

Appendices



Appendix B. Exploratory Hole Logs

ATKINS Member of the SNC-Lavalin Group				Borehole Log				Borehole No. BH23-03 Sheet 1 of 1	
Project Name: NGET Tottenham				Project No. 5221420		Co-ords: 535401E - 191435N		Hole Type IP	
Location: Watermead Way, Tottenham, London, N17 0SG						Level: 10.44		Scale 1:25	
Client: National Grid Property Holdings Limited						Dates: 24/04/2023		Logged By LC	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES					Dark brownish black medium dense to loose gravelly clayey SAND. Sand is medium to coarse. Gravel is sub-angular and sub rounded medium coarse. Slightly hydrocarbon odour. (MADE GROUND)	
				0.35	10.09		Dark red medium dense to loose gravelly clayey SAND. Sand is fine to coarse. Gravel is sub-angular and sub rounded medium of brick. Occasional ash. Occasional cobbles of brick. Strong hydrocarbon odour. Hydrocarbon saturated soil. (MADE GROUND)		
				0.70	9.74		End of Borehole at 0.70m		
Remarks									

Borehole Log

Borehole No.

BH23-04

Sheet 1 of 1

Project Name: NGET Tottenham

Project No.
5221420

Co-ords: 535396E - 191426N

Hole Type
IP+CP+RC

Location: Watermead Way, Tottenham, London, N17 0SG

Level:	10.39
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Scale
1:50

Client: National Grid Property Holdings Limited

Dates: 24/04/2023

Logged By
LC

[illegible]

Remarks





Borehole No.

BH23-05

Sheet 1 of 1

Project Name: NGET Tottenham

Project No.
5221420

Co-ords: 535418E - 191491N

Hole Type	IP
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Location: Watermead Way, Tottenham, London, N17 0SG

Level: 10.30

Scale
1:25

Client: National Grid Property Holdings Limited

Dates: 24/04/2023

Logged By
LC

1

2

3

4

5

Remarks



Appendix C. Site Photographs

Client Name: NGET

Site: Arriva Bus Depot, Tottenham

Project No.8021

Photo No.
1

Date:
18th April
2023

Photograph of BH23-03 location.
The photograph aspect is North.



Photo No.
2

Date:
24th April
2023

Photograph of the area immediately South to BH23-03. Paint area withing steal company.



Client Name: NGET

Site: Arriva Bus Depot, Tottenham

Project No.8021

Photo No.
3

Date:
24th April
2023

Photograph of the BH23-04 post vac ex to 1.5m bgl.



Photo No.
4

Date:
19th April
2023

Area 1
Photograph of arisings from BH23-04 from the vac ex.



Client Name: NGET

Site: Arriva Bus Depot, Tottenham

Project No.8021

Photo No.
5

Date:
25th April
2023

Photo showing cores from
BH23-04.



Photo No.
6

Date:
19th April
2023

Photograph of the BH23-05 post vac ex excavation to 1.3m bgl.



Client Name: NGET

Site: Arriva Bus Depot, Tottenham

Project No.8021

Photo No.
7

Date:
19th April
2023

Photograph of arisings from BH23-05 from the vac ex.



Photo No.
8

Date:
02nd March
2023

Photograph of BH12-01 with old sampling equipment inside and DNAPL contamination.



Client Name: NGET

Site: Arriva Bus Depot, Tottenham

Project No.8021

Photo No.
9

Date:
04th July
2023

Photograph of BH11
while taking a DNAPL
sample.



Photo No.
10

Date:
04th July
2023

Photograph of the
vehicles with asbestos
signage located in the
south of the site.



Appendix D. Laboratory Results

D.1. Soil and Soil Leachate Results



Final Report

Report No.: 23-14524-1

Initial Date of Issue: 23-May-2023

Re-Issue Details:

Client Atkins Ltd

Client Address: The Hub
500 Park Avenue
Bristol
BS32 4RZ

Contact(s): Zita Czinke
Dan Peters

Project NGET Tottenham

Quotation No.: Q19-17666 **Date Received:** 02-May-2023

Order No.: 5221420/CHE **Date Instructed:** 02-May-2023

No. of Samples: 4

Turnaround (Wkdays): 7 **Results Due:** 11-May-2023

Date Approved: 23-May-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Leachate

Project: NGET Tottenham

Client: Atkins Ltd	Chemtest Job No.:					23-14524	23-14524	23-14524
Quotation No.: Q19-17666	Chemtest Sample ID.:					1632840	1632842	1632843
	Client Sample ID.:					2	1	1
	Sample Location:					BH23-04	BH23-05	BH23-03
	Sample Type:					SOIL	SOIL	SOIL
	Top Depth (m):					1.70	1.20	0.30
	Bottom Depth (m):					1.70	1.20	0.30
	Date Sampled:					25-Apr-2023	24-Apr-2023	24-Apr-2023
Determinand	Accred.	SOP	Type	Units	LOD			
pH	U	1010	10:1		N/A	8.3	8.7	8.5
Electrical Conductivity	U	1020	10:1	µS/cm	1.0	250	190	160
Chloride	U	1220	10:1	mg/l	1.0	2.8	20	< 1.0
Ammonium	U	1220	10:1	mg/l	0.050	2.4	1.4	< 0.050
Sulphur	N	1220	10:1	mg/l	1.0	38	8.7	16
Sulphate	U	1220	10:1	mg/l	1.0	110	26	49
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050	< 0.050	< 0.050
Thiocyanate	U	1300	10:1	mg/l	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Complex)	U	1300	10:1	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	10:1	mg/l	0.050	< 0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	80	14	3.5
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	0.54	1.8	2.4
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	1.3	2.1	0.79
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	0.58	4.2	0.81
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	0.65	7.6	0.58
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	22	15	20
Iron (Dissolved)	N	1455	10:1	µg/l	5.0	230	9800	15
Total Organic Carbon	U	1610	10:1	mg/l	2.0	20	27	3.3
Aliphatic TPH >C5-C6	N	1675	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	10:1	µg/l	0.10	140	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	10:1	µg/l	0.10	1700	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	10:1	µg/l	0.10	68	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	10:1	µg/l	5.0	1900	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	10:1	µg/l	0.10	130	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	10:1	µg/l	0.10	420	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	10:1	µg/l	0.10	4400	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	10:1	µg/l	0.10	550	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	10:1	µg/l	0.10	970	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	10:1	µg/l	0.10	130	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10

Results - Leachate

Project: NGET Tottenham

Client: Atkins Ltd	Chemtest Job No.:					23-14524	23-14524	23-14524
Quotation No.: Q19-17666	Chemtest Sample ID.:					1632840	1632842	1632843
	Client Sample ID.:					2	1	1
	Sample Location:					BH23-04	BH23-05	BH23-03
	Sample Type:					SOIL	SOIL	SOIL
	Top Depth (m):					1.70	1.20	0.30
	Bottom Depth (m):					1.70	1.20	0.30
	Date Sampled:					25-Apr-2023	24-Apr-2023	24-Apr-2023
Determinand	Accred.	SOP	Type	Units	LOD			
Total Aromatic Hydrocarbons	N	1675	10:1	µg/l	5.0	6600	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	10:1	µg/l	10	8500	< 10	< 10
Naphthalene	U	1700	10:1	µg/l	0.10	< 0.10	77	< 0.10
Acenaphthylene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	10:1	µg/l	0.10	< 0.10	13	< 0.10
Pyrene	U	1700	10:1	µg/l	0.10	< 0.10	13	< 0.10
Benzo[a]anthracene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	10:1	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	10:1	µg/l	2.0	< 2.0	100	< 2.0
Benzene	U	1760	10:1	µg/l	1.0	1900	8.3	< 1.0
Toluene	U	1760	10:1	µg/l	1.0	190	2.0	< 1.0
Ethylbenzene	U	1760	10:1	µg/l	1.0	17	< 1.0	< 1.0
m & p-Xylene	U	1760	10:1	µg/l	1.0	72	< 1.0	< 1.0
o-Xylene	U	1760	10:1	µg/l	1.0	31	< 1.0	< 1.0
PCB 28	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
PCB 52	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
PCB 90+101	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
PCB 118	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
PCB 153	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
PCB 138	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
PCB 180	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Total PCBs (7 congeners)	N	1815	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010
Resorcinol	U	1920	10:1	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050
Phenol	U	1920	10:1	mg/l	0.0050	0.13	0.064	< 0.0050
Cresols	U	1920	10:1	mg/l	0.0050	0.35	0.021	< 0.0050
Xylenols	U	1920	10:1	mg/l	0.0050	0.46	0.014	< 0.0050
1-Naphthol	N	1920	10:1	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050
Trimethylphenols	U	1920	10:1	mg/l	0.0050	0.081	< 0.0050	< 0.0050

Results - Leachate

Project: NGET Tottenham

Client: Atkins Ltd	Chemtest Job No.:					23-14524	23-14524	23-14524
Quotation No.: Q19-17666	Chemtest Sample ID.:					1632840	1632842	1632843
	Client Sample ID.:					2	1	1
	Sample Location:					BH23-04	BH23-05	BH23-03
	Sample Type:					SOIL	SOIL	SOIL
	Top Depth (m):					1.70	1.20	0.30
	Bottom Depth (m):					1.70	1.20	0.30
	Date Sampled:					25-Apr-2023	24-Apr-2023	24-Apr-2023
Determinand	Accred.	SOP	Type	Units	LOD			
Total Phenols	U	1920	10:1	mg/l	0.030	1.0	0.099	< 0.030

