Appendix C

Site reconnaissance photographs



Project title	Haverstock Hill			Job number			
				268265			
Visit made by	тм	Place visited	5-17 Haverstock Hill	File reference			
Visit made by	TIVI	Flace visited	3-17 Haverstock Hill				
Copy to		Person visited		Date of visit			
Сору го		i erson visiteu		07/08/20			
Purpose of visit	Geo-Environmental Site V	Geo-Environmental Site Walkover					

The site is located in an area of mixed retail, residential and office use in Camden. The site is bordered by Chalk Farm underground station to the east, Haverstock Hill to the north, Adelaide Road to the south and Eton Place to the west. The site is comprised of a main six storey building and includes six retail units on Adelaide Road and an external access yard and lane in the west which provides vehicle access from Haverstock Hill or Adelaide Road. The main building includes a lower parking level which is at a slightly reduced level compared to ground level. Photos and the location they were taken are shown on the attached photo plan.

The site was previously occupied by squatters and all external access doors and windows at ground level have been sealed apart from a single entrance from the yard. This leads to the reception/security office. The ground floor level includes a number of store and office rooms and a central garage area accessed via a ramp from shutters at ground level.

The stores and office rooms were typically empty apart from waste left from previous occupation by squatters. Little plant was observed on the ground level apart from external air conditioning units on the western wall of the building, an electric air compressor and sprinkler pipes in the garage area and an electric hot water tank in a toilet area in the east of the site.

An electric plant room is present in the north of the site, but access is via an external door which had been sealed. A room labelled 'chemical store' in the toilet area in the east if the site was also locked and not accessible. A sprinkler valve room is present on the north western boundary but had a sign on the door warning of asbestos materials inside and was locked and not accessible. Access was also not possible to the retail units on Adelaide Road. Four units were boarded up while two had metal security shutters which were padlocked and not accessible. Access to an external corridor to the side of the units was possible but site security advised they didn't have a key to the door to the rear access corridor. Inaccessible areas are shown in yellow on the attached access plan.

Three manhole covers within the garage area appeared to be linked to drainage and may have provided access to an interceptor tank. Three manhole covers in the external yard may be linked to previous refuelling activities onsite although no infrastructure associated with refuelling such as pumps or refill points were observed. A possible vent pipe was located on the outside wall of the sprinkler valve room. The external yard is also the location of a car lift, which is not currently accessible due to safety concerns about the building structure. A large crack was observed in an external wall. The car lift inside was still in place and located above ground.

Three boreholes with standpipe installations from a previous ground investigation were located. BH06 is present beneath a bolted flush cover in the lower garage area and the standpipe inside was sealed with a gripper/screw cap. BH01 and BH02 are located in the external yard beneath plastic flip top covers and the standpipe inside was covered with duct tape.

Notes	Photos
Possible tanks Three manhole covers are present in the external yard in the west of the site next to a car lift.	
Electric plant room. An electric plant room is present on the north western side of the building. Due to previous squatters who occupied the building all external doors apart from one have been sealed. Access to the plant room was not possible during the visit.	
Retail units Four of the six units are boarded up. Two have metal security shutters which are padlocked. The units are linked by a rear access corridor. The door to this corridor was locked and access to the retail units was not possible during the visit.	E FOOD

\(\text{\GLOBALLONDON}\PTG\(\text{\GL}\)\OBS\\\5000\\\5259\\\32\\\1462\\ HAVERSTOCK\\ HILL\\ CONTAM\\2020\\\0608\\ PRELIMINARY\\ RISK\\ ASSESSMENT\\\APPENDIX\\ B\\-SITE\\ PHOTOGRAPHS\\SITE\\ VISIT\\ RECORD\\ DRAFT.\DOCX\\ \end{align*{\Graphsilon}}

 $Page\ 2\ of\ 5$

related to an interceptor tank.

Possible chemical store Danger A store room with a chemicals sign Chemicals on the door is present in the east of the building. The door was locked and access was not possible during the site visit. Air compressor An air compressor is present on the lower car park level. Manhole covers – car park lower level Plans from a previous ground investigation suggest these are

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Hot water tank

A hot water tank is present in a store cupboard in the toilets in the east of the building.



Page~4~of~5

Access plan

5-17 Haverstock Hill



Appendix D

Regulatory information

From: Priddle, Nick
To: Oliver Gernon

Subject: [External] RE: Contaminated Land Enquiry (Ref: 21607217) Haverstock Hill

Date: 25 August 2020 16:30:50

Attachments:

PDF Report - 4 Adelaide Rd, NW3 2BN.pdf Search Results - 4 Adelaide Rd, NW3 2BN.xlsx

Hi Oliver

-

Contaminated Land Enquiry Land @ 4 Adelaide Road Chalk Farm, NW3 2BN

As part of your enquiry the following searches were undertaken using GIS software (Mapinfo Pro) and other databases to identify the potential for land contamination due to past and present land use activities within a 100m radius of the subject site. The search radius was expanded for landfill sites and private water supplies as explained below:

- Businesses registered with Kelly's Trade Directory.
- Historical land use activities.
- Pollution Incidents none
- Elevated levels of heavy metals in soils none.
- Landfill sites within 250m radius none.
- Part A2/B Industrial Process none
- Private waters supplies within 2km none
- Part 2A determinations none

The results (see pdf and spreadsheet attached) identified the following former industrial land use activities of plausible concern within 100m:

 Coal and coke merchants, motor garage repairs, plumbing and sanitary engineers, numerous plots of railway land, unspecified works, garages and coal depot.

According to our contaminated land risk characterisation, land on which the above processes/activities were carried out is considered to represent a moderate risk of contamination (risk score 12). It is considered likely that such land could exhibit significantly elevated contaminate levels with the potential to cause harm, although the Council has no present evidence that confirms that there are contamination issues affecting the site other than potentially contaminative landuse activities in proximity. The subject site has not been identified for inspection or is it being investigated under Part 2A of the Contaminated Land Regime as it is considered suitable for its current use. Neither has the subject site been determined as Contaminated Land under Part 2A of EPA 1990. If the site was to be redeveloped in the future involving ground disturbance, excavation works or soft landscaping (certain soils in Camden contain elevated levels of the heavy metal lead) then a planning condition would be imposed requiring a detailed site investigation (desk top study, walkover survey and intrusive investigation) and if

necessary remediation works. The investigation process follows a risk based approach in accordance with Part 2A, objectively to ensure that potentially contaminated land is suitable for its proposed use. Consequently, the planning process is the main way in which contaminated land and potentially contaminated land is investigated and remediated in Camden.

