2021
Order No.:	CL3031	Date Instructed:	16-Aug-2021
No. of Samples:	9		
Turnaround (Wkdays):	5	Results Due:	20-Aug-2021
Date Approved:	24-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Water

Project: 21/3593 Ridgeway

Client: Concept Consultants		Chemtest Job No.:				21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058
Quotation No.: Q21-24764		Chemtest Sample ID.:		1260051		1260052	1260053	1260054	1260055	1260056	1260057	1260058	1260059	1260060	1260061	1260062
		Sample Location:		WS108		BH4	BH3	WS107	WS110	BH2	BH5	WS111	WS112	WS113	WS114	WS115
		Sample Type:		WATER		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:		11-Aug-2021		11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021
Determinand	Accred.	SOP	Units	LOD	7.8	7.7	7.8	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.6	7.4
pH	U	1010		N/A	48	110	69	32	70	28	39	28	28	28	39	61
Chloride	U	1220	mg/l	1.0	4.3	1.1	0.75	0.24	0.51	0.54	0.51	0.54	0.51	0.54	0.51	0.46
Ammoniacal Nitrogen	U	1220	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Thiocyanate	U	1300	mg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Total) Low-Level	N	1300	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Calcium	U	1455	mg/l	2.00	68	90	50	95	120	92	70	92	92	70	120	120
Hardness	N	1415	mg/l	1.0	200	260	150	280	350	260	200	260	260	200	350	350
Arsenic (Dissolved)	U	1455	µg/l	0.20	3.5	1.9	2.2	1.3	0.90	2.3	0.38	2.3	2.3	0.38	0.86	0.86
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	1.2	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	2.9	4.2	< 0.50	3.0	0.55	2.2	0.68	2.2	2.2	0.68	23	23
Iron (Dissolved)	N	1455	µg/l	5.0	91	11	260	< 5.0	28	42	51	42	42	51	< 5.0	< 5.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	300	94	490	150	1200	710	380	1200	1200	380	490	490
Nickel (Dissolved)	U	1455	µg/l	0.50	6.7	16	9.1	3.1	3.7	12	4.7	3.7	3.7	12	4.7	20
Lead (Dissolved)	U	1455	µg/l	0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.5
Antimony (Dissolved)	U	1455	µg/l	0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9
Selenium (Dissolved)	U	1455	µg/l	0.50	9.9	6.0	3.6	0.75	4.7	4.2	0.86	4.7	4.7	4.2	0.86	3.2
Vanadium (Dissolved)	U	1455	µg/l	0.50	4.4	3.9	4.5	4.0	3.7	3.3	3.9	3.7	3.7	3.3	3.9	3.5
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	61
Low-Level Chromium (Hexavalent)	U	1495	µg/l	0.10	[B] 1.0	[B] 0.66	[B] < 0.10	[B] 0.67	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] 0.12
Dissolved Organic Carbon Low Level	N	1610	mg/l	N/A	5.5	5.3	4.5	7.0	6.7	6.8	5.0	6.7	6.7	6.8	5.0	2.9
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 21/3593 Ridgeway

Client: Concept Consultants		Chemtest Job No.:				21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058
Quotation No.: Q21-24764		Chemtest Sample ID.:		1260051		1260052	1260053	1260054	1260055	1260056	1260057	1260058	1260059	1260060	1260061	1260062
		Sample Location:		WS108		BH4	BH3	WS107	WS110	BH2	BH5	WS111	WS112	WS113	WS114	WS115
		Sample Type:		WATER		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:		11-Aug-2021		11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021
Determinand	Accred.	SOP	Units	LOD												
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	N	1760	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane	U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	N	1760	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	N	1760	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	N	1760	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Water

Project: 21/3593 Ridgeway

Client: Concept Consultants		Chemtest Job No.:				Chemtest Sample ID.:															
Quotation No.: Q21-24764		Sample Location:		Sample Type:		Date Sampled:		21-28058		21-28058		21-28058		21-28058		21-28058		21-28058		21-28058	
								1260051		1260052		1260053		1260054		1260055		1260056		1260057	
								WS108		BH4		BH3		WS107		WS110		BH2		BH5	
								WATER		WATER		WATER		WATER		WATER		WATER		WATER	
								11-Aug-2021		11-Aug-2021		11-Aug-2021		11-Aug-2021		11-Aug-2021		11-Aug-2021		11-Aug-2021	
Determinand		Accred.		SOP		Units		LOD													
o-Xylene		N		1760		µg/l		0.10		< 0.10		< 0.10		< 0.10		< 0.10		< 0.10		< 0.10	
o-Xylene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Styrene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Tribromomethane		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Isopropylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromobenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,2,3-Trichloropropane		N		1760		µg/l		50		< 50		< 50		< 50		< 50		< 50		< 50	
N-Propylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
2-Chlorotoluene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3,5-Trimethylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
4-Chlorotoluene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Tert-Butylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,2,4-Trimethylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Sec-Butylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene		N		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
4-Isopropyltoluene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,4-Dichlorobenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
N-Butylbenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,2-Dichlorobenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,2-Dibromo-3-Chloropropane		U		1760		µg/l		50		< 50		< 50		< 50		< 50		< 50		< 50	
1,2,4-Trichlorobenzene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Hexachlorobutadiene		U		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,2,3-Trichlorobenzene		U		1760		µg/l		2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Methyl Tert-Butyl Ether		N		1760		µg/l		1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
N-Nitrosodimethylamine		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Phenol		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorophenol		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bis-(2-Chloroethyl)Ether		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
2-Methylphenol (o-Cresol)		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bis(2-Chloroisopropyl)Ether		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Hexachloroethane		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
N-Nitrosodi-n-propylamine		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
4-Methylphenol		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Nitrobenzene		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Isophorone		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
2-Nitrophenol		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
2,4-Dimethylphenol		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bis(2-Chloroethoxy)Methane		N		1790		µg/l		0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	

Project: 21/3593 Ridgeway

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Results - Water

Project: 21/3593 Ridgeway

Client: Concept Consultants		Chemtest Job No.:					21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058	21-28058
Quotation No.: Q21-24764		Chemtest Sample ID.:			1260051	1260052	1260053	1260054	1260055	1260056	1260057	1260058	1260059	1260060	1260061	1260062
		Sample Location:			WS108	BH4	BH3	WS107	WS110	BH2	BH5	WS104	WS105	WS106	WS107	WS108
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021	11-Aug-2021
Determinand	Accred.	SOP	Units	LOD												
Benzo[a]pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthylene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[a]anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Of 16 PAH's	N	1800	µg/l	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Project: 21/3593 Ridgeway				Chemtest Job No.:		21-28058
Client: Concept Consultants				Chemtest Sample ID.:		1260059
Quotation No.: Q21-24764				Sample Location:		BH6
				Sample Type:		WATER
				Date Sampled:		11-Aug-2021
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.8	
Chloride	U	1220	mg/l	1.0	55	
Ammoniacal Nitrogen	U	1220	mg/l	0.050	12	
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	
Thiocyanate	U	1300	mg/l	0.50	9.7	
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	
Cyanide (Total) Low-Level	N	1300	mg/l	0.0050	< 0.0050	
Calcium	U	1455	mg/l	2.00	71	
Hardness	N	1415	mg/l	1.0	200	
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	
Copper (Dissolved)	U	1455	µg/l	0.50	1.4	
Iron (Dissolved)	N	1455	µg/l	5.0	< 5.0	
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	
Manganese (Dissolved)	U	1455	µg/l	0.50	41	
Nickel (Dissolved)	U	1455	µg/l	0.50	8.5	
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	
Antimony (Dissolved)	U	1455	µg/l	0.50	< 0.50	
Selenium (Dissolved)	U	1455	µg/l	0.50	4.3	
Vanadium (Dissolved)	U	1455	µg/l	0.50	2.8	
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5	
Low-Level Chromium (Hexavalent)	U	1495	µg/l	0.10	[B] 0.11	
Dissolved Organic Carbon Low Level	N	1610	mg/l	N/A	2.6	
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	

Project: 21/3593 Ridgeway		Chemtest Job No.: 21-28058			
Client: Concept Consultants		Chemtest Sample ID.: 1260059			
Quotation No.: Q21-24764		Sample Location: BH6			
		Sample Type: WATER			
		Date Sampled: 11-Aug-2021			
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10
Dichlorodifluoromethane	U	1760	µg/l	1.0	< 1.0
Chloromethane	U	1760	µg/l	1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1.0	< 1.0
Bromomethane	U	1760	µg/l	5	< 5
Chloroethane	U	1760	µg/l	2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5	< 5
Trichloromethane	U	1760	µg/l	1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1.0	< 1.0
1,1-Dichloropropene	U	1760	µg/l	1.0	< 1.0
Benzene	N	1760	µg/l	0.10	< 0.10
Benzene	U	1760	µg/l	1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0	< 2.0
Trichloroethene	N	1760	µg/l	1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10
Bromodichloromethane	U	1760	µg/l	5	< 5
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10
Toluene	N	1760	µg/l	0.10	< 0.10
Toluene	U	1760	µg/l	1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10
Tetrachloroethene	U	1760	µg/l	1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10
1,2-Dibromoethane	U	1760	µg/l	5	< 5
Chlorobenzene	N	1760	µg/l	1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0	< 2.0
Ethylbenzene	N	1760	µg/l	0.10	< 0.10
Ethylbenzene	U	1760	µg/l	1.0	< 1.0
m & p-Xylene	N	1760	µg/l	0.10	< 0.10
m & p-Xylene	U	1760	µg/l	1.0	< 1.0

Project: 21/3593 Ridgeway				Chemtest Job No.:		21-28058
Client: Concept Consultants				Chemtest Sample ID.:		1260059
Quotation No.: Q21-24764				Sample Location:		BH6
				Sample Type:		WATER
				Date Sampled:		11-Aug-2021
Determinand	Accred.	SOP	Units	LOD		
o-Xylene	N	1760	µg/l	0.10	< 0.10	
o-Xylene	U	1760	µg/l	1.0	< 1.0	
Styrene	U	1760	µg/l	1.0	< 1.0	
Tribromomethane	U	1760	µg/l	1.0	< 1.0	
Isopropylbenzene	U	1760	µg/l	1.0	< 1.0	
Bromobenzene	U	1760	µg/l	1.0	< 1.0	
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50	
N-Propylbenzene	U	1760	µg/l	1.0	< 1.0	
2-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	
1,3,5-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	
4-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	
Tert-Butylbenzene	U	1760	µg/l	1.0	< 1.0	
1,2,4-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	
Sec-Butylbenzene	U	1760	µg/l	1.0	< 1.0	
1,3-Dichlorobenzene	N	1760	µg/l	1.0	< 1.0	
4-Isopropyltoluene	U	1760	µg/l	1.0	< 1.0	
1,4-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	
N-Butylbenzene	U	1760	µg/l	1.0	< 1.0	
1,2-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50	
1,2,4-Trichlorobenzene	U	1760	µg/l	1.0	< 1.0	
Hexachlorobutadiene	U	1760	µg/l	1.0	< 1.0	
1,2,3-Trichlorobenzene	U	1760	µg/l	2.0	< 2.0	
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	
N-Nitrosodimethylamine	N	1790	µg/l	0.50	< 0.50	
Phenol	N	1790	µg/l	0.50	< 0.50	
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.50	< 0.50	
1,3-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	
1,4-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	
1,2-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.50	< 0.50	
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.50	< 0.50	
Hexachloroethane	N	1790	µg/l	0.50	< 0.50	
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.50	< 0.50	
4-Methylphenol	N	1790	µg/l	0.50	< 0.50	
Nitrobenzene	N	1790	µg/l	0.50	< 0.50	
Isophorone	N	1790	µg/l	0.50	< 0.50	
2-Nitrophenol	N	1790	µg/l	0.50	< 0.50	
2,4-Dimethylphenol	N	1790	µg/l	0.50	< 0.50	
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.50	< 0.50	

Project: 21/3593 Ridgeway

Client: Concept Consultants		Chemtest Job No.:		21-28058
Quotation No.: Q21-24764		Chemtest Sample ID.:		1260059
		Sample Location:		BH6
		Sample Type:		WATER
		Date Sampled:		11-Aug-2021
Determinand	Accred.	SOP	Units	LOD
2,4-Dichlorophenol	N	1790	µg/l	0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.50
Naphthalene	N	1790	µg/l	0.50
4-Chloroaniline	N	1790	µg/l	0.50
Hexachlorobutadiene	N	1790	µg/l	0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.50
2-Methylnaphthalene	N	1790	µg/l	0.50
Hexachlorocyclopentadiene	N	1790	µg/l	0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.50
2-Chloronaphthalene	N	1790	µg/l	0.50
2-Nitroaniline	N	1790	µg/l	0.50
Acenaphthylene	N	1790	µg/l	0.50
Dimethylphthalate	N	1790	µg/l	0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.50
Acenaphthene	N	1790	µg/l	0.50
3-Nitroaniline	N	1790	µg/l	0.50
Dibenzofuran	N	1790	µg/l	0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.50
Fluorene	N	1790	µg/l	0.50
Diethyl Phthalate	N	1790	µg/l	0.50
4-Nitroaniline	N	1790	µg/l	0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.50
Azobenzene	N	1790	µg/l	0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.50
Hexachlorobenzene	N	1790	µg/l	0.50
Pentachlorophenol	N	1790	µg/l	0.50
Phenanthrene	N	1790	µg/l	0.50
Anthracene	N	1790	µg/l	0.50
Carbazole	N	1790	µg/l	0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.50
Fluoranthene	N	1790	µg/l	0.50
Pyrene	N	1790	µg/l	0.50
Butylbenzyl Phthalate	N	1790	µg/l	0.50
Benzof[a]anthracene	N	1790	µg/l	0.50
Chrysene	N	1790	µg/l	0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.50
Benzo[k]fluoranthene	N	1790	µg/l	0.50

Project: 21/3593 Ridgeway

Client: Concept Consultants		Chemtest Job No.:		21-28058
Quotation No.: Q21-24764		Chemtest Sample ID.:		1260059
		Sample Location:		BH6
		Sample Type:		WATER
		Date Sampled:		11-Aug-2021
Determinand	Accred.	SOP	Units	LOD
Benzo[a]pyrene	N	1790	µg/l	0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.50
4-Nitrophenol	N	1790	µg/l	0.50
Naphthalene	N	1800	µg/l	0.010
Acenaphthylene	N	1800	µg/l	0.010
Acenaphthene	N	1800	µg/l	0.010
Fluorene	N	1800	µg/l	0.010
Phenanthrene	N	1800	µg/l	0.010
Anthracene	N	1800	µg/l	0.010
Fluoranthene	N	1800	µg/l	0.010
Pyrene	N	1800	µg/l	0.010
Benzo[a]anthracene	N	1800	µg/l	0.010
Chrysene	N	1800	µg/l	0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010
Benzo[a]pyrene	N	1800	µg/l	0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010
Total Of 16 PAH's	N	1800	µg/l	0.20
Total Phenols	U	1920	mg/l	0.030

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:
1260051			WS108	11-Aug-2021	B	Coloured Winchester 1000ml
1260051			WS108	11-Aug-2021	B	EPA Vial 40ml
1260051			WS108	11-Aug-2021	B	Plastic Bottle 1000ml
1260052			BH4	11-Aug-2021	B	Coloured Winchester 1000ml
1260052			BH4	11-Aug-2021	B	EPA Vial 40ml
1260052			BH4	11-Aug-2021	B	Plastic Bottle 1000ml
1260053			BH3	11-Aug-2021	B	Coloured Winchester 1000ml
1260053			BH3	11-Aug-2021	B	EPA Vial 40ml
1260053			BH3	11-Aug-2021	B	Plastic Bottle 1000ml
1260054			WS107	11-Aug-2021	B	Coloured Winchester 1000ml
1260054			WS107	11-Aug-2021	B	EPA Vial 40ml
1260054			WS107	11-Aug-2021	B	Plastic Bottle 1000ml
1260055			WS110	11-Aug-2021	B	Coloured Winchester 1000ml
1260055			WS110	11-Aug-2021	B	EPA Vial 40ml
1260055			WS110	11-Aug-2021	B	Plastic Bottle 1000ml
1260056			BH2	11-Aug-2021	B	Coloured Winchester 1000ml
1260056			BH2	11-Aug-2021	B	EPA Vial 40ml
1260056			BH2	11-Aug-2021	B	Plastic Bottle 1000ml
1260057			BH5	11-Aug-2021	B	Coloured Winchester 1000ml
1260057			BH5	11-Aug-2021	B	EPA Vial 40ml
1260057			BH5	11-Aug-2021	B	Plastic Bottle 1000ml

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:
1260058			WS104	11-Aug-2021	B	Coloured Winchester 1000ml
1260058			WS104	11-Aug-2021	B	EPA Vial 40ml
1260058			WS104	11-Aug-2021	B	Plastic Bottle 1000ml
1260059			BH6	11-Aug-2021	B	Coloured Winchester 1000ml
1260059			BH6	11-Aug-2021	B	EPA Vial 40ml
1260059			BH6	11-Aug-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.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
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).
1495	Low Level Hexavalent Chromium in Waters	Chromium [VI]	Colorimetric determination of hexavalent chromium expressed as Cr (VI) µg/l in water, using Ion Chromatography and UV-visible spectrophotometry.
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
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.
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS 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

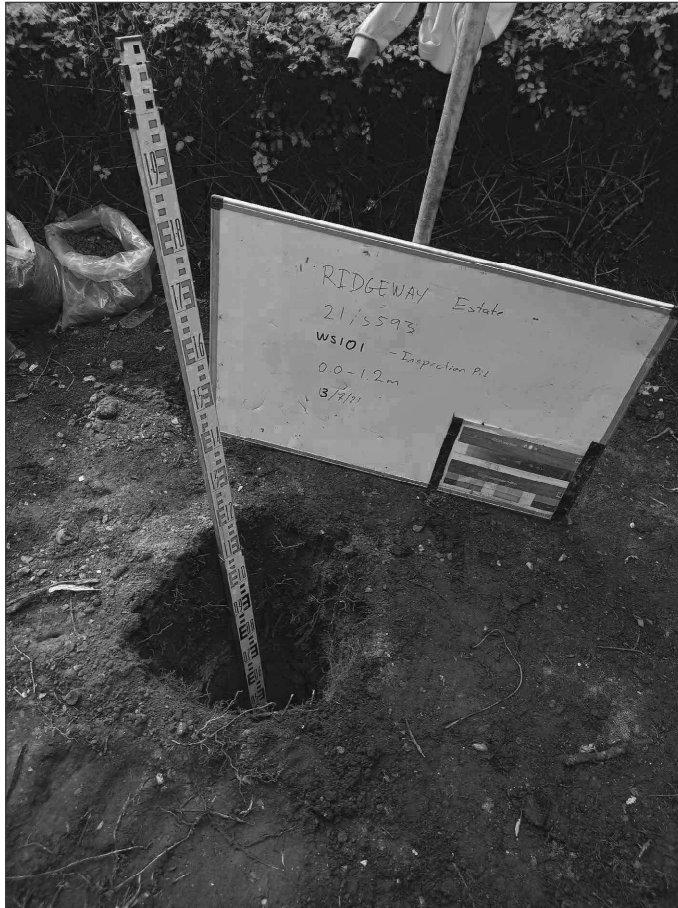
Charges may apply to extended sample storage

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

customerservices@chemtest.com

13. PHOTOGRAPHS

Project No	21/3593	Hole ID	WS101	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 6PF tel@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit D Harford Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	001 & 002	
Client	Ove Arup and Partners	Date	13/07/2021	



