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**The Site**



# **HERTS & ESSEX SITE INVESTIGATIONS**

'THE OLD POST OFFICE', WELLPOND GREEN,  
STANDON, WARE, HERTS, SG11 1NJ

TELEPHONE  
FAX

01920 822233  
01920 822200

**GEOTECHNICAL ASSESSMENTS - ENVIRONMENTAL ASSESSMENTS - DESKTOP STUDY - CONTAMINATED LAND**

4<sup>th</sup> February 2008

Our Ref : CSG/8368

**Barter Hill Partnership.**  
Wynters Farm Barn,  
Magdalen Laver  
Ongar  
Essex  
CM5 0EW

**For the attention of B.Hill Esq.**

Dear Sir,

**Re: Site at Buck Street, Camden Town : Environmental Report**

## **SECTION 1**

### **INTRODUCTION**

- 1.01 In accordance with your instructions, we visited the above site during January 2008.
- 1.02 The purpose of our visit was to carry out an investigation into the subsoil conditions in order to assess the suitability of the site for a development of a basement and commercial / residential development. The assessment takes the form of samples recovered and tested to confirm the extent of contamination within the site, if any.
- 1.03 The comments and opinions expressed are based purely on the conditions encountered and the subsequent laboratory testing. The location of the excavations was designed to take into account the subsoil conditions relevant to the proposed development.
- 1.04 Some special condition may be present on site that, to date, has not been encountered within the scope of the site investigation works and therefore will not have been taken into account within this report.
- 1.05 All ground water recordings or their absence relate to short term observations and do not allow for fluctuations due to seasonal or other effects.

## **SECTION 2**

### **DESCRIPTION OF SITE**

- 2.01 The site is located at the junction of Buck Street and Stuckley Place in North London. The site forms an existing commercial area with parking to the front and buildings to the rear of the site



# **H&E SI**

- 2.02 The site was surrounded by commercial buildings with hard cover covering the majority of the area.
- 2.03 No vegetation was recorded surrounding the site area.
- 2.04 The proposed development is to incorporate a basement covering the entire site up to the boundary perimeters to a depth of 2.70m below the existing site levels. The use of the building will incorporate commercial / retail at basement and ground floor, commercial at first floor and residential on the second and third floors. No soft landscapings are proposed.

## **SECTION 3      FIELDWORK**

- 3.01 The site works undertaken involved the excavation of four window sampler boreholes across the site in order to recover samples from the lower geology for later chemical analysis.
- 3.02 As a result of the initial assessment of the site, further assessments were proposed and undertaken in order to identify risk and try to limit this risk.
- 3.03 The location of these works is indicated on the site plan-forming appendix one.
- 3.04 The various strata encountered were noted and are recorded on the borehole logs forming appendix two.
- 3.05 Full ranges of samples were recovered as noted and retained for subsequent laboratory testing.

## **SECTION 4      CHEMICAL TESTING**

- 4.01 The selected samples chosen for contamination testing were tested for a range of determinants based on the existing use of the site. This range of tests is broadly in line with the, now removed from publication, ICRCL, 59/83 suite, (Inter-Departmental Committee on the Re-Development of Contaminated Land). This contamination testing was undertaken in by a U.K.A.S, accredited laboratory. In addition to the ICRCL, 59/83, suite, additional contaminants were tested for based on the existing use of the site. The assessment of the extent of contamination across the site will be undertaken using the Contaminated Land Exposure Assessment, (CLEA, March 2002.).
- 4.02 The results of this testing are enclosed and form appendix three

## **SECTION 5      FINDINGS**

- 5.01 From this information, it can be seen that 'made ground' was recorded to a depths of between 1.00-2.50m, although, without historical data, no reasoning for this can be given for the slightly increased depth of made ground. This was seen to overlie a clay soil in all excavations which was present to the close at a maximum depth of 5m.



# H&E SI

- 5.02 Groundwater was recorded within the excavations made which recorded on two standing water levels in window samplers two and three at depths of 4.40m and 1.80m. No long term monitoring has been undertaken. Considering the proposed basement to depth as of up to 2.70m below existing site levels, further monitoring is recommended.

## General

- 5.03 Without any significant assessment of the site made by ourselves, we would suggest that some risk associated with the former use must be considered potentially in place.
- 5.04 When considering the potential for contamination to be in place, we enclose the following :-
- 5.05 Within this report, Contaminated Land Exposure Assessment has been used where toxalogical data has been provided. These give Soil Guideline Values, (SGV's), for various contaminants, the details of which are reported below.

**Table 1 Contaminated Land Risk Assessment SGV's**

Contaminant	Arsenic, (S.G.V)	Cadmium, (S.G.V)	Chromium, (S.G.V)	Lead, (S.G.V)	Mercury, (S.G.V)	Nickel, (S.G.V)	Selenium, (S.G.V)
Residential With plant uptake	20	1, 2, 8, (pH dependant)	130	450	8	50	35
Residential Without Plant Uptake	20	30	200	450	15	75	260
Allotments	20	1, 2, 8 (pH Dependant)	130	450	8	50	35
Commercial	500	1400	5000	750	480	5000	8000

All concentrations are measured in mg/kg<sup>-1</sup>.

