			Site	ORT HO	USE, 126 ALBERT STREET, LONDON NW1	WIND	OW SA		JOMAS ASSOCIATES LTD						Window Sample No
IMI	T I	D	Date: 15/05/17		Hole Size: 87mm dia to 3.00m 67mm dia to 5.00m		Ground 32 20		Contra	Contract		Camden High Street			Report No P8402J212
Tel: 01733-586568 www.groundengineering.co.uk Semples and in-situ Tests		(Date)		57mm dia to 8.00m	Level:	0.D.		Client		Lazari Investments			Date 07/12/12		
Depth m 0.10	Type D1	Result	Water	Inst.	Description of Strata MADE GROLIND - Firm, brown, slightly sandy slightly	Legend	Depth	Level m				<b>D</b> 1 (			
0.50	D2			h.	MADE GROUND - Firm, brown, slightly sandy, slightly gravelly SILT/CLAY. Gravel is flint, quartzite, occasional ash and brick fragments.				Site Ad		Arlington	-			Ground Level, mC
	1			ИK			0.80	31.40		Excavator Strikes, m	Window sa Pit Dimen			level after completion, of Excavation, m	m DRY
1.20	D3 U1			K	NADE GROUND - Firm, fissured, brown, slightly gravelly, silty CLAY. Gravel is flint, concrete and brick fragments.		1.20	31.00	1 Not 2	ne	Length 8 Breadth	80mmø	Very H Moder	· =	Difficult
					MADE GROUND - Brown, silty, sandy GRAVEL with many cobles of brick and concrete. Gravel is flint, concrete and brick fragments.				Observ	ations: Cl	eared for s	ervices t	o 1.20m.		
2.00-3.00	UŻ			日.	concrete and brick fragments.				Sample Type	Depth, m	SPT	Depth	Legend		Description
				日.					I			0.10		Tarmac	
				E					D	0.25		0.25		Concrete	
3.00-4.00	U3			日			3.10	29.10	D	0.50				Made Ground (clay pieces)	and sand fill with brick and conce
				IE:	Firm, becoming stiff below 4.00m depth, fissured, brown and grey, silty CLAY with accasional orange brown silt partings and selenite crystals below 3.80m depth.	* >				0.50		0.60	-////	<u> </u>	
3 80-4 00	1134			E.	3.80m depth.	* 5	-								olition material, brick and occasional pockets of clay).
3.80-4.00 3.95 4.00-5.00	U3A V1 U4	(54)		日:		.*		-	D	1.00			-////		
				1 E.		17.				1.00					
4.80-5.00	U4A			1.目:		1.5							-000		
4.80-5.00 4.95 5.00-6.00	U4A V2 U5	(114)			(LONDON CLAY)	.*									
				10000		17.									
5.80-6.00	USA			MORE AND		:5	-						-011		
5.80-6.00 5.95 6.00-7.00	U5A V3 U6	(117)		NUMBER OF		.*		-		2.00					
				attalatte		17			D	2.00	1		-000		
6.80-7.00 6.95 7.00-8.00	U6A V4 U7	(110)		ATTRACT		1. 5.	-								
7.00-8.00	U7	E - 1		anaura Anauran		**	1								
		÷ .				Z							-000		
7.70-7.90	U78 V5	(129)	1	analation		· 7.	8.00	24.20				2.70		Firm to stiff brown	silty CLAY becoming stiff with o
					Hole completed at 8.00m depth										sity CLAT becoming surf white
									D	3.00	16		-888		
											HV= 110 kPa			4	
											110 KI a		_888		
													-888		
		·	·				Lauran								
BMARKS 1. 2. 3.	Starte Live n	r pit o	excavate served ad to 3	d from 0 to 1.20m	.00m to 1.20m depth depth h			ect No 161							
4.	Gas m	nitori	ng stand	pipe ins	talled to 5.00m depth		Scale	Page	D	4.00	* HV=	4.00		<b>к</b>	End of sample hole
					Groundwater Strikes Gro	undwater	1:50 Observat	1/1 tions			110 kPa				2.50m, impossible to get SPT
<ul> <li>- Disturbed Sar</li> <li>- Bulk Sample</li> </ul>	mple		nvironmen lackintosh	tal Sample Probe	Depth m		Depth m							Hole collapsed at 2	
- Undisturbed S - Water Sample	e	V - V	ane Shear chesion (	Test ) kPa	No Struck Rose to Rate Cased Sealed Date 15/05/17	Hole 8.00	Casing	Water dry						I	
Z Water Strike Depth to Wat		C	and Penel ohesion ( tandpipe I	) kPa	15/05/17 23/05/17 30/05/17	5.00	1.00	drý dry		Code:	D – distur			V – Water sample	

## MAP

#### COCHRANE CONSTRUCTION CONSULTANTS

## TITLE

#### Fig 15: Geology – Local Borehole Records

Record boreholes from Ort House/126 Albert Street (island site) and 120 Arlington Road

#### **OBSERVATION**

Ground conditions confirmed as Made Ground over London Clay

No groundwater encountered

Both boreholes show made ground to 2.7-3m depth, (assumed remnants of old backfilled basements)

## MA

S	GEA	Geotech widzers then	nnical & Environme	ntal Associ	atės	Site 131 Arlington Roed, London NW1 7ET	Number BH1	CLIENT: 0	
	Excavation Method Dove-in Window Sampler		Dimensions Ground Level (m00)			Client Jonaihan & Julie Myerson	Job Number J19013	GROUND	
		Location		Dates 29/01/2019		Engineer Constructure	Sheet 1/1	REMARK	S:
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend S		
					(0.40)	Breeze and a second sec		Sam	
0.40	01				0.50	and fine brick and ash fragments)) Made Ground (brown clay with occasional fine brick		No	Тур
1.20	D3					fragments and rootlets) Firm becoming still fissured brown CLAY with occasional pale grey veins and occasional partings of orange-brown fine sand			
1.50 1.80	D4 D5				(2.50)			1	D
2.50	D6								
					3.10	Complete at 3.10m			SP
								2	D
					To Late and the			3	D
									SP
								4	D
									SP
								5	D
									SP
Remarks Groundwate Groundwate	r not encountered. r monitoring standpip	oe installed to	> 3.10 m.			(Scale (approx 1:50	) Logged By		
						Figure			U=Und