Photograph No 001



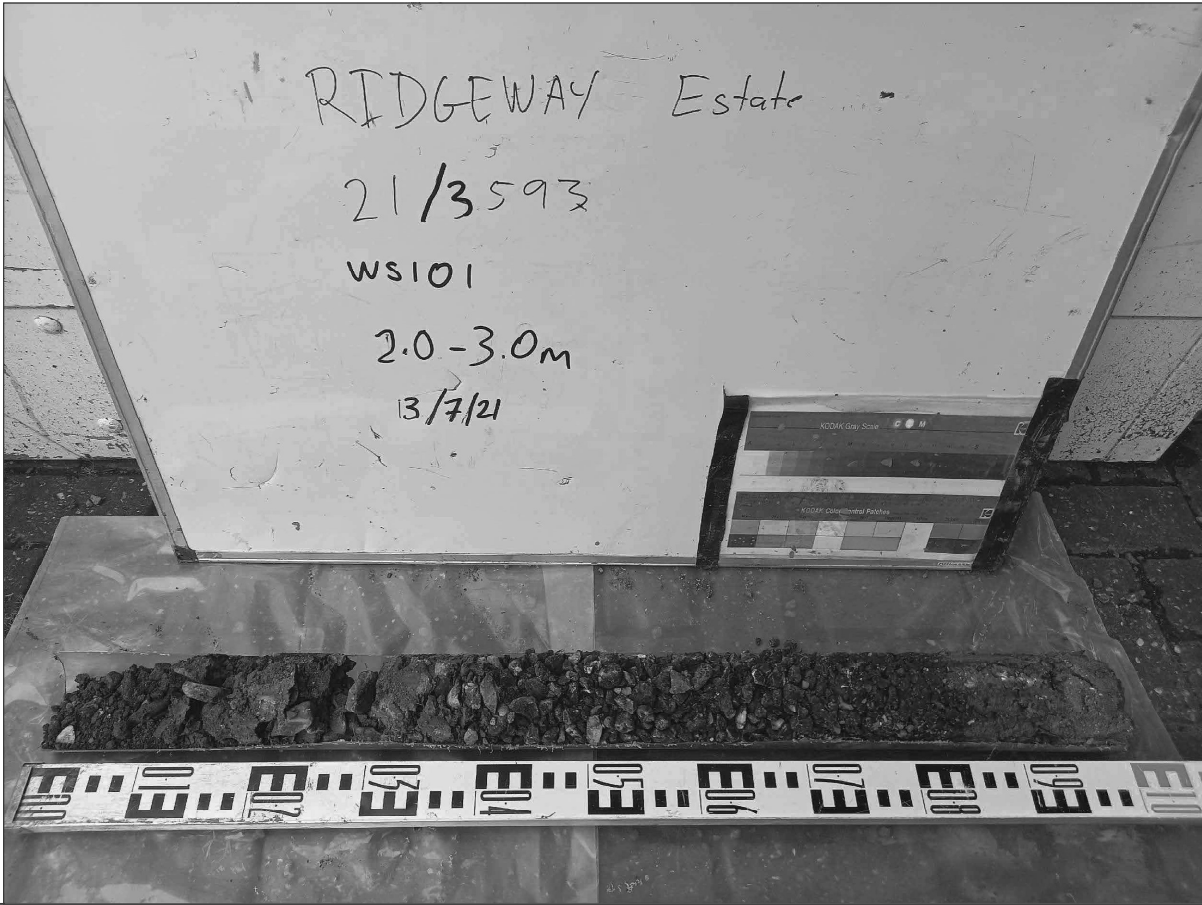
Photograph No 002

Project No	21/3593	Hole ID	WS101	  HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9RF uk@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit 10 Harford Way Binley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	003-004	
Client	Ove Arup and Partners	Date	13/07/2021	



Photograph No 003-004

Project No	21/3593	Hole ID	WS101	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W2 9PF, tel: 020 8111 2880, fax: 020 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7AR, tel: 020 8111 2880, fax: 020 8111 2880 MIDLANDS OFFICE: Unit 10 Harland Way, Brimley Industrial Estate, Coventry CV3 2HG, tel: 024 7708 7670, fax: 024 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	005 & 006	
Client	Ove Arup and Partners	Date	13/07/2021	

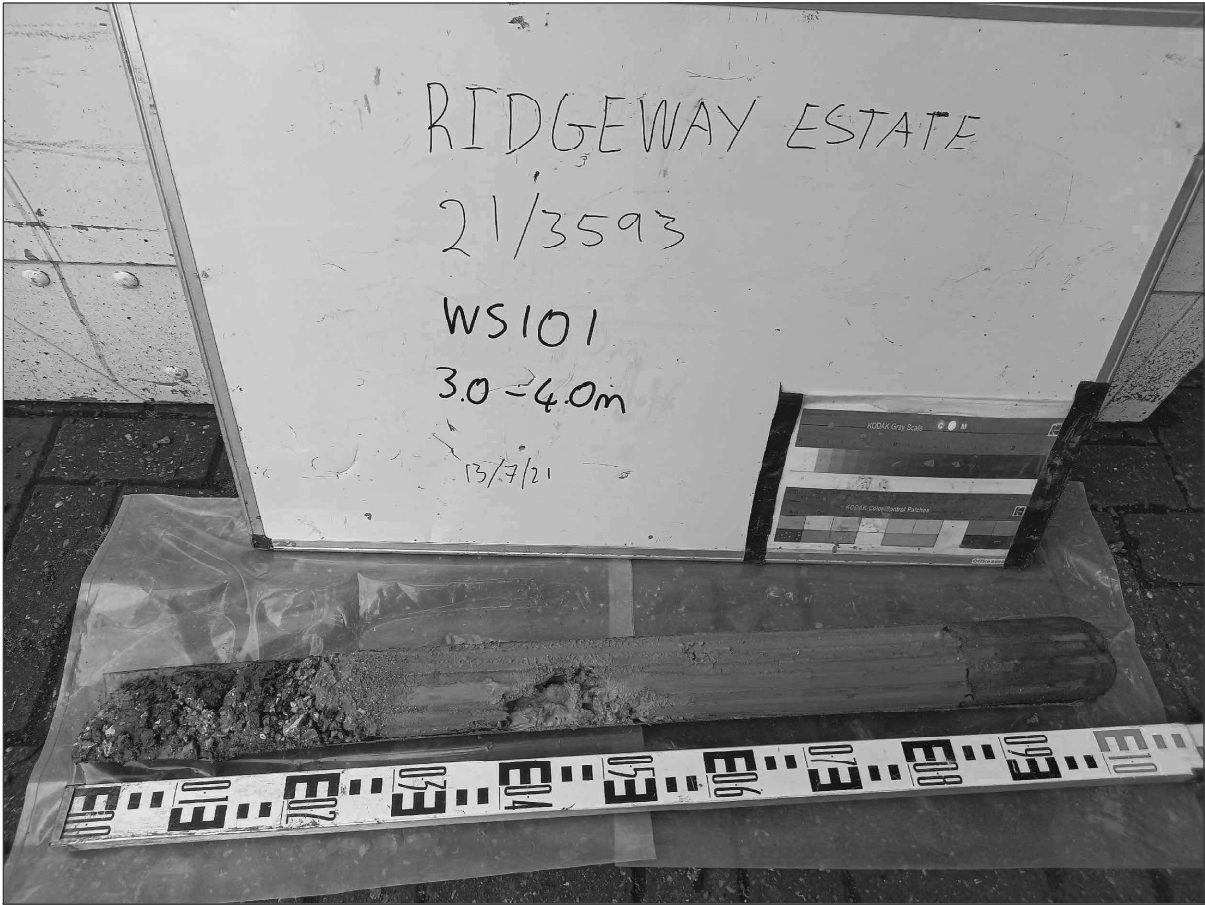


Photograph No 005



Photograph No 006

Project No	21/3593	Hole ID	WS101	      HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF info@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harfield Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	007 & 008	
Client	Ove Arup and Partners	Date	13/07/2021	



Photograph No 007



Photograph No 008

Project No	21/3593	Hole ID	WS102	CONCEPT  HEAD OFFICE: Unit 9 Waple Mews Waple Way London W2 2PF s@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7XR lab@conceptconsultants.co.uk +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit D Harfield Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	009 & 010	
Client	Ove Arup and Partners	Date	14/07/2021	



Photograph No 009



Photograph No 010

Project No	21/3593	Hole ID	WS102	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W2 8PF, uk@conceptconsultants.co.uk, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7XR, lab@conceptconsultants.co.uk, +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit 10 Harford Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	011 & 012	
Client	Ove Arup and Partners	Date	14/07/2021	

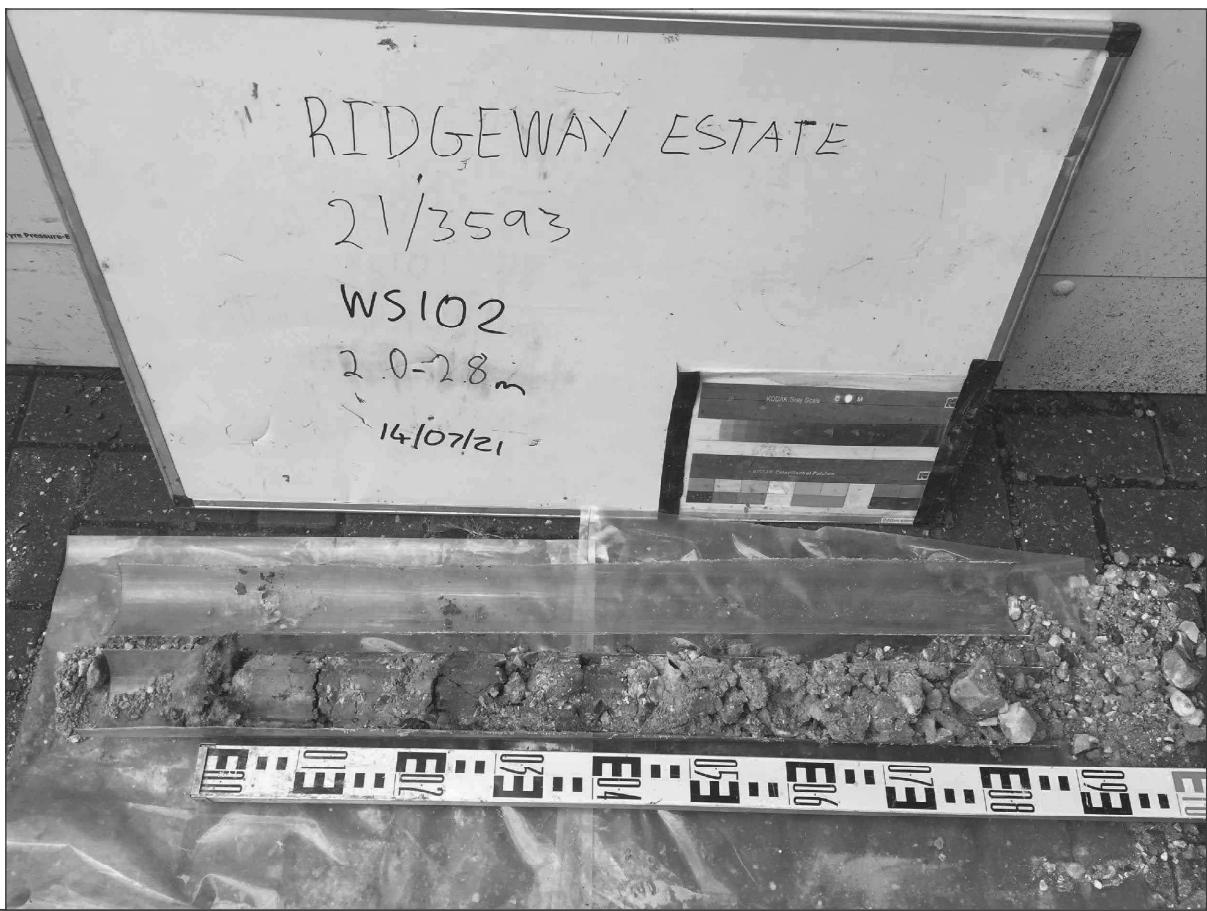


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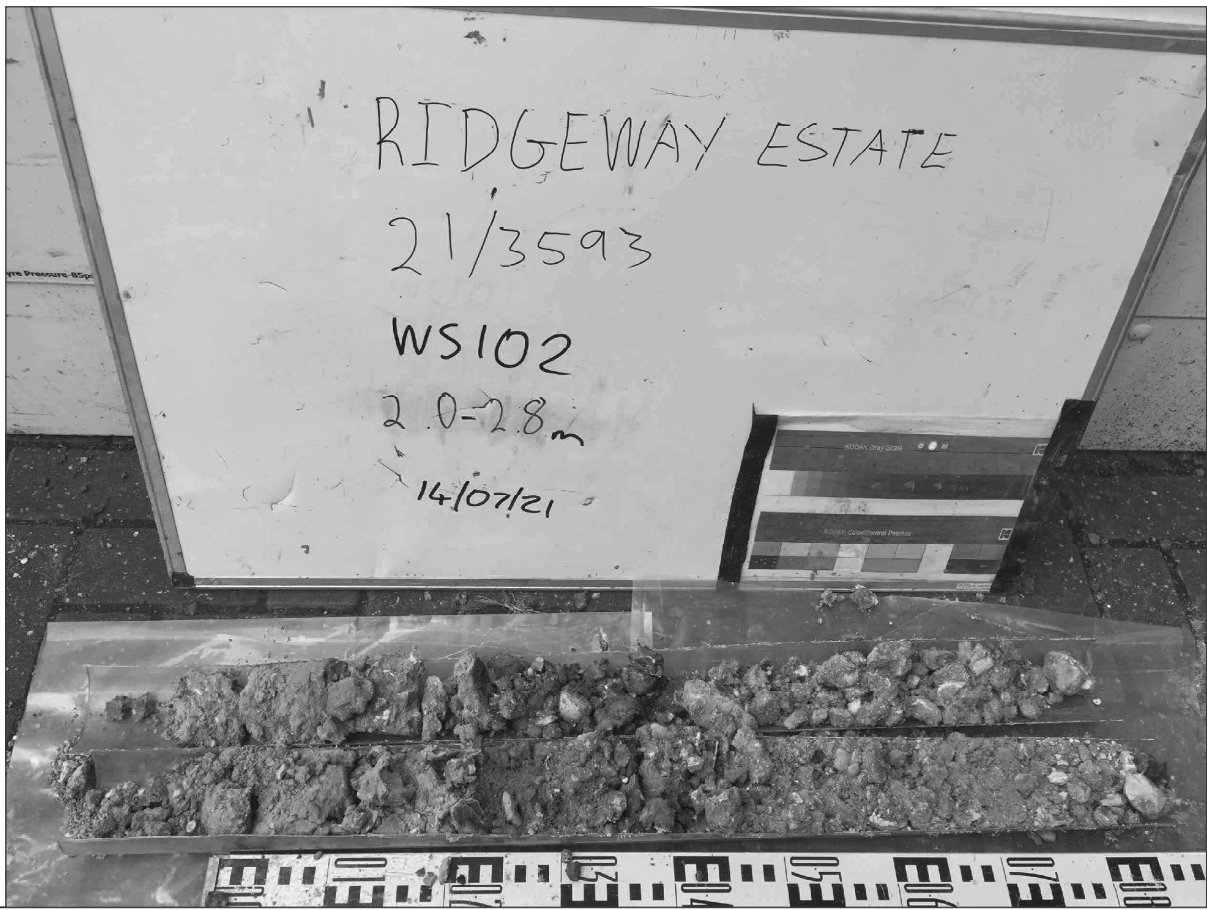


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Project Name	LHR114 Ridgeway Trading Estate	Photograph No	013 & 014	
Client	Ove Arup and Partners	Date	14/07/2021	

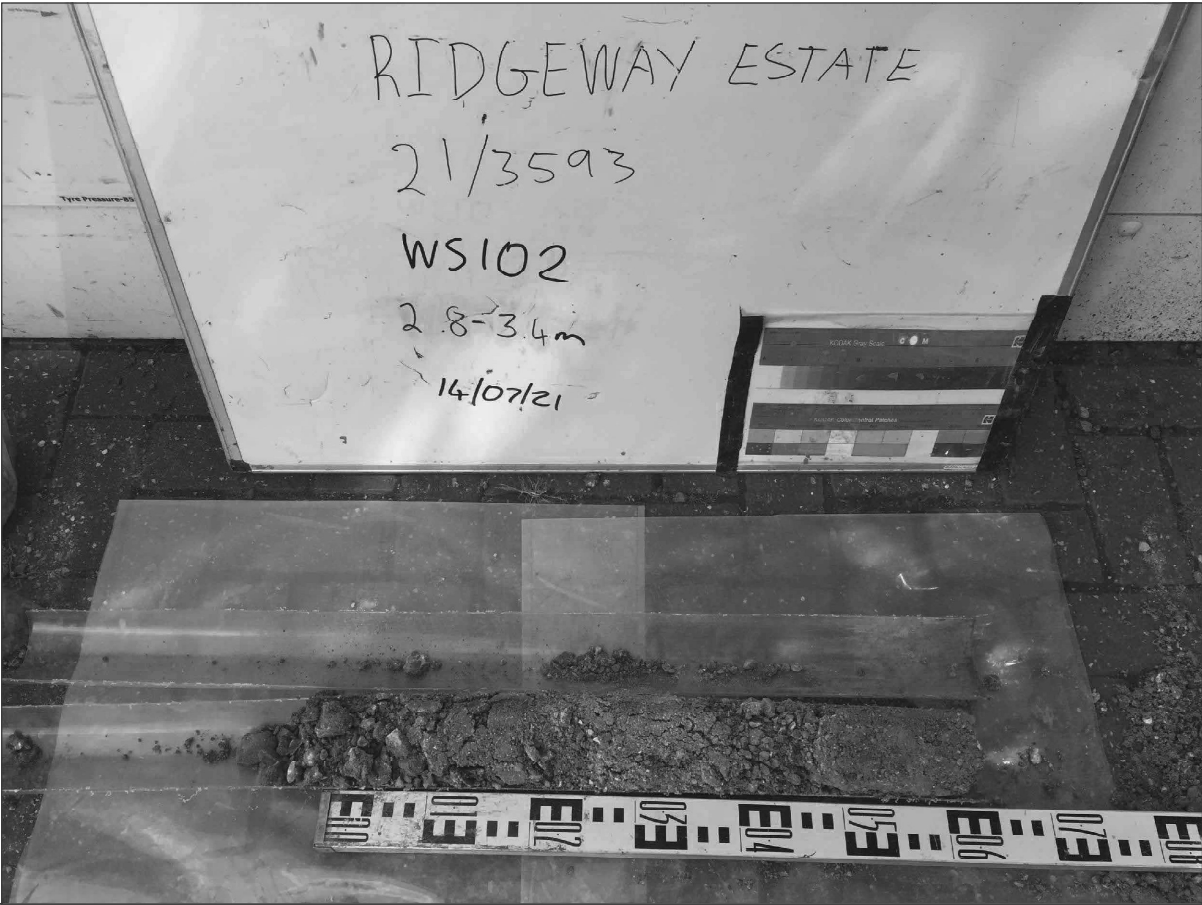


Photograph No 013



Photograph No 014

Project No	21/3593	Hole ID	WS102	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W2 2RF, tel: 020 8111 2880, info@conceptconsultants.co.uk LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7XR, lab@conceptconsultants.co.uk, +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	015 & 016	
Client	Ove Arup and Partners	Date	14/07/2021	



Photograph No 015



Photograph No 016

Project No	21/3593	Hole ID	WS103	     
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	017 & 018	
Client	Ove Arup and Partners	Date	14/07/2021	
				HEAD OFFICE: Unit 9 Waple Mees Waple Way London W12 6PF tel@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553

CONCEPT



HEAD OFFICE:
Unit 9 Waple Mees
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MIDLANDS OFFICE:
Unit 10 Harland Way
Binley Industrial Estate
Coventry CV3 2PQ
coventry@conceptconsultants.co.uk
+44(0) 24 7708 7670