**Table 2 Contaminated Land Risk Assessment SGV's, Cont'd.....**

Contaminant	Ethylbenzene, (S.G.V)			Toluene, (S.G.V)			Phenol, (S.G.V)		
Soil Organic Matter, (%)	1%	2.5%	2.5%	1%	2.5%	5%	1%	2.5%	5%
Residential With plant uptake	9	21	21	3	7	260	78	150	280
Residential Without Plant Uptake	16	41	41	3	9	35	21,900	34,400	37,300
Allotments	18	43	43	31	73	8000	80	255	280
Commercial	48,000			150	150	680	21,900	43,00	78,100

All concentrations are measured in mg/kg<sup>-1</sup>.

- 5.06 Within the above, it can be seen that exposure limits for various land uses are recorded. Where contamination testing has been undertaken and results obtained, comparison with these values should be undertaken. Where exceedance of these values is recorded with appropriate pathway, risk of contamination is present.



- 5.07 In order to consider the risk from Poly Aromatic Hydrocarbons, Benzo(a)pyrene has been assessed using Scottish and Northern Ireland Forum For Environmental Research, (SNIFFER). This reveals the following data :-

**Table 3 SNIFFER derived value**

<b>Contaminant</b>	<b>Commercial</b>
<b>Benzo(a)pyrene</b>	36

All concentrations are measured in mg/kg<sup>-1</sup>.

## **Vegetative Risk**

- 5.08 Within the testing undertaken, certain contaminants pose limited risk to human health through the contaminants being 'Phytotoxic', (i.e. only harmful to plant growth and water systems). With this in mind, we enclose details of risk to the surrounding vegetation based on ICRCL guidance, which remains in publication. It is known that the human based risk was removed from publication within the ICRCL guidance notes, although the risk to vegetation is in place. These values are as follows :-

**Table 4 Inter-Departmental Committee on the Re-Development of Contaminated Land, Vegetation Risk**

<b>Contaminant</b>	<b>Private Gardens</b>	<b>Open Spaces</b>
<b>Copper</b>	130	130
<b>Zinc</b>	300	300
<b>Boron</b>	3	3
<b>Sulfide</b>	250	250

All concentrations are measured in mg/kg<sup>-1</sup>.

- 5.09 Where the above values are exceeded, risk will be in place to vegetation and a water system within the site and as such, remedial measures will be required. It should be recorded that no soft landscapings are proposed and as such, plant growth is unlikely to be affected.
- 5.10 When considering the above and making comparisons to the above exposure levels. The soil samples recovered from the site proved contaminated above the acceptable concentrations recorded above.

## **Contamination Assessment**

- 5.11 From the results of the chemical test data, the following elevated contamination has been identified within the testing undertaken.



**Table 6 Summary of Elevated Contamination**

<b>Location</b>	<b>Depth</b>	<b>Stratum</b>	<b>Lead, mg/kg<sup>1</sup></b>
<b>WS1</b>	<b>2.00m</b>	FILL	880
<b>WS3</b>	<b>0.60m</b>	FILL	2800
<b>Exposure Level</b>			<b>750</b>

All concentrations are measured in mg/kg<sup>1</sup>.

- 5.12 From the above, it can be seen that slightly elevated levels of contamination are in place which exceed the human health trigger level for commercial land use. With this in mind, it is likely that should soft landscapings be proposed within the site, risk will be in place.
- 5.13 It is, however, recorded that the proposed land use of the site forms a commercial land use with no soft landscapings and excavation of a basement area to depths of up to 2.7m in depth. With this in mind, and in the knowledge that the made ground in which this contamination has been solely identified only extends to 2.50m and as such, the basement will remove all contaminated soils off site.
- 5.14 We would therefore suggest that validation samples should be recovered from the basement area on excavation of subsoil's to confirm that the contamination has been removed and the site could then be developed in a conventional manner.
- 5.15 It is additionally recorded that with the removal of all contaminated soils within the site, the risk to a groundwater or surface water system will also be removed.

## **SECTION 6 REMEDIAL MEASURES**

- 6.01 When considering the contamination recorded within the site, it can be seen that some risk may be in place, although, the proposed development will effectively remove the contamination through excavation of a basement. As such, the source of contamination within the subsoil will be removed.
- 6.02 Considering that no contamination will be in place on completion of the development of the site, the only remaining risk will be to the workforce used in the development of the site and as such, all personnel should be informed of the significance of the contamination and appropriate health and safety equipment provided. The contamination within the site is not recorded as significant and as such, conventional health and safety wear should be sufficient.
- 6.03 No assessment has been made within the site as to the presence of Asbestos product within the existing structures and as such, Herts & Essex Site Investigations cannot be held accountable for any contamination above ground.



- 6.04 Should the proposed site layout change or alter to remove the formation of a basement, further assessments should be made.

***Plant and Vegetative Risk***

- 6.05 No soft landscaping is proposed within the development of the site.

***Construction Materials & Services***

- 6.06 From the information gained, it is recorded that the contamination present has no effect of construction materials and as such, where construction materials, services or trenches are made for the purpose of developing the site, no action is required. It is possible that the statutory authorities may have specific guidance for particular services within new construction sites such that clean corridors are required for services within contaminated ground. Consultation with the relevant authorities should be made in order to confirm the extent of works required.

- 6.07 With the removal of all contaminated waste up to the boundary perimeter. Limited risk will be in place.