Results - Soil

Project: NGET Tottenham

Client: Atkins Ltd	Chemtest Job No.:				23-14524	23-14524	23-14524	23-14524
Quotation No.: Q19-17666	Chemtest Sample ID.:				1632840	1632841	1632842	1632843
	Client Sample ID.:				2	1	1	1
	Sample Location:				BH23-04	BH23-04	BH23-05	BH23-03
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.70		1.20	0.30
	Bottom Depth (m):				1.70		1.20	0.30
	Date Sampled:				25-Apr-2023	24-Apr-2023	24-Apr-2023	24-Apr-2023
	Asbestos Lab:				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
Moisture	N	2030	%	0.020	49	15	42	17
Soil Colour	N	2040		N/A	Brown	Brown	Black	Brown
Other Material	N	2040		N/A	Stones	45% Stones	30% Stones	10% Stones
Soil Texture	N	2040		N/A	Clay	Clay	Sand	Sand
pH	M	2010		4.0	7.8	7.7	8.8	8.4
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	3.3	1.4	0.90	1.8
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.9	1.5	0.71	0.73
Sulphur (Elemental)	M	2180	mg/kg	1.0	170	71	7.4	78
Chloride (Water Soluble)	M	2220	g/l	0.010	0.36	0.024	0.34	< 0.010
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	4300	310	34
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	5.0	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	4300	310	34
Thiocyanate	M	2300	mg/kg	5.0	< 5.0	22	7.0	< 5.0
Ammonium (Extractable)	M	2425	mg/kg	0.50	250	58	36	1.6
Arsenic	M	2455	mg/kg	0.5	330	67	130	23
Barium	M	2455	mg/kg	0	140	55	61	510
Beryllium	U	2455	mg/kg	0.5	0.7	< 0.5	0.7	2.1
Cadmium	M	2455	mg/kg	0.10	1.7	0.39	1.6	0.59
Chromium	M	2455	mg/kg	0.5	33	2.0	13	31
Copper	M	2455	mg/kg	0.50	94	24	100	140
Mercury	M	2455	mg/kg	0.05	16	8.1	33	1.5
Nickel	M	2455	mg/kg	0.50	26	14	31	39
Lead	M	2455	mg/kg	0.50	170	340	2200	530
Selenium	M	2455	mg/kg	0.25	3.6	1.5	20	1.7
Vanadium	U	2455	mg/kg	0.5	33	1.7	26	63
Zinc	M	2455	mg/kg	0.50	310	91	400	310
Aliphatic VPH >C5-C6	U	2780	mg/kg	0.05	1.58	7.15	0.32	< 0.05
Aliphatic VPH >C6-C7	U	2780	mg/kg	0.05	2.4	7.8	1.6	< 0.05
Aliphatic VPH >C7-C8	U	2780	mg/kg	0.05	2.3	7.2	4.9	< 0.05
Aliphatic VPH >C8-C10	U	2780	mg/kg	0.05	2.3	14	10	< 0.05
Total Aliphatic VPH >C5-C10	U	2780	mg/kg	0.25	8.6	36	17	< 0.25
Aliphatic EPH >C10-C12	M	2690	mg/kg	2.00	270	1800	580	42
Aliphatic EPH >C12-C16	M	2690	mg/kg	1.00	1600	9800	2900	110
Aliphatic EPH >C16-C21	M	2690	mg/kg	2.00	910	4300	1300	26

Results - Soil

Project: NGET Tottenham

Client: Atkins Ltd	Chemtest Job No.:				23-14524	23-14524	23-14524	23-14524
Quotation No.: Q19-17666	Chemtest Sample ID.:				1632840	1632841	1632842	1632843
	Client Sample ID.:				2	1	1	1
	Sample Location:				BH23-04	BH23-04	BH23-05	BH23-03
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.70		1.20	0.30
	Bottom Depth (m):				1.70		1.20	0.30
	Date Sampled:				25-Apr-2023	24-Apr-2023	24-Apr-2023	24-Apr-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
Aliphatic EPH >C21-C35	M	2690	mg/kg	3.00	170	360	360	8.8
Aliphatic EPH >C35-C40	N	2690	mg/kg	10.00	78	39	200	< 10
Total Aliphatic EPH >C10-C35	M	2690	mg/kg	5.00	3000	16000	5100	190
Aromatic VPH >C5-C7	U	2780	mg/kg	0.05	180	410	0.25	< 0.05
Aromatic VPH >C7-C8	U	2780	mg/kg	0.05	24	88	< 0.05	< 0.05
Aromatic VPH >C8-C10	U	2780	mg/kg	0.05	27	54	0.60	< 0.05
Total Aromatic VPH >C5-C10	U	2780	mg/kg	0.25	230	550	0.85	< 0.25
Aromatic EPH >C10-C12	U	2690	mg/kg	1.00	560	3700	660	16
Aromatic EPH >C12-C16	U	2690	mg/kg	1.00	5600	16000	3000	730
Aromatic EPH >C16-C21	U	2690	mg/kg	2.00	5100	14000	2900	860
Aromatic EPH >C21-C35	U	2690	mg/kg	2.00	9000	13000	2200	980
Aromatic EPH >C35-C40	N	2690	mg/kg	1.00	930	1700	140	340
Total Aromatic EPH >C10-C35	U	2690	mg/kg	5.00	20000	46000	8700	2600
Total VPH >C5-C10	U	2780	mg/kg	0.50	240	590	18	< 0.50
Total EPH >C10-C35	U	2690	mg/kg	10.00	23000	63000	14000	2800
LOI	M	2610	%	0.10	43	69	42	4.7
Fraction of Organic Carbon	M	2625		0.0010	0.13		0.42	0.056
Benzene	M	2760	µg/kg	1.0	170000	55000	110	4.7
Toluene	M	2760	µg/kg	1.0	81000	400000	40	2.2
Ethylbenzene	M	2760	µg/kg	1.0	1600	32000	51	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	73000	440000	77	< 1.0
o-Xylene	M	2760	µg/kg	1.0	26000	110000	48	< 1.0
Naphthalene	M	2800	mg/kg	0.10	11	1600	120	0.93
Acenaphthylene	N	2800	mg/kg	0.10	19	57	34	0.42
Acenaphthene	M	2800	mg/kg	0.10	3.1	14	26	0.14
Fluorene	M	2800	mg/kg	0.10	7.2	65	31	0.20
Phenanthrene	M	2800	mg/kg	0.10	21	1200	56	0.62
Anthracene	M	2800	mg/kg	0.10	9.8	68	57	0.38
Fluoranthene	M	2800	mg/kg	0.10	49	860	350	1.5
Pyrene	M	2800	mg/kg	0.10	71	660	490	1.7
Benzo[a]anthracene	M	2800	mg/kg	0.10	31	66	97	0.69
Chrysene	M	2800	mg/kg	0.10	30	59	99	0.67
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	290	70	190	1.2
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	51	29	46	0.43
Benzo[a]pyrene	M	2800	mg/kg	0.10	260	60	200	0.95
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	92	38	84	0.94
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	16	7.8	17	0.18

Results - Soil

Project: NGET Tottenham

Client: Atkins Ltd	Chemtest Job No.:				23-14524	23-14524	23-14524	23-14524
Quotation No.: Q19-17666	Chemtest Sample ID.:				1632840	1632841	1632842	1632843
	Client Sample ID.:				2	1	1	1
	Sample Location:				BH23-04	BH23-04	BH23-05	BH23-03
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.70		1.20	0.30
	Bottom Depth (m):				1.70		1.20	0.30
	Date Sampled:				25-Apr-2023	24-Apr-2023	24-Apr-2023	24-Apr-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	80	30	76	0.92
Total Of 16 PAH's	N	2800	mg/kg	2.0	1000	4900	2000	12
PCB 28	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
PCB 52	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
PCB 90+101	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
PCB 118	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
PCB 153	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
PCB 138	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
PCB 180	U	2815	mg/kg	0.010	< 0.010		< 0.010	< 0.010
Total PCBs (7 Congeners)	U	2815	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Resorcinol	M	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020
Phenol	M	2920	mg/kg	0.020	12	0.17	6.2	< 0.020
Cresols	M	2920	mg/kg	0.020	44	9.0	2.1	< 0.020
Xylenols	M	2920	mg/kg	0.020	69	79	< 0.020	< 0.020
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trimethylphenols	M	2920	mg/kg	0.020	< 0.020	64	< 0.020	< 0.020
Total Phenols	M	2920	mg/kg	0.10	130	150	8.2	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
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.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Waters by GC-MS	ICES7 PCB congeners	Solvent 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.
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
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
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.