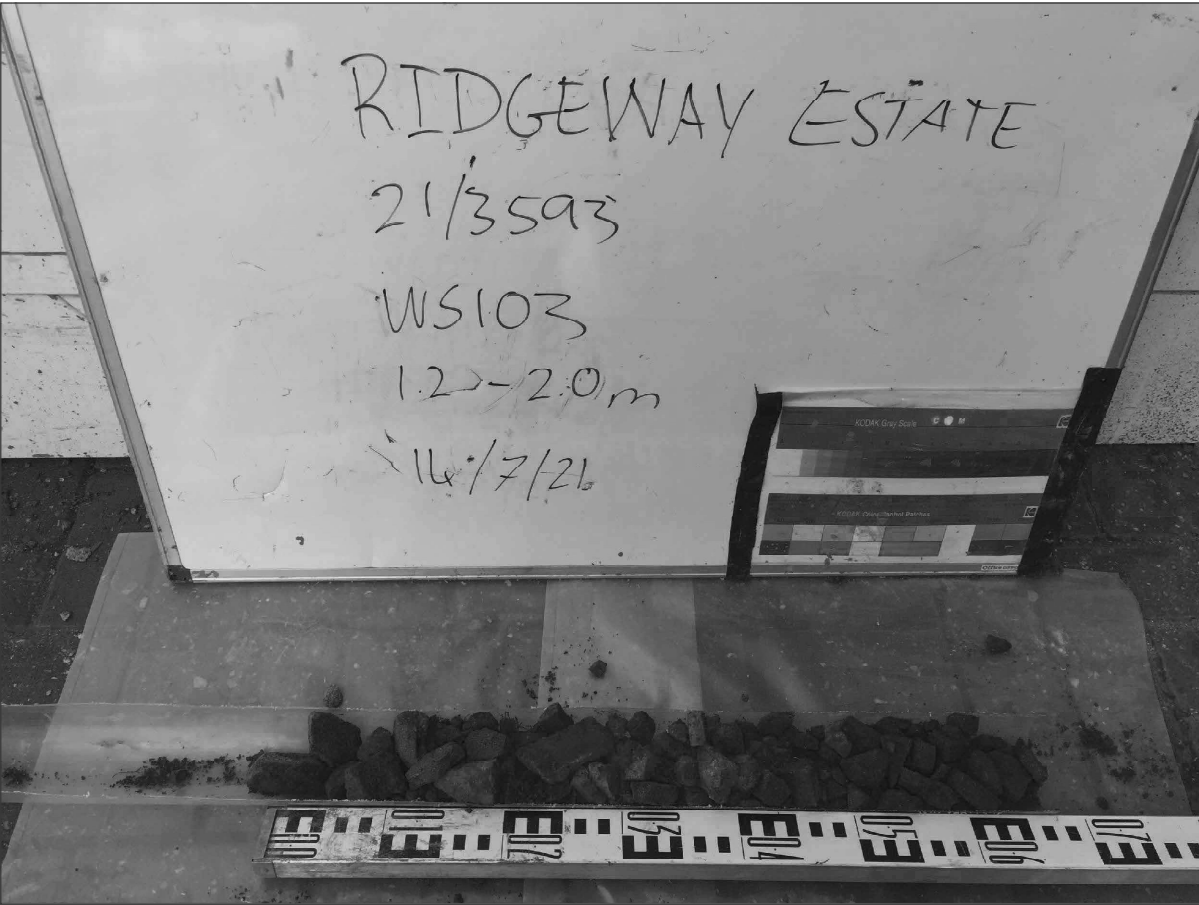


Photograph No 017



Photograph No 018

Project No	21/3593	Hole ID	WS103	 
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	019 & 020	
Client	Ove Arup and Partners	Date	14/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF info@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670		

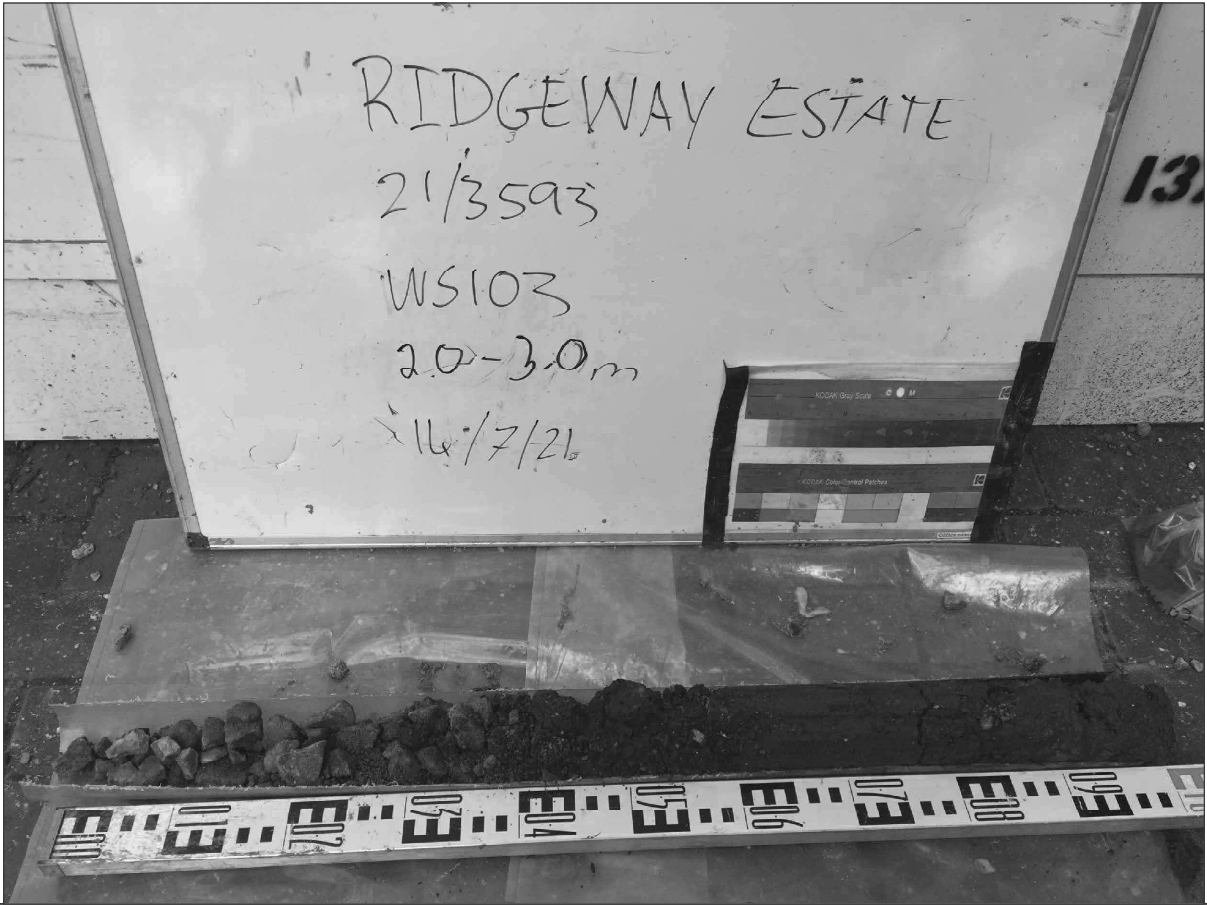


Photograph No 019



Photograph No 020

Project No	21/3593	Hole ID	WS103	
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	021 & 022	
Client	Ove Arup and Partners	Date	14/07/2021	



Photograph No 021



Photograph No 022

Project No	21/3593	Hole ID	WS103	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF uk@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7XR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harfield Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	023 & 024	
Client	Ove Arup and Partners	Date	14/07/2021	

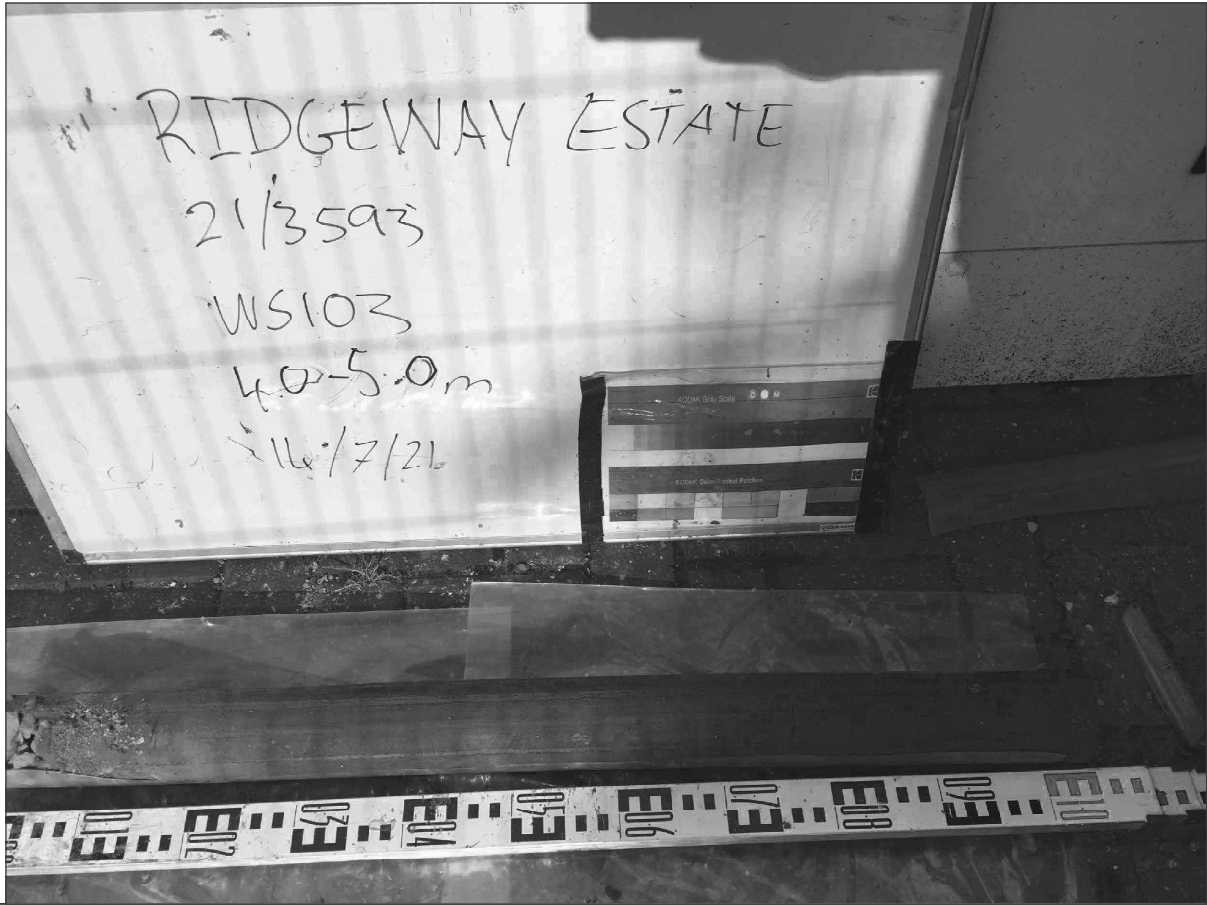


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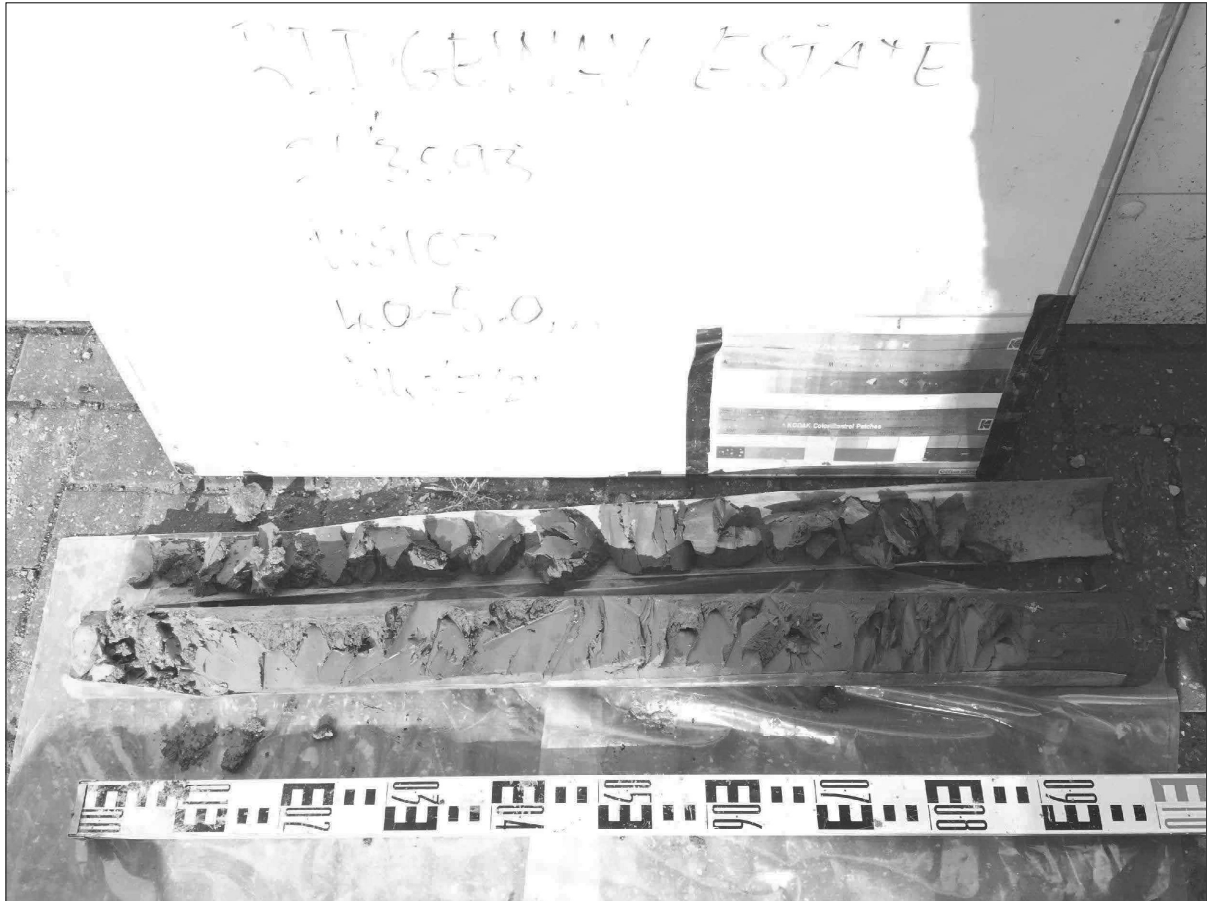


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Project No	21/3593	Hole ID	WS103	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W12 8PF, uk@conceptconsultants.co.uk, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7XR, lab@conceptconsultants.co.uk, +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way, Binley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	025 & 026	
Client	Ove Arup and Partners	Date	14/07/2021	



Photograph No 025



Photograph No 026

Project No	21/3593	Hole ID	WS104	CONCEPT REGISTERED RISK AGS CHAS
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	027 & 028	
Client	Ove Arup and Partners	Date	15/07/2021	

HEAD OFFICE:
Unit 9 Waple Mees
Waple Way
London W2 9PF
s@conceptconsultants.co.uk
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LABORATORY:
47-49 Brunel Road
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MIDLANDS OFFICE:
Unit D Harford Way
Binley Industrial Estate
Coventry CV3 2PQ
coventry@conceptconsultants.co.uk
+44(0) 24 7708 7670



Photograph No 027



Photograph No 028

Project No 21/3593

Project Name LHR114 Ridgeway Trading Estate

Client Ove Arup and Partners

Hole ID WS104

Photograph No 029 & 030

Date 15/07/2021

CONCEPT



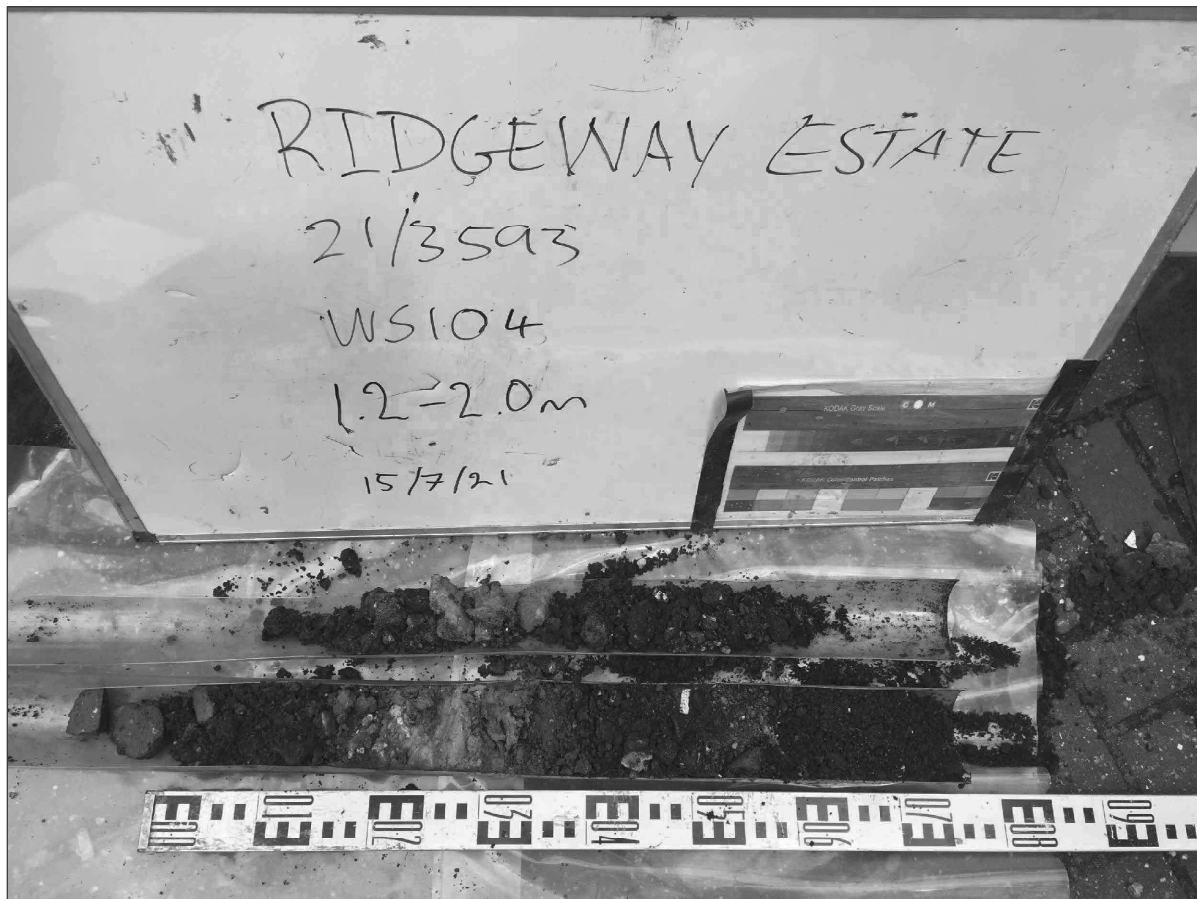
HEAD OFFICE:
Unit 9 Waple Mees
Waple Way
London W2 2RF
tel: 020 8111 2880
info@conceptconsultants.co.uk

LABORATORY:
47-49 Brunel Road
Old Oak Common
Acton London W3 7AR
tel: 020 8111 2880
lab@conceptconsultants.co.uk

MIDLANDS OFFICE:
Unit D Harford Way
Binley Industrial Estate
Coventry CV3 2HG
coventry@conceptconsultants.co.uk
+44(0) 24 7708 7670