0.50 MADE GROUND (Lig and brick fragments)	BOREHOLE BH1         Date: 20/11/17         Description         k brown slightly clayey sandy rootlets and occasional stones and t and slate)         ht brown clayey sand with stones         n silty CLAY with occasional t fine sand and scattered selenite	Fig 16: Geology – Local Borehole RecordRecordboreholes1ArlingtonRoad1ArlingtonRoad1OBSERVATIONGround conditions confirm as Made Ground over Lond Clay1Made ground to0.6 to1.0depthNo groundwater encountered1
er Observed er Observed m MADE GROUND (Da topsoil with abundant fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments) 1.00 Firm to stiff pale brow partings of pale yellow	Date: 20/11/17 Description k brown slightly clayey sandy rootlets and occasional stones anc t and slate) nt brown clayey sand with stones	Recordboreholes1ArlingtonRoadand1Arlington RoadOBSERVATIONGround conditions confirm as Made Ground over Lond ClayClayMade ground to 0.6 to 1.0 depthNo groundwater
Depth MADE GROUND (Da topsoil with abundant fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments) 1.00 Firm to stiff pale brow partings of pale yellow	Description k brown slightly clayey sandy rootlets and occasional stones anc t and slate) ht brown clayey sand with stones h silty CLAY with occasional	ArlingtonRoadand1Arlington RoadOBSERVATIONGround conditions confirm as Made Ground over Lond ClayMade ground to 0.6 to 1.0 depthNo groundwater
MADE GROUND (Da topsoil with abundant fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments)	k brown slightly clayey sandy rootlets and occasional stones and t and slate) ht brown clayey sand with stones	OBSERVATION Ground conditions confirm as Made Ground over Lond Clay Made ground to 0.6 to 1.0 depth No groundwater
MADE GROUND (Da topsoil with abundant fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments)	k brown slightly clayey sandy rootlets and occasional stones and t and slate) ht brown clayey sand with stones	Ground conditions confirm as Made Ground over Lond Clay Made ground to 0.6 to 1.0 depth No groundwater
MADE GROUND (Da topsoil with abundant fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments)	k brown slightly clayey sandy rootlets and occasional stones and t and slate) ht brown clayey sand with stones	as Made Ground over Lond Clay Made ground to 0.6 to 1.0 depth No groundwater
MADE GROUND (Da topsoil with abundant fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments) 1.00 Firm to stiff pale brow partings of pale yellow	notlets and occasional stones and t and slate) nt brown clayey sand with stones	Clay Made ground to 0.6 to 1.0 depth No groundwater
fragments of brick, flir 0.50 MADE GROUND (Lig and brick fragments) 1.00 Firm to stiff pale brow partings of pale yellow	t and slate) ht brown clayey sand with stones n silty CLAY with occasional	Made ground to 0.6 to 1.0 depth No groundwater
1.00 Firm to stiff pale brow partings of pale yellov	n silty CLAY with occasional	depth No groundwater
1.00 Firm to stiff pale brow partings of pale yellov	n silty CLAY with occasional	No groundwater
Firm to stiff pale brow partings of pale yellow	n silty CLAY with occasional fine sand and scattered selenite	•
Firm to stiff pale brow partings of pale yellow	n silty CLAY with occasional fine sand and scattered selenite	encountered
	fine sand and scattered selenite	
(I		
fissured silty CLAY wi	stiff, brown and grey mottled th occasional partings of pale	
yellow fine sand and s	cattered selenite crystals	
-		