Test Methods

SOP	Title	Parameters included	Method summary
2425	Extractable Ammonium in soils	Ammonium	Extraction with potassium chloride solution / analysis by 'Aquakem 600' Discrete Analyser using sodium salicylate and sodium dichloroisocyanurate.
2455	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.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C40	Acetone/Heptane 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.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection
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.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 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

D.2. Water Results



2183

Amended Report

Report No.:	23-19840-6		
Initial Date of Issue:	22-Jun-2023	Date of Re-Issue:	05-Feb-2024
Re-Issue Details:	This report has been revised and directly supersedes 23-19840-5 in its entirety		
Client	AtkinsRealis UK Limited		
Client Address:	Woodcote Grove Ashley Road Epsom KT18 5BW		
Contact(s):	Dan Peters Zita Czinke Lauren Ilyas		
Project	NGET Tottenham		
Quotation No.:	Q22-29452	Date Received:	12-Jun-2023
Order No.:	5221420/CHE	Date Instructed:	12-Jun-2023
No. of Samples:	9		
Turnaround (Wkdays):	5	Results Due:	16-Jun-2023
Date Approved:	20-Jun-2023		
Approved By:			

Details: Stuart Henderson, Technical Manager

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.:				23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840
Quotation No.: Q22-29452		Chemtest Sample ID.:				1655456	1655457	1655458	1655459	1655460	1655461	1655462	1655463
		Sample Location:				BH11 BD	BH12-04	WS12-08	BH12-05	BH12050	BH12-02D	BH12-01	Trip Blank
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Top Depth (m):				4	5	2	6	6	3	3	
		Bottom Depth (m):				4	5	2	6	6	3	3	
		Date Sampled:				08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023
		Time Sampled:				9:30	10:00	11:15	11:30	11:45	11:40	12:30	
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	1800	2200	1800	2000	2000	1100	U/S	
Suspended Solids At 105C		U	1030	mg/l	5.0	74	62	2100	63	220	120	U/S	
Chloride		U	1220	mg/l	1.0	63	160	43	200	200	110	U/S	
Ammonium		U	1220	mg/l	0.050	31	23	2.1	6.3	6.4	7.5	U/S	
Sulphur		N	1220	mg/l	1.0	33	< 1.0	190	130	130	43	U/S	
Sulphate		U	1220	mg/l	1.0	98	< 1.0	580	400	390	130	U/S	
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	0.060	< 0.050	0.070	0.070	0.23	U/S	
Cyanide (Free)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	U/S	
Thiocyanate		U	1300	mg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.53	U/S	
Cyanide (Complex)		U	1300	mg/l	0.050	< 0.050	0.060	< 0.050	0.070	0.070	0.23	U/S	
Sulphide		U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	U/S	
Arsenic (Dissolved)		U	1455	µg/l	0.20	2.8	0.65	1.6	0.30	0.32	12	U/S	
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	U/S	
Chromium (Dissolved)		U	1455	µg/l	0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	0.72	U/S	
Copper (Dissolved)		U	1455	µg/l	0.50	0.62	< 0.50	1.4	1.5	2.8	< 0.50	U/S	
Iron (Dissolved)		N	1455	µg/l	5.0	73	65	18	70	67	150	U/S	
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	U/S	
Nickel (Dissolved)		U	1455	µg/l	0.50	14	7.8	40	8.6	9.1	2.4	U/S	
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	U/S	
Selenium (Dissolved)		U	1455	µg/l	0.50	1.0	0.56	1.0	< 0.50	< 0.50	< 0.50	U/S	
Zinc (Dissolved)		U	1455	µg/l	2.5	4.4	< 2.5	40	11	20	< 2.5	U/S	
Total Organic Carbon		U	1610	mg/l	2.0	20	30	8.1	13	12	28	U/S	
Aliphatic TPH >C5-C6	EH_AL_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Aliphatic TPH >C6-C8	EH_AL_2D_#1	N	1675	µg/l	0.10	110	140	< 0.10	< 0.10	< 0.10	120	1600	
Aliphatic TPH >C8-C10	EH_AL_2D_#1	N	1675	µg/l	0.10	86	120	< 0.10	< 0.10	< 0.10	95	12000	
Aliphatic TPH >C10-C12	EH_AL_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	21000	
Aliphatic TPH >C12-C16	EH_AL_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	36000	
Aliphatic TPH >C16-C21	EH_AL_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	48000	
Aliphatic TPH >C21-C35	EH_AL_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	25000	
Aliphatic TPH >C35-C44	EH_AL_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2500	
Total Aliphatic Hydrocarbons	EH_AL_2D_#1	N	1675	µg/l	5.0	190	260	< 5.0	< 5.0	< 5.0	220	150000	
Aromatic TPH >C5-C7	EH_AR_2D_#1	N	1675	µg/l	0.10	44	160	< 0.10	< 0.10	< 0.10	< 0.10	4000	
Aromatic TPH >C7-C8	EH_AR_2D_#1	N	1675	µg/l	0.10	28	120	< 0.10	< 0.10	< 0.10	< 0.10	64000	
Aromatic TPH >C8-C10	EH_AR_2D_#1	N	1675	µg/l	0.10	170	2100	< 0.10	< 0.10	< 0.10	48	69000	
Aromatic TPH >C10-C12	EH_AR_2D_#1	N	1675	µg/l	0.10	140	1900	< 0.10	< 0.10	< 0.10	39	160000	
Aromatic TPH >C12-C16	EH_AR_2D_#1	N	1675	µg/l	0.10	290	2100	< 0.10	< 0.10	< 0.10	51	380000	
Aromatic TPH >C16-C21	EH_AR_2D_#1	N	1675	µg/l	0.10	< 0.10	170	< 0.10	< 0.10	< 0.10	< 0.10	270000	

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.:				23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840
Quotation No.: Q22-29452		Chemtest Sample ID.:				1655456	1655457	1655458	1655459	1655460	1655461	1655462	1655463
		Sample Location:				BH11 BD	BH12-04	WS12-08	BH12-05	BH12050	BH12-02D	BH12-01	Trip Blank
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Top Depth (m):				4	5	2	6	6	3	3	
		Bottom Depth (m):				4	5	2	6	6	3	3	
		Date Sampled:				08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023
		Time Sampled:				9:30	10:00	11:15	11:30	11:45	11:40	12:30	
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Aromatic TPH >C21-C35	EH_AR_2D_#1	N	1675	µg/l	0.10	< 0.10	51	< 0.10	< 0.10	< 0.10	< 0.10	190000	
Aromatic TPH >C35-C44	EH_AR_2D_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Aromatic Hydrocarbons	EH_AR_2D_#1	N	1675	µg/l	5.0	670	6500	< 5.0	< 5.0	< 5.0	140	1100000	
Total Petroleum Hydrocarbons	EH_Total_2D_#1	N	1675	µg/l	10	870	6800	< 10	< 10	< 10	360	1300000	
Total BTEX		U	1760	µg/l	1.0	200	54	< 1.0	< 1.0	< 1.0	14000	160000	
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		U	1760	µg/l	1.0	120	< 1.0	< 1.0	< 1.0	< 1.0	14000	110000	16
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		U	1760	µg/l	1.0	4.8	4.1	< 1.0	< 1.0	< 1.0	65	16000	3.9
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		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	110	4500	< 1.0

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.:				23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840
Quotation No.: Q22-29452		Chemtest Sample ID.:				1655456	1655457	1655458	1655459	1655460	1655461	1655462	1655463
		Sample Location:				BH11 BD	BH12-04	WS12-08	BH12-05	BH12050	BH12-02D	BH12-01	Trip Blank
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Top Depth (m):				4	5	2	6	6	3	3	
		Bottom Depth (m):				4	5	2	6	6	3	3	
		Date Sampled:				08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023
		Time Sampled:				9:30	10:00	11:15	11:30	11:45	11:40	12:30	
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
m & p-Xylene		U	1760	µg/l	1.0	26	16	< 1.0	< 1.0	< 1.0	100	21000	< 1.0
o-Xylene		U	1760	µg/l	1.0	54	35	< 1.0	< 1.0	< 1.0	140	12000	< 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
Naphthalene		U	1800	µg/l	0.10	170	200	< 0.10	< 0.10	< 0.10	40	98000	
Acenaphthylene		U	1800	µg/l	0.10	7.6	< 0.10	< 0.10	< 0.10	< 0.10	2.6	19000	
Acenaphthene		U	1800	µg/l	0.10	2.3	220	< 0.10	< 0.10	8.2	2.5	2600	
Fluorene		U	1800	µg/l	0.10	2.3	4.2	< 0.10	< 0.10	< 0.10	2.7	7200	
Phenanthrene		U	1800	µg/l	0.10	4.3	6.4	< 0.10	< 0.10	< 0.10	3.4	19000	
Anthracene		U	1800	µg/l	0.10	0.96	3.9	< 0.10	< 0.10	< 0.10	< 0.10	5500	
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4900	
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	6900	
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1900	
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1200	
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.:				23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840	23-19840
Quotation No.: Q22-29452		Chemtest Sample ID.:				1655456	1655457	1655458	1655459	1655460	1655461	1655462	1655463
		Sample Location:				BH11 BD	BH12-04	WS12-08	BH12-05	BH12050	BH12-02D	BH12-01	Trip Blank
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Top Depth (m):				4	5	2	6	6	3	3	
		Bottom Depth (m):				4	5	2	6	6	3	3	
		Date Sampled:				08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023	08-Jun-2023
		Time Sampled:				9:30	10:00	11:15	11:30	11:45	11:40	12:30	
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	46	
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		U	1800	µg/l	2.0	190	430	< 2.0	< 2.0	8.2	51	170000	
Resorcinol		U	1920	mg/l	0.0050	0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Phenol		U	1920	mg/l	0.0050	< 0.0050	0.037	< 0.0050	< 0.0050	< 0.0050	0.039	12	
Cresols		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0090	33	
Xylenols		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.068	12	
1-Naphthol		N	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Trimethylphenols		U	1920	mg/l	0.0050	< 0.0050	0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Total Phenols		U	1920	mg/l	0.030	< 0.030	0.051	< 0.030	< 0.030	< 0.030	0.12	58	