Disclaimer:

The above response is provided from such information that is readily available to the Council and in its possession. It is believed to be correct but the Council expressly gives no warranty in this respect nor will the Council accept any liability whatsoever for any error, omission or loss occasioned thereby to any person (whether or not the person requested the information) and in particular the Council gives no warranty that it has researched all its relevant archives in order to respond to the request for information.

If you require clarification on aspect of the above please feel free to contact me.

Best regards

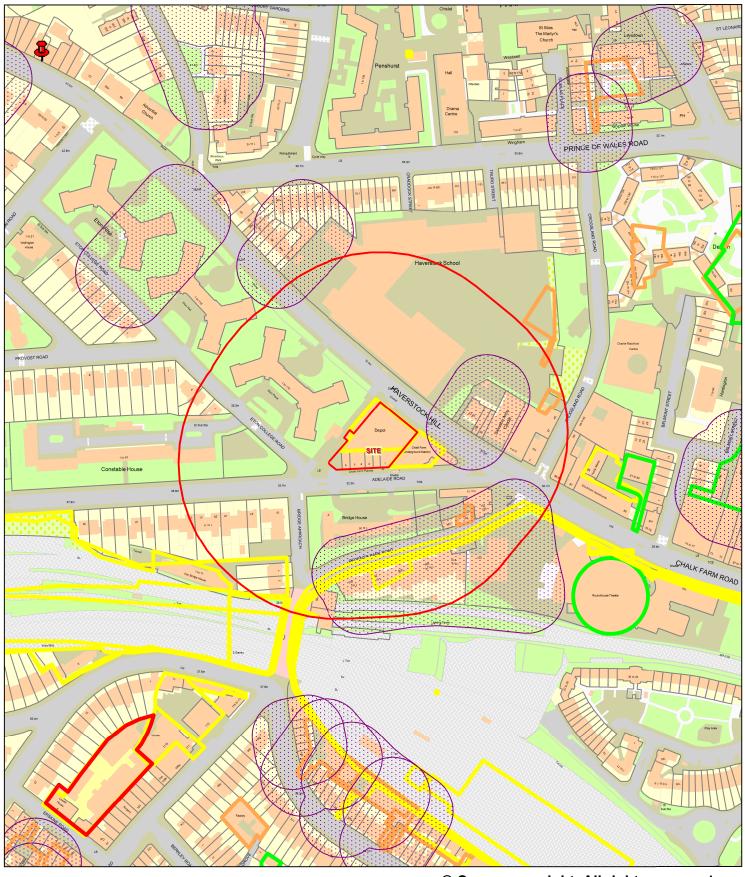
Nick Priddle Technical Officer Contaminated Land & Noise

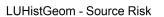
Telephone: 0207 974 4054



Contaminated Land Enquiry: 4 Adelaide Rd, Chalk Farm, NW3 2BN







15 to 27 (119)

11 to 14 (641)

5 to 10 (785)

0 to 4 (374)



Pollution Incident



Heavy Metals B/G Surv



Kellys Data Buffer25m



HistoricLandfillSite

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Table 1: Trade Directory Search

UID	Desc	SiteType	Date	OldRoadName	OldRoadNumber
864	1923 to 1961: Coal & Coke Merchants	Coal & Coke Merchants	1923 to 1961	Chalk Farm Station	
560	1951: Motor Garage Repairs	Motor Garage Repairs	1951	Haverstock Hill	50
1294	1970: Plumbing / Sanitary Engineers	Plumbing / Sanitary Engineers	1970	Haverstock Hill	20

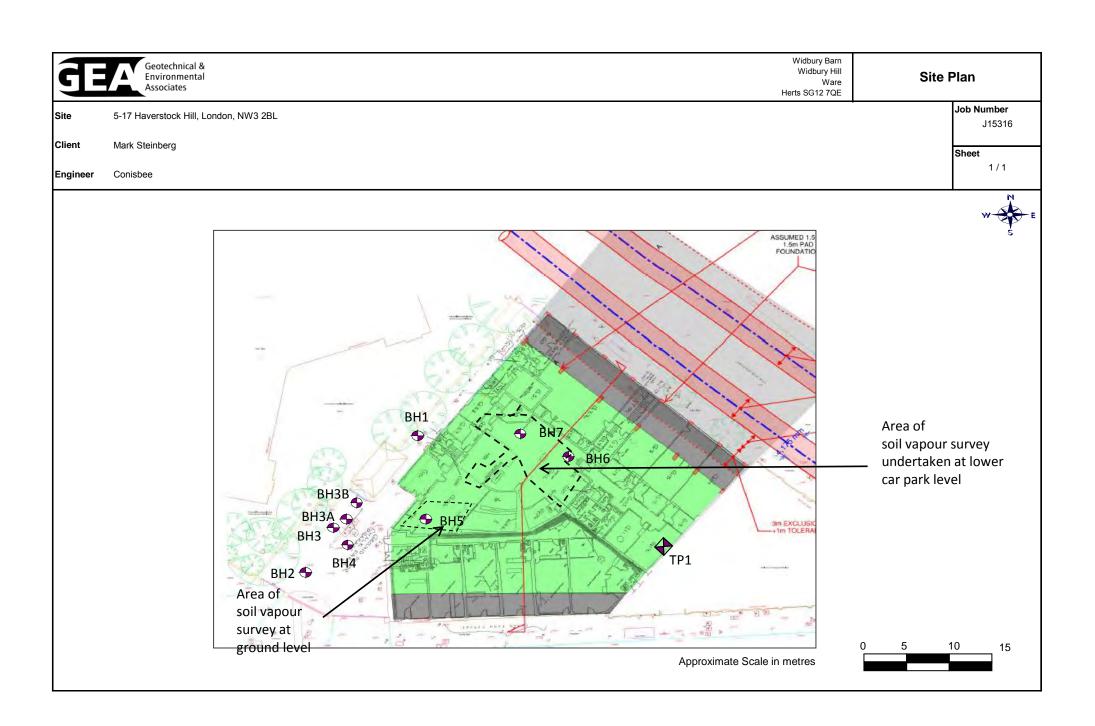
Table 2: OS Land Use Search

UID	UID_Landmark D)esc	dictedSeverity	PredictedPresence_EI	SourceRisk	Х	Υ
1854	200279918 1	952-1955: Railway land	3	3	9	528356.1	184026.3
445	200282477 1	934-1939: Unknown Industria	3	4	12	528207.3	184498
1463	200281531 1	965-1971: Railway land	3	3	9	528356.1	184024.7
183	200272848 1	952-1971: Garages	3	3	9	528100.7	184432.3
857	200279694 1	952-1955: Works	4	3	12	528213.9	184448
1789	200276272 1	871-1877: Railway Lands	3	3	9	528667.4	184406.7
259	200281438 1	965-1971: Railway land	3	3	9	528020.1	184292.6
468		952-1955: Coal depot	3	3	9	528108	184333.9
1827	200277561 1	894-1896: Railway Lands	3	3	9	528667.4	184406.4
1856	200292642 1	909-1922: Railway Lands	3	3	9	528666.4	184410.4
1851	200282672 1	934-1939: Railway Lands	3	3	9	528666.4	184410.4
625	200281362 1	955-1971: Chalk Farm Station	3	3	9	528125.5	184416.1
1115	200279693 1	952-1975: Works	4	3	12	528157.4	184371.6