***Validation Testing***

- 6.08 Within the site, we would suggest that validation samples should be recovered from the base and sides of excavations where available and tested for a minimum suite of metals, (to include specifically Lead). A completion report should then be submitted to relevant authorities for approval. In the interim, a remedial strategy report could be devised to further assess the development risk within the site.

***Muck Away***

- 6.09 For the purposes of Muck Away and landfilling of any waste soils either derived from the construction process, (which is more likely within this site), or removal due to significant risk, we would suggest that the Waste Acceptance Criteria Testing should be undertaken which is currently ongoing and will provide a classification for the waste.
- 6.10 As a basic categorisation, we would suggest that the material will form '**Not Hazardous**' waste with ongoing testing classifying the leachate concentration.

I hope the foregoing is sufficient for your requirements, although please do not hesitate to contact us should require any further information regarding the above.

Yours Faithfully

Checked

**C.S.Gray M.Sc**  
**Contract Engineer**

**M.R.Smith M.Sc**  
**Principal Engineer**



# HERTS & ESSEX SITE INVESTIGATIONS

The Old Post Office, Wellpond Green, Standon, Ware, Herts SG11 1NJ

Telephone: Ware (01920) 822233

Fax: Ware (01920) 822200

Appendix No. 1

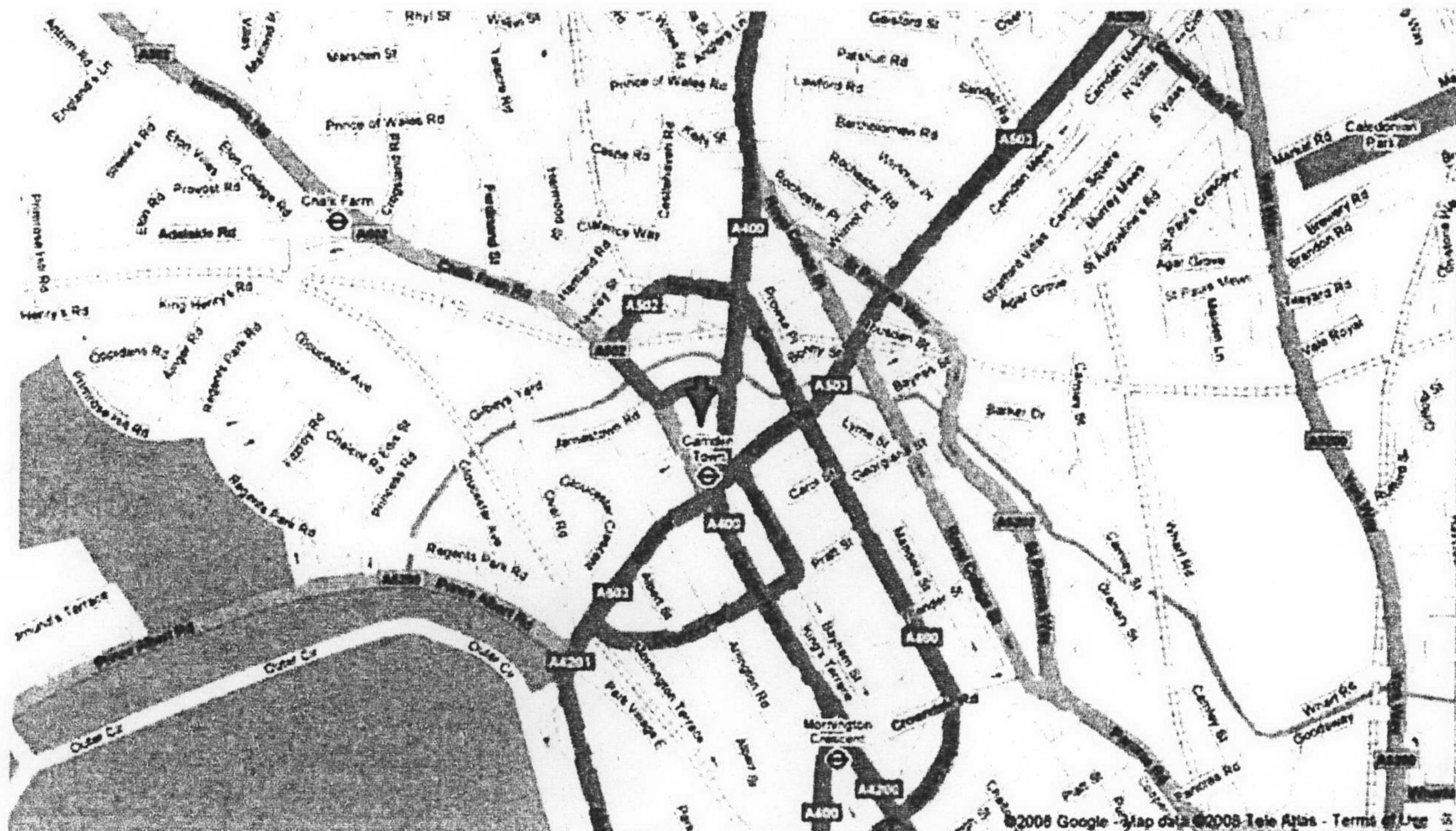
Sheet No. 1

Job No. 8368

Date Jan 2008

Buck Street. Camden Town

Location Plan



Not To Scale



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Fax: Ware (01920) 822200

Appendix No. 1

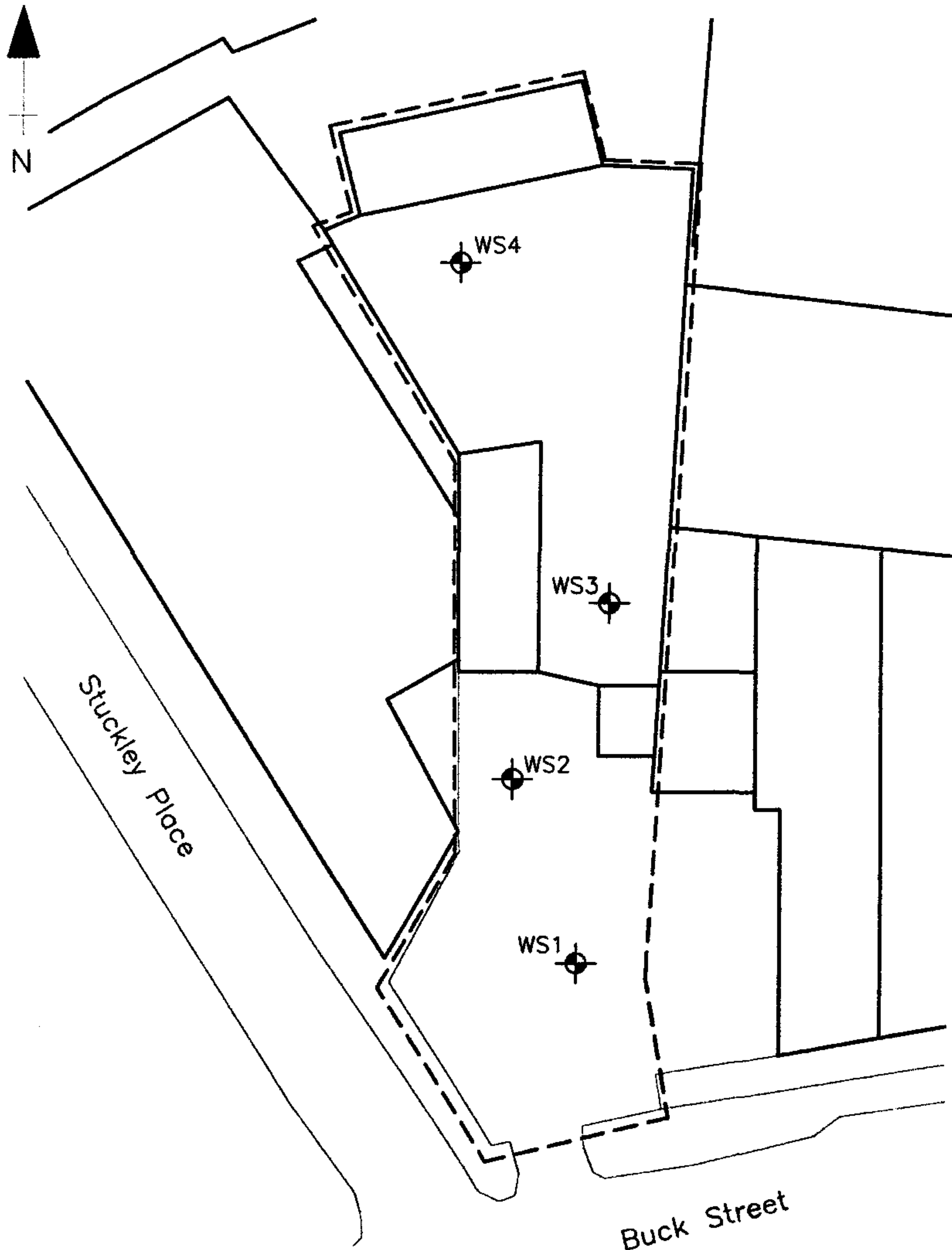
Sheet No. 2

Job No. 8368

Date Jan 2008

Buck Street. Camden Town

Existing Site Plan With Sample Locations



Not To Scale



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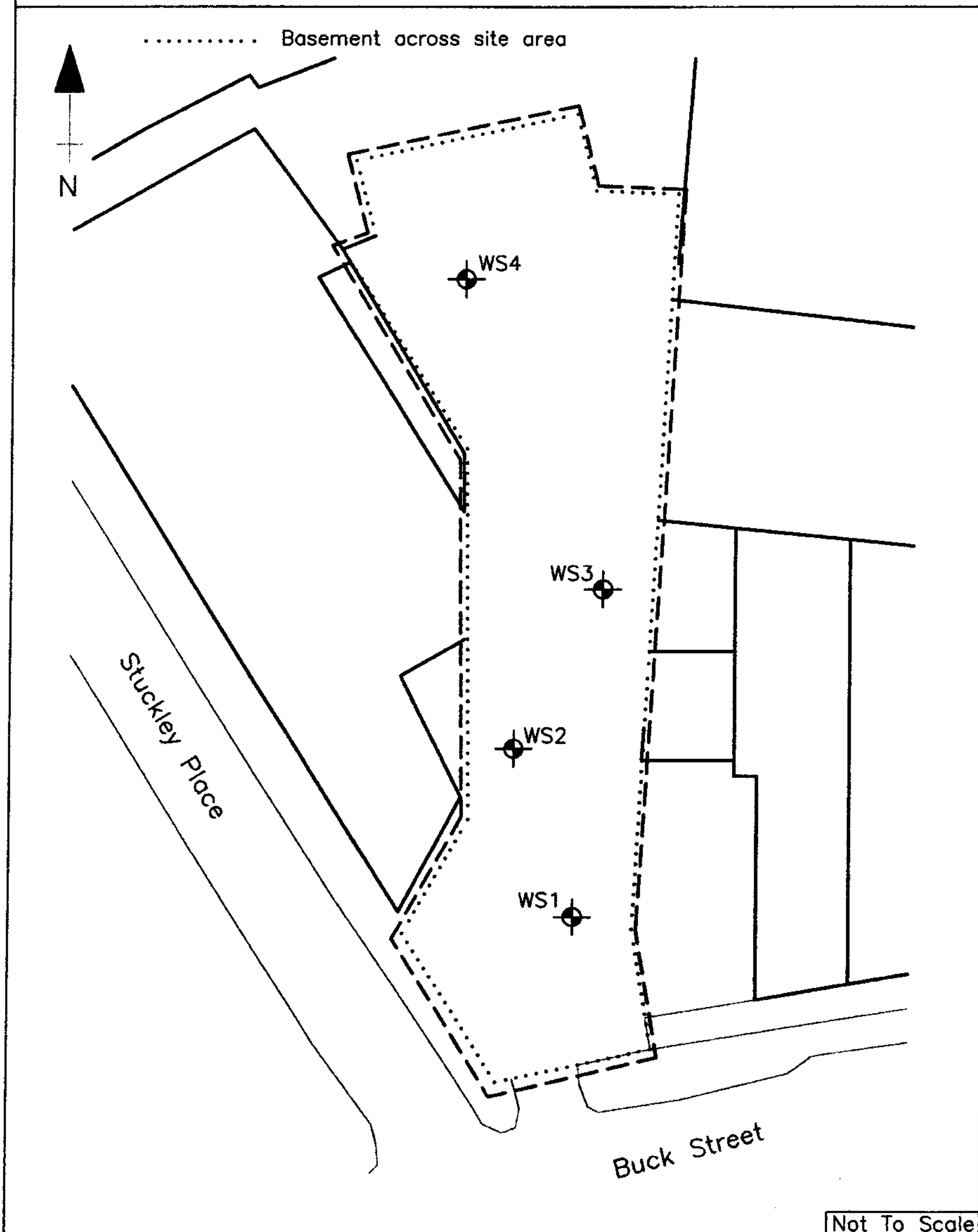
Sheet No. 3