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.:		23-19840	
Quotation No.: Q22-29452		Chemtest Sample ID.:		1655464	
		Sample Location:		Trip Blank	
		Sample Type:		WATER	
		Sample Sub Type:			
		Top Depth (m):			
		Bottom Depth (m):			
		Date Sampled:		08-Jun-2023	
		Time Sampled:			
Determinand	HWOL Code	Accred.	SOP	Units	LOD
Electrical Conductivity at 25C		U	1020	µS/cm	1.0
Suspended Solids At 105C		U	1030	mg/l	5.0
Chloride		U	1220	mg/l	1.0
Ammonium		U	1220	mg/l	0.050
Sulphur		N	1220	mg/l	1.0
Sulphate		U	1220	mg/l	1.0
Cyanide (Total)		U	1300	mg/l	0.050
Cyanide (Free)		U	1300	mg/l	0.050
Thiocyanate		U	1300	mg/l	0.50
Cyanide (Complex)		U	1300	mg/l	0.050
Sulphide		U	1325	mg/l	0.050
Arsenic (Dissolved)		U	1455	µg/l	0.20
Cadmium (Dissolved)		U	1455	µg/l	0.11
Chromium (Dissolved)		U	1455	µg/l	0.50
Copper (Dissolved)		U	1455	µg/l	0.50
Iron (Dissolved)		N	1455	µg/l	5.0
Mercury (Dissolved)		U	1455	µg/l	0.05
Nickel (Dissolved)		U	1455	µg/l	0.50
Lead (Dissolved)		U	1455	µg/l	0.50
Selenium (Dissolved)		U	1455	µg/l	0.50
Zinc (Dissolved)		U	1455	µg/l	2.5
Total Organic Carbon		U	1610	mg/l	2.0
Aliphatic TPH >C5-C6	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C6-C8	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C8-C10	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C10-C12	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C12-C16	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C16-C21	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C21-C35	EH_AL_2D_#1	N	1675	µg/l	0.10
Aliphatic TPH >C35-C44	EH_AL_2D_#1	N	1675	µg/l	0.10
Total Aliphatic Hydrocarbons	EH_AL_2D_#1	N	1675	µg/l	5.0
Aromatic TPH >C5-C7	EH_AR_2D_#1	N	1675	µg/l	0.10
Aromatic TPH >C7-C8	EH_AR_2D_#1	N	1675	µg/l	0.10
Aromatic TPH >C8-C10	EH_AR_2D_#1	N	1675	µg/l	0.10
Aromatic TPH >C10-C12	EH_AR_2D_#1	N	1675	µg/l	0.10
Aromatic TPH >C12-C16	EH_AR_2D_#1	N	1675	µg/l	0.10
Aromatic TPH >C16-C21	EH_AR_2D_#1	N	1675	µg/l	0.10

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.: 23-19840				
Quotation No.: Q22-29452		Chemtest Sample ID.: 1655464				
		Sample Location: Trip Blank				
		Sample Type: WATER				
		Sample Sub Type:				
		Top Depth (m):				
		Bottom Depth (m):				
		Date Sampled: 08-Jun-2023				
		Time Sampled:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Aromatic TPH >C21-C35	EH_AR_2D_#1	N	1675	µg/l	0.10	
Aromatic TPH >C35-C44	EH_AR_2D_#1	N	1675	µg/l	0.10	
Total Aromatic Hydrocarbons	EH_AR_2D_#1	N	1675	µg/l	5.0	
Total Petroleum Hydrocarbons	EH_Total_2D_#1	N	1675	µg/l	10	
Total BTEX		U	1760	µg/l	1.0	
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		U	1760	µg/l	1.0	4.9
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		U	1760	µg/l	1.0	1.3
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		U	1760	µg/l	1.0	< 1.0

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.:		23-19840		
Quotation No.: Q22-29452		Chemtest Sample ID.:		1655464		
		Sample Location:		Trip Blank		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):				
		Bottom Depth (m):				
		Date Sampled:		08-Jun-2023		
		Time Sampled:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
m & p-Xylene		U	1760	µg/l	1.0	< 1.0
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
Naphthalene		U	1800	µg/l	0.10	
Acenaphthylene		U	1800	µg/l	0.10	
Acenaphthene		U	1800	µg/l	0.10	
Fluorene		U	1800	µg/l	0.10	
Phenanthrene		U	1800	µg/l	0.10	
Anthracene		U	1800	µg/l	0.10	
Fluoranthene		U	1800	µg/l	0.10	
Pyrene		U	1800	µg/l	0.10	
Benzo[a]anthracene		U	1800	µg/l	0.10	
Chrysene		U	1800	µg/l	0.10	
Benzo[b]fluoranthene		U	1800	µg/l	0.10	
Benzo[k]fluoranthene		U	1800	µg/l	0.10	
Benzo[a]pyrene		U	1800	µg/l	0.10	

Results - Water

Project: NGET Tottenham

Client: AtkinsRealis UK Limited		Chemtest Job No.: 23-19840				
Quotation No.: Q22-29452		Chemtest Sample ID.: 1655464				
		Sample Location: Trip Blank				
		Sample Type: WATER				
		Sample Sub Type:				
		Top Depth (m):				
		Bottom Depth (m):				
		Date Sampled: 08-Jun-2023				
		Time Sampled:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	
Total Of 16 PAH's		U	1800	µg/l	2.0	
Resorcinol		U	1920	mg/l	0.0050	
Phenol		U	1920	mg/l	0.0050	
Cresols		U	1920	mg/l	0.0050	
Xylenols		U	1920	mg/l	0.0050	
1-Naphthol		N	1920	mg/l	0.0050	
Trimethylphenols		U	1920	mg/l	0.0050	
Total Phenols		U	1920	mg/l	0.030	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE TS PL LE SW GW
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C.	SW
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.	RE PW PL LE DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.	PL LE GW
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).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44 Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
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.	PL GW
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; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
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

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable
- PL - Prepared Leachate
- PW - Processed Water

Report Information

RE - Recreational Water

SA - Saline Water

SW - Surface Water

TE - Treated Effluent

TS - Treated Sewage

UL - Unspecified Liquid

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Atkins
286 Euston Road
London
United Kingdom
NW1 3AT



4225



Attention : Lauren Llyas
Date : 26th July, 2023
Your reference : NGET
Our reference : Test Report 23/10969 Batch 1
Location : NGET Tottenham
Date samples received : 6th July, 2023
Status : Final Report
Issue : 1

Two samples were received for analysis on 6th July, 2023 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Simon Gomery BSc

Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Atkins
Reference: NGET
Location: NGET Tottenham
Contact: Lauren Llyas
EMT Job No: 23/10969

VOC Report : Product

EMT Sample No.	1-3	4-6										
Sample ID	BH11BD	BH12-01										
Depth												
COC No / misc												
Containers	V G	V G										
Sample Date	04/07/2023	04/07/2023										
Sample Type	Product	Product										
Batch Number	1	1										
Date of Receipt	06/07/2023	06/07/2023										
VOC MS												
Dichlorodifluoromethane	<0.01	<0.01								<0.01	%	TM124/PM0
Methyl Tertiary Butyl Ether	<0.05	<0.05								<0.05	%	TM124/PM0
Chloromethane	<0.01	<0.01								<0.01	%	TM124/PM0
Vinyl Chloride	<0.01	<0.01								<0.01	%	TM124/PM0
Bromomethane	<0.01	<0.01								<0.01	%	TM124/PM0
Chloroethane	<0.01	<0.01								<0.01	%	TM124/PM0
Trichlorofluoromethane	<0.01	<0.01								<0.01	%	TM124/PM0
1,1-Dichloroethene (1,1 DCE)	<0.01	<0.01								<0.01	%	TM124/PM0
Dichloromethane (DCM)	<0.01	<0.01								<0.01	%	TM124/PM0
trans-1-2-Dichloroethene	<0.01	<0.01								<0.01	%	TM124/PM0
1,1-Dichloroethane	<0.01	<0.01								<0.01	%	TM124/PM0
cis-1-2-Dichloroethene	<0.01	<0.01								<0.01	%	TM124/PM0
2,2-Dichloropropane	<0.01	<0.01								<0.01	%	TM124/PM0
Bromochloromethane	<0.01	<0.01								<0.01	%	TM124/PM0
Chloroform	<0.01	<0.01								<0.01	%	TM124/PM0
1,1,1-Trichloroethane	<0.01	<0.01								<0.01	%	TM124/PM0
1,1-Dichloropropene	<0.01	<0.01								<0.01	%	TM124/PM0
Carbon tetrachloride	<0.01	<0.01								<0.01	%	TM124/PM0
1,2-Dichloroethane	<0.01	0.03								<0.01	%	TM124/PM0
Benzene	0.34	4.68								<0.01	%	TM124/PM0
Trichloroethene (TCE)	<0.01	<0.01								<0.01	%	TM124/PM0
1,2-Dichloropropane	<0.01	<0.01								<0.01	%	TM124/PM0
Dibromomethane	<0.01	<0.01								<0.01	%	TM124/PM0
Bromodichloromethane	<0.01	<0.01								<0.01	%	TM124/PM0
cis-1-3-Dichloropropene	<0.01	<0.01								<0.01	%	TM124/PM0
Toluene	0.35	2.95								<0.01	%	TM124/PM0
trans-1-3-Dichloropropene	<0.01	<0.01								<0.01	%	TM124/PM0
1,1,2-Trichloroethane	<0.01	<0.01								<0.01	%	TM124/PM0
Tetrachloroethene (PCE)	<0.01	<0.01								<0.01	%	TM124/PM0
1,3-Dichloropropane	<0.01	<0.01								<0.01	%	TM124/PM0
Dibromochloromethane	<0.01	<0.01								<0.01	%	TM124/PM0
1,2-Dibromoethane	<0.01	<0.01								<0.01	%	TM124/PM0
Chlorobenzene	<0.01	<0.01								<0.01	%	TM124/PM0
1,1,1,2-Tetrachloroethane	<0.01	<0.01								<0.01	%	TM124/PM0
Ethylbenzene	0.75	0.29								<0.01	%	TM124/PM0
m/p-Xylene	0.86	1.53								<0.01	%	TM124/PM0
o-Xylene	0.47	0.03								<0.01	%	TM124/PM0
Styrene	<0.01	0.92								<0.01	%	TM124/PM0
Bromoform	<0.01	<0.01								<0.01	%	TM124/PM0
Isopropylbenzene	0.02	0.03								<0.01	%	TM124/PM0
1,1,2,2-Tetrachloroethane	<0.01	<0.01								<0.01	%	TM124/PM0
Bromobenzene	<0.01	<0.01								<0.01	%	TM124/PM0
1,2,3-Trichloropropane	<0.01	<0.01								<0.01	%	TM124/PM0
Propylbenzene	0.02	0.05								<0.01	%	TM124/PM0
2-Chlorotoluene	<0.01	<0.01								<0.01	%	TM124/PM0
1,3,5-Trimethylbenzene	0.12	0.20								<0.01	%	TM124/PM0
4-Chlorotoluene	<0.01	<0.01								<0.01	%	TM124/PM0
tert-Butylbenzene	<0.01	<0.01								<0.01	%	TM124/PM0
1,2,4-Trimethylbenzene	0.30	0.49								<0.01	%	TM124/PM0
sec-Butylbenzene	<0.01	<0.01								<0.01	%	TM124/PM0
4-Isopropyltoluene	<0.01	<0.01								<0.01	%	TM124/PM0
1,3-Dichlorobenzene	<0.01	<0.01								<0.01	%	TM124/PM0
1,4-Dichlorobenzene	<0.01	<0.01								<0.01	%	TM124/PM0
n-Butylbenzene	0.03	0.06								<0.01	%	TM124/PM0
1,2-Dichlorobenzene	<0.01	<0.01								<0.01	%	TM124/PM0
1,2-Dibromo-3-chloropropane	<0.01	<0.01								<0.01	%	TM124/PM0
1,2,4-Trichlorobenzene	<0.01	<0.01								<0.01	%	TM124/PM0
Hexachlorobutadiene	<0.01	<0.01								<0.01	%	TM124/PM0
Naphthalene	1.36	0.49								<0.01	%	TM124/PM0
1,2,3-Trichlorobenzene	<0.01	<0.01								<0.01	%	TM124/PM0