Appendix E

GEA 2016 Ground investigation

E1 Borehole location plan



E2 Borehole logs

1	Geotechnical & Environmental Associates					Widbury Barn Widbury Hil Ware,Herts SG12 7QE	5 - 17 Haverstock Hill, London NW3 2BL	Borehole Number BH 1
Boring Meth		_	Diamete 0mm cas	r ed to 3.00m	Ground	Level (mOD	Client Mark Steinberg	Job Number J15316
		Locatio	n		Dates 02	2/12/2015	Engineer Conisbee	Sheet 1/3
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend start
0.60 1.20-1.65 1.20-1.65	D CPT N=7 B	1.20	DRY	1,1/2,1,2,2		(0.05) 0.05 0.05 0.05 0.05 0.20 0.20 0.20 0.20	Tarmac Reinforced concrete MADE GROUND (brown clay with rare orange-brown partings of sand and silt, half bricks, charcoal, concrete and roots. Rare medium to coarse subangular flint gravel noted from a depth of 2.00 m)	
1.80 2.00-2.45 2.00-2.45	D CPT N=15 B	2.00	DRY	2,3/5,5,3,2				
2.70 3.00-3.45	D U					2.60	Firm becoming stiff fissured high strength brown mottled grey silty CLAY with abundant selenite crystals, rare occasional partings of orange-brown fine sand and silt. Dead rootlets noted to a depth of 3.00 m. Claystone encountered at a depth of 3.50 m. Rare carbonaceous material noted from a depth of 5.00 m	× × × × × × × × × × × × × × × × × × ×
3.50 3.80	D D							××
4.00-4.45 4.00-4.45	SPT N=15 D	3.00	DRY	2,3/3,3,4,5				x x x x x x x x x x x x x x x x x x x
4.70	D					<u>-</u> 		××
5.00-5.45	U					<u>-</u>		× ×
5.50	D					=_ = = = = =		×x
6.00-6.45 6.00	SPT N=18 D	3.00	DRY	3,3/4,4,5,5		(7.00)		x
7.50-7.95	U							××
8.00	D							× × × × × × × × × × × × × × × × × × ×
9.00-9.45 9.00	SPT N=21 D	3.00	DRY	4,5/5,5,5,6		9.60	Stiff becoming very stiff fissured high strength becoming extremely high strength grow silty CLAV with rare grow	× × × × × × × × × × × × × × × × × × ×
9.90	D					<u> </u>	extremely high strength grey silty CLAY with rare grey burrows, specklings of mica and black specks. Claystones	×
Chiselling fro Standpipe in	stalled to a depth of	30 m (30 m 6.0 m	ninutes) a	nd 17.60 m to 17.80			Scale (approx)	Logged By
Groundwate	r measured at a dep	th of 208	m on 18/	12/2015 and 2.05 m	on 13/01/2	016	1:50 Figure	HD No.
							_	316.BH 1

वा	Geotechnical 8 Environmental Associates					Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Borel Numl	ber
Boring Meth Cable Percus			Diamete Omm cas	r ed to 3.00m	Ground	Level (mOD)	Client Mark Steinberg	Job Numl J153	
		Location	n		Dates 02	2/12/2015	Engineer Conisbee	Shee	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water Pu
							encountered at depths of 10.20 m, 17.60 m and 24.60 m	×	×
10.30 10.50-10.95	D					E		×	×
10.50-10.95	U							×	×
11.00	D							x x x x x x x x x x x x x x x x x x x	×
						E		×	×
								×	×
12.00-12.45	SPT N=23	3.00	DRY	5,5/5,5,6,7		<u> </u>		×	×
12.00	D	0.00	DICI	3,0/0,0,0,1		E		×	×
						<u> </u>		×	×
						<u> </u>		×	×
						<u> </u>		× = ,	×
						E		× = ,	×
13.50-13.95	U							× = ,	×
14.00	D					<u>-</u>		×	×
						<u>-</u>		×	×
								× = ,	×
						<u>-</u>		×	×
15.00-15.45 15.00	SPT N=26 D	3.00	DRY	6,6/6,6,7,7		<u>-</u>		×	×
						E		× =	×
						E		× =	_
						<u> </u>		×	
						E		×	
16.50-16.95	U							×	
17.00	D					<u> </u>		×	~
17.00	D					(15.10)		×	<u>×</u>
						(13.10)		× =	×
17.80	D							× =	×
18.00-18.45 18.00	SPT N=35 D	3.00	DRY	6,7/8,8,9,10				× × × × × × × × × × × × × × × × × × ×	×
								× ×	×
						E		× ×	×
						<u>-</u>		× ×	×
						<u>-</u>		<u>×</u>	×
19.50-19.95	U					(15.10)			×
						E E		×	×
Remarks		1		ı			Scale (approx	Logg k) By	jed
							1:50	HD)
							Figure		
							J1:	5316.BH 1	1

तुइ	Geotechnical & Environmental Associates	i I				Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL		Boreh Numb	
Boring Meth			Diamete 0mm cas	r ed to 3.00m	Ground	Level (mOD)	Client Mark Steinberg			er 16
		Locatio	n		Dates 02	2/12/2015	Engineer Conisbee		Sheet 3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
20.00 21.00-21.45 21.00	D SPT N=45 D	3.00	DRY	7,8/9,11,12,13					x x x x x x x x x x x x x x x x x x x	-
	-								x x x x x x x x x x x x x x x x x x x	-
22.50-22.95	U								× × ×	-
23.00	D					(15.10)			x x x x x x x x x x x x x x x x x x x	-
24.50-24.73 24.50	SPT 32/75 D	3.00	DRY	9,10/32		24.70	Complete at 24.70m		× — x	
Remarks					•			Scale (approx)	Logge By	ed:
								1:50	HD	
								Figure N J153	lo. 16.BH 1	