Job No. 8368

Date Jan 2008

Buck Street. Camden Town

Proposed Site Plan – Offices with residential on upper floors





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Fax: Ware (01920) 822200

Appendix No. 1

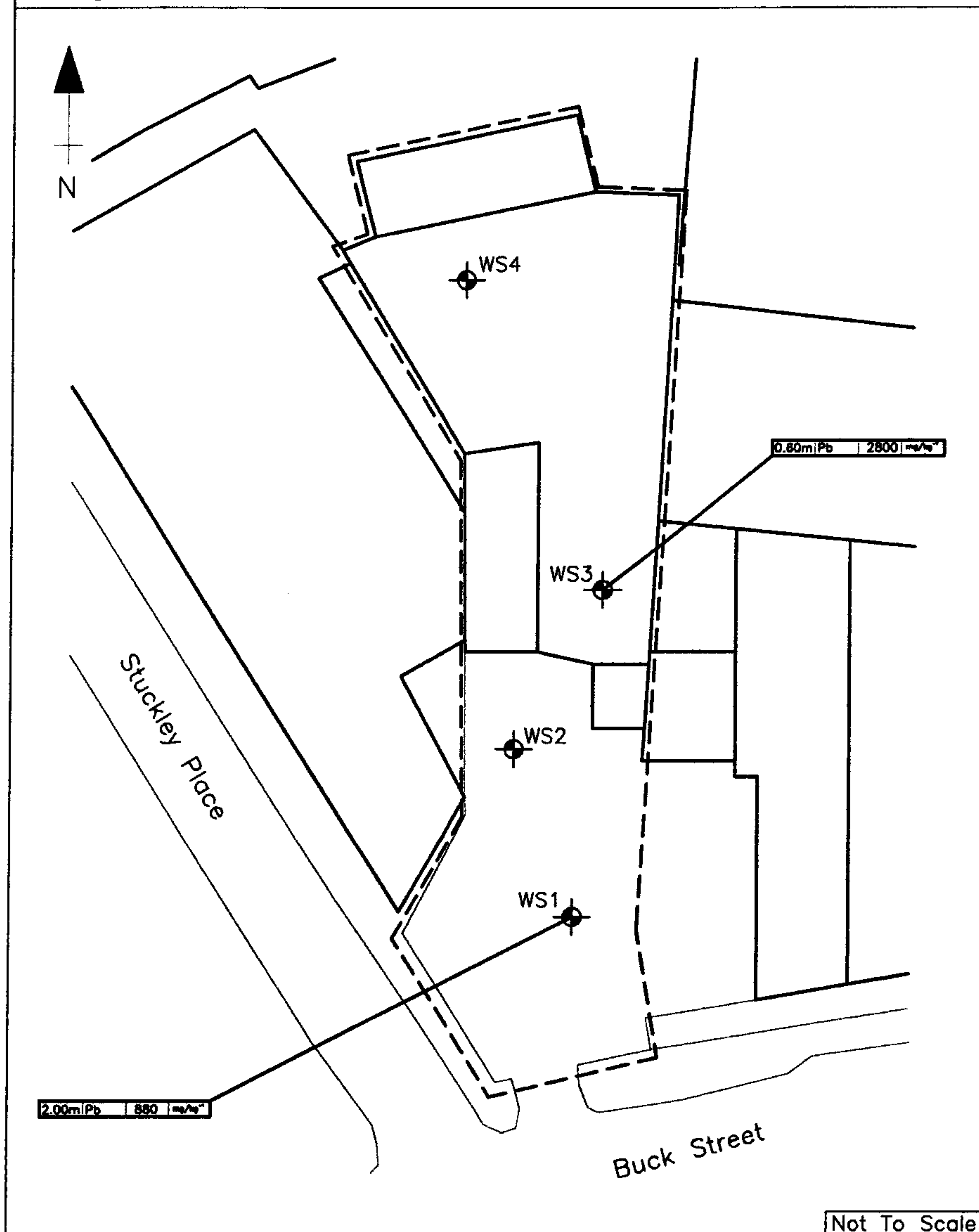
Sheet No. 4

Job No. 8368

Date Jan 2008

Buck Street. Camden Town