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Job number: 23/10969

Method: VOC

Sample number: 1

Matrix: Product

Sample identity: BH11BD

Sample depth:

Sample Type: Product

Units: %

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
UI_PEAK_GRP	Unidentified Group of Compounds (Poor Quality Match)	1.362 - 15.610	80,80,80,80,80,80,80	0.30
142-82-5	Heptane	5.585	86	0.02
108-87-2	Cyclohexane, methyl-	6.208	90	0.02
591-47-9	Cyclohexene, 4-methyl-	6.635	83	<0.01
591-48-0	Cyclohexene, 3-methyl-	7.264	86	<0.01
1678-91-7	Cyclohexane, ethyl-	8.560	80	<0.01
111-84-2	Nonane	9.688	93	0.02
622-97-9	Benzene, 1-ethenyl-4-methyl-	11.124	93	<0.01
611-14-3	Benzene, 1-ethyl-2-methyl-	11.363	94	0.32
124-18-5	Decane	11.547	93	0.02
622-96-8	Benzene, 1-ethyl-4-methyl-	11.764	91	0.03
98-83-9	.alpha.-Methylstyrene	11.803	93	0.04
100-80-1	Benzene, 1-ethenyl-3-methyl-	12.108 - 12.177	95,96	0.30
526-73-8	Benzene, 1,2,3-trimethyl-	12.603	95	0.07
637-50-3	Benzene, 1-propenyl-	12.688	94	0.04
496-11-7	Indane	12.872	93	0.06
95-13-6	Indene	13.177	97	0.62
1120-21-4	Undecane	13.272	81	0.02
874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	13.466 - 14.230	81,95	0.06
527-84-4	o-Cymene	13.577	90	0.04
768-49-0	Benzene, (2-methyl-1-propenyl)-	13.666	94	0.02
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	13.839	97	0.04
2234-20-0	2,4-Dimethylstyrene	13.918	93	0.01
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	14.010	80	<0.01
95-93-2	Benzene, 1,2,4,5-tetramethyl-	14.154	93	0.01
3333-13-9	Benzene, 1-methyl-4-(2-propenyl)-	14.410	96	0.03
768-00-3	Benzene, (1-methyl-1-propenyl)-, (E)-	14.600	87	0.01
22433-39-2	Benzene, 1-methyl-1,2-propadienyl-	14.915	94	0.11
2177-47-1	2-Methylindene	15.072	93	0.11
34324-40-8	Tetracyclo[5.3.0.0<2,6>.0<3,10>]deca-4,8-diene	15.204	91	0.02

Element Materials Technology

Job number: 23/10969
Sample number: 4
Sample identity: BH12-01
Sample depth:
Sample Type: Product
Units: %

Method: VOC
Matrix: Product

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
UI_PEAK_GRP	Unidentified Group of Compounds (Poor Quality Match)	1.214 - 15.630	80,80,80,80,80,80,80	1.11
109-66-0	Pentane	2.182	91	0.02
109-68-2	2-Pentene	2.313	90	<0.01
1630-94-0	Cyclopropane, 1,1-dimethyl-	2.418 - 2.474	80,83	<0.01
142-29-0	Cyclopentene	3.018	91	<0.01
110-54-3	n-Hexane	3.608	94	0.05
7642-09-3	3-Hexene, (Z)-	3.713	86	<0.01
592-43-8	2-Hexene	3.772	91	0.02
96-37-7	Cyclopentane, methyl-	4.231	90	0.05
693-89-0	Cyclopentene, 1-methyl-	4.746	81	0.02
110-82-7	Cyclohexane	4.926	90	0.07
589-34-4	Hexane, 3-methyl-	5.097	91	0.02
822-50-4	Cyclopentane, 1,2-dimethyl-, trans-	5.468	87	0.03
142-82-5	Heptane	5.586	91	0.11
7459-71-4	3,5-Dimethylcyclopentene	5.743	87	0.01
1113-56-0	1,3-Pentadiene, 2,3-dimethyl-	5.782	80	0.02
108-87-2	Cyclohexane, methyl-	6.209	93	0.13
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	6.520	90	<0.01
592-27-8	Heptane, 2-methyl-	6.970	91	0.06
591-49-1	Cyclohexene, 1-methyl-	7.268	90	0.02
638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	7.376	90	0.04
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	7.809	91	0.04
2207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	7.966	80	<0.01
1678-91-7	Cyclohexane, ethyl-	8.560	91	0.03
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	8.632	93	0.05
1795-09-1	Thiophene, tetrahydro-2-methyl-	9.314	87	0.06
111-84-2	Nonane	9.688	94	0.14
2051-30-1	Octane, 2,6-dimethyl-	10.360	92	0.05
611-14-3	Benzene, 1-ethyl-2-methyl-	11.364 - 11.761	94,94	0.49
124-18-5	Decane	11.547	96	0.10

Element Materials Technology

Units: %

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

[illegible]

Client Name: Atkins
Reference: NGET
Location: NGET Tottenham
Contact: Lauren Llyas

EMT Job No.: 23/10969
EMT Sample No.: 1
Sample Identity: BH11BD
Depth:

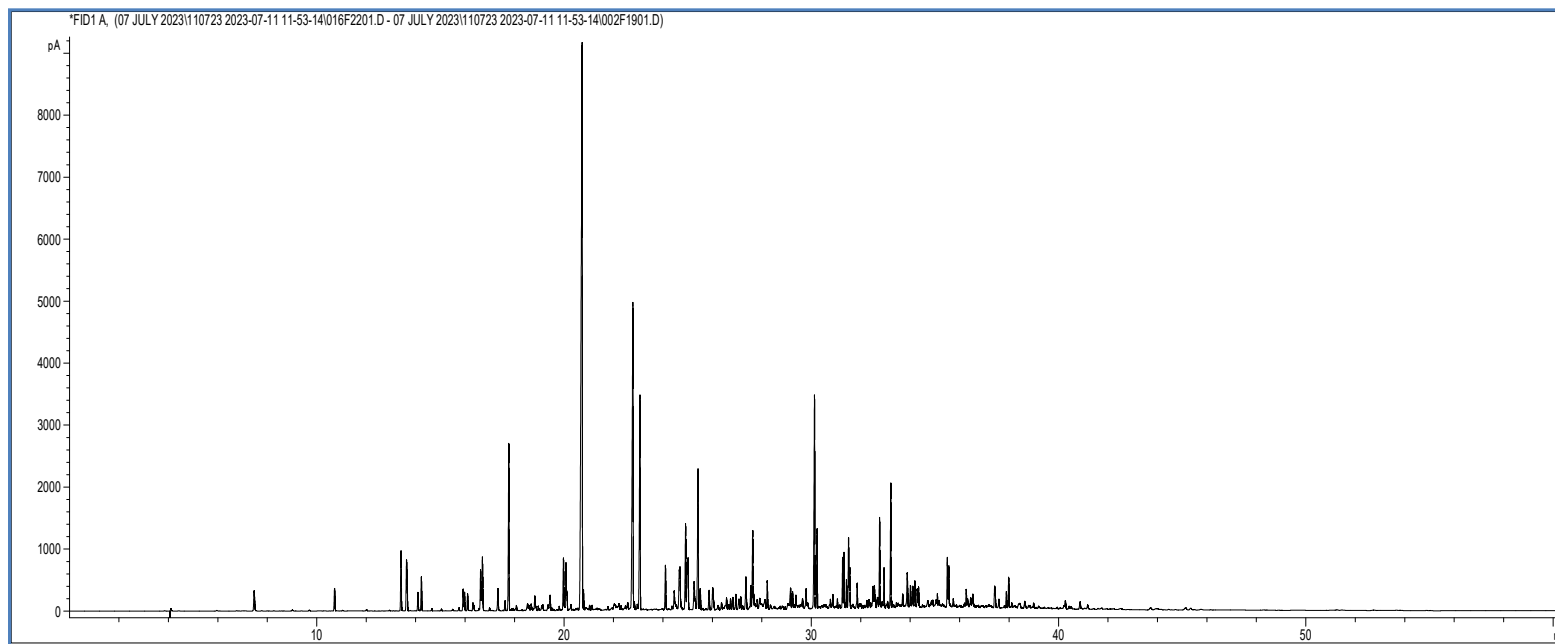
Description: Viscous, dark brown coloured oil
Carbon Range: 5-40+
Boiling Point Range (°C): 36-525+

Pristane/Phytane Ratio: n/a
nC₁₇/Pristane Ratio: n/a

Age of Diesel (+/- 2 years)*: Not possible as relevant markers are either not present or values are above the permitted range

Interpretation: Coal tar

Chromatogram:



*The age of release estimated in this report is based on the nC₁₇/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996). Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory is not aware.

Client Name: Atkins
Reference: NGET
Location: NGET Tottenham
Contact: Lauren Llyas

EMT Job No.: 23/10969
EMT Sample No.: 4
Sample Identity: BH12-01
Depth:

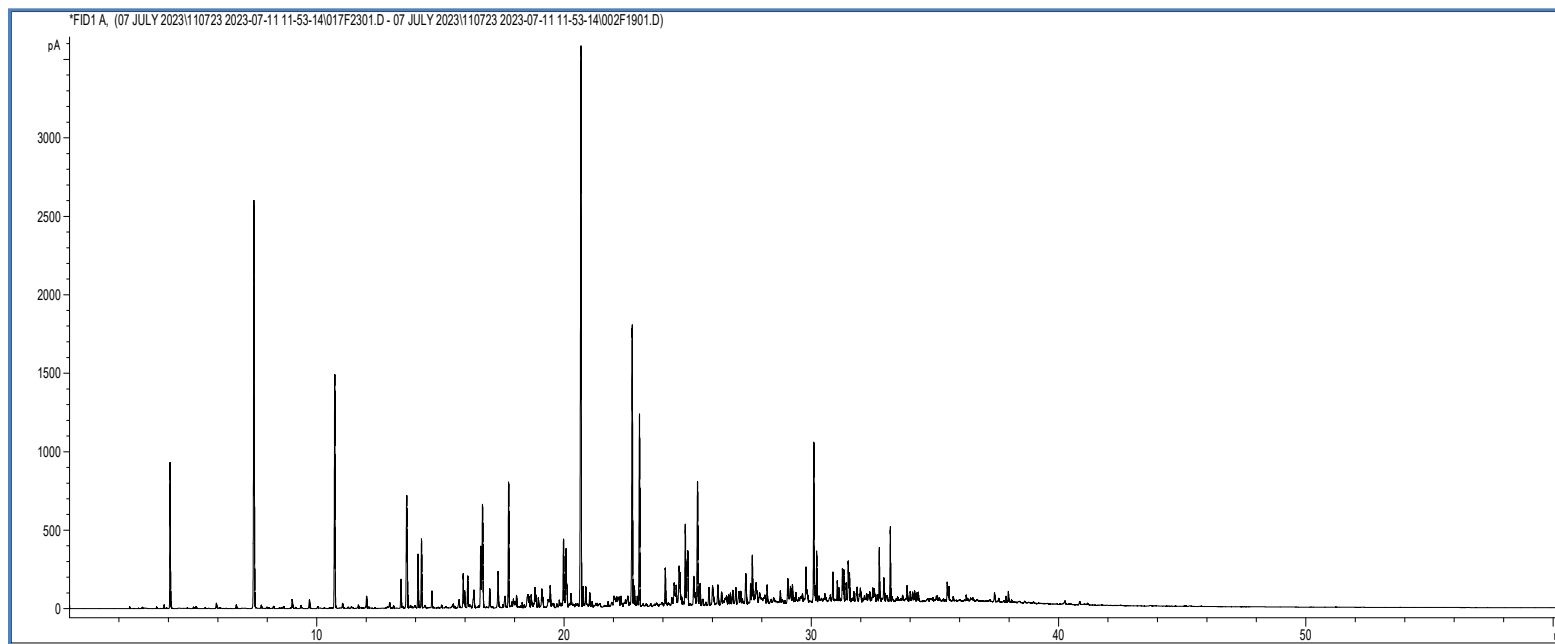
Description: Viscous, dark brown coloured oil
Carbon Range: 5-40+
Boiling Point Range (°C): 36-525+

Pristane/Phytane Ratio: n/a
nC₁₇/Pristane Ratio: n/a

Age of Diesel (+/- 2 years)*: Not possible as relevant markers are either not present or values are above the permitted range

Interpretation: Coal tar

Chromatogram:



*The age of release estimated in this report is based on the nC₁₇/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996). Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory is not aware.

Matrix : Product

[illegible]

Client Name: Atkins
Reference: NGET
Location: NGET Tottenham
Contact: Lauren Llyas

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/10969

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 23/10969

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM1	Modified USEPA 8015B v2:1996 method for the determination of carbon banding in oil and product samples by GC-FID.	PM0	No preparation is required.			AR	
TM1	Modified USEPA 8015B v2:1996 method for the determination of carbon banding in oil and product samples by GC-FID.	PM0	No preparation is required.	Yes		AR	
TM11	Determination of density by a meter.	PM0	No preparation is required.			AR	
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM0	No preparation is required.			AR	
TM124	Modified USEPA 8260B v2:1996. Semi- Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM0	No preparation is required.			AR	
Subcontracted	See attached subcontractor report for accreditation status and provider.						

Appendix E. Monitoring Data

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH11	
Location:	Tottenham		Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	2.96	
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)	5.93-6.62	
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.62	Type of product (e.g. tar, diesel): DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

No YSI readings recorded Drops of DNAPL, Strong hydrocarbons odour, Oil sheen, Clear colour

Laboratory:

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All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12	
Location:	Tottenham			Date:	11/05/2023
Reference:	8021	Engineers:	Jaime Moreno		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:		Sunny	Depth to groundwater (mbtc):From groundlevel		2.86
Air temperature (°C):		15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.4	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	6
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0		14.3	27	4402	-1.38		415	2.86
3		14.1	8.6	4420	-0.75		440	
6		14.2	6.4	4418	0.1		288	
9		14.2	4.3	4414	0.78		238	
12		14.2	3.9	4403	1.07		214	
15		14.2	3.8	4408	1.03		214	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH12-01	
Location:	Tottenham		Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	2.25	
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)	4.7-6.02	
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.02	Type of product (e.g. tar, diesel): DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Hex Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	No YSI used due to contamination

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Sampled/no YSI used. Strong hydrocarbon odour, DNAPL drops and oily sheen in sample.

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-02D	
Location:	Tottenham			Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	0.740		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.76	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0		13.3	36	1100	7.29		-92.7	0.740
3		13.2	3.8	1020	7.26		-117.2	
6		13.7	2.9	960	7.42		-118.1	
9		13.9	2.6	1004	7.3		-132.1	
12		14	2.4	1011	7.26		-136	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l , consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-04	
Location:	Tottenham			Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	3.00		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	5.94	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0		14.8	13.5	2399	7.14		5.2	3.00
3		15	6	2392	7.15		-16.4	
6		15	5.3	2383	7.16		-18.8	
9		15.1	4.7	2387	7.16		-19.9	
12		15.2	4.2	2385	7.16		-21	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ±0.1, Conductivity ± 3%, Redox ±10mv, ±10% for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-05	
Location:	Tottenham			Date:	11/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)		Yes			
Weather conditions:		sunny	Depth to groundwater (mbtc):From groundlevel		2.65
Air temperature (°C):		15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.35	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	6
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l , consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

-No readings drops of possible DNAPL- Light Brown colour, Hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-06	
Location:	Tottenham			Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	2.56		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.05	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	5.5
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0		14.1	9.3	1925	7.01		-6.2	2.56
3		14.01	7	1922	7.02		-12.3	
6		14	6	1924	7.02		-18.5	
9		13.9	5.2	1923	7.01		-20	
12		13.9	5	1923	7.01		-21.3	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-03	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	No				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	0.33		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	0.8	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Sampled No readings because red colour on the water

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH23-04	
Location:	Tottenham		Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	2.27	
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	4.17	Type of product (e.g. tar, diesel):