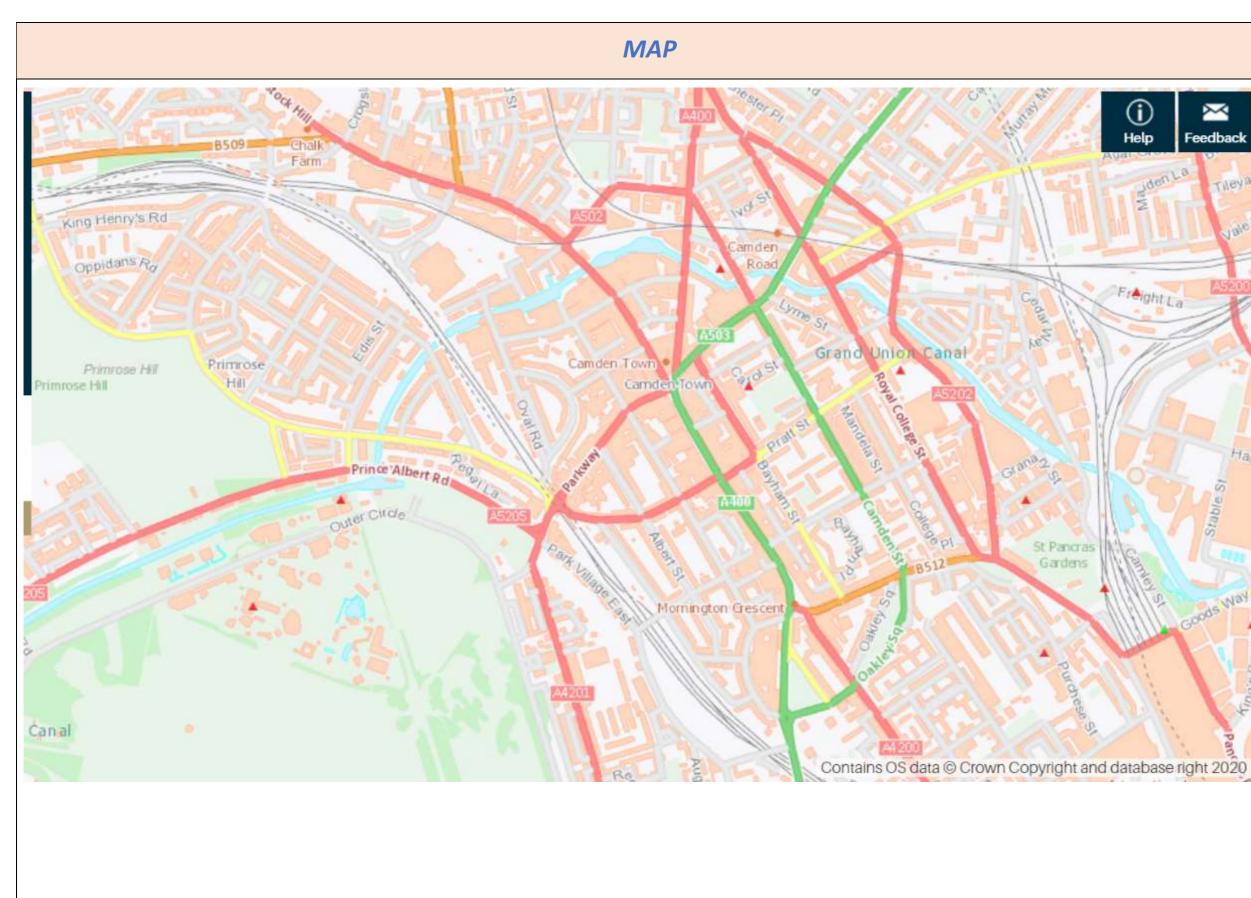
# COCHRANE CONSTRUCTION CONSULTANTS

## MAP

HAND EXCAUATION         128mm cased to 0.00m         CAMPEN BUS ESTATE AGENTS         Mits           Location         TG289837         Pairs         Engineer         Engineer         Sn           0,01         Sample / Tests         Ching         Mits         Field Records         Mits         Engineer         Sn           0,25         D1         Sample / Tests         Ching         Mits         Matce GROUND: Got register and matcore fragments.         Sn           0,26         D3         D1         Sn         Sn         MADE GROUND: Soft calgo containing bick fragments.         Sn           0,26         D3         D6         Sn         And Dianes         Sn           1,26         D6         Sn         And Dianes         And Diaes         And Diaes         An	Boring Met				Servic				CAMDEN BUS ESTATE AGENTS, 27A PARKWAY, LONDON, NW1 7PN Client	Jo	
T028837         13/102015         ELIOTTWOOD PARTNERSHP LLP         Image: Control of the surface of the s	•					Ground	Lever	(1100)			
2.25         D1         D			1			Dates 13	/10/20	15		Sh	
2.25         D1         D	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	De (Thic	epth m) kness)	Description	Leg	
0.50         D2         D3         D4         D8         D75         D3         D4         D8         D75         D3         D4         D6         D75         D3         D4         D75         D3         D4         D75         D3         D4         D75         D3         D4         D8         D71         D11,1,1,1         D8         D4         D75         D3         D4         D75         D4         D77         D3         D77         D3         D77         D3         D77         D4         D77         D71         D74         D75         D3         D4         D77         D3							-	(9,15)	MADE GROUND: Concrete surface.		
0.30     L2     D3     D4     DRY     1/1,1,1,1     MODE GROUND. Soft borw gray silly clay.       1.00-145     D5     D5     D5     MDE GROUND. Soft borw gray silly clay.     1/2       2.00-245     U1     40 blows     1/2     1/2     1/2       3.00-345     DFT N=10     DRY     1,22,2,3,3     1/2     1/2       3.00-345     DFT N=10     DRY     1,21,2,2,3,3     1/2     1/2       4.00-4.45     U2     60 blows     1/2     1/2     1/2       6.00     D11     DRY     3,31/4,4,5,5     1/2     1/2       6.00     D11     DRY     5,67/5,8,9     1/2     1/2       6.00     D14     1/40 blows     1/4     1/40 blows     1/2       7.50     D12     D14     1/40 blows     1/2     1/2       6.00     D11     D12     D14     1/40 blows     1/2       6.00     D14     1/40 blows     1/2     1/40 blows     1/2       6.00     D14     1/40 blows     1/4     1/40 blows     1/4	0.25	D1					_	(0.35)	MADE GROUND: Brick rubble and hardcore fragments.	-	
Act         Act         DRV         1/1,1,1         Act	0.50	D2					F	0.50	MADE GROUND: Soft clay containinG brick fragments.		
1.00       D4       <	0.75	D3						(0.60)			
1.00       D4       <	1.00-1.45	SPT(C) N=4		DRY	1/1,1,1,1		-	1.10			
Image: Construction of any line same generation of any line same genet definition of any line same generation of any li	1.00	D4						(0.20) 1.30		1000	
1.75       D5       05       05       07         2.00 2.45       U1       40 blows       10         2.75       D6       03       03       07         3.00       D7       1.22,2,3,3       10       10         3.75       D8       00 blows       10       10         4.00-4.45       U2       00 blows       10       10         4.75       D9       00 blows       10       10         6.00       D11       00 blows       10       10         6.00       D12       00 blows       10       10       10         9.00       D14       140 blows       10       10       10       10         9.00       D14       140 blows       10       10       10       10       10         9.00       D14       140							-		containing partings of silty fine sand, gypsum crystals and	-	
2.00-2.45       U1       U1       40 blows       Image: constrained blows       Image: constrained blows         2.75       D6       D6       DRY       1.22.2.3.3       Image: constrained blows       Image: constrained blows       Image: constrained blows         3.75       D8       0       DRY       1.22.2.3.3       Image: constrained blows       Image: cons	1 75	05					-		claystones.	×	
2.75     D6     3.00     DFY     DFY     1.22,2,3,3       3.00     3.65     D7     D7     DFY     1.22,2,3,3       3.75     D8     60 blows     DFY       4.00-4.45     U2     60 blows     DFY       4.75     D9     5.00-545     SPT N=18       5.00     D11     DFY     3.34,4,5,5       6.00     D11     DFY     3.34,4,5,5       6.00     D11     DFY       9.00     D14       9					40 blows		-				
3.00-3.45       SPT N=10       DRY       1.2/2.2.3.3       Image: Constraint of the second secon	2.00-2.45	01			40 DIOWS		-				
3.00-3.45       SPT N=10       DRY       1.2/2.2.3.3       Image: Constraint of the second secon							-			<u> </u>	
3.00-3.45       SPT N=10       DRY       1.2/2.2.3.3       Image: Constraint of the second secon							-				
3.00       D7       D8       C <td>2.75</td> <td>D6</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>×</td>	2.75	D6					-			×	