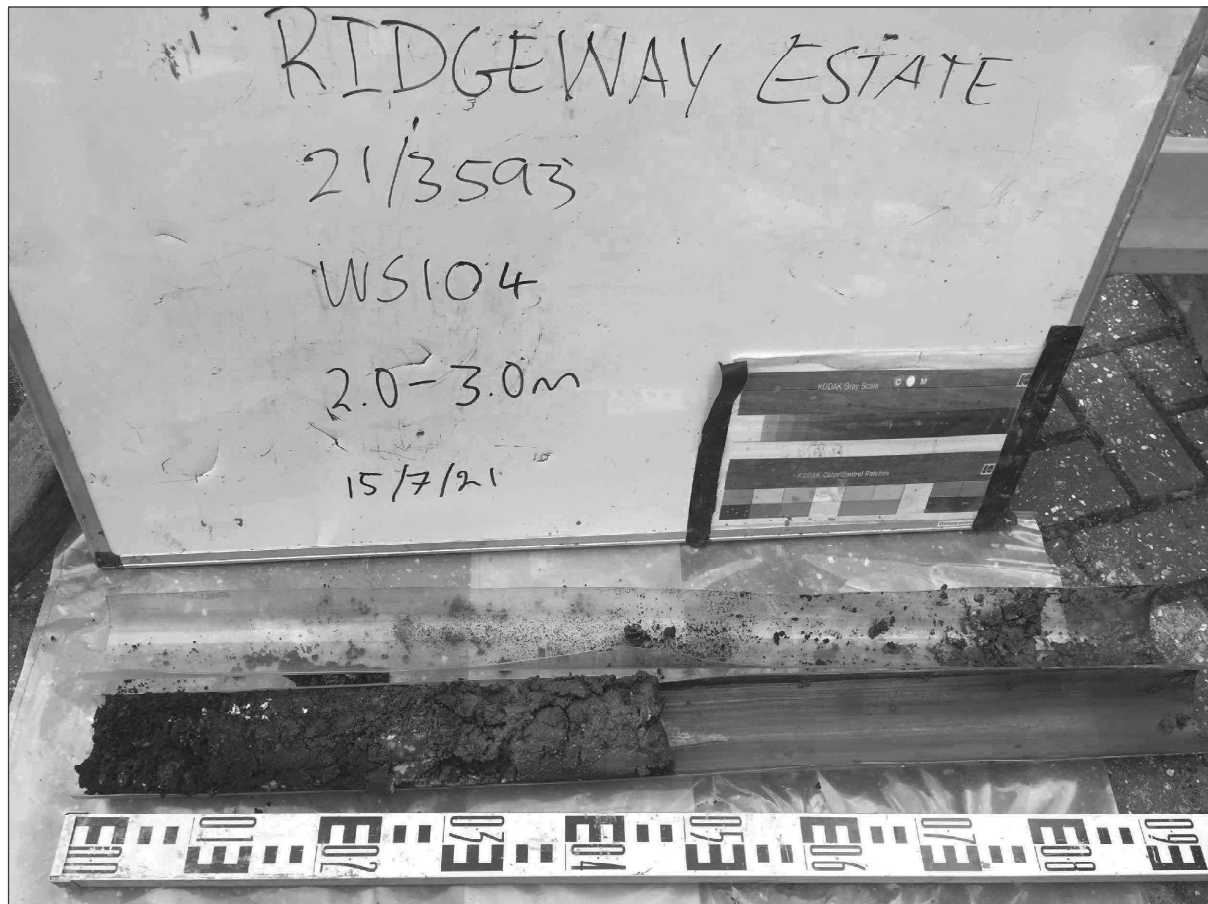


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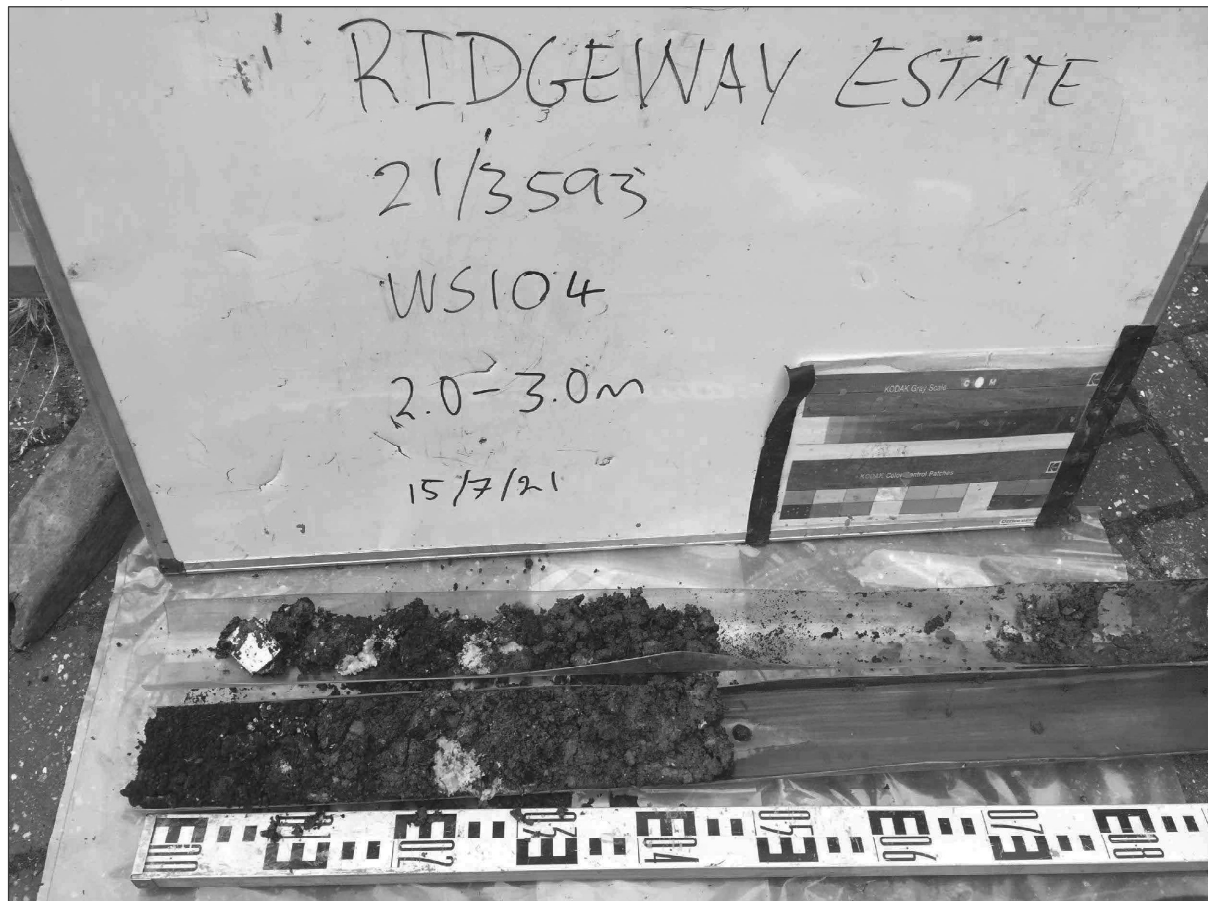


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Project No	21/3593	Hole ID	WS104	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF uk@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	031 & 032	
Client	Ove Arup and Partners	Date	15/07/2021	

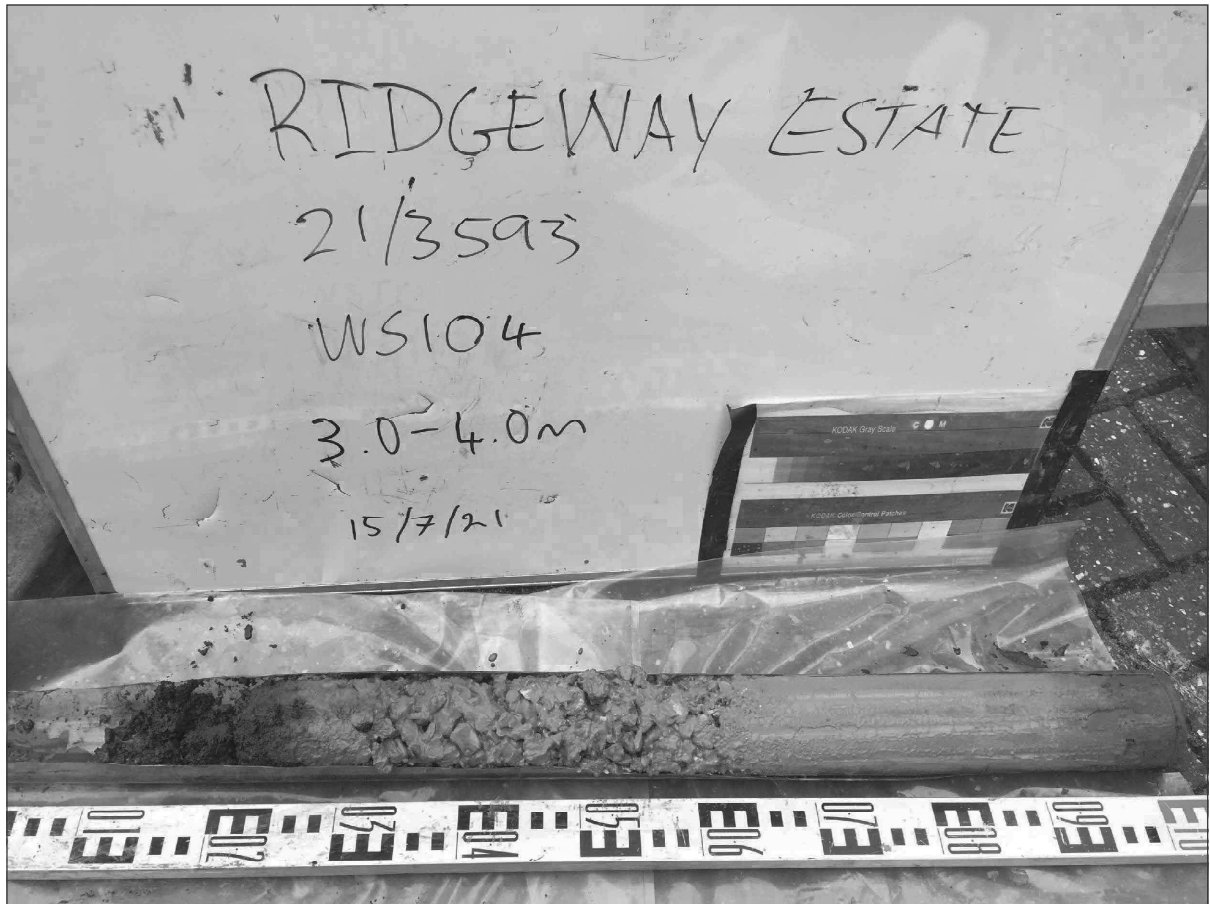


Photograph No 031



Photograph No 032

Project No	21/3593	Hole ID	WS104	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF tel: 020 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7JR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	033 & 034	
Client	Ove Arup and Partners	Date	15/07/2021	



Photograph No 033



Photograph No 034

Project No	21/3593	Hole ID	WS105	CONCEPT  HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 6PF tel@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7JR lab@conceptconsultants.co.uk +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit 10 Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	035 & 036	
Client	Ove Arup and Partners	Date	19/07/2021	

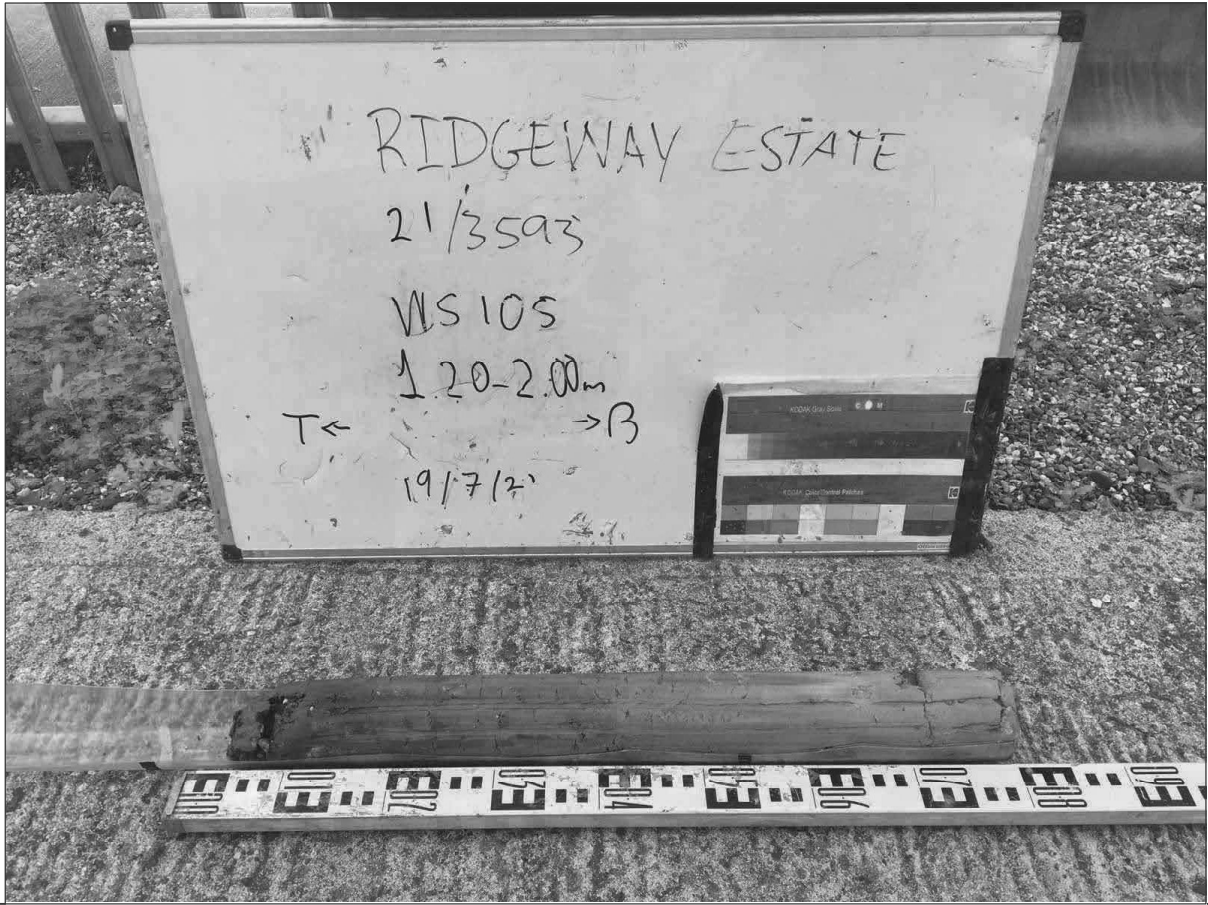


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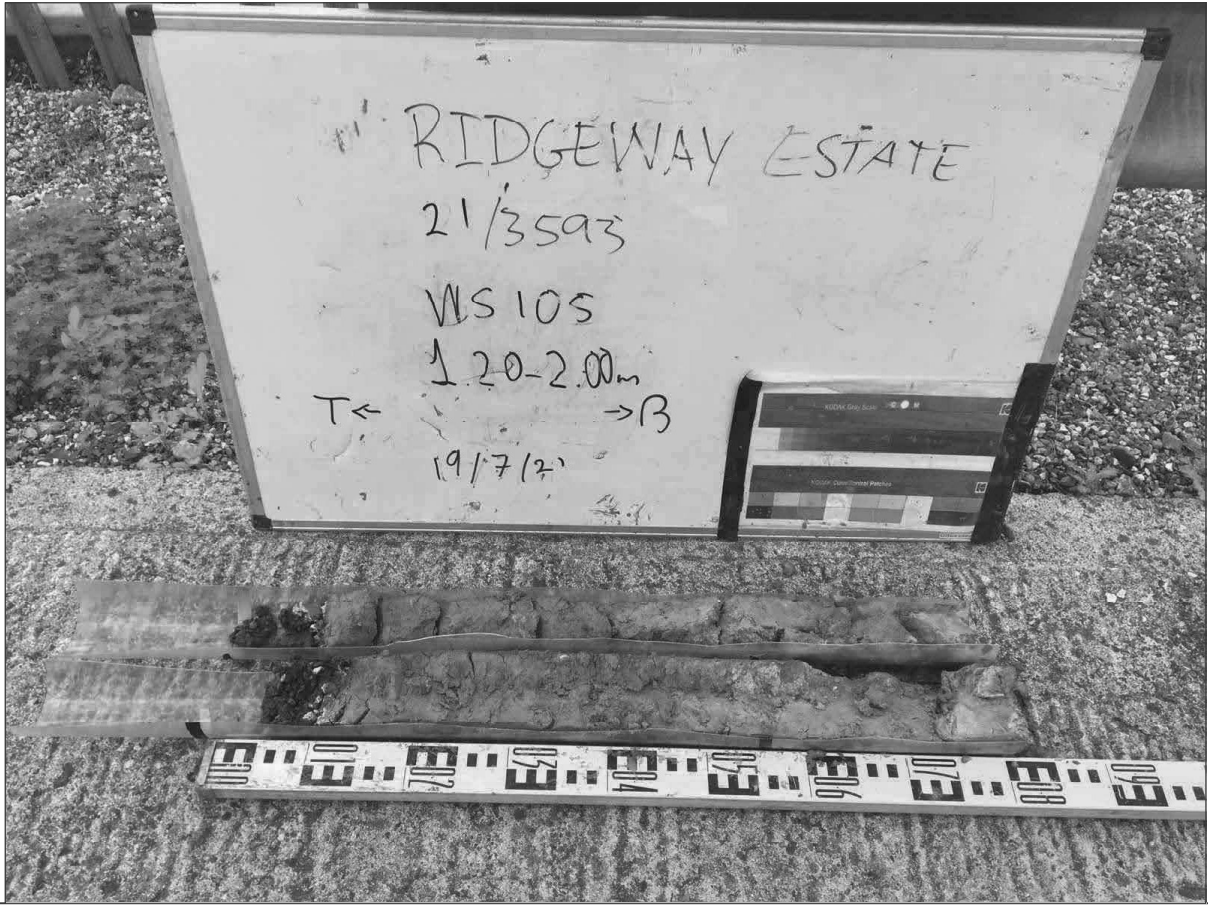


Photograph No 036

Project No	21/3593	Hole ID	WS105	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mess, Waple Way, London W2 2PF, tel: 020 8111 2880, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7AR, tel: 020 8111 2880, +44(0) 20 8111 2880 MIDLANDS OFFICE: Unit 10 Harford Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	037 & 038	
Client	Ove Arup and Partners	Date	19/07/2021	

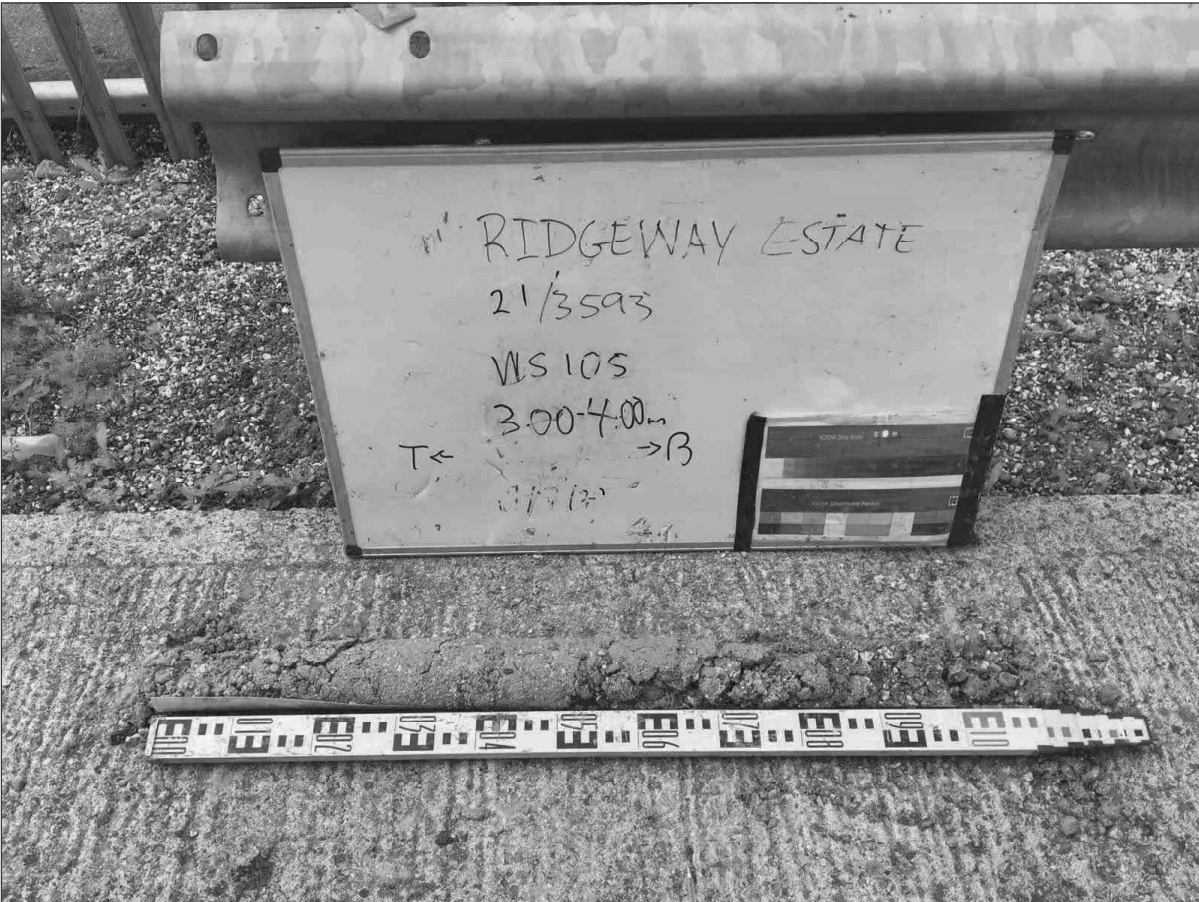


Photograph No 037



Photograph No 038

Project No	21/3593	Hole ID	WS105	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED AGS CHAS ASSOCIATION
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	041 & 042	
Client	Ove Arup and Partners	Date	19/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9RF info@conceptconsultants.co.uk +44(0) 20 8111 2880		LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7JR lab@conceptconsultants.co.uk +44(0) 20 8745 1553
		MIDLANDS OFFICE: Unit D Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670		