Existing Site Plan With Contamination Locations





# HERTS & ESSEX SITE INVESTIGATIONS

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Telephone: Ware (01920) 822233

Fax: Ware (01920) 822200

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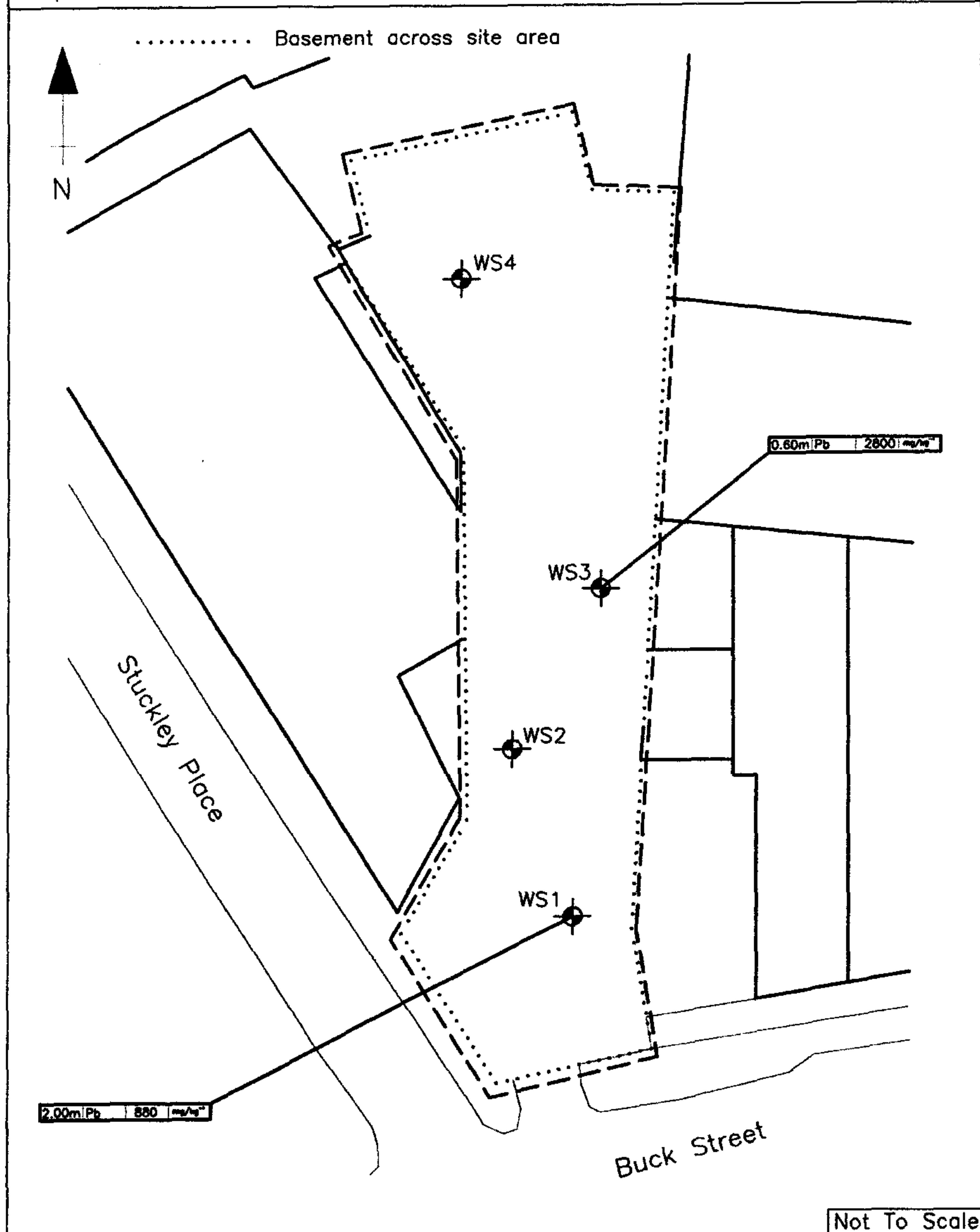
Sheet No. 5