3.75       D8       60 blows       1         4.75       D9       60 blows       1         4.75       D9       1       1         5.00       5.00       D10       DRY       3,3/4,4,5,5       1         6.00       D11       1       1       1       1       1         6.00       D11       1       1       1       1       1       1         6.00       D12       1       90 blows       1 </td <td>3.00-3.45 3.00</td> <td>SPT N=10 D7</td> <td></td> <td>DRY</td> <td>1,2/2,2,3,3</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>	3.00-3.45 3.00	SPT N=10 D7		DRY	1,2/2,2,3,3		-				
4.00-4.45 U2 60 blows 60 blows 7.50 D9 500-5.45 D9 500-5.45 D9 10 11 6 50-6.95 U3 90 blows 6 6 50-6.95 U3 90 blows 7.50 D12 6 50-6.95 U3 90 blows 7.50 D12 7										*	
4.00-4.45 U2 60 blows 60 blows 7.50 D9 5.67.9.8.9 60 blows 7.50 D12 6.50-6.95 U3 90 blows 7.50 D12 7.5							-			× × ·	
4.75     D9     DRY     3.3/4,4,5,5     14       5.00-5.45     SPT N=18     DRY     3.3/4,4,5,5     14       6.00     D11     14     14       6.50-6.95     U3     90 blows     14       7.50     D12     14     140 blows       8.00-8.45     SPT N=33     DRY     5,6/7,9,8,9       9.00     D14     140 blows     140 blows	3.75	D8					-				
4.75     D9     DRY     3.3/4,4,5,5     140       5.00-5.45     SPT N=18     DRY     3.3/4,4,5,5     140       6.00     D11     140     140     140       6.50-6.95     U3     DRY     5,67,9,8,9     140       7.50     D12     140     140       8.00-8.45     SPT N=33     DRY     5,67,9,8,9     140       9.00     D14     140     140     140       110     140     140     140       110     140     140     140       111     140     140       112     140     140       113     140     140       114     140     140       115     140       115     140       116     140       117     140       118     140       119     140       110     140       110     140       110     140       111     140       111     140       115     115       115     115	4.00-4.45	U2			60 blows		-			×.	
5.00-5.45         SPT N=18         DRY         3,3/4,4,5,5         Image: Constraint of the sample service of the sam							-				
5.00-5.45         SPT N=18         DRY         3,3/4,4,5,5         Image: Constraint of the sample system of the sampl							-			<u> </u>	
5.00-5.45         SPT N=18         DRY         3,3/4,4,5,5         Image: Constraint of the sample service of the sam	4.75	Da					-				
5.00         D10         D10 <td></td> <td></td> <td></td> <td>0.014</td> <td>0.04455</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td>				0.014	0.04455		-			-	
6.00       D11       00 blows	5.00-5.45 5.00			DRY	3,3/4,4,5,5		-				
6.00       D11       00 blows							-			×	
6.50-6.95     U3     90 blows     1       7.50     D12     P     1       8.00-8.45     SPT N=33     DRY     5,6/7,9,8,9       9.00     D14     140 blows       9.00     D14     140 blows       0.00     D14     140 blows							Ē	(8.70)		_	
6.50-6.95 U3 90 blows 6.50-6.95 U3 90 blows 7.50 D12 8.00-8.45 SPT N=33 DRY 5,6/7,9,8,9 9.00 D14 9.50-9.95 U4 140 blows							-				
7.50         D12           8.00-8.45         SPT N=33           D13         DRY           5,6/7,9,8,9           En           En           En           9.00           D14           9.00           D14           En           Scale (approx)           By           Scale (approx)           By           Scale (approx)           By           Scale (approx)           By	6.00	D11					-			×	
7.50         D12           8.00-8.45         SPT N=33           D13         DRY           5,6/7,9,8,9           En           En           En           9.00           D14           9.50-9.95           U4           140 blows           En           En           Scale (approx)           By Cropping           U4           140 blows           En							-				
8.00-8.45 8.00         SPT N=33 D13         DRY         5,6/7,9,8,9         Image: Constraint of the second of	6.50-6.95	U3			90 blows		-				
8.00-8.45 8.00         SPT N=33 D13         DRY         5,6/7,9,8,9         Image: Constraint of the second of							-				
8.00-8.45 8.00         SPT N=33 D13         DRY         5,6/7,9,8,9         Image: Constraint of the second of							-				
8.00-8.45 8.00         SPT N=33 D13         DRY         5,6/7,9,8,9         Image: Constraint of the second of							-			×	
8.00-8.45 8.00         SPT N=33 D13         DRY         5,6/7,9,8,9         Image: Constraint of the second of	7.50	D12					-			×	
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test							-			*	
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test	000.045	SDT N=22		DRV	5 6/7 0 9 0		-				
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test	8.00-8.45 8.00			DRT	3,017,9,0,9		-				
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test							-			×.	
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test							-				
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test							-			×	
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test	9.00	D14					-				
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test										-	
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test	9.50-9.95	U4			140 blows		-			<u></u>	
Remarks     D = Disturbed sample     Scale (approx)     Log (approx)       SPT(C) = Standard Penetration Test (Cone)     U = Undisturbed 100mm diameter sample     SPT = Standard Penetration Test							-				
U = Undisturbed 100mm diameter sample BPT = Standard Penetration Test 1-50 TI	Remarks	d				L			Scale	Log	
SPT = Standard Penetration Test 1:50 T	SPT(C) = Sta U = Undistur	andard Penetration 1 bed 100mm diamete	est (Cone r sample	)					(approx)	By	
Excavating from 0.00m to 1.00m for 1 hour. Figure No.	SPT = Stand	ard Penetration Test								-	