1	Geotechnical & Environmental Associates					Widbury Barn Widbury Hill Ware,Herts SG12 7QE		Borehole Number BH 2
Boring Meth		_	Diamete 0mm cas	r ed to 3.00m	Ground	Level (mOD)	Client Mark Steinberg	Job Number J15316
		Locatio	n		Dates 03	3/12/2015	Engineer Conisbee	Sheet 1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater
0.60 1.20-1.65 1.20-1.65 2.00-2.45 2.00-2.45 2.80 3.00-3.45 3.00 3.60 3.80 4.00-4.45 4.50 4.80 5.00-5.45 5.00 6.00-6.45	D1 CPT N=5 B2 CPT N=3 B3 D4 SPT N=8 D5 D6 D7 U8 D9 D10 SPT N=14 D11 U12 D13	1.20 2.00 3.00	DRY DRY	1,0/1,1,2,1 1,0/0,1,1,1 Seepage(1) at 2.50m, sealed at 3.00m. 1,1/1,2,2,3		(0.05) 0.05 (0.20) 0.25 (0.20) 0.25 (2.35)	Reinforced concrete MADE GROUND (brown mottled greyish brown silty sandy clay with fine to coarse subangular to rounded flint, brick, ash, coal and rootlets. Concrete encountered between 2.50 m and 2.60 m) Firm becoming stiff fissured high strength and very high strength brown mottled grey silty CLAY with rare partings of orange-brown fine sand and silt, selenite crystals. Rare carbonaceous material noted from a depth of 4.00 m. Claystone encountered at a depth of 3.80 m. Dead rootlets noted at a depth of 4.80 m	∇1
7.50-7.95 7.50 9.00-9.45 9.50 Remarks Hand-dug se Standpipe in	SPT N=16 D14 U15 D16 ervice pit to a depth of stalled to a depth of	6.00 m	DRY	3,3/3,4,4,5 2/2015 and 1.87 m o	n 13/01/20	9.80	Stiff becoming very stiff fissured high strength and very high Scale (approx)	
J. Guildwale		2 3. 1.30 1	5.1 10/1				1:50 Figure J153	HD No. 316.BH 2

<u>a</u>	Geotechnical & Environmental Associates					Widb War	ry Barn oury Hill re,Herts 12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Boreh Numb	er
Boring Meth Cable Percus			Diamete Omm cas	ed to 3.00m	Ground	Level	(mOD)	Client Mark Steinberg	Job Numb J153	
		Location	n		Dates 03	/12/20	15	Engineer Conisbee	Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	De (I (Thic	epth m) kness)	Description	Legend	Water
10.00	D17							strength silty CLAY with rare shell fragments. Rare partings of grey fine sand and silt. Pyrite nodule noted at a depth of 14.50 m		-
10.50-10.95 10.50	SPT N=23 D18	3.00	DRY	4,4/5,5,6,7						-
										- - -
12.00-12.45	U19									- - -
12.50	D20						(5.20)			- - -
										-
13.50-13.95 13.50	SPT N=26 D21	3.00	DRY	5,5/6,6,7,7						
										- -
14.50-14.95	U22						45.00			-
15.00	D23						15.00	Complete at 15.00m		
Remarks						<u> </u>		Scale (approx)	Logge By	 ≱d
								1:50 Figure	HD	_
									NO. 316.BH 2	

ता	Geotechnical & Environmental Associates				Widbury Barn Widbury Hill Ware,Herts SG12 7QE			Number BH	
Excavation Hand-dug se		Dimensi	ions	Ground	Level (mOD)	Client Mark Steinberg		Job Number	
		Location	1	Dates 24	1/11/2015	Engineer Conisbee		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m) Field Records (MOD)	Depth (m) (Thickness)	Description		Legend	Water		
					(0.08) 0.08 (0.08) 0.16	Tarmac Concrete. At a depth of 0.08 m, exposed 50 mm of metalside of pit. Borehole terminated and relocated 1 m Complete at 0.14m	on		
Remarks				•	,	Sca (appro	lle ox)	Logge By	d
						1:50 Figu	oure No	HD o.	
								6.BH 3	

GE	Geotechnical & Environmental Associates	i I			Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL		Number BH 3A	
Excavation Hand-dug se		Dimensio	ns	Ground	Level (mOD)	Client Mark Steinberg		nber 5316	
		Location		Dates 24	/11/2015	Engineer Conisbee	She	eet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater bn	
0.40	D1				(0.06)	Tarmac Concrete Concrete Concrete with metal mesh on underside of concrete at a depth of 0.34 m MADE GROUND (orange-brown sand with fragments of brick, metal and charcoal. At a depth of 0.56 m rusty metal encountered at base of pit) Complete at 0.56m			
Remarks						Scale (approx		ged	
						1:50 Figure			
							316.BH 3	3A	

GE	Geotechnical & Environmental Associates				Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Number BH3B	
Excavation Open-drive		Dimens	ions	Ground	Level (mOD)	Client Mark Steinberg	Job Number J15316	
		Locatio	n	Dates 24	1/11/2015	Engineer Conisbee	Sheet 1/1	_
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
2.00 2.10 2.30 2.60 2.90 3.00 3.20 3.50 3.80 4.00	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11		(PP) over 4.50 (PP) 3.25 (PP) 2.75 (PP) 3.00 (PP) 3.00 Seepage(1) at 3.43m. (PP) 3.00 (PP) 3.00		(0.07) 0.07 0.07 0.07 0.07 0.07 0.053) 0.60 0.30) 0.90 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.30) 0.90 0.10 0.10 0.10 0.10 0.10 0.10 0.10	Reinforced concrete (rebar at a depth of 0.35 m) MADE GROUND (brown sand with fragments of concrete and brick. Rootlets at a depth of 0.60 m) MADE GROUND (no recovery - concrete pushed down in core barrel) Stiff brown mottled grey silty fissured CLAY with occasional partings of orange-brown fine sand and silt and rare selenite crystals. Fine rootlet at 2.20 m - desiccated soil Firm brown mottled grey silty fissured CLAY with occasional partings of orange-brown fine sand and silt and rare selenite crystals. Stiff brown mottled grey silty fissured CLAY with occasional partings of orange-brown fine sand and silt and rare selenite crystals. Claystone encountered at a depth of 3.43 m to 3.50 m Complete at 4.00m	× × × × × × × × × × × × × × × × × × ×	Ζ1
Remarks	1					Scale (approx)	Logged By	
						1:50 Figure I J153	HD No. 116.BH3B	