Photograph No 041



Photograph No 042

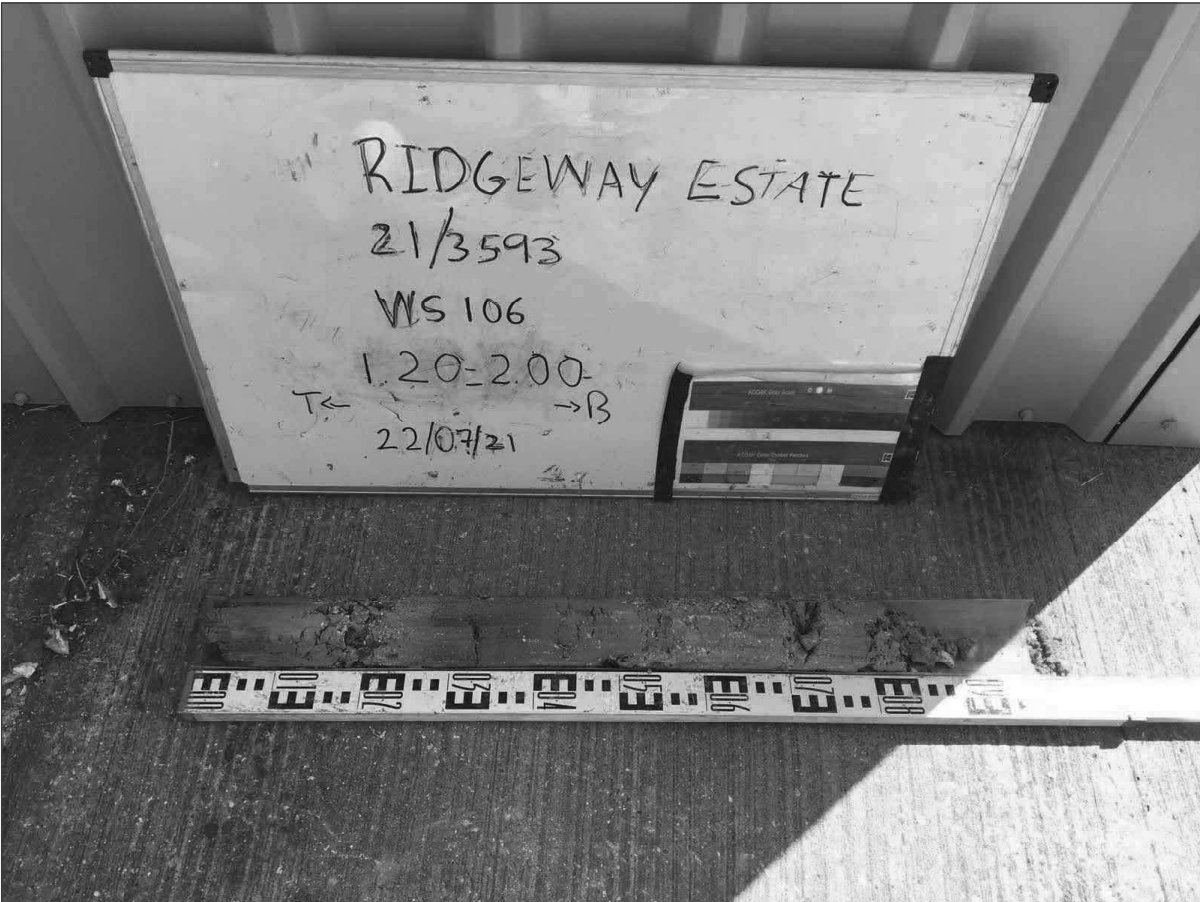
Project No	21/3593	Hole ID	WS106	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9RF tel@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	043 & 044	
Client	Ove Arup and Partners	Date	22/07/2021	



Photograph No 043



Photograph No 044



Photograph No 045



Photograph No 046

Project No	21/3593	Hole ID	WS106	
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	047 & 048	
Client	Ove Arup and Partners	Date	22/07/2021	

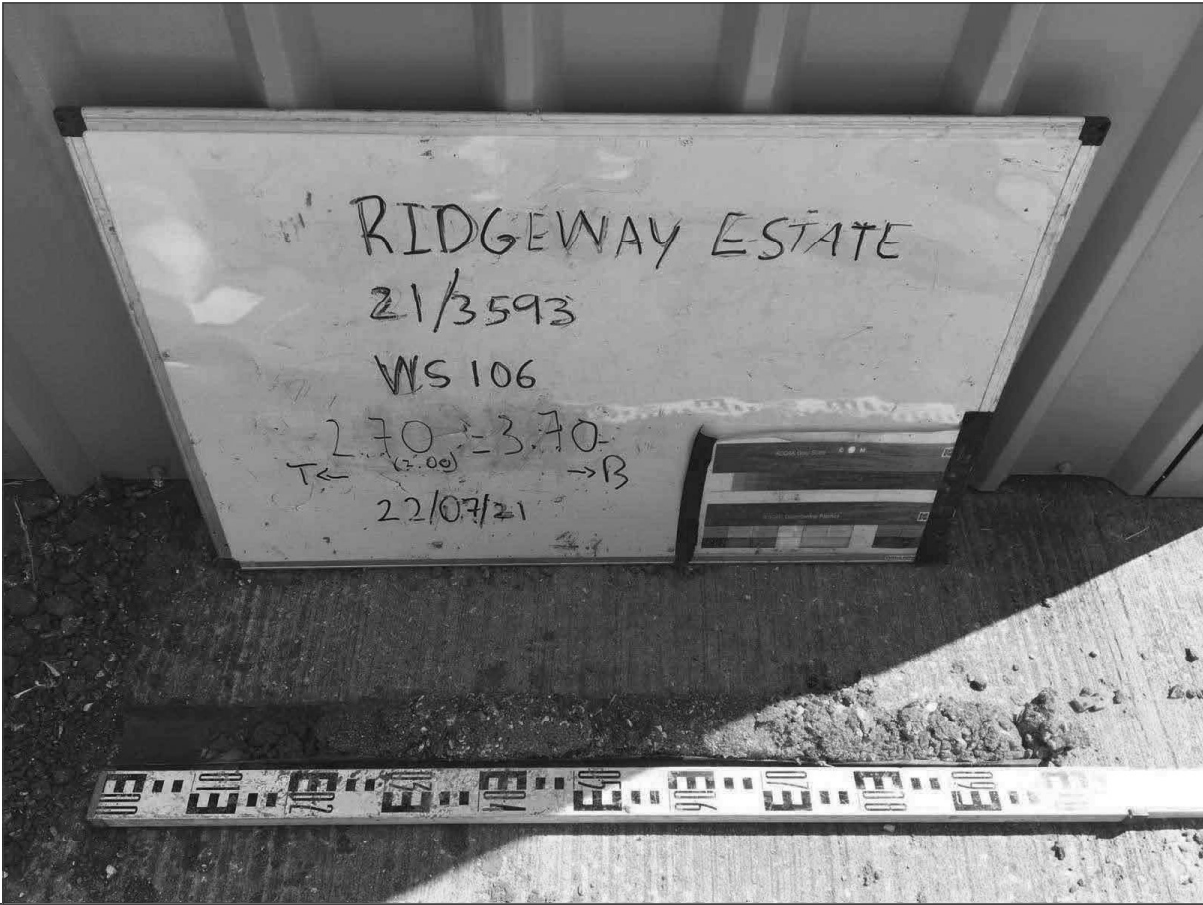


Photograph No 047



Photograph No 048

Project No	21/3593	Hole ID	WS106	    
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	049 & 050	
Client	Ove Arup and Partners	Date	22/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 6PF s@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harfield Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670		



Photograph No 049



Photograph No 050

Project No	21/3593	Hole ID	WS107	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF tel@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harfield Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	051 & 052	
Client	Ove Arup and Partners	Date	20/07/2021	

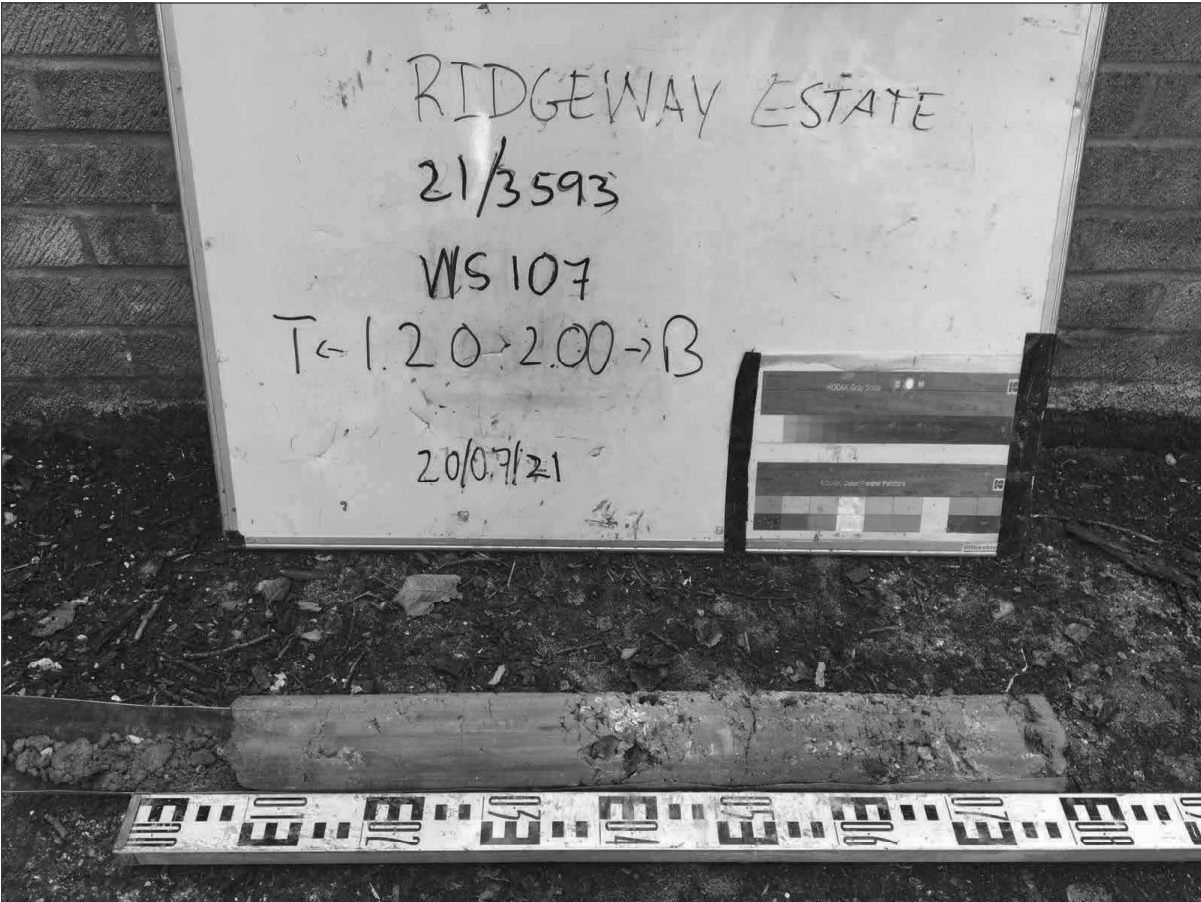


Photograph No 051



Photograph No 052

Project No	21/3593	Hole ID	WS107	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W2 2PF, uk@conceptconsultants.co.uk, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7JR, lab@conceptconsultants.co.uk, +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harfield Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	053 & 054	
Client	Ove Arup and Partners	Date	20/07/2021	

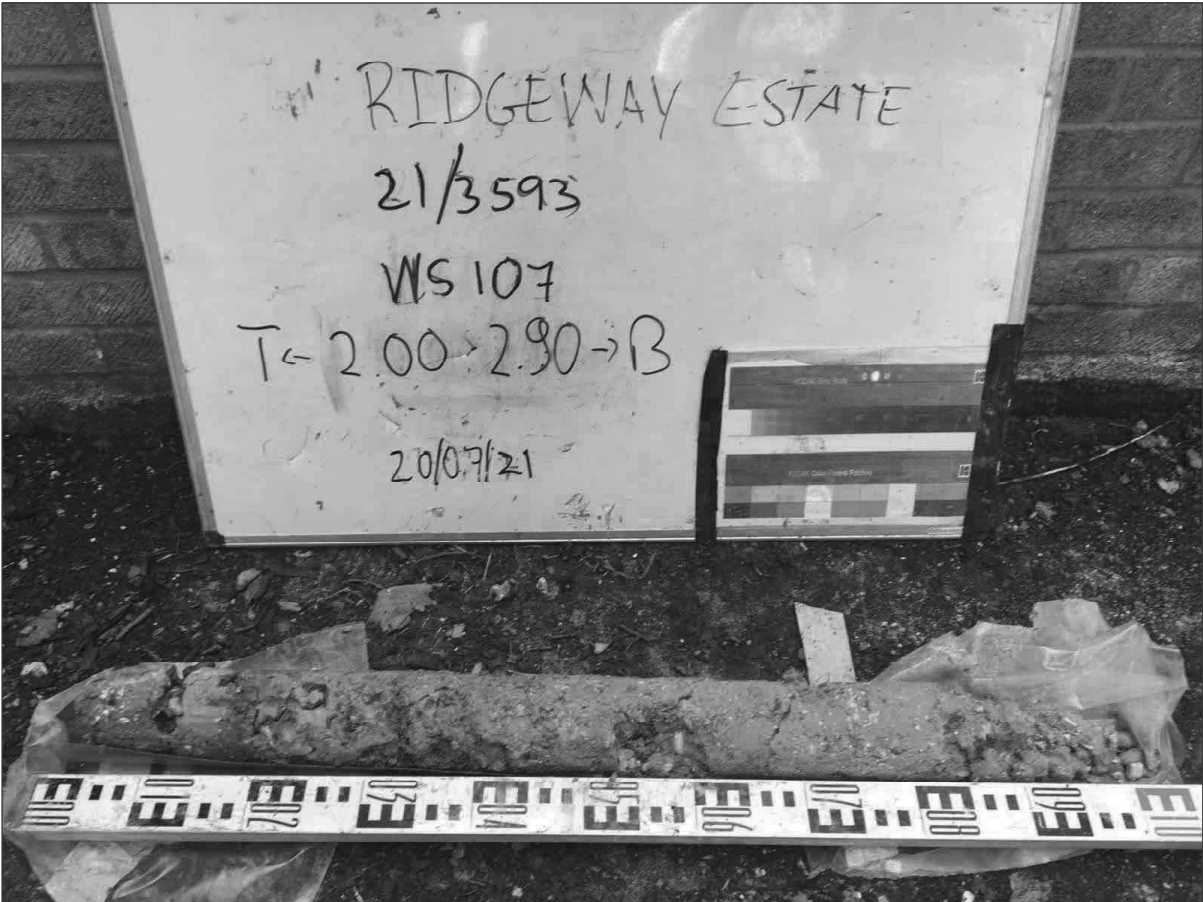


Photograph No 053

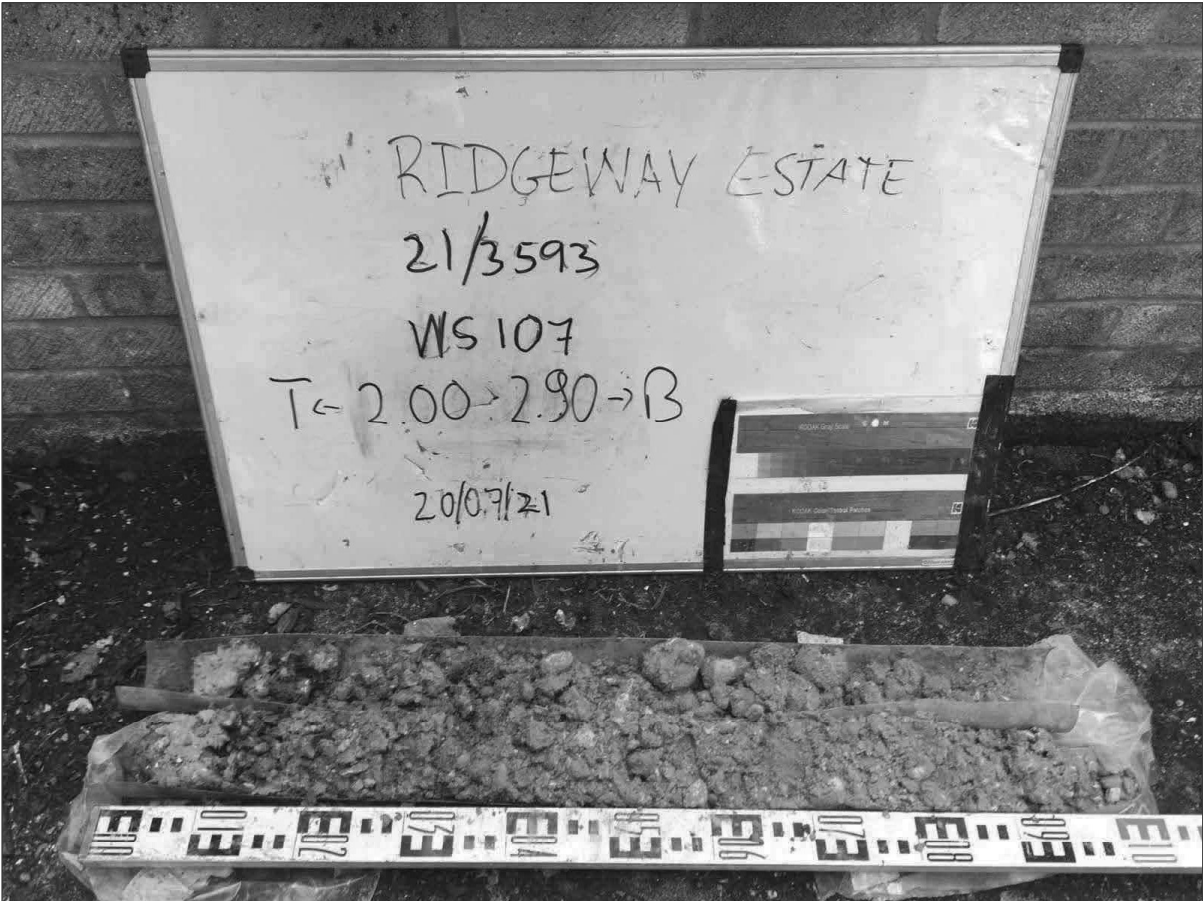


Photograph No 054

Project No	21/3593	Hole ID	WS107	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W12 8PF, uk@conceptconsultants.co.uk, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7XR, lab@conceptconsultants.co.uk, +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit D Harland Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	055 & 056	
Client	Ove Arup and Partners	Date	20/07/2021	