#### COCHRANE CONSTRUCTION CONSULTANTS

	TITLE	
	eology – Loca orehole Reco	
Record Parkway	boreholes	27a
<u>OBSERVA</u>	TION	
	onditions confi Ground over Lc	
Made gro	und to 1.3m d	epth
No ground	dwater	





#### Fig 18: Geology – Water **Well Locations**

BGS Geoindex Onshore map showing location of water wells near site.

Water wells:

- ▲ Not Available
- ▲ 0 10m
- 🔺 10 30m
- ▲ 30m+

OBSERVATION

Nearest well located at 25 Carol Street, 265m from site.



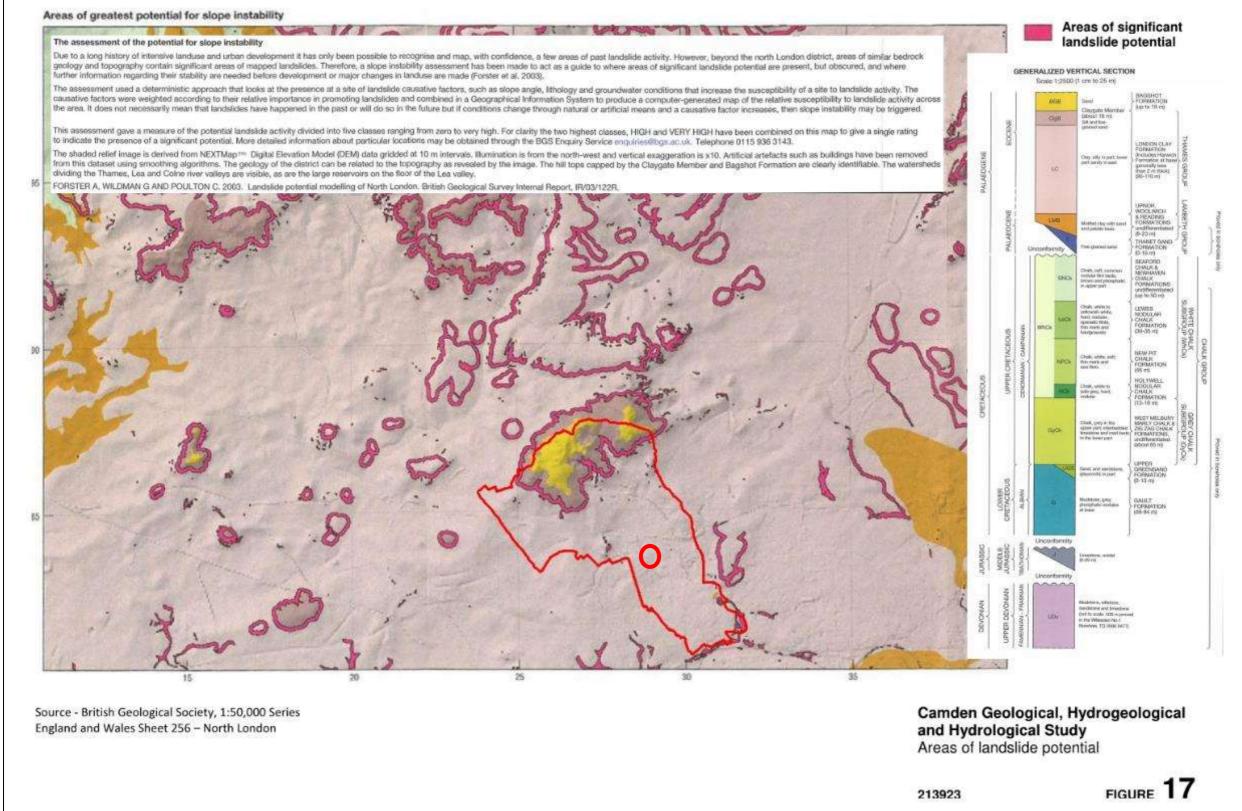
 $\times$ 

Feedback

Tileyard

ale R

## MAP



#### **COCHRANE CONSTRUCTION CONSULTANTS**

## TITLE

#### Fig 19: Geology – LBC Areas of Landslide Potential

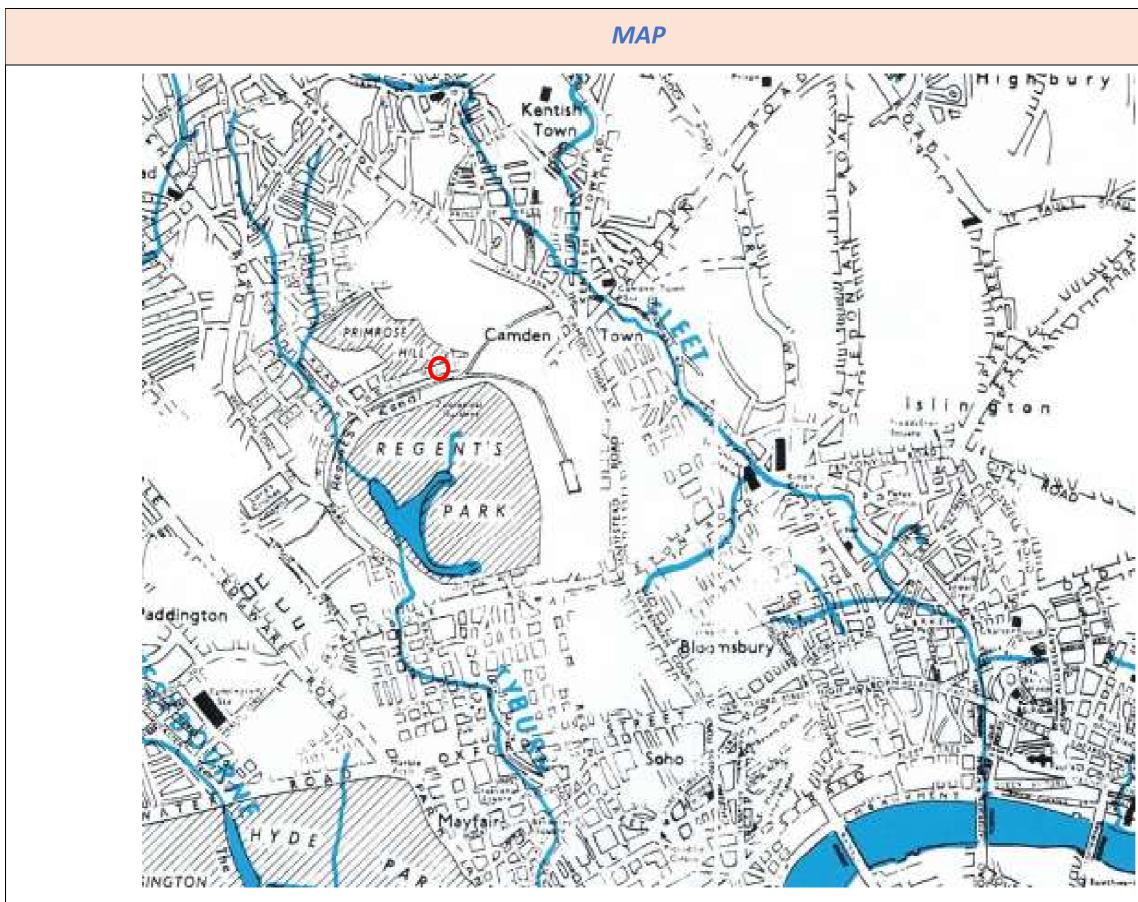
LBC - Camden geological, hydrogeological and hydrological study - Guidance subterranean for development. November 2010.

Figure 17 – Areas of Landslide Potential

#### **OBSERVATION**

Site is outside any areas of significant landslide potential.

Refer to Figures 7 & 8 -Topographical maps which indicate site has gentle fall to north-east – approximately 1.4deg so site is effectively flat (defined as less than 7deg)



S2930 – 161 Arlington Road NW1 7ET Desk Study Report

#### COCHRANE CONSTRUCTION CONSULTANTS

TITLE
Fig 20: Hydrology -Lost Rivers
The Lost Rivers of London, Nicholas Barton
<b>OBSERVATION</b>
River Fleet approx. 365m to east, River Tyburn 2.25km to west.