GE	Geotechnical 8 Environmental Associates	i I			Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Numb BH	
Excavation Open-drive		Dimens	ions	Ground	Level (mOD)	Client Mark Steinberg	Job Numb	
		Locatio	n	Dates 24	1/11/2015	Engineer Conisbee	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60 1.50 1.60 1.80 2.10 2.40 2.60 2.70 3.00 3.30 3.60 3.90 4.00 4.50 5.00	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15		(PP) 1.50 (PP) 2.00 (PP) 2.50 (PP) 2.50 (PP) 2.50 (PP) 2.25 (PP) 2.50 (PP) 3.75 (PP) 3.00 (PP) 3.25 (PP) 3.75		(0.09) 0.09 0.09 0.01 0.21 0.33 0.67) 1.00 1.50 1.50 1.50 1.50 1.50 1.50 1.50	Reinforced concrete with rebar at a depth of 0.20 m (5 mm diameter) Concrete MADE GROUND (orange-brown silty sandy clay with medium rounded flint gravel and brick fragments) Soft brown mottled grey silty fissured CLAY. Claystones encountered between 1.20 m and 1.60 m Firm brown mottled grey silty fissured CLAY. Rootlets noted to a depth of 2.10 m and dead rootlets noted at a depth of 2.60 m. Claystone encountered at a depth of 4.00 m Stiff brown mottled grey silty fissured CLAY.		
Remarks	•	'		1	•	Scale (approx) Logg By	
						Figure J15	No. 316.BH 4	,

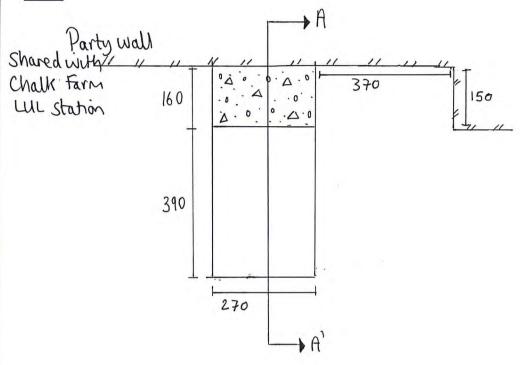
TE	Geotechnical & Environmental Associates				Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Number BH 5
Excavation Open-drive		Dimens	ions	Ground	Level (mOD)	Client Mark Steinberg	Job Number J15316
		Locatio	Location		5/11/2015	Engineer Conisbee	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate
0.60 0.80 1.00 1.30 1.60 1.80 1.90 2.20 2.50 2.60 2.80 3.00 3.60 3.90 4.00	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15		(PP) 1.50 (PP) 3.00 (PP) 3.50 (PP) 2.25 (PP) 2.50 (PP) 3.00 (PP) 3.50 (PP) 3.75		(0.04) 0.04 0.04 0.04 0.016 0.34) 0.50 0.80 0.80 0.80 0.80 0.80 0.80 0.80	MADE GROUND (brick with sand and gravel) MADE GROUND (brown silty sandy clay with rare medium well rounded flint, concrete fragments, fine rootlets and decayed wood. Brick fragments encountered at a depth of 0.80 m) Stiff brown mottled grey silty fissured CLAY with occasional partings of orange-brown fine sand and silt and selenite crystals. Root fibres noted to a depth of 2.10 m - possibly desiccated soil? Firm brown mottled grey silty fissured CLAY Stiff brownish grey silty fissured CLAY Stiff brownish grey silty fissured CLAY Complete at 4.00m	X
Remarks	1		<u> </u>		<u> </u>	Scale (approx	Logged By
						1:50 Figure J15	HD No. 316.BH 5

<u>ਹ</u> =	Geotechnical & Environmental Associates	i 			Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Number BH 6
Excavation I Open-drive sa		Dimens	ions	Ground	Level (mOD)	Client Mark Steinberg	Job Number J15316
		Locatio	n	Dates 25	5/11/2015	Engineer Conisbee	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth Field Records (m)		Level (mOD)	Depth (m) (Thickness)	Description	Legend
					(0.05)	Screed	*****
0.30	D1				0.05 (0.10)	Concrete overlying cobbly gravel with brick fragments	×
v 60	D2		(DD) 4 50		0.15 (0.30) 0.45	Soft dark grey mottled black silty sandy CLAY with decayed wood - organic odour	××
.60	DZ		(PP) 1.50 (PP) 1.50		0.45	Firm brown mottled grey silty fissured CLAY with abundant	××
.00 .00-1.45 .30	D3 SPT N=9 D4		(PP) 1.75 1,1/2,2,2,3 (PP) 2.50		(1.75)	selenite crystals	x x x x x x x x x x x x x x x x x x x
.60	D5		(PP) 2.50		E E		×x
.00-2.45 .00 .30	SPT N=22 D6 D7		(PP) 2.25 2,9/10,5,4,3 (PP) 2.50		2.20	Stiff brown mottled grey silty fissured CLAY with abundant	××
2.50	D8		(PP) 2.75		<u> </u>	selenite crystals	×
2.60	D9 D10		(PP) 3.00				× =
3.00-3.45	SPT N=16		(PP) 3.25 2,2/3,4,4,5				×
.20	D11		(PP) 3.50		-		×
.50	D12		(PP) 3.50		(2.80)		<u>×</u>
.90	D13						××
.00-4.45 .00	SPT N=18 D14		3,3/3,4,5,6		E		××
.50	D15		(PP) over 4.50				××
.50	סוט				E		× =×
5.00-5.45	SPT N=19		3,3/4,4,5,6		5.00	Stiff brownish grey silty fissured CLAY. Dead roolets at 4.00	×
.00	D16				Ē	m	×
5.50	D17				<u>-</u>		×
					E		x
.00-6.45	SPT N=19 D18		3,3/4,4,5,6				x x x x x x x x x x x x x x x x x x x
					=		××
					(3.30)		× = ×
7.45	0DT N 04		0.4/4.5.0.0		<u> </u>		××
.00-7.45	SPT N=21		3,4/4,5,6,6		E		×
					<u>-</u>		×
					E		×
.00-8.45	SPT N=24		3,5/5,5,7,7				×
					8.30		
					<u> </u>	Stiff grey silty fissured CLAY with rare orange-brown silt and fine sand	<u>×</u>
					E E		<u>×</u> ×
0.00-9.45	SPT N=25		4,5/5,6,6,8		(1.70)		× × × × × × × × × × × × × × × × × × ×
							××
					E		××
					10.00		××
Remarks Standpipe ins Standpipe re	stalled to a depth of corded to be dry on	6.00 m 18/12/201	5 and groundwater measur	ed at a depth		Scale (approx)	Logged By
	•		-	•		1:50	HD
						Figure I	No.