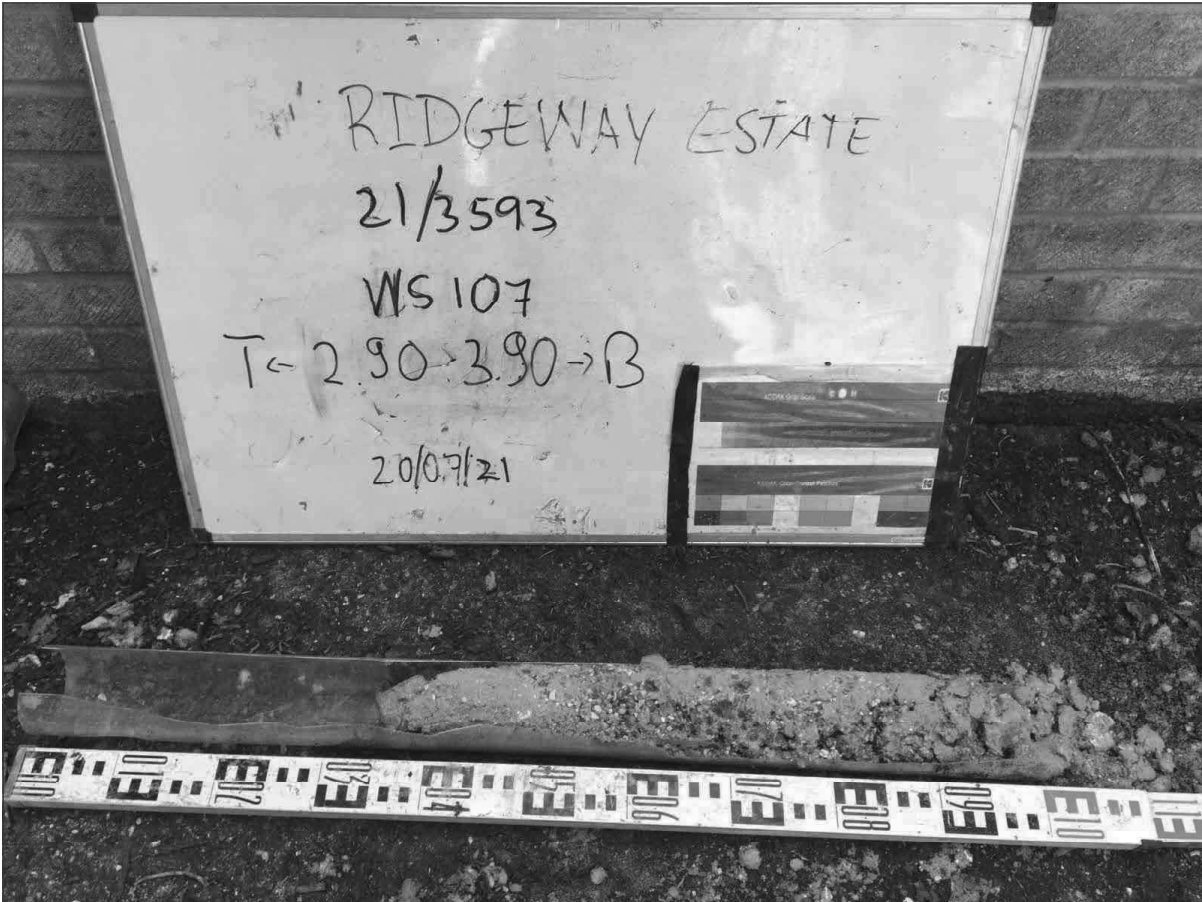


Photograph No 055

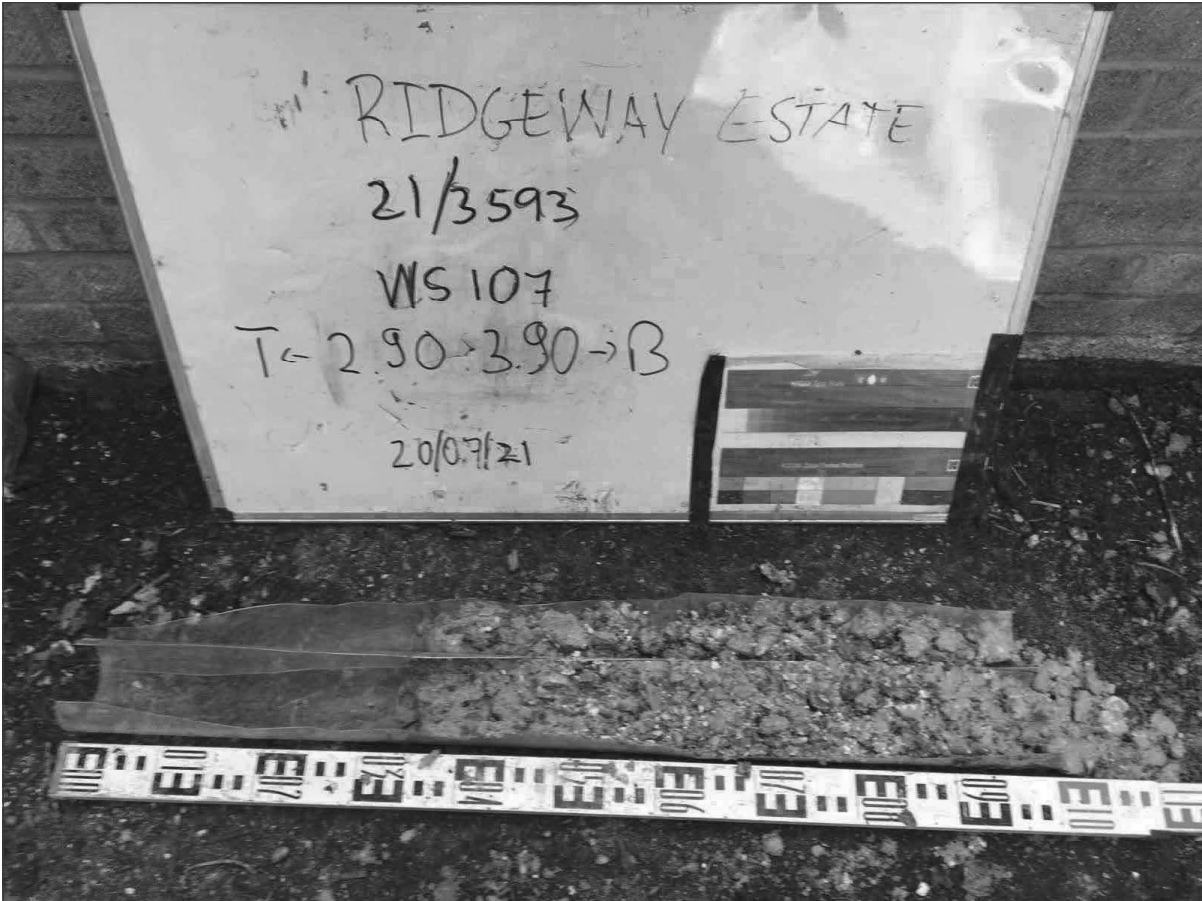


Photograph No 056

Project No	21/3593	Hole ID	WS107	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED AGS CHAS ASSOCIATION
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	057 & 058	
Client	Ove Arup and Partners	Date	20/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 2PF tel@conceptconsultants.co.uk +44(0) 20 8111 2880		LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7XR lab@conceptconsultants.co.uk +44(0) 20 8745 1553
				MIDLANDS OFFICE: Unit D Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670



Photograph No 057



Photograph No 058

Project No	21/3593	Hole ID	WS108	 
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	059-060	
Client	Ove Arup and Partners	Date	22/07/2021	



Photograph No 059-060

Project No	21/3593	Hole ID	WS108	CONCEPT CONCEPT CONSULTANTS LTD HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W2 9PF, uk@conceptconsultants.co.uk, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7AR, lab@conceptconsultants.co.uk, +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit 10 Harford Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	061 & 062	
Client	Ove Arup and Partners	Date	22/07/2021	



Photograph No 061



Photograph No 062

Project No	21/3593	Hole ID	WS108	     
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	063 & 064	
Client	Ove Arup and Partners	Date	22/07/2021	

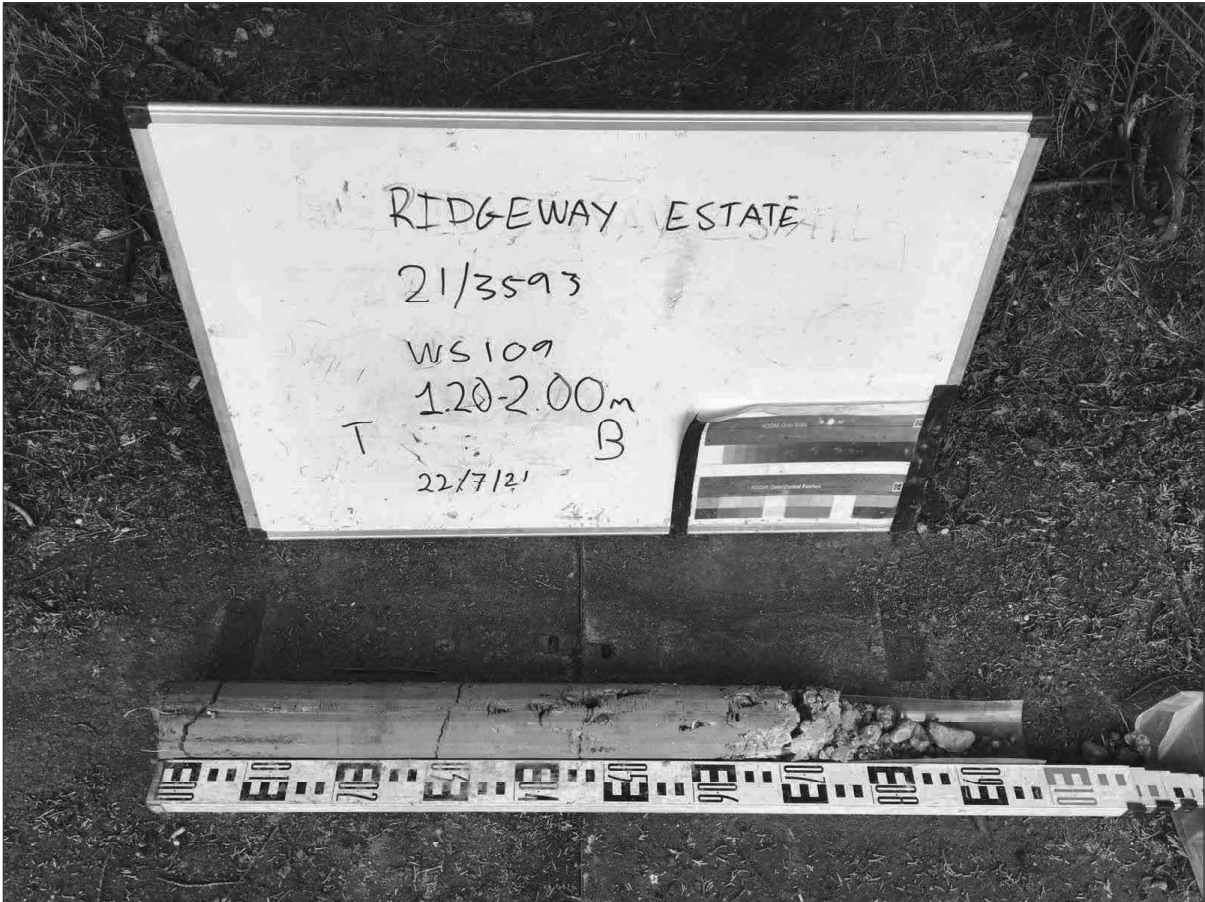


Photograph No 063

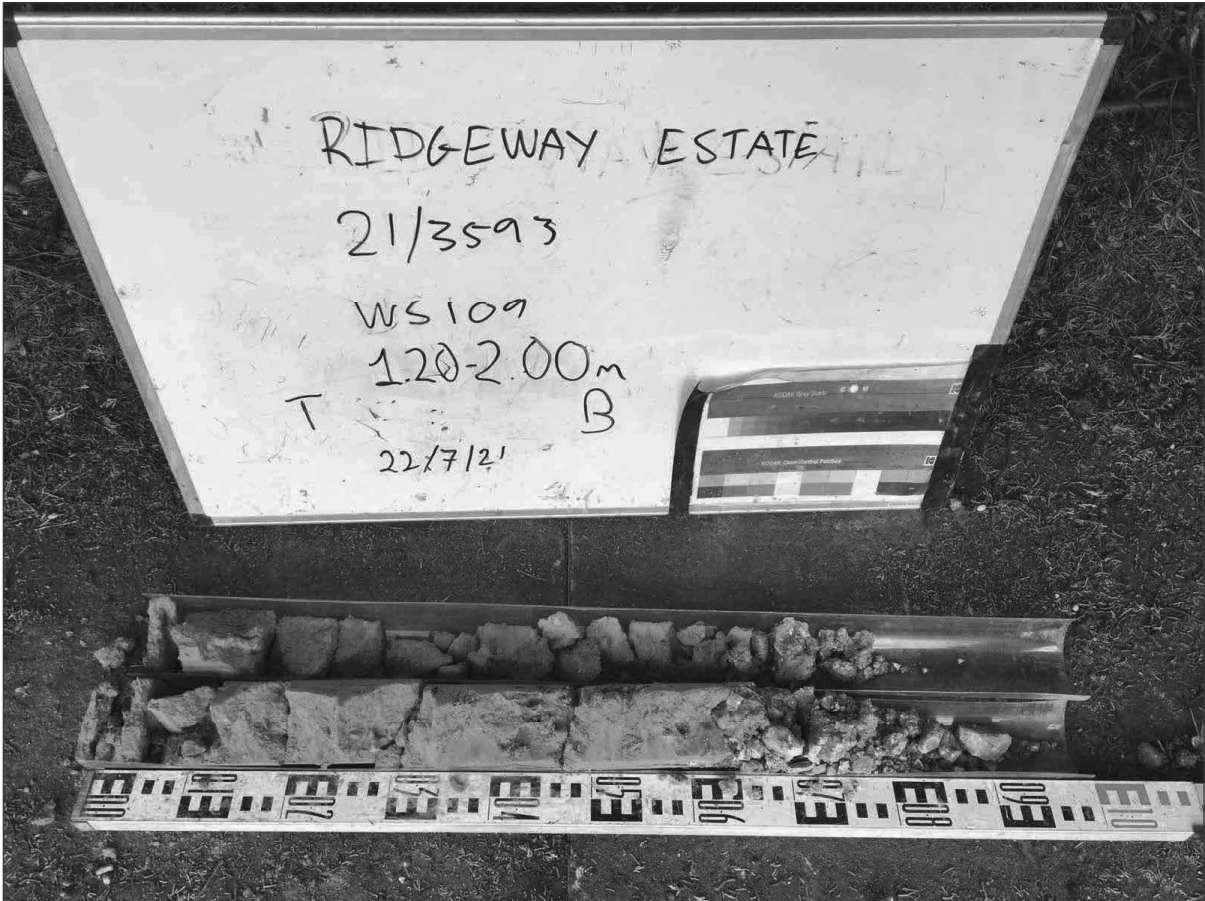


Photograph No 064

Project No	21/3593	Hole ID	WS109	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED IN THE UNITED KINGDOM MEMBER OF THE AGS CHAS ASSOCIATION HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 2RF tel: 020 8111 2880 info@conceptconsultants.co.uk LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR tel: 020 8111 2880 info@conceptconsultants.co.uk MIDLANDS OFFICE: Unit 10 Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	065 & 066	
Client	Ove Arup and Partners	Date	22/07/2021	



Photograph No 065



Photograph No 066

Project No

21/3593

Hole ID WS109

WS109

Project Name LHR114 Ridgeway Trading Estate

Project Name

Photograph No 067 & 068

Photograph No

Client **Ove Arup and Partners**

Client

Date 22/07/2021

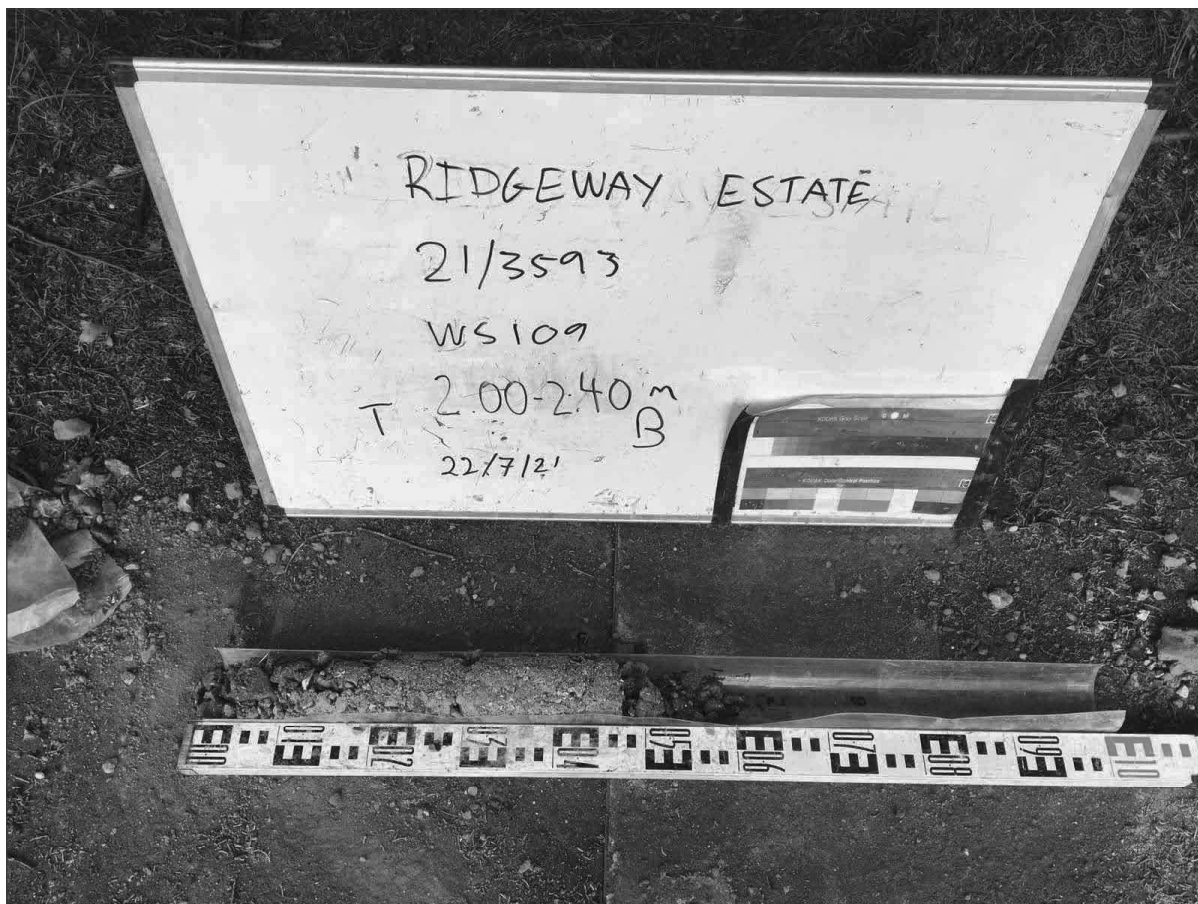
Date _____



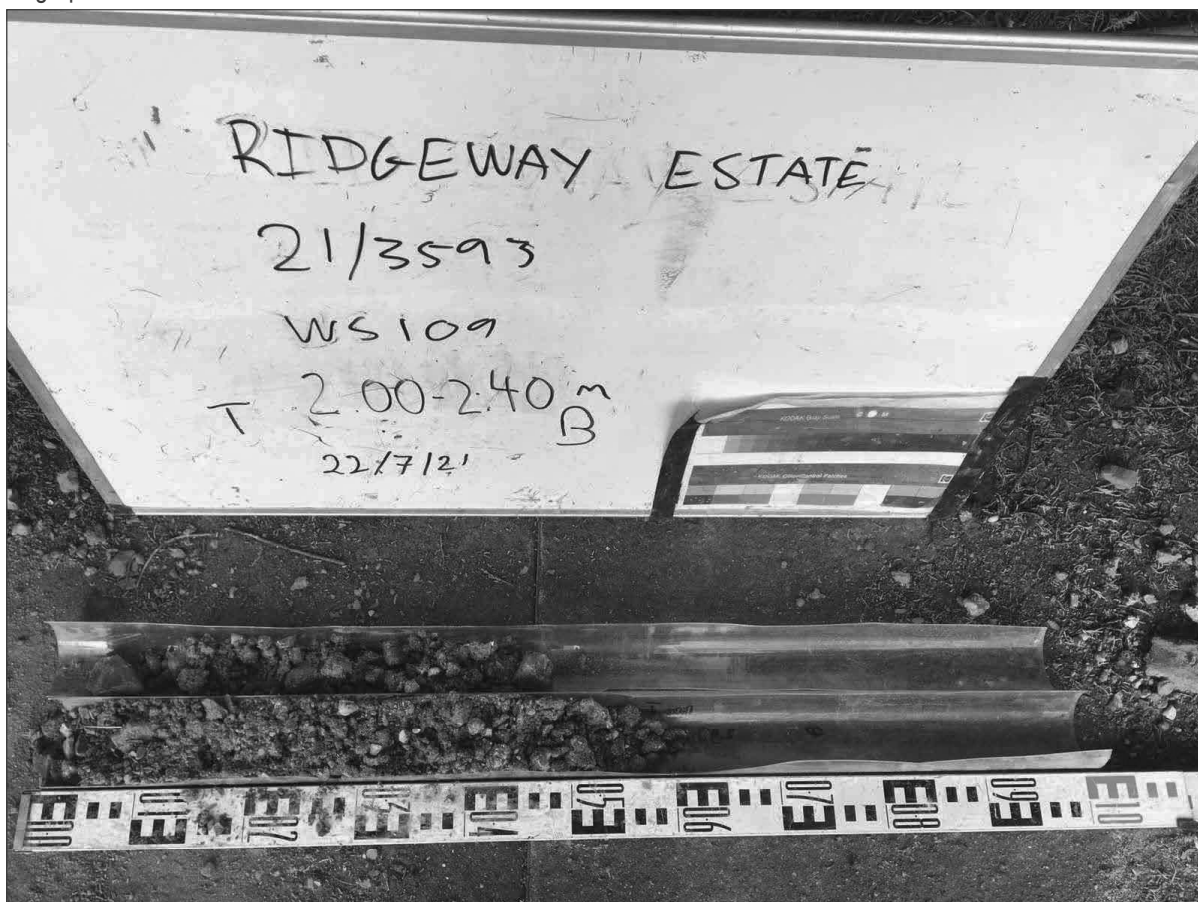
HEAD OFFICE:
Unit 8 Warple Mews
Warple Way
London W3 0RF
si@conceptconsultants.co.uk
+44(0) 20 8811 288

LABORATORY:
47-49 Brunel Road
Old Oak Common
Acton London W3 7
lab@conceptconsult
+44(0) 20 8740 155