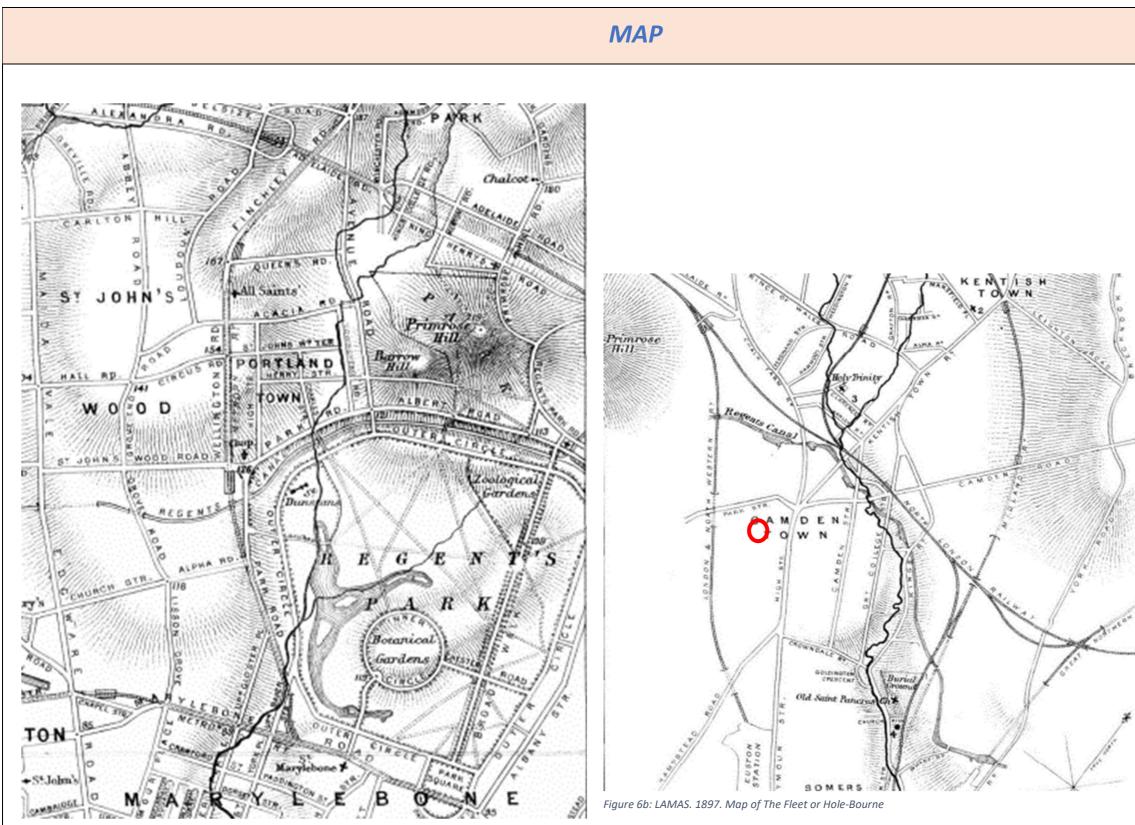


Figure 6a: LAMAS. 1890. Map of The Tybourne

#### COCHRANE CONSTRUCTION CONSULTANTS

-77	-1	7	-1	
				_

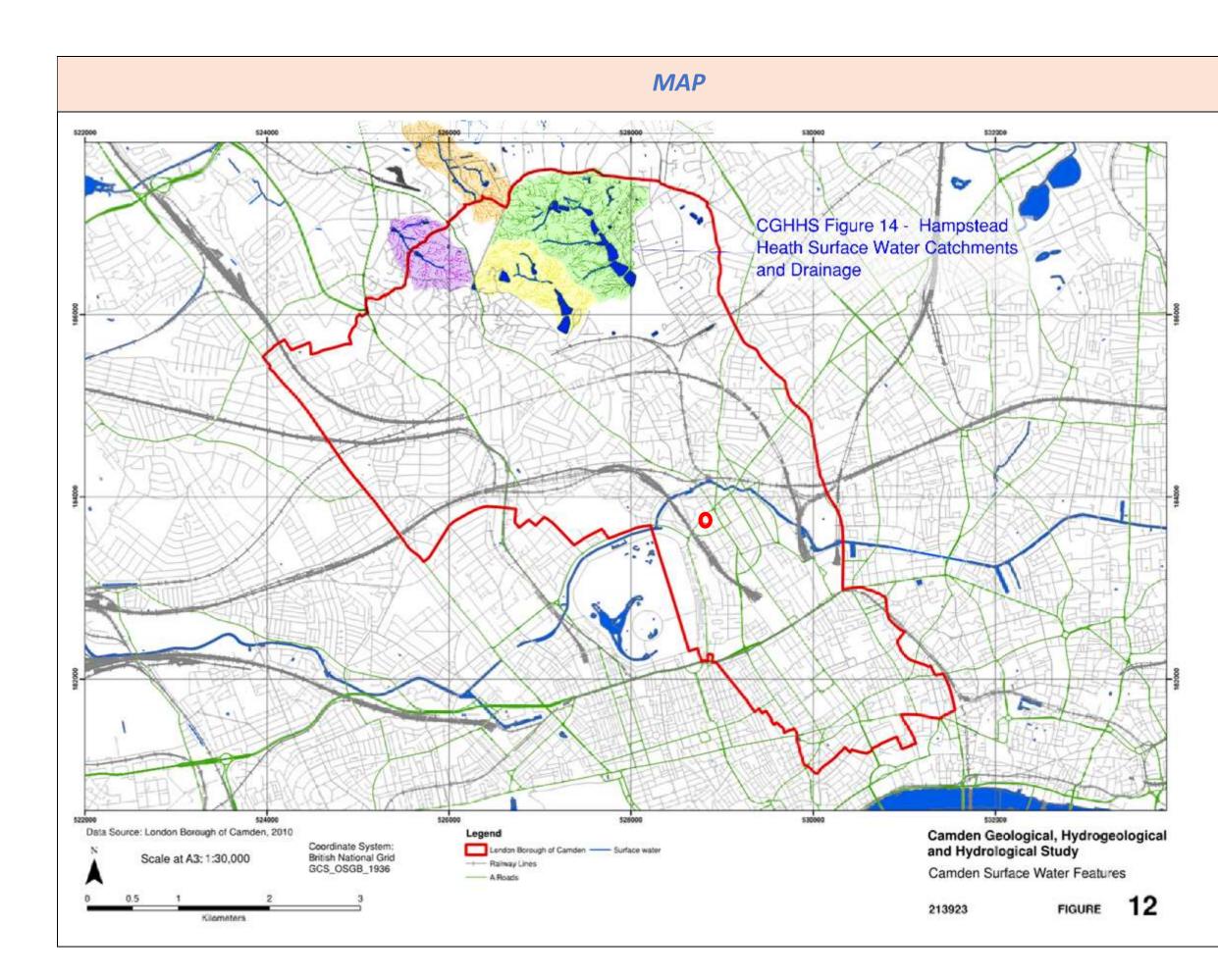
Fig 21: Hydrology - Lost Rivers – Routes of Fleet and Tyburn

Routes of the River Fleet and River Tyburn based on London and Middlesex Archaeological Society maps c 1890 and 1897

#### **OBSERVATION**

River Fleet approx. 365m to east, River Tyburn 2.25km to west.

No tributaries in area of site



S2930 – 161 Arlington Road NW1 7ET Desk Study Report

#### COCHRANE CONSTRUCTION CONSULTANTS

## TITLE

### Fig 22: Hydrology - LBC Surface Water Features & Hampstead Heath Catchment Areas

LBC - Camden geological, hydrogeological and hydrological study - Guidance for subterranean development. November 2010.

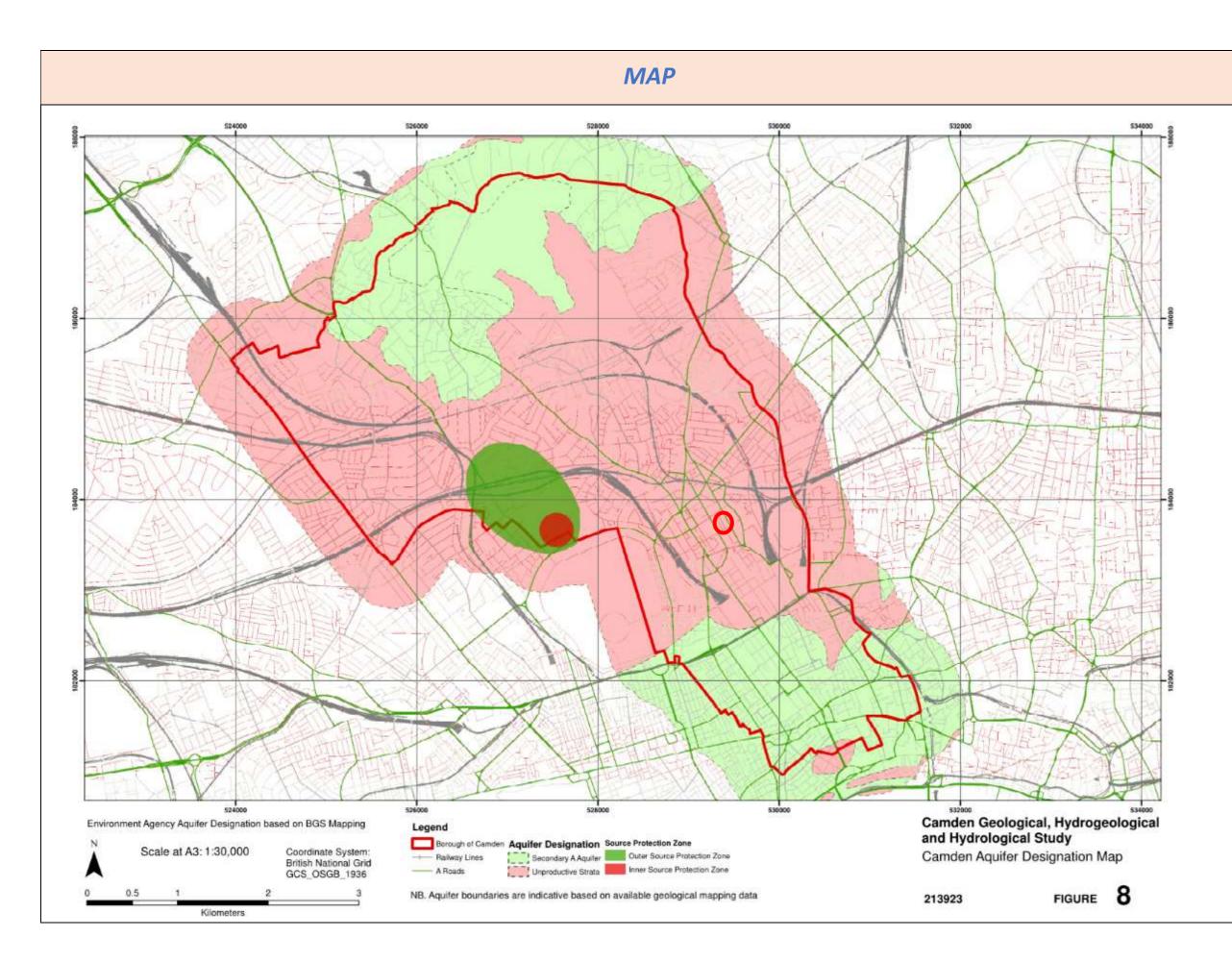
Figure 12 – Camden Surface Water Features