ता	Geotechnical & Environmental Associates				Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site 5 - 17 Haverstock Hill, London NW3 2BL	Number BH 7	
Excavation Open-drive		Dimens	ions	Client Mark Steinberg	Job Number J15316	-		
		Locatio	n	Dates 26	6/11/2015	Engineer Conisbee	Sheet 1/1	_
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater	_
0.40 0.50 0.80 1.10 1.40 1.50 1.70 2.00 2.30 2.60 2.90 3.00	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12		(PP) 0.75 (PP) 1.00 (PP) 2.50 (PP) 2.25 (PP) 2.75 (PP) 3.00 (PP) 3.50 (PP) 3.50 (PP) 3.50		(0.04) 0.04 (0.15) 0.19 (1.81) 1.11 1.11 1.11 1.11 1.11 1.11 1.11	Stiff brown mottled grey silty fissured CLAY with occasional partings of orange-brown fine sand and silt and selenite crystals. Decayed rootlets noted to a depth of 2.60 m Complete at 3.00m	X	
Remarks	1	1		1	1	Scale (approx)	Logged By	
						1:50	HD No.	
							NO. 316.BH 7	

Envir	echnical & onmental ciates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site 5-17 Haverstock Hill, London, NW3 2BL	Trial Pit Number 1
Excavation Method Manual	Dimensions 270 x 550 x 1200 (mm)	Ground Level (mOD)	Client Mark Steinberg	Job Number J15316
	Location Room G12	Dates 26/11/2015	Engineer Conisbee	Sheet 1/3





Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Perched water enocuntered at the base of the pit, standing at a depth of 0.98 m on completion	HD

Enviro	chnical & onmental	Widbury Barn Widbury Hill	Site	Trial Pit Number
Assoc	iates	Ware Herts SG12 7QE	5-17 Haverstock Hill, London, NW3 2BL	1
avation Method Manual	Dimensions 270 x 550 x 1200 (mm)	Ground Level (mOD)	Client Mark Steinberg	Job Number J15316
	Location Room G12	Dates 26/11/2015	Engineer Conisbee	Sheet 2/3
SECTION A - Party wall with chalk for Station 160	Smooth concrete: Δ		MADE GROUN (Whole bricks MADE GROUN (Greyish brown mottled orange-te sulty Sandy Clar with brickland Aconcrete)	5) 250 - D 750
marks:				Scale:
dimensions in millime	tres			1:10
	d stable during excavation			Logged b
unui più icilialile	a stubic during choavation			J

Groundwater: Perched water enocuntered at the base of the pit, standing at a depth of 0.98 m on completion