MIDLANDS OFFICE:
Unit D Herlad Way
Binley Industrial Estate
Coventry CV3 2RQ
coventry@conocopicconsultants.co.uk
+44(0) 24 7708 7670



Photograph No 067



Photograph No 068

Project No	21/3593	Hole ID	WS110	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 6RF uk@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit D Harford Way Brinkley Industrial Estate Coventry CV3 2HQ coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	069 & 070	
Client	Ove Arup and Partners	Date	16/07/2021	



Photograph No 069



Photograph No 070

Project No	21/3593	Hole ID	WS110	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED AGS CHAS CONTROLLED CONCEPT CONSULTANTS LTD
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	071 & 072	
Client	Ove Arup and Partners	Date	16/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 2RF info@conceptconsultants.co.uk +44(0) 20 8111 2880		LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553
		MIDLANDS OFFICE: Unit 10 Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670		

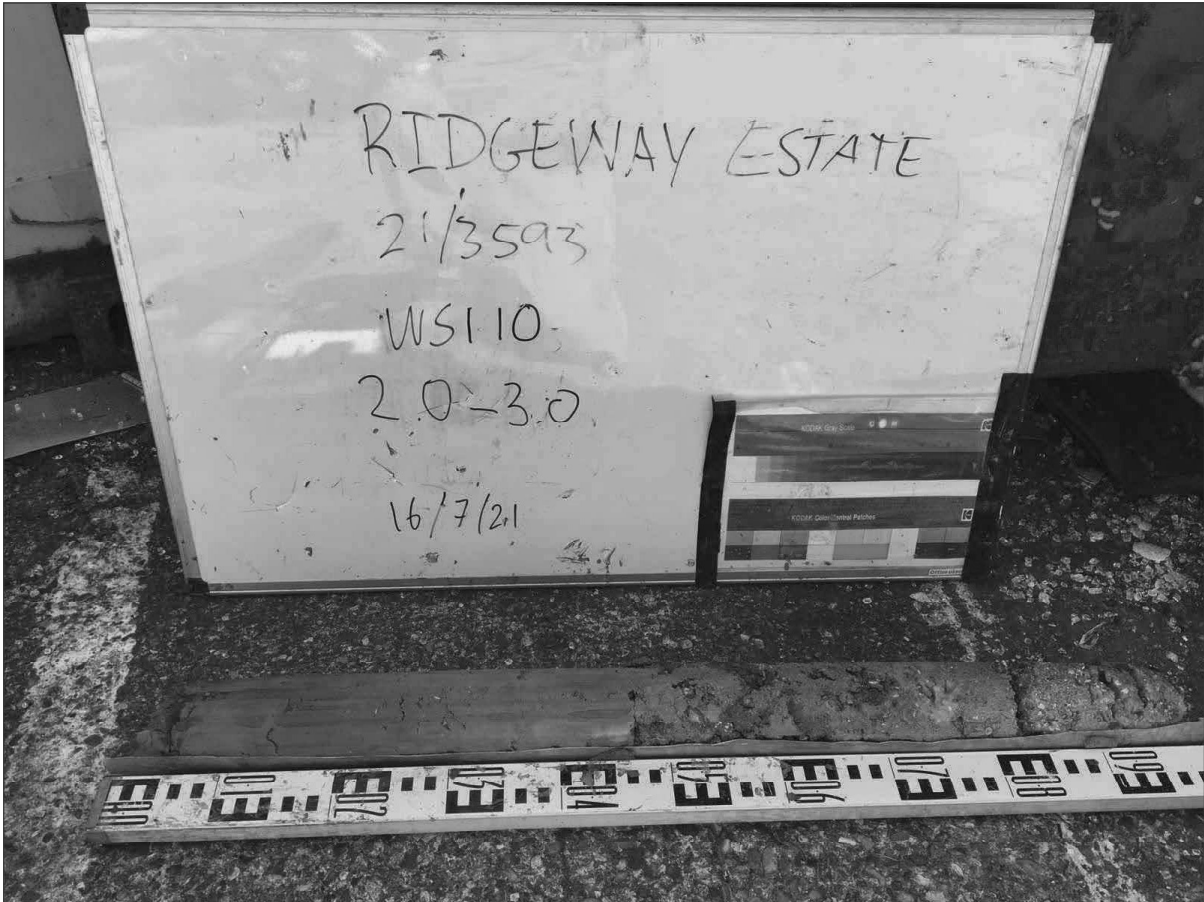


Photograph No 071



Photograph No 072

Project No	21/3593	Hole ID	WS110	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED IN THE UNITED KINGDOM MEMBER OF THE ASSOCIATION OF CONSULTANTS HEAD OFFICE: Unit 9 Waple Mees, Waple Way, London W2 2RF, uk@conceptconsultants.co.uk, +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road, Old Oak Common, Acton London W3 7AR, lab@conceptconsultants.co.uk, +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit 10 Harford Way, Brimley Industrial Estate, Coventry CV3 2HG, coventry@conceptconsultants.co.uk, +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	073 & 074	
Client	Ove Arup and Partners	Date	16/07/2021	



Photograph No 073

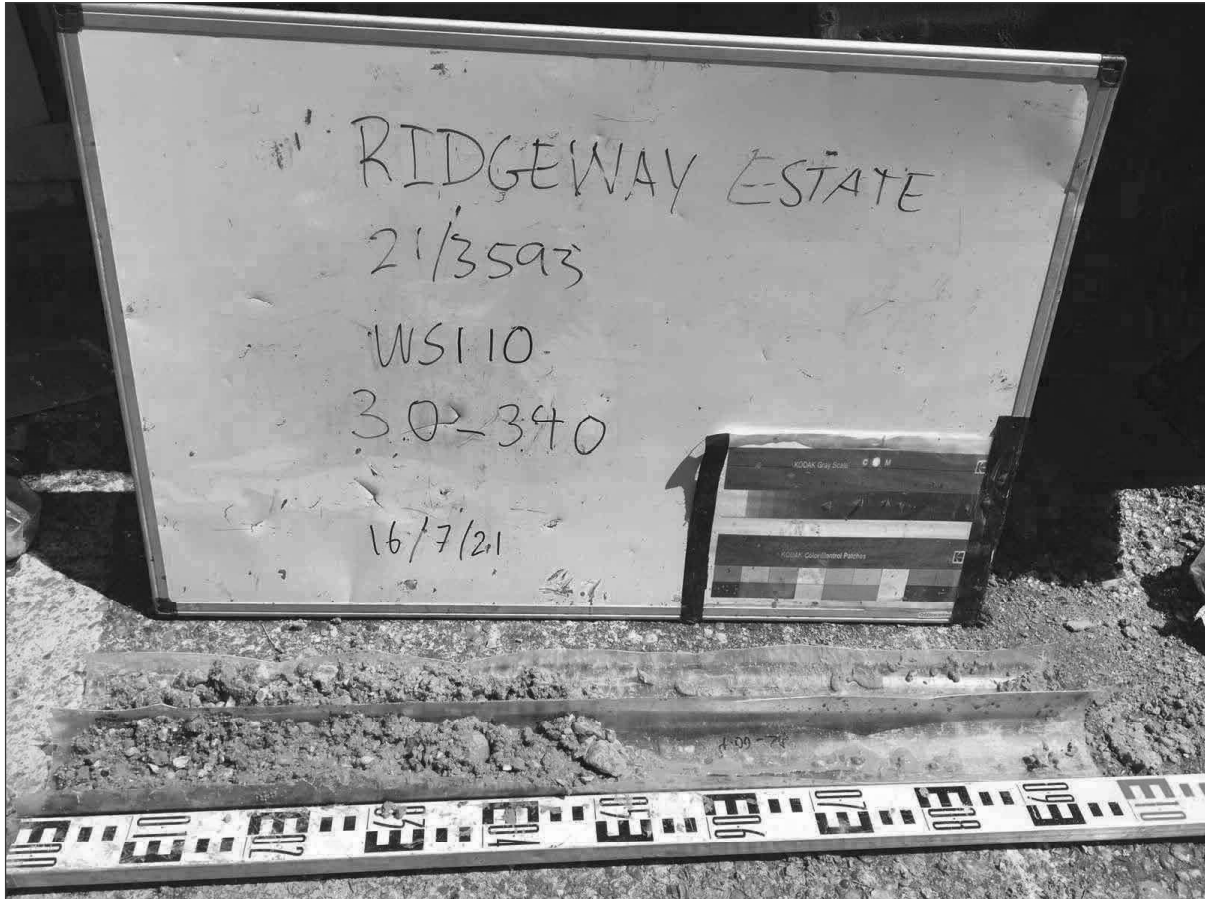


Photograph No 074

Project No	21/3593	Hole ID	WS110	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF uk@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit D Harford Way Binley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	075 & 076	
Client	Ove Arup and Partners	Date	16/07/2021	

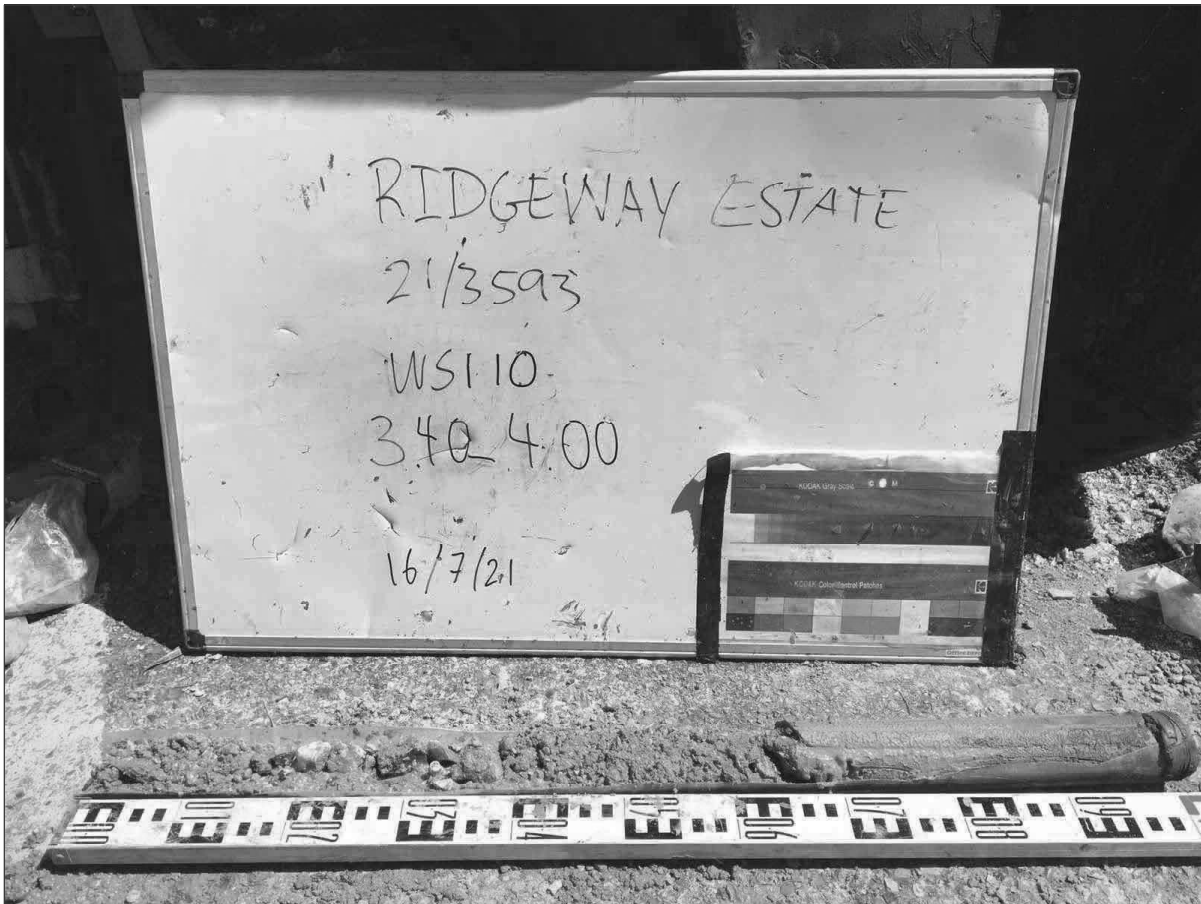


Photograph No 075

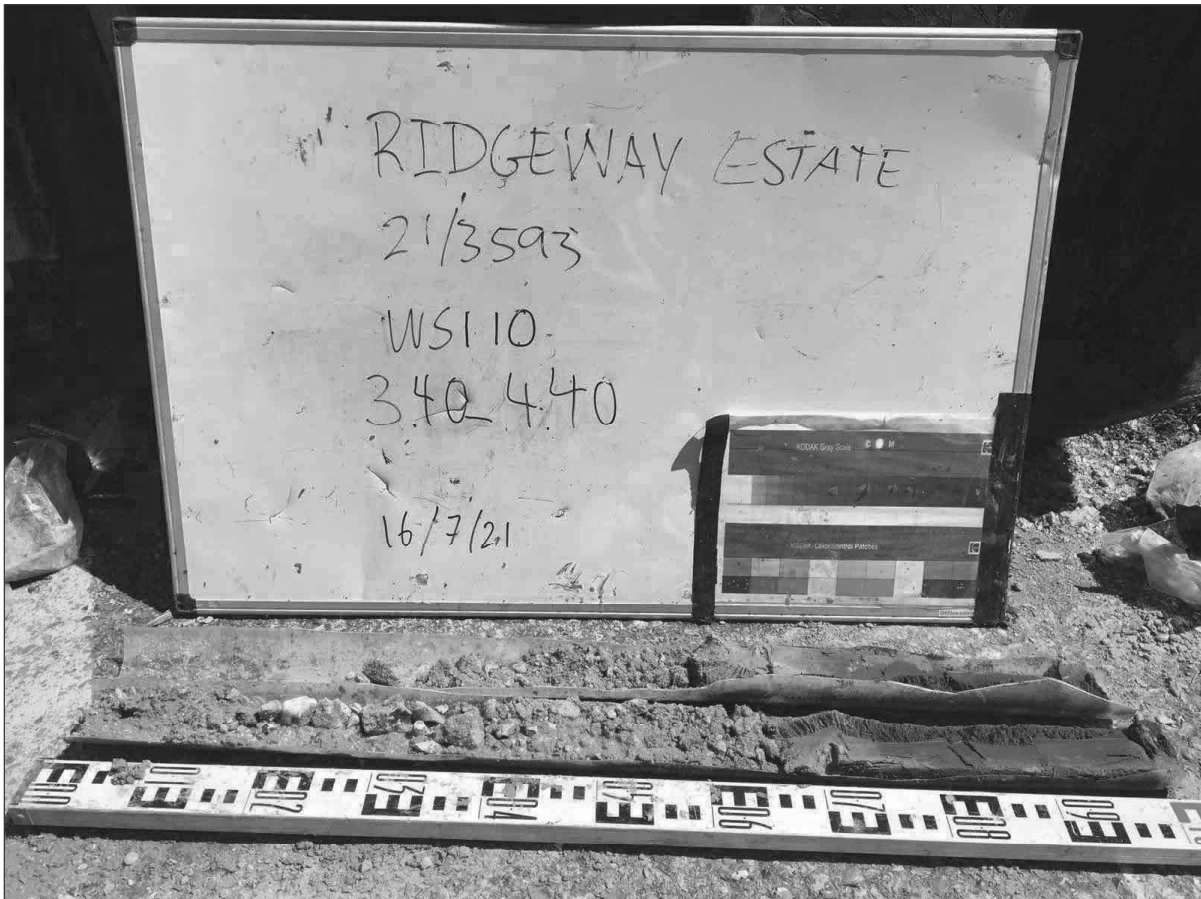


Photograph No 076

Project No	21/3593	Hole ID	WS110	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF uk@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8740 1553 MIDLANDS OFFICE: Unit D Harford Way Brimley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	077 & 078	
Client	Ove Arup and Partners	Date	16/07/2021	

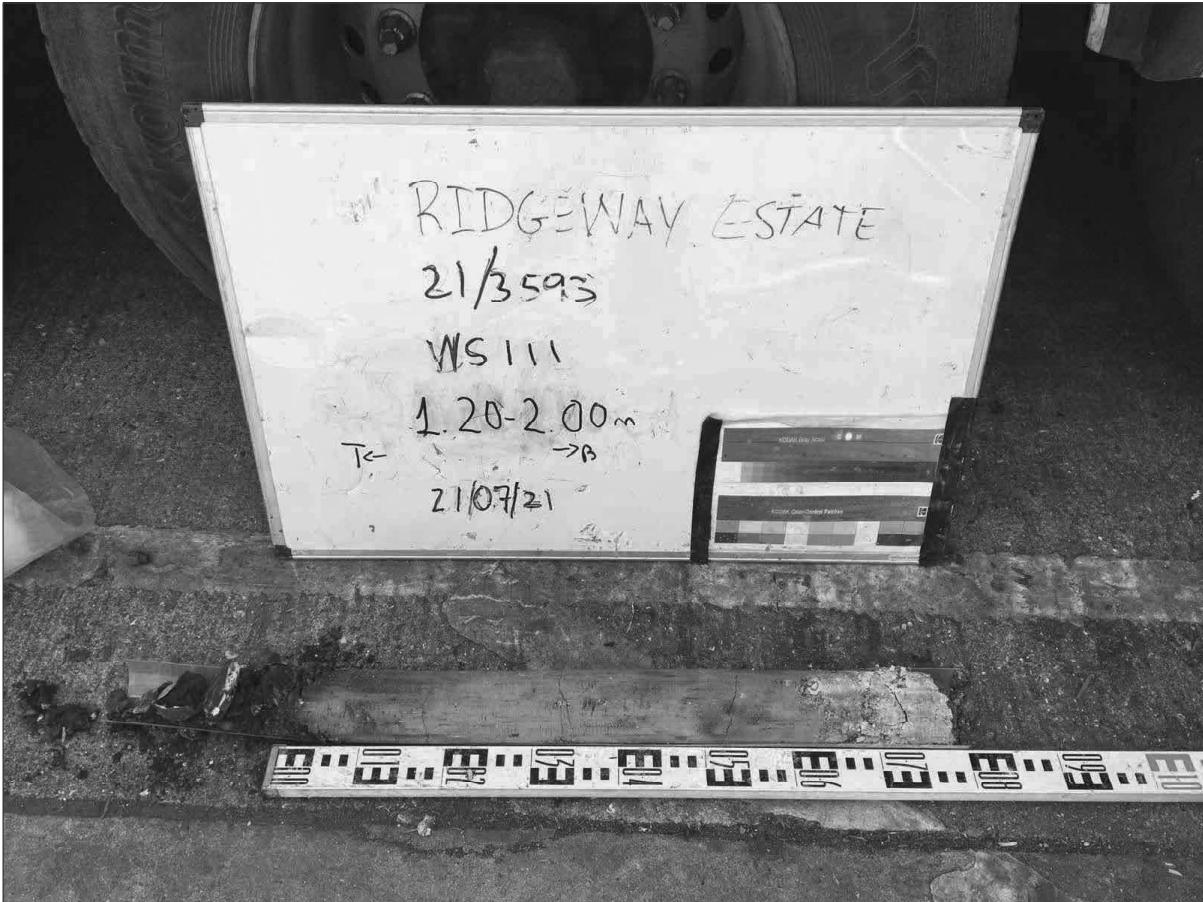


Photograph No 077

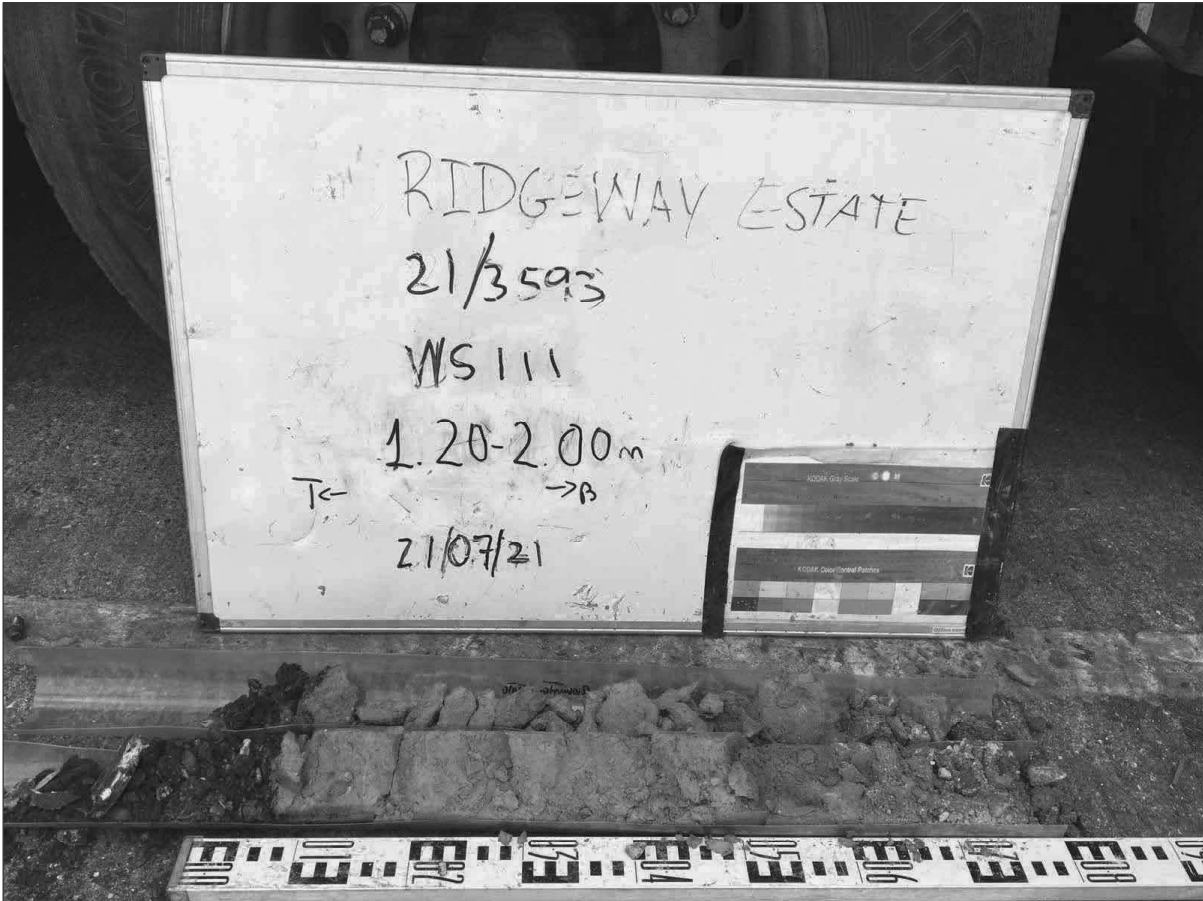


Photograph No 078

Project No	21/3593	Hole ID	WS111	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED AGS CHAS QUALITY ASSOCIATION
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	081 & 082	
Client	Ove Arup and Partners	Date	21/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W12 9PF info@conceptconsultants.co.uk +44(0) 20 8111 2880		LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7XR lab@conceptconsultants.co.uk +44(0) 20 8745 1553
				MIDLANDS OFFICE: Unit D Harfield Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670