Job No. 8368

Date Jan 2008

Buck Street. Camden Town

Proposed Site Plan with Contamination Location





# HERTS & ESSEX SITE INVESTIGATIONS

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 Fax: Ware (01920) 822200

Appendix No. 2  
 Sheet No. 1  
 Job No. 8368  
 Date Jan 2008

Buck Street, Camden Town

Window Sampler One

DEPTH BELOW G.L.	THICKNESS OF STRATA	DESCRIPTION OF STRATA	LEGEND	Installation installed	SAMPLES			WATER LEVELS	CASING LEVELS
					NO.	TYPE	DEPTH		
0.10	0.10	Tarmac		NONE INSTALLED	1	C	G.L.-1.00m		
		Loose sand and gravel fill, with red and white brick fragments and broken glass			2	U	1.00-2.00m N=5		1.00
	2.40				3	U	2.00-3.00m N=7	DRY	
2.50									
		Soft brown and grey CLAY			4	U	3.00-4.00m		
	1.20								
3.70		Firm orange brown CLAY							
4.00	0.50								
		Window sampler closed at 4.00m							

SCALE: 1:25

B BULK SAMPLE  
 D DISTURBED SAMPLE  
 U UNDISTURBED SAMPLE  
 V SHEAR VANE TEST (Kn/m<sup>2</sup>)



WATER STRUCK  
 WATER STANDING  
 WATER SAMPLE  
 SPT 'N' VALUE



# HERTS & ESSEX SITE INVESTIGATIONS

The Old Post Office, Wellpond Green, Standon, Ware, SG11 1NJ  
 Telephone: Ware (01920) 822233  
 Fax: Ware (01920) 822200

Appendix No. 2  
 Sheet No. 2  
 Job No. 8368  
 Date Jan 2008

Buck Street, Camden Town

Window Sampler Two

DEPTH BELOW G.L.	THICKNESS OF STRATA	DESCRIPTION OF STRATA	LEGEND	Installation installed	SAMPLES			WATER LEVELS	CASING LEVELS
					NO.	TYPE	DEPTH		
0.10	0.10	Turned		NONE INSTALLED	1	C	G.L.-1.00m		
	0.40	Loose termac and gravel Flt							
0.50									
	0.50	Soft brown and grey CLAY with brick fragments							
1.00					2	U	1.00-2.00m N=6		1.00
	1.30	Firm dark grey CLAY			3	U	2.00-3.00m		
2.80					4	U	3.00-4.00m		
	2.10	Firm to stiff orange brown CLAY			5	U	4.00-5.00m		
4.90								4.40	
5.00	0.10	Stiff light brown CLAY Window sampler closed at 5.00m							

SCALE: 1:25

B BULK SAMPLE  
 D DISTURBED SAMPLE  
 U UNDISTURBED SAMPLE  
 V SHEAR VANE TEST ( $K_n/m^2$ )



WATER STRUCK  
 WATER STANDING  
 WATER SAMPLE  
 SPT 'N' VALUE



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Telephone: Ware (01920) 822233  
Fax: Ware (01920) 822200

Appendix No.

Sheet No. 3

**Job No. 8368**

Date Jan 2008

Buck Street, Camden Town									
Window Sampler Three									
DEPTH BELOW G.L.	THICKNESS OF STRATA	DESCRIPTION OF STRATA	LEGEND	Installation installed	SAMPLES			WATER LEVELS	CASING LEVELS
					NO.	TYPE	DEPTH		
0.10	0.10	Concrete		NONE INSTALLED	1	U	G.L-1.00m		
	2.20	Loose concrete over brown clay FILL with red brick fragments over coarse gravel and bricks			2	U	1.00-2.00m		1.00
					3	U	2.00-3.00m		
2.30									
	0.70	Firm grey brown CLAY			4	U	3.00-4.00m		
3.00									
	1.0	Firm orange brown CLAY							
4.00									
		Window sampler closed at 4.00m							

SCALE: 1:25

B BULK SAMPLE

D DISTURBED SAMPLE

U UNDISTURBED SAMPLE

V SHEAR VANE TEST (Kn/m²)

W

N

WATER STRUCK

WATER STANDING

WATER SAMPLE

SPT 'N' VALUE



# HERTS & ESSEX SITE INVESTIGATIONS

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 Fax: Ware (01920) 822200

Appendix No. 2  
 Sheet No. 4  
 Job No. 8368  
 Date Jan 2008

Buck Street, Camden Town

Window Sampler Four

DEPTH BELOW G.L.	THICKNESS OF STRATA	DESCRIPTION OF STRATA	LEGEND	Installation installed	SAMPLES			WATER LEVELS	CASING LEVELS
					NO.	TYPE	DEPTH		
0.10	0.10	Concrete		NONE INSTALLED	1	C	G.L.-1.00m		
	1.40	Loose concrete over a brown clay Fill with red brick fragments			2	U	1.00-2.00m N=6		1.00
1.50									
	0.50	Soft dark grey CLAY			3	U	2.00-3.00m	DRY	
2.00					4	U	3.00-4.00m		
	3.00	Firm orange brown CLAY			5	U	4.00-5.00m		
5.00		Window sampler closed at 5.00m							