Widbury Barn Widbury Hill Ware Herts SG12 7QE

Trial Pit No 1

Site 5-17 Haverstock Hill, London, NW3 2BL

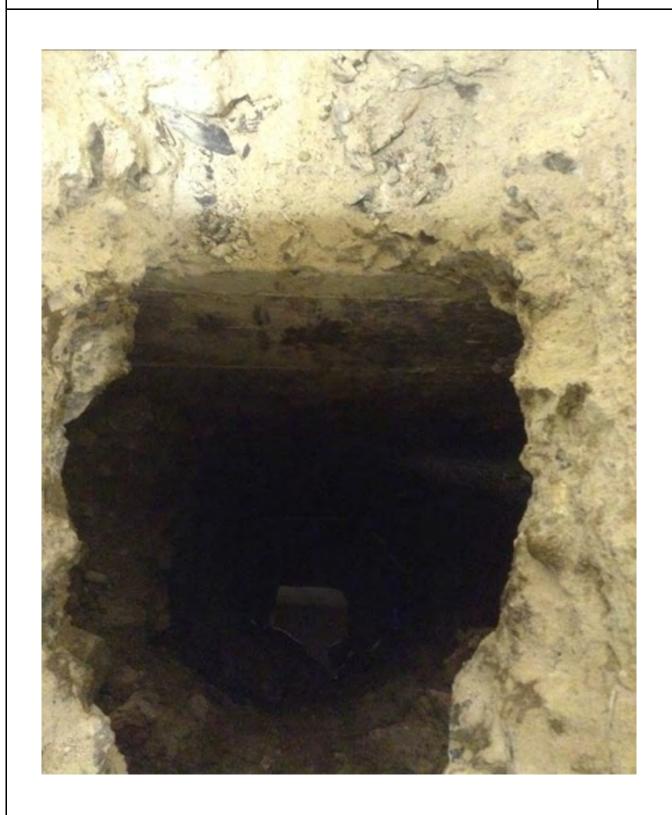
Job Number J15316

Client Mark Steinberg

Sheet

Engineer Conisbee

3/3



E3 Soil testing certificates



Project: J15316 - Haverstock Hill Client: GEA Chemtest Job No. 15-28103 15-28103 15-28103 15-28103 15-28103 15-28103 15-28103 15-28103 15-28103 Quotation No. Chemtest Sample ID. 225952 225953 225954 225955 225956 225957 225958 225960 225961 Client Sample ID внзв BH3A BH3B BH3B BH3B BH4 BH4 BH4 BH₅ SOIL SOII Sample Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL Top Depth (m) 0.4 8.0 2.1 3.0 4.0 0.6 1.6 3.6 0.6 24-Nov-2015 Date Sampled 24-Nov-2015 24-Nov-2015 24-Nov-2015 24-Nov-2015 24-Nov-2015 24-Nov-2015 24-Nov-2015 25-Nov-2015 Accred. SOP Units LOD Determinand 2192 ACM Type N/A No Asbestos No Asbestos No Asbestos Asbestos Identification U 2192 % 0.001 Detected Detected Detected Moisture Ν 2030 % 0.020 7 1 93 17 20 20 16 20 19 22 Stones Ν 2030 % 0.020 < 0.020 < 0.020 < 0.020 < 0.020 < 0.020 < 0.020 < 0.020 < 0.020 < 0.020 Ν N/A Brown Soil Colour 2040 Brown Brown Brown Brown Brown Brown Brown Brown Other Material Ν 2040 N/A Stones, NONE Stones Stones Stones Stones Stones Stones Stones Stones Soil Texture Ν 2040 N/A Sand Sand Clay Clay Clay Clay Clav Clay Clav М 2010 N/A 10.8 11.4 8.5 8.2 8.4 9.9 8.3 8.3 8.4 Sulphate (2:1 Water Soluble) as SO4 M 2120 q/l 0.010 0.13 0.26 1.5 1.6 0.95 0.43 0.052 0.88 0.21 Chloride (Extractable) M 2220 a/l 0.010 0.058 0.038 0.039 0.038 0.065 0.048 0.087 0.071 0.19 М 2300 0.50 Cvanide (Total) ma/ka < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 Sulphide (Easily Liberatable) M 2325 mg/kg 0.50 95 11 3.3 2.9 2.5 1.5 1.9 1.6 2.6 М 2430 100 1300 2700 15000 12000 5100 3200 530 4400 1500 ma/ka Sulphate (Total) Arsenic M 2450 mg/kg 1.0 31 26 15 14 18 70 14 16 16 Cadmium M 2450 ma/ka 0.10 0.10 0.10 < 0.10 < 0.10 0.13 < 0.10 < 0.10 0.11 < 0.10 М 2450 32 34 59 46 53 33 59 58 47 ma/ka 1.0 Chromium 2450 0.50 39 29 30 M mg/kg 34 42 38 31 29 31 Copper M 2450 ma/ka 0.10 0.18 0.35 < 0.10 < 0.10 < 0.10 0.20 < 0.10 < 0.10 < 0.10 Mercury Nickel М 2450 mg/kg 0.50 26 32 53 50 57 22 49 53 45 _ead M 2450 mg/kg 0.50 210 1100 230 34 20 60 17 16 390 M 2450 0.20 < 0.20 < 0.20 < 0.20 < 0.20 0.21 < 0.20 < 0.20 < 0.20 < 0.20 Selenium mg/kg М 2450 0.50 130 200 94 87 88 58 82 76 110 Zinc mg/kg Total Organic Carbon M 2625 % 0.20 0.47 0.71 0.27 0.31 0.33 1.2 0.27 0.31 0.31 TPH >C5-C6 Ν 2670 mg/kg < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 1.0 TPH >C6-C7 Ν 2670 mg/kg 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 TPH >C7-C8 Ν 2670 mg/kg 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 TPH >C8-C10 Ν 2670 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 mg/kg TPH >C10-C12 Ν 2670 mg/kg 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 TPH >C12-C16 Ν 2670 < 1.0 < 1.0 < 1.0 mg/kg 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 TPH >C16-C21 Ν 2670 1.0 9.6 4.4 < 1.0 < 1.0 < 1.0 7.7 < 1.0 < 1.0 < 1.0 mg/kg TPH >C21-C35 Ν 2670 28 23 < 1.0 25 < 1.0 < 1.0 mg/kg 1.0 < 1.0 < 1.0 < 1.0 Total TPH >C5-C35 2670 10 38 27 32 < 10 < 10 Ν mg/kg < 10 < 10 < 10 < 10 Naphthalene M 2700 mg/kg 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 2.3 < 0.10 < 0.10 < 0.10 M 2700 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 0.14 < 0.10 < 0.10 < 0.10 Acenaphthylene mg/kg Acenaphthene M 2700 mg/kg 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 0.20 < 0.10 < 0.10 < 0.10 Fluorene М 2700 mg/kg 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 0.17 < 0.10 < 0.10 < 0.10 М 0.63 Phenanthrene 2700 ma/ka 0.10 < 0.10 < 0.10 < 0.10 < 0.10 1.1 < 0.10 < 0.10 0.35 М 0.34 2700 0.10 0.21 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 0.12 Anthracene mg/kg Fluoranthene M 2700 mg/kg 0.10 1.8 0.67 < 0.10 < 0.10 < 0.10 1.6 < 0.10 < 0.10 0.50



Results - Soil

Project: J15316 - Haverstock Hil	<u>!</u>												
Client: GEA		Che	mtest J	ob No.:	15-28103	15-28103	15-28103	15-28103	15-28103	15-28103	15-28103	15-28103	15-28103
Quotation No.:		Chemte	est Sam	ple ID.:	225952	225953	225954	225955	225956	225957	225958	225960	225961
		Client Sample ID.:			BH3A	BH3B	BH3B	BH3B	BH3B	BH4	BH4	BH4	BH5
		Sample Type: Top Depth (m):				SOIL							
						0.8	2.1	3.0	4.0	0.6	1.6	3.6	0.6
			Date Sa	ampled:	24-Nov-2015	25-Nov-2015							
Determinand	Accred.	SOP	Units	LOD									
Pyrene	М	2700	mg/kg	0.10	2.0	0.88	< 0.10	< 0.10	< 0.10	1.9	< 0.10	< 0.10	0.56
Benzo[a]anthracene	М	2700	mg/kg	0.10	1.0	0.53	< 0.10	< 0.10	< 0.10	0.88	< 0.10	< 0.10	0.19
Chrysene	М	2700	mg/kg	0.10	1.2	0.67	< 0.10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	0.24
Benzo[b]fluoranthene	М	2700	mg/kg	0.10	1.8	0.98	< 0.10	< 0.10	< 0.10	1.6	< 0.10	< 0.10	0.30
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.84	0.42	< 0.10	< 0.10	< 0.10	0.68	< 0.10	< 0.10	0.11
Benzo[a]pyrene	M	2700	mg/kg	0.10	1.5	0.74	< 0.10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	0.26
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	0.83	0.44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.29	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	М	2700	mg/kg	0.10	0.78	0.65	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	М	2700	mg/kg	2.0	13	6.1	< 2.0	< 2.0	< 2.0	13	< 2.0	< 2.0	2.6
Total Phenols	М	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30



Fluoranthene

Client: GEA		Che	mtest J	ob No.:	15-28103	15-28103	15-28103	15-28103	15-28103	15-28103
Quotation No.:	(Chemte	st Sam	ple ID.:	225962	225964	225965	225969	225971	225972
		Cli	ent Sam	ple ID.:	BH5	BH5	BH6	BH6	BH7	BH7
			Sampl	е Туре:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top De	oth (m):	1.8	4.0	0.3	4.0	0.4	1.5
			Date Sa	ampled:	25-Nov-2015	25-Nov-2015	25-Nov-2015	25-Nov-2015	26-Nov-2015	26-Nov-2015
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A						
Asbestos Identification	U	2192	%	0.001						
Moisture	N	2030	%	0.020	17	21	22	20	21	19
Stones	N	2030	%	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay
рН	М	2010		N/A	8.5	8.2	8.9	8.3	8.5	8.0
Sulphate (2:1 Water Soluble) as SO4	М	2120	g/l	0.010	0.34	1.6	0.25	1.3	0.17	0.97
Chloride (Extractable)	M	2220	g/l	0.010	0.064	0.071	0.078	0.17	0.021	0.053
Cyanide (Total)	М		mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	М	2325	mg/kg	0.50	1.6	1.5	83	3.8	15	2.0
Sulphate (Total)	М	2430	mg/kg	100	1200	16000	8900	12000	990	8500
Arsenic	M	2450	mg/kg	1.0	11	21	18	17	16	16
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	44	55	33	53	57	61
Copper	M	2450	mg/kg	0.50	27	37	49	32	28	37
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	0.51	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	43	57	28	49	51	54
Lead	M	2450	mg/kg	0.50	39	18	160	19	17	17
Selenium	M	2450	mg/kg	0.20	< 0.20	0.36	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	М	2450	mg/kg	0.50	69	90	64	82	90	89
Total Organic Carbon	M	2625	%	0.20	0.20	0.64	1.4	0.22	0.25	0.21
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	. N/I	1) /nn	· ~ ~ //.~	. 0 10	/ 0 10		1 10	- 0.10	- 1110	