Figure 14 - Hampstead Heath Surface Water Catchments and Drainage

#### **OBSERVATION**

Site is away from Regents Canal (approx 375m to north)

Site is outside Hampstead Heath and Highgate Ponds catchment areas





#### Fig 23: Hydrology – LBC Aquifer Designation Map

LBC - Camden geological, hydrogeological and hydrological study - Guidance for subterranean development. November 2010.

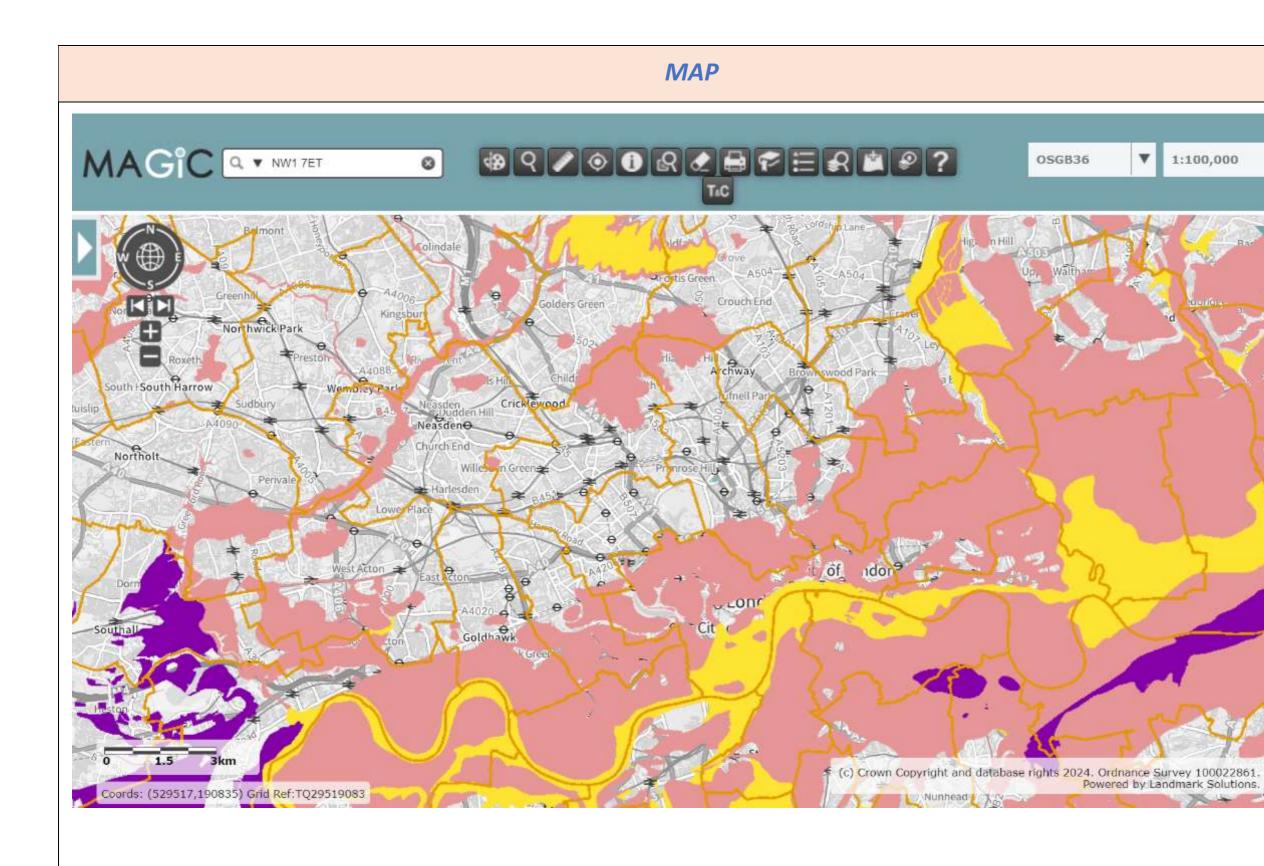
Figure 8 – Camden Aquifer Designation Map

#### **OBSERVATION**

Site is on Unproductive Strata (London Clay).

Site is outside aquifer source protection zones.

Note the inner source protection zone shown relates to the Barrow Hill site which ceased abstraction in 2012.



S2930 – 161 Arlington Road NW1 7ET Desk Study Report



Fig 24: Hydrology – Environment **Agency Aquifer Designation Map** (England)

v

Tkins

DEFRA Magic Map: https://magic.defra.gov.uk/ MagicMap.aspx

BGS/Environment Agency map of aquifer designations identifying different types of aquifer - layers of waterbearing permeable rock or drift deposits from which groundwater can be extracted. These designations reflect the importance of aquifers in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.