Photograph No 081

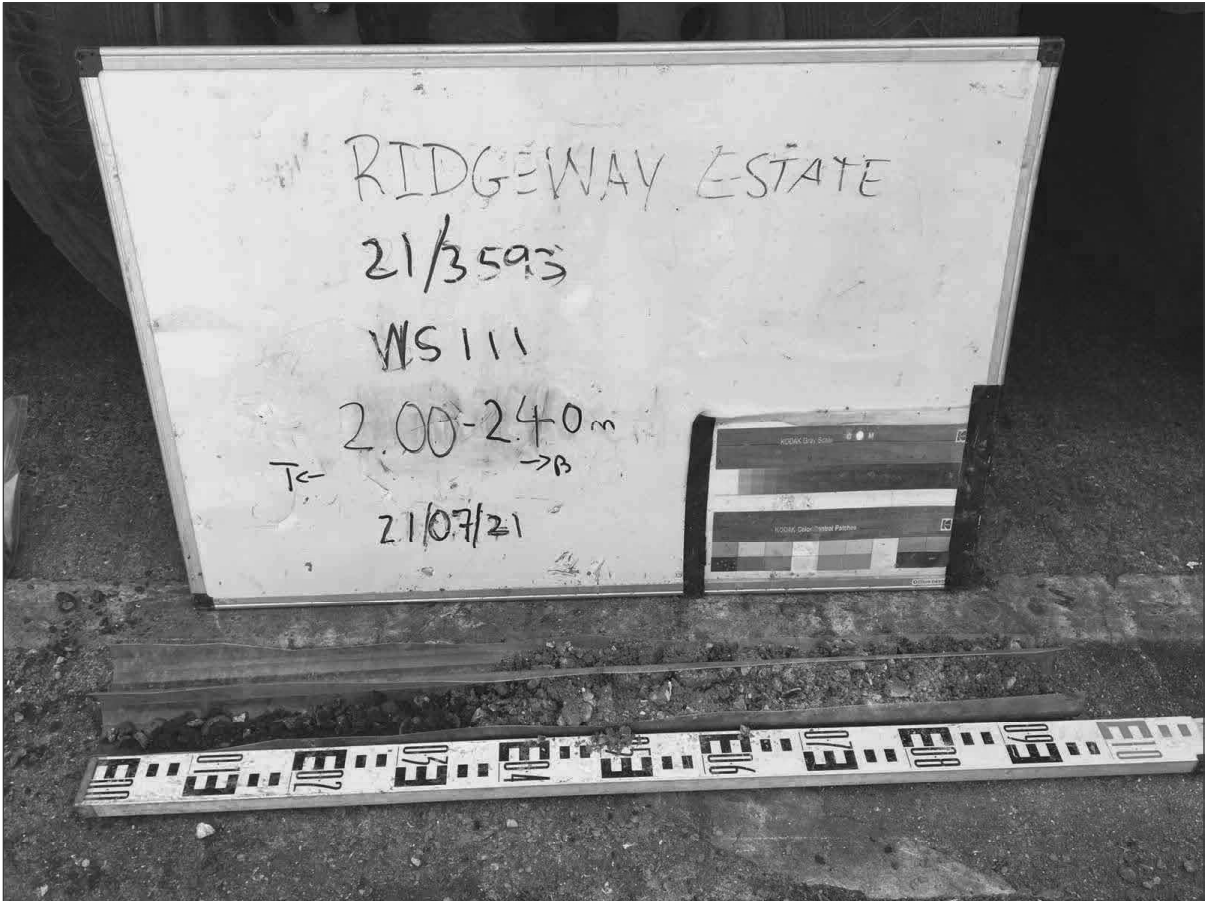


Photograph No 082

Project No	21/3593	Hole ID	WS111	 HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF tel: 020 8111 2880 info@conceptconsultants.co.uk LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR tel: 020 8111 2880 info@conceptconsultants.co.uk MIDLANDS OFFICE: Unit 10 Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	083 & 084	
Client	Ove Arup and Partners	Date	21/07/2021	

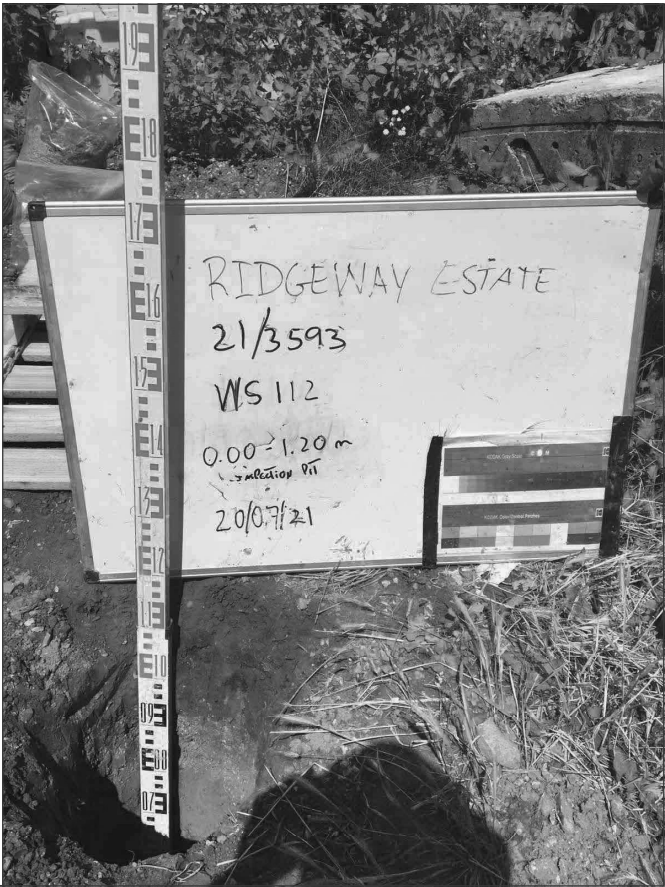


Photograph No 083



Photograph No 084

Project No	21/3593	Hole ID	WS112	CONCEPT  HEAD OFFICE: Unit 9 Waple Mees Waple Way London W2 9PF s@conceptconsultants.co.uk +44(0) 20 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit 10 Harford Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	085 & 086	
Client	Ove Arup and Partners	Date	20/07/2021	

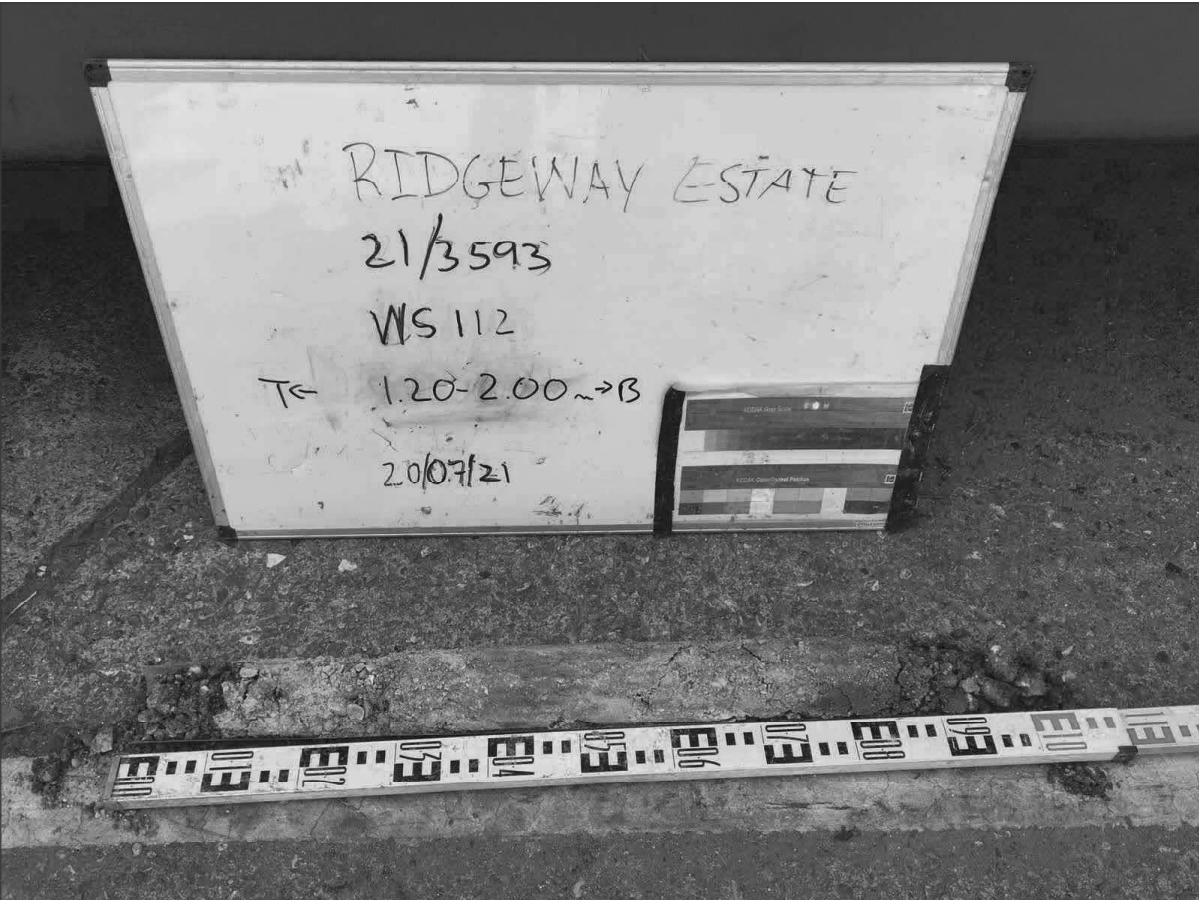


Photograph No 085

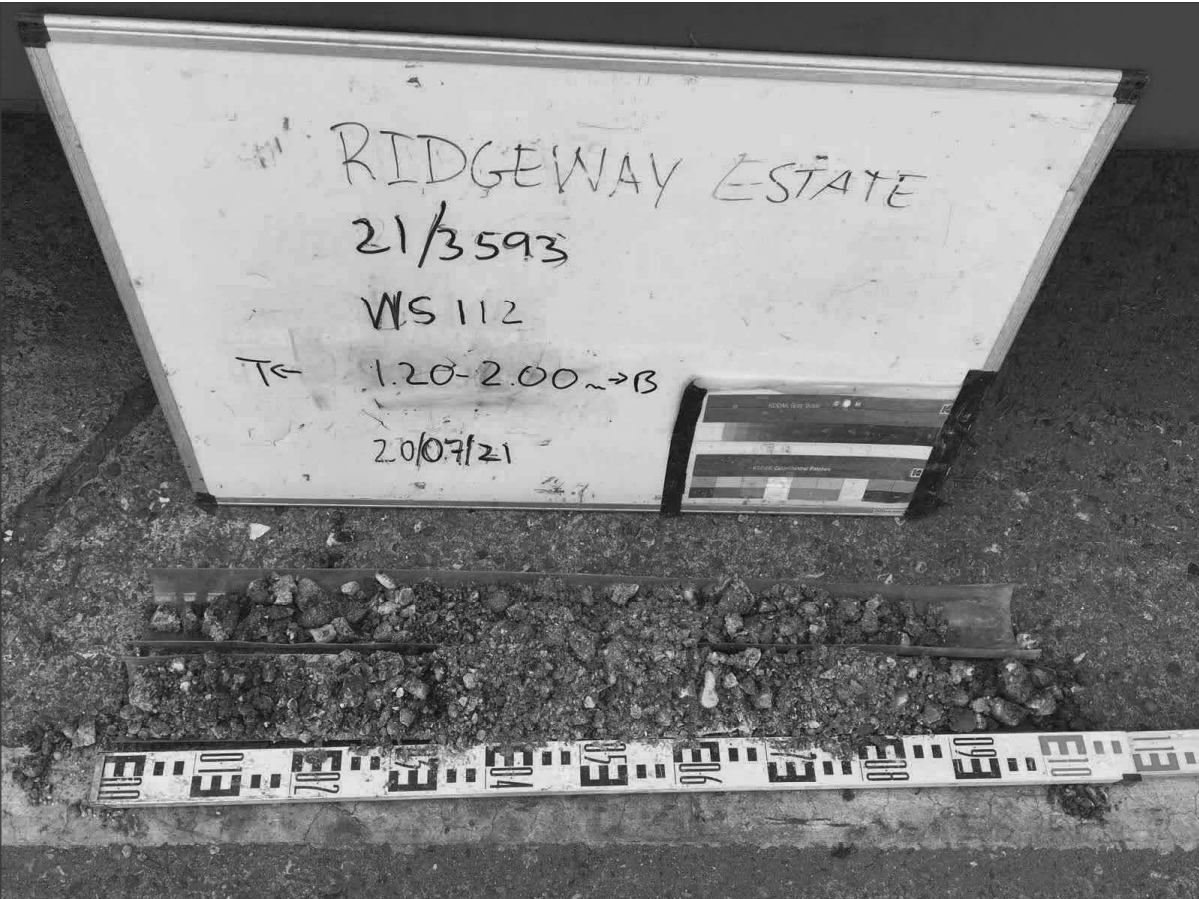


Photograph No 086

Project No	21/3593	Hole ID	WS112	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED AGS CHAS ASSOCIATION
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	087 & 088	
Client	Ove Arup and Partners	Date	20/07/2021	
		HEAD OFFICE: Unit 9 Waple Mees Waple Way London W12 8PF tel@conceptconsultants.co.uk +44(0) 20 8111 2880		LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7AR lab@conceptconsultants.co.uk +44(0) 20 8745 1553
		MIDLANDS OFFICE: Unit D Harfield Way Briley Industrial Estate Coventry CV3 2HG coventry@conceptconsultants.co.uk +44(0) 24 7708 7670		

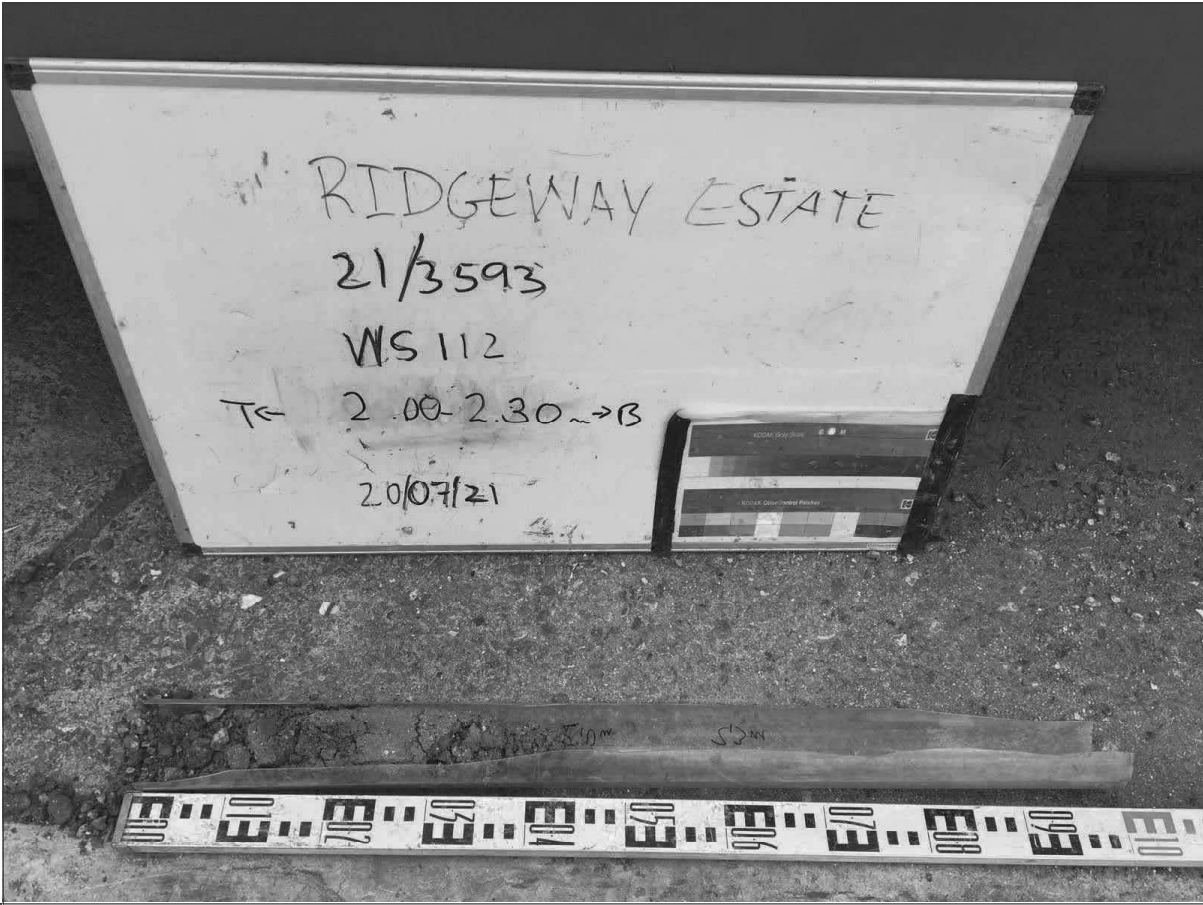


Photograph No 087



Photograph No 088

Project No	21/3593	Hole ID	WS112	CONCEPT CONCEPT CONSULTANTS LTD REGISTERED AGS CHAS ASSOCIATION HEAD OFFICE: Unit 9 Waple Mees Waple Way London W12 8PF tel: 020 8111 2880 LABORATORY: 47-49 Brunel Road Old Oak Common Acton London W3 7JR lab@conceptconsultants.co.uk +44(0) 20 8745 1553 MIDLANDS OFFICE: Unit 10 Harford Way Briley Industrial Estate Covey City 202 covey@conceptconsultants.co.uk +44(0) 24 7708 7670
Project Name	LHR114 Ridgeway Trading Estate	Photograph No	089 & 090	
Client	Ove Arup and Partners	Date	20/07/2021	



Photograph No 089



Photograph No 090

APPENDIX A: DETAILED UXO RISK ASSESSMENT