< 0.10

2700 mg/kg 0.10

М

0.18

< 0.10

< 0.10

< 0.10

< 0.10



Results - Soil

Project: J15316 - Haverstock Hill										
Client: GEA		Che	mtest J	ob No.:	15-28103	15-28103	15-28103	15-28103	15-28103	15-28103
Quotation No.:	(hemte	st Sam	ple ID.:	225962	225964	225965	225969	225971	225972
		Cli	ent Sam	ple ID.:	BH5	BH5	BH6	BH6	BH7	BH7
			Sampl	е Туре:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top De	oth (m):	1.8	4.0	0.3	4.0	0.4	1.5
			Date Sa	ampled:	25-Nov-2015	25-Nov-2015	25-Nov-2015	25-Nov-2015	26-Nov-2015	26-Nov-2015
Determinand	Accred.	SOP	Units	LOD						
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	М	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	М	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenois	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

E4 Soil vapour survey



Widbury Barn Widbury Hill Ware Herts SG12 7QE

Soil Vapour Survey

Site 5-17 Haverstock Hill, London, NW3 2BP

Job Number J15316

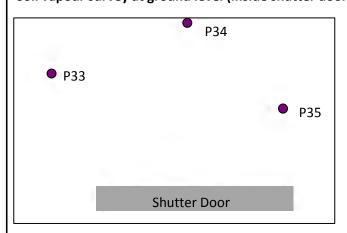
Client Mark Steinberg

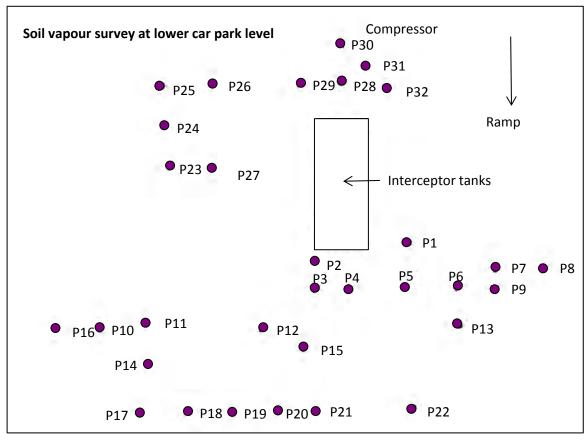
Sheet

Engineer Conisbee

1/1

Soil vapour survey at ground level (inside shutter door)





Approximate Scale in metres





Widbury Barn Widbury Hill Ware Herts SG12 7QE

Soil Vapour Survey

Site 5-17 Haverstock Hill, NW3 2BL

Job Number

Client Mark Steinberg

J15316

Engineer Conisbee

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	SOIL VAPOUR SURVEY								
Survey Position	1	2	3	4	5	6	7	8	9
VOCS (ppmv)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Survey Position	10	11	12	13	14	15	16	17	18
VOCS (ppmv)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Survey Position	19	20	21	22	23	24	25	26	27
VOCS (ppmv)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Survey Position	28	29	30	31	32	33	34	35	
VOCS (ppmv)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Appendix F

Risk assessment methodology

F1 Risk assessment methodology

The potential risks to human health and environmental receptors have been considered in accordance with the current UK approach to contaminated land assessment, taking into consideration the available information on the construction and operational phases of the development.

The method for risk evaluation takes into consideration the magnitude of the potential severity of the risk, as well as the probability of the risk occurring. The risk characterisations have been assessed based on the qualitative method of interpretation set out in CIRIA guidance C552⁴ and NHBC/EA/CIEH risk classification methodology⁵.

The method for risk evaluation involves the classification of the:

- magnitude of the potential consequence (severity) of the risk occurring (refer to Table F1-1); and
- magnitude of the probability (likelihood) of the risk occurring (refer to Table F1-2).

Table F1-1 Classification of consequence

Classification	Definition
Severe	Short-term (acute) risk to human health likely to result in 'significant harm' as defined by the Environmental Protection Act 1990, Part IIA.
	Short-term risk of pollution of a sensitive water resource.
	Catastrophic damage to buildings or property, structures or services.
	A short-term risk to an ecosystem, or organism forming part of such ecosystem.
Medium	Chronic damage to human health.
	Pollution of a sensitive water resource.
	A significant change to an ecosystem, or organism forming part of such ecosystem.
Mild	Pollution of a non-sensitive water resource, such as non-classified groundwater.
	Damage to buildings, structures and services.
Minor	Harm, which may result in a financial loss, or expenditure to resolve.
	Non-permanent effects to human health, which could easily be prevented by means such as personal protective clothing.
	Easily repairable effects of damage to buildings, structures and services.

 $^{4\} CIRIA, DETR\ (2001),\ CIRIA\ C552:\ Contaminated\ land\ risk\ assessment,\ a\ guide\ to\ good\ practice.$

⁵ EA, NHBC & CIEH (2008), Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D66.

Table F1-2 Classification of probability

Classification	Definition		
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long-term, or there is evidence at the receptor level of harm or pollution.		
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible over the short term and likely over the long term.		
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is not certain that such an event would take place.		
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event wou occur even in the very long term.		

Table F1-3 presents the risk assessment matrix and Table F1-4 defines the risk classifications.

Table F1-3 Comparison of consequence against probability

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Moderate/ low risk
	Likely	High risk	Moderate risk	Moderate/ low risk	Low risk
	Low likelihood	Moderate risk	Moderate/ low risk	Low risk	Very low risk
	Unlikely	Moderate/ low risk	Low risk	Very low risk	Very low risk

Table F1-4 Risk classifications

Risk classification	Description of risk
Very high	There is a high probability that severe harm could arise to a designated receptor from an identified contaminant linkage at the Site without appropriate remediation action.
	OR there is evidence that severe harm to a designated receptor is currently happening. The risk, if realised, is likely to result in substantial liability.
	The fisk, if realised, is likely to result in substantial fiability.
High	Harm is likely to arise to a designated receptor from an identified contaminant linkage at the Site without appropriate remediation action.
	Realisation of the risk is likely to present a substantial liability.
Moderate	It is possible that without appropriate remediation action, harm could arise to a designated receptor from an identified contaminant linkage. It is relatively unlikely that any such harm would be severe, and if any harm were to occur, it is more likely that such harm would be relatively mild.
Low	It is possible that harm could arise to a designated receptor from an identified contaminant linkage.
	It is likely that if any harm was realised, at worst any effects would be mild.
Very low	The presence of an identified contaminant linkage does not give rise to the potential to cause harm to a designated receptor.