Aquifer Designation Map (Bedrock & Superficial Drift)



Principal



Secondary A

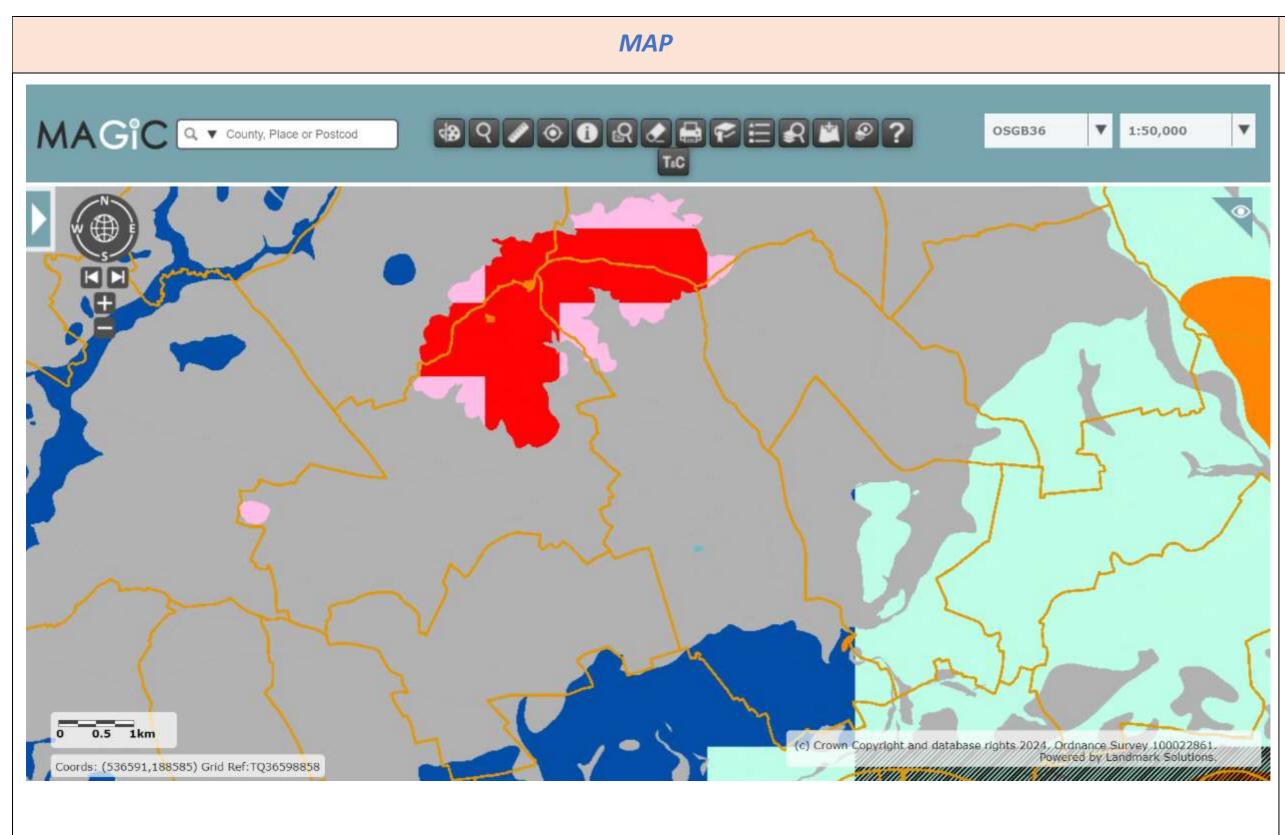


inuccii

Secondary B

Secondary (undifferentiated)

Unproductive



## TITLE

Fig 25: Hydrology – Environment Agency Groundwater Vulnerability Map (England)

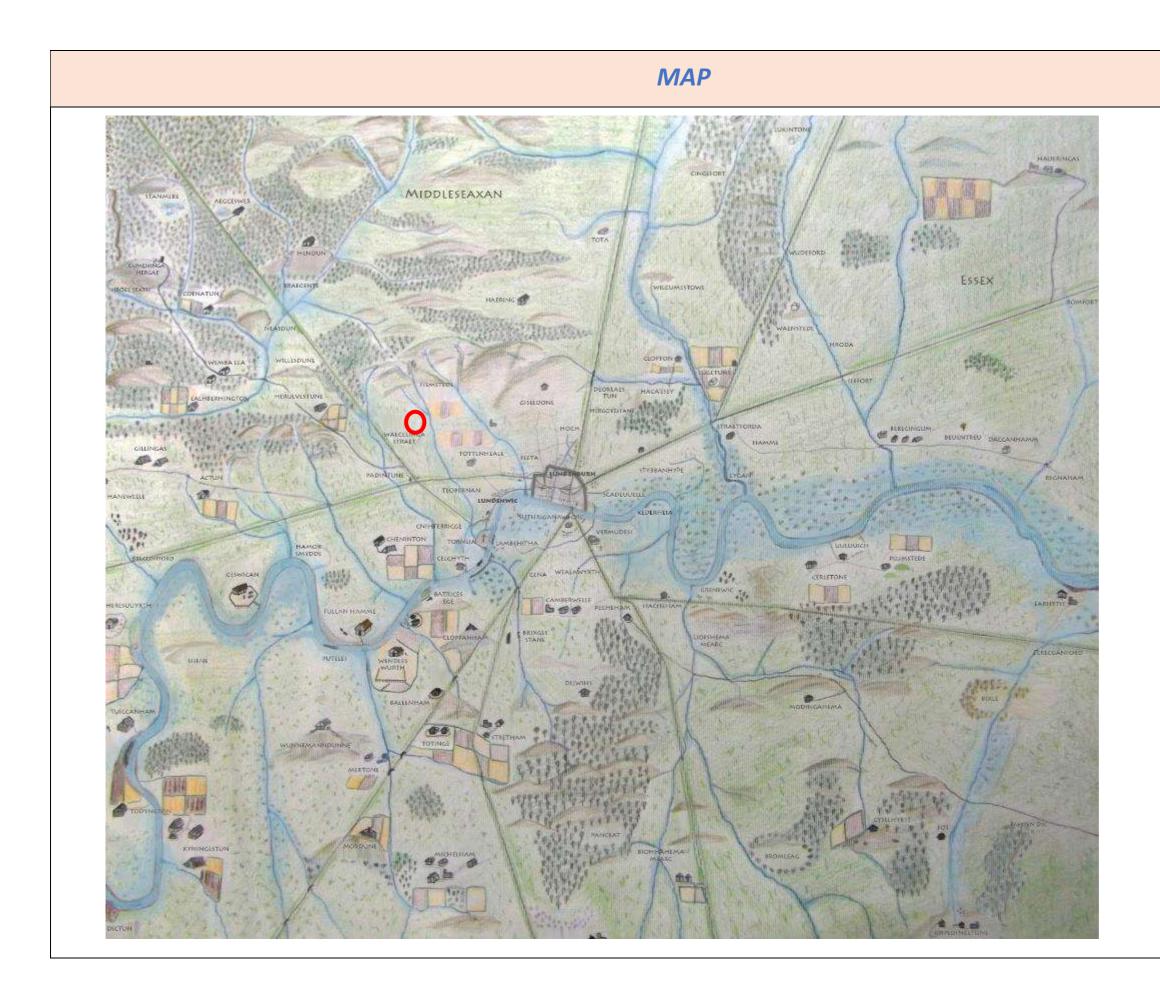
DEFRAMagicMap:https://magic.defra.gov.uk/MagicMap.aspx

The Groundwater

Vulnerability Maps show the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a single square kilometre.

Groundwater Vulnerability Map (England)

Local Information
 Soluble Rock Risk
 High
 Medium - High
 Medium
 Medium - Low
 Low
 Unproductive



Т	-1	Т	1	E
			L	
	_	_	_	_

Fig 26: Historical Maps -Anglo Saxon London

https://londonist.com/2014/ 01/anglo-saxon-london-mapupdated

#### DEVELOPMENT

Hampstead (Hemstede) shown

Not near any old Roman roads (Edgware Road & A10 are closest)

'Lost Rivers; shown