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Black colour, Strong hydrocarbons odour No readings, concern with water contamination

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH23-05	
Location:	Tottenham			Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	No				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	1.28		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	1.34	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic
Depth of the sample:	1.30
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

No reading not enough water in the borehole to complete sample set

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: WS12-01	
Location:	Tottenham		Date:	11/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	0.76	
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.05	Type of product (e.g. tar, diesel):

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL drops/ Strong DNAPL odour, yellowish colour No Readings

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-02D	
Location:	Tottenham			Date:	11/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	1.55		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	3.05		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.04	Type of product (e.g. tar, diesel):	DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL drops pumped/ No YSI used/ Strong DNAPL odour, 1cm DNAPL at the bottom
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Laborator

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All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-03	
Location:	Tottenham			Date:	11/05/2023
Reference:	8021	Engineers:	Jaime Moreno		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	1.59		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	2.16	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0		14.1	16.8	3321	7.17		1.8	1.59
3		14	9.7	3321	7.17		-19.8	
6		14.1	7.7	3326	7.16		-27.1	
9		13.9	6.2	3340	7.17		-31.7	
12		14	5.3	3343	7.16		-35.1	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-07	
Location:	Tottenham			Date:	10/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:		Sunny	Depth to groundwater (mbtc):From groundlevel		1.53
Air temperature (°C):		15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	4.23	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0		13.6	40.2	2647	4.47		115.8	1.53
3		13.5	37	2470	4.35		116	
6		13.5	37	2420	4.34		115	
9		13.9	37	2400	4.32		115	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: WS12-08	
Location:	Tottenham		Date:	11/05/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	sunny	Depth to groundwater (mbtc):	From groundlevel	
Air temperature (°C):	15-18	Depth to product:	(m bgl) (m toc)	
Diameter (mm)?	50	Depth to base:	(m bgl) (m toc)	Type of product (e.g. tar, diesel):

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Unable to sample, No access

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH11	
Location:	Tottenham		Date:	08/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	3.20	
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)	5.82-5.61	
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.62	Type of product (e.g. tar, diesel): DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

No YSI readings recorded Drops of DNAPL, Strong hydrocarbons odour, Oil sheen, Clear colour

Laboratory:

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All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	sunny	Depth to groundwater (mbtc):From groundlevel	3.15		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.4	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	6
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	14.7	5.1	4338	6.78	7.9	-216	3.15
3	0.5	14.6	3.8	4334	6.78	7.6	-221.5	3.17
6	1	15.0	3.2	4321	6.79	7.3	-234	3.30
9	1.5	15.1	2.5	4332	6.79	7.1	-239.1	3.34
12	2	15.1	2.2	4328	6.79	7.2	-243.1	3.36
15	2.5	15.1	2.0	4324	6.79	7.2	-244.5	3.38

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Strong Hydrocarbons odour, clear colour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-01	
Location:	Tottenham			Date:	08/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)		yes			
Weather conditions:		Sunny	Depth to groundwater (mbtc):From groundlevel		2.09
Air temperature (°C):		15-21	Depth to product: (m bgl) (m toc)		5.450
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.20	Type of product (e.g. tar, diesel):	DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Hex Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	No YSI used due to contamination

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Sampled/no YSI used. Strong hydrocarbon odour, DNAPL drops and oily sheen in sample.

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-02D	
Location:	Tottenham			Date:	08/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	0.8		
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.50	Type of product (e.g. tar, diesel):	DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Hex Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	No YSI used due to contamination

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

IP did not detect DNAPL. End 10 cm of probe (3.40 to 3.50 m) came up black. Strong hydrocarbon odour, black sediments, dark brown colour in sample.

Laboratory:

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All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-04	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	3.32		
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	5.94	Type of product (e.g. tar, diesel):	-

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	14.9	15.6	2462	7.24	-6.9	-137.2	3.32
3	0.5	14.9	16.2	2453	7.04	-7.3	-167.2	3.32
6	1	14.8	7.1	2450	7.06	-8.2	-165.5	3.32
9	1.5	14.7	4.6	2438	7.07	-9.1	-167.7	3.32
12	2	14.8	4.7	2428	7.08	-9.6	-164.2	3.32
15	2.5	14.8	4.7	2430	7.08	-9.7	-163.9	3.32

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Clear colour, Hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-05	
Location:	Tottenham			Date:	08/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	Yes				
Weather conditions:	sunny	Depth to groundwater (mbtc):From groundlevel	3.06		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.66	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	6
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	14	5.9	2138	6.7	12.7	-146	3.07
3	0.5	14	5.3	2136	6.69	12.8	-146,1	
6	1	14	5.2	2137	6.69	12.8	-146	
9	1.5	14	5.2	2137	6.69	12.9	-145	
12	2	14	5.2	2136	6.69	12.9	-145	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Light Brown colour, Hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-06	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	Yes				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	2.83		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.07	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	5.5
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	14	8.2	1945	6.97	-2.9	-94.5	2.83
3	0.5	14	5.9	1938	6.97	-2.7	-97.5	2.83
6	1	14	2.8	1912	6.96	-2.6	-104.6	2.84
9	1.5	14	2.7	1901	6.96	-2.6	-106.0	2.84
12	2	14	2.2	1898	6.96	-2.6	-108.3	2.84
15	2.5	14	2.6	1893	6.96	-2.6	-109.8	2.84

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ±0.1, Conductivity ± 3%, Redox ±10mv, ±10% for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Clear colour, hydrocarbons odour, low turbidity, no oil sheen

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH12-03	
Location:	Tottenham		Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	No			
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	0.6	
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	-	
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	0.8	Type of product (e.g. tar, diesel):

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Not Sampled, No NAPL detected

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH23-04	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	2.28		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	4.18	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	13.3	12.3	4263	6.10	46.3	-156.2	2.28
3	0.5	13.3	5	4247	6.11	46	-165.9	2.28
6	1	13.3	1.3	4183	6.13	45	-180	2.28
9	1.5	13.3	1.3	4183	6.12	45	-181	2.28
12	2	13.3	1.2	4184	6.12	45.1	-180.8	2.28

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Black colour, Strong hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH23-05	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	No				
Weather conditions:	Overcast	Depth to groundwater (mbtc): From groundlevel		Dry	
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	1.34	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-01	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)		yes			
Weather conditions:		Overcast	Depth to groundwater (mbtc):From groundlevel		0.8
Air temperature (°C):		15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.05	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL drops/ Strong DNAPL odour, yellowish colour, No readings

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-02D	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	0.76		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	3.05		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.06	Type of product (e.g. tar, diesel):	DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l , consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL drops pumped/ No YSI used/ Strong DNAPL odour, 1cm DNAPL at the bottom
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Laborator

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All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-03	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	1.66		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	2.16	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	17.2	6.8	3336	7.09	-10.3	-154	1.66
3	0.5	13	5.1	3330	7.08	-10.3	-161	1.85
6	1	13	5.2	3327	7.08	-11.1	-164.2	1.90

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Recording stopped, level drop down, Strong Hydrocarbons odour,

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-07	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	1.70		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	4.23	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	14.7	7.8	3380	4.71	126.7	21.4	1.70
3	0.5	14.7	5.5	3370	4.71	126	13.0	1.71
6	1	15	3.2	3311	4.64	130	-9.0	1.71
9	1.5	15	3.3	3302	4.63	130.9	-14.9	1.72
12	2	15	3.4	3303	4.64	130.2	-18.6	1.73
15	2.5	15	3.6	3305	4.66	129.2	-23.1	1.73

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Strong Hydrocarbons odour, Yellow colour, high turbidity, no oil sheen

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-08	
Location:	Tottenham			Date:	08/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	sunny	Depth to groundwater (mbtc):From groundlevel	1.8		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	2.10	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	No records Not enough water Grab sample

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Light brown hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH11	
Location:	Tottenham		Date:	04/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel		
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)	-	
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	Type of product (e.g. tar, diesel):	-

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL sample only

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12	
Location:	Tottenham			Date:	06/07/2023
Reference:	8021	Engineers:	Jaime Moreno		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	sunny	Depth to groundwater (mbtc):From groundlevel	3.10		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.4	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	6
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	15.6	11.7	4470	6.66	3.4	-250.7	
3	0.5	15.7	7.8	4453	6.67	3.2	-260.6	
6	1	16.2	6.4	4442	6.67	3.2	-267.3	
9	1.5	16.3	6.0	4459	6.67	3.3	-268.7	
12	2	16.2	6.0	4475	6.67	3.3	-270.2	
15	2.5	16.1	5.7	4482	6.67	3.3	-270.7	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Strong Hydrocarbons odour, clear colour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot		Borehole number: BH12-01	
Location:	Tottenham		Date:	04/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke	
Job No.:	5221420	Time on site:	08:00	Time off site: 18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE			
Screening section (m):				
Pre-existing borehole? (Age)	yes			
Weather conditions:	Sunny	Depth to groundwater (mbtc): From groundlevel	1.99	
Air temperature (°C):	15-21	Depth to product: (m bgl) (m toc)	4.92-5.70	
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	5.70	Type of product (e.g. tar, diesel): DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Hex Pump
Depth of the sample:	
Water disposal:	Drums
Monitoring instrument:	No YSI used due to contamination

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL sample only

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-02D	
Location:	Tottenham			Date:	06/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	0.83		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.76	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	3
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	19.6	11.7	1358	6.88	-9.2	-295	0.83
3	0.5	19.8	3.1	1318	6.92	-11.1	-311	0.84
6	1	19.8	2.5	1311	692	-11.1	-315.4	0.84
9	1.5	20.1	1.8	1329	690	-10.0	-329.1	0.84
12	2	20.1	1.4	1333	690	-10.1	-331.3	-.84

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l , consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Hydrocarbons odour, clear

Laborator

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-04		
Location:	Tottenham			Date:	06/07/2023	
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke			
Job No.:	5221420	Time on site:	08:00		Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	3.24		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	5.94	Type of product (e.g. tar, diesel):	-

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	5
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	16.3	87.1	2761	6.89	-9.8	-98.9	
3	0.5	16.3	65	2723	6.91	-10	-117	
6	1	16.3	60.6	2718	6.92	-10	-119	
9	1.5	16.4	65.7	2716	6.92	-11.1	-121	
12	2	16.3	63.4	2716	6.92	--11.1	-123	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ±0.1, Conductivity ± 3%, Redox ±10mv, ±10% for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Clear colour, Hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-05		
Location:	Tottenham			Date:	06/07/2023	
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke			
Job No.:	5221420	Time on site:	08:00		Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	Yes				
Weather conditions:	sunny	Depth to groundwater (mbtc):From groundlevel	2.99		
Air temperature (°C):	211	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.66	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	6
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	16	13.4	2394	6.57	8.8	-134.7	
3	0.5	16.9	10.1	2375	6.55	9.8	-138.4	
6	1	16.4	9.9	2384	6.55	10.2	-141.1	
9	1.5	16.4	8.6	2387	6.54	10.5	-142.1	
12	2	16.2	7.7	2381	6.54	10.5	-142.4	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Light Brown colour, Hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-06	
Location:	Tottenham			Date:	04/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	Yes				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	2.82		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)	NA		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	6.06	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	5.5
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	14.7	16.1	2126	6.45	8.7	-15.7	2.82
3	0.1	14.5	2.8	2104	6.73	6.73	-93.1	2.82
6	0.5	14.6	2.2	2102	6.78	-3.2	-110.5	2.82
9	1	14.6	2.3	2105	6.8	-4.4	-117.6	2.82
12	1.5	14.6	2.2	2105	6.81	-4.8	-121.3	2.82
15	2	14.6	2.2	2105	6.81	-5.0	-123.1	2.82

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Clear, Hidrocarbons odour, low turbidity

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH12-03	
Location:	Tottenham			Date:	06/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	No				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	0.7		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	0.8	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Not Sampled not enough water No NAPL detected

Laboratory:

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All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH23-04	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)					
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	2.89		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	4.18	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	15.8	22.9	4572	6.02	40.2	-95.8	
3	0.5	15	7	4578	6.01	41	-130	
6	1	15.0	6.7	4577	6.01	41	-131	
9	1.5	15.0	6.5	4579	6.0	41.1	-131	
12	2	15.0	6.1	4588	6.0	41.5	-133.9	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Black colour, Strong hydrocarbons odour

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: BH23-05	
Location:	Tottenham			Date:	06/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)		No			
Weather conditions:		Overcast	Depth to groundwater (mbtc): From groundlevel		Dry
Air temperature (°C):		15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	1.34	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-01		
Location:	Tottenham			Date:	04/07/2023	
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke			
Job No.:	5221420	Time on site:	08:00		Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)		yes			
Weather conditions:		sunny	Depth to groundwater (mbtc):From groundlevel		0.83
Air temperature (°C):		21	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.05	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL drops/ Strong DNAPL odour, yellowish colour, No Parameters readings

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-02D	
Location:	Tottenham			Date:	07/06/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	0.77		
Air temperature (°C):	15-18	Depth to product: (m bgl) (m toc)	3.05		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	3.04	Type of product (e.g. tar, diesel):	DNAPL

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

DNAPL drops pumped/ No YSI used/ Strong DNAPL odour, 1cm DNAPL at the bottom

Laborator

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-03	
Location:	Tottenham			Date:	06/07/2023
Reference:	8021	Engineers:	Jaime Moreno		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Sunny	Depth to groundwater (mbtc):From groundlevel	1.74		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)	-		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	2.16	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	2
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Recording stopped, level drop down, Strong Hydrocarbons odour,

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-07	
Location:	Tottenham			Date:	06/07/2023
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke		
Job No.:	5221420	Time on site:	08:00	Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):	HDPE				
Screening section (m):					
Pre-existing borehole? (Age)	yes				
Weather conditions:	Overcast	Depth to groundwater (mbtc):From groundlevel	1.60		
Air temperature (°C):	21	Depth to product: (m bgl) (m toc)			
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)	4.23	Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	Peristaltic Pump
Depth of the sample:	4
Water disposal:	Drums
Monitoring instrument:	YSI

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth
0	0	16	93.1	1901	4.82	113	80.1	
3	0.5	16.3	116	1711	4.63	120.6	97.0	
6	1	16.2	11.1	1322	4.60	122	102.9	
9	1.5	16.3	6.2	1021	4.55	124.7	100.4	
12	2	16.4	4.2	990	4.55	124.9	99.9	
15	2.5	16.4	4.1	970	4.55	125.2	99.5	

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

Strong Hydrocarbons odour, Yellow colour, high turbidity, no oil sheen

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

PROJECT DETAILS

SHEET 1

Project:	NGET Arriva Bus Depot			Borehole number: WS12-08		
Location:	Tottenham			Date:	06/07/2023	
Reference:	8021	Engineers:	Jaime Moreno, Zita Zsofia Czinke			
Job No.:	5221420	Time on site:	08:00		Time off site:	18:00

BOREHOLE DETAILS

Well material (PVC/HDPE):		HDPE			
Screening section (m):					
Pre-existing borehole? (Age)		yes			
Weather conditions:		sunny	Depth to groundwater (mbtc):From groundlevel		
Air temperature (°C):		15-18	Depth to product: (m bgl) (m toc)		
Diameter (mm)?	50	Depth to base: (m bgl) (m toc)		Type of product (e.g. tar, diesel):	

Sampling method

Purge method (bladder, peristaltic, bailer):	
Depth of the sample:	
Water disposal:	
Monitoring instrument:	

PARAMETER DETAILS

Time / Duration (min)	Purge Volume (litres)	Temp. (°C)	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH	Redox Potential (pH/mV)	Redox Potential (ORP/mV)	GW depth

Obs: At least 5 readings every 3-5 minutes, until the all the parameters are stable for at least 3 consecutive readings (Ph ± 0.1 , Conductivity $\pm 3\%$, Redox $\pm 10\text{mv}$, $\pm 10\%$ for values greater than 0.5mg/l – if three Dissolved Oxygen values are less than 0.5mg/l, consider the values as stabilized) – Based on EPA540/S-95/504 Low flow groundwater sampling procedures.

Observations (colour, odour, sediments)

No access

Laboratory:

All samples should be taken within the screening section of the wells, unless instructed otherwise, therefore it is recommended to take the borehole logs from the wells that will be sampled.

Appendix F. Waste Consignment Notes

SECTION C - PERSON COLLECTING WASTE**DUTY OF CARE CONTROLLED WASTE**

TRANSFER NOTE/MATERIAL SUPPLY/SALES INVOICE

Registered Waste Carrier Reg. No: CBDU111031

Waste Management License No: EAWML 100204

Issued by LWRA VAT Registration No: 827 8308 06

SIC: 43999

J. O'DOHERTY HAULAGE LTDPEGAMOID SITE, NOBEL ROAD, EDMONTON
LONDON N18 3BH

TEL: 020 8807 7722 FAX: 020 8807 7733

Email: sales@jodgroup.co.uk

www.jodgroup.co.uk

**SECTION A - DESCRIPTION OF WASTE**

17-05-04

Soil and Stones

WEIGHT**GROSS**

11,320

TARE

9,800

NET

1,520

TICKET No

1090659

VEHICLE REG No.

KX17 MUC

DATE

04/08/2023

HAULIER

J O'Doherty

SECTION B - CUSTOMER**NAME** ACORN WASTE MANAGEMENT LIMITED**ADDRESS** CC GROUND INVESTIGATIONS LTD
NGET SITE TOTTENHAM
LEESIDE ROAD
N17 0QJ**ACC No.** ACORNWM**ORDER No.** 00127/867/0002**HIRE / MATERIAL SUPPLIED****QTY.**

1

DESCRIPTION8 Yard Enclosed
PICKUP**SITE ARRIVAL TIME**

11:09

SITE DEPARTURE TIME

11:09

SECTION D - DISPOSAL POINT**ADDRESS**Pegamoid
Nobel Road
Edmonton
London
N18 3BH**RECEIVED BY****OTHER INFORMATON**NO ASBESTOS - NO PLASTERBOARD - NO PAINT - NO TYRES - NO OIL
NO BATTERIES - NO CHEMICALS - NO ELECTRICAL EQUIPMENT
UNLESS BY PRIOR ARRANGEMENT

CPA

DRIVER**PRINT NAME** Michal Chmiel**SIGNATURE**I confirm that I have fulfilled my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales) Regulations 2011We accept no liability for any damage caused if customer asks for the container to be taken off
the public highway. The customer is responsible for any necessary lights required during the
hours of darkness.Customers must satisfy themselves before using any material that it is suitable for the purpose
as the company will not be responsible for any loss incurred by the use of unsuitable material.

AN UNSIGNED TICKET IS NOT A VALID REASON FOR NON PAYMENT OF INVOICE

Signed on behalf of waste producer/hirer

Name Jaime**Signature**