SCALE: 1:25

B BULK SAMPLE  
 D DISTURBED SAMPLE  
 U UNDISTURBED SAMPLE  
 V SHEAR VANE TEST (Kn/m<sup>2</sup>)



WATER STRUCK  
 WATER STANDING  
 WATER SAMPLE  
 SPT 'N' VALUE



Herts & Essex Site Investigations  
The Old Post Office  
Wellpond Green, Standon  
Ware, Hertfordshire  
SG11 1NJ

FAO Chris Gray

# LABORATORY TEST REPORT

Results of analysis of 8 samples  
received 29 January 2008

Site @ Bucks Street, Camden

# Chemtest

Report Date  
04 February 2008

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Depth

Matrix

SOP↓	Determinand↓	CAS No↓	Units↓	*	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2020	Electrical Conductivity (2:1)	EC	µS cm <sup>-1</sup>	U	980	2400	460	470	5500	1200	2200	630
2300	Cyanide (total)	57125	mg kg <sup>-1</sup>	M	< 0.5	0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5	< 0.5
2310	Cyanide (free)	57125	mg kg <sup>-1</sup>	M	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2320	Sulfide	18496258	mg kg <sup>-1</sup>	N	2.4	37.0	30.0	8.4	3.1	1.4	39.0	14.0
2610	Loss on ignition		%	N	5.11	9.86	6.61	6.47	10.7	4.11	4.9	12.5
2120	Boron (hot water soluble)	7440428	mg kg <sup>-1</sup>	U	1	1.9	1.6	0.8	2.9	1	1.2	1.6
	Sulfate (2:1 water soluble)	14808798	g l <sup>-1</sup>	M	0.46	0.7	0.11	0.05	0.78	0.67	0.93	0.11
2430	Sulfate (total)	14808798	%	U	0.84	0.78	0.54	0.13	2.06	0.62	1.31	0.57
2450	Arsenic	7440382	mg kg <sup>-1</sup>	M	17	19	12	9.2	39	8.3	15	14
	Cadmium	7440439	mg kg <sup>-1</sup>	M	<0.1	0.21	<0.1	<0.1	0.74	<0.1	0.11	<0.1
	Chromium	7440473	mg kg <sup>-1</sup>	U	32	32	45	55	36	24	19	32
	Copper	7440508	mg kg <sup>-1</sup>	M	29	70	40	24	160	19	300	86
	Mercury	7439976	mg kg <sup>-1</sup>	M	0.96	3.4	3.7	0.27	6.1	0.45	1.1	1.9
	Nickel	7440020	mg kg <sup>-1</sup>	M	26	25	31	32	35	17	27	23
	Lead	7439921	mg kg <sup>-1</sup>	M	420	880	240	11	2800	160	300	360
	Zinc	7440666	mg kg <sup>-1</sup>	M	360	310	67	69	540	66	170	97
2490	Chromium (hexavalent)	18540299	mg kg <sup>-1</sup>	N	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2675	TPH aliphatic >C5-C6		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aliphatic >C6-C8		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aliphatic >C8-C10		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aliphatic >C10-C12		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aliphatic >C12-C16		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aliphatic >C16-C21		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aliphatic >C21-C35		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aromatic >C5-C7		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aromatic >C7-C8		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aromatic >C8-C10		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aromatic >C10-C12		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aromatic >C12-C16		mg kg <sup>-1</sup>	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TPH aromatic >C16-C21		mg kg <sup>-1</sup>	N	<0.1	0.7	<0.1	<0.1	5.8	0.3	0.4	0.4

All tests undertaken between 31-Jan-2008 and 1-Feb-2008

\* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 2

Report sample ID range AC70790 to AC70797



Herts & Essex Site Investigations  
The Old Post Office  
Wellpond Green, Standon  
Ware, Hertfordshire  
SG11 1NJ

FAO Chris Gray

# LABORATORY TEST REPORT

Results of analysis of 8 samples  
received 29 January 2008

Site @ Bucks Street, Camden

# Chemtest

Report Date  
04 February 2008

90297

				AC70790	AC70791	AC70792	AC70793	AC70794	AC70795	AC70796	AC70797
				WS1	WS1	WS2	WS2	WS3	WS3	WS4	WS4
				0.50m	2.00m	0.90m	2.0m	0.60m	1.80m	0.50m	1.60m
				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2675	TPH aromatic >C21-C35	mg kg <sup>-1</sup>	N	3.1	6.1	<0.1	<0.1	17	4.4	2.1	1.9
	Total Petroleum Hydrocarbons	mg kg <sup>-1</sup>	N	<20	<20	<20	<20	23	<20	<20	<20
2700	Naphthalene	91203 mg kg <sup>-1</sup>	M	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	208968 mg kg <sup>-1</sup>	M	<0.1	0.2	0.1	<0.1	0.1	<0.1	<0.1	0.2
	Acenaphthene	83329 mg kg <sup>-1</sup>	M	<0.1	0.2	<0.1	<0.1	0.5	0.1	0.1	0.2
	Fluorene	86737 mg kg <sup>-1</sup>	M	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1
	Phenanthrene	85018 mg kg <sup>-1</sup>	M	0.1	1.2	0.2	<0.1	3.8	0.3	0.3	0.2
	Anthracene	120127 mg kg <sup>-1</sup>	M	<0.1	0.2	<0.1	<0.1	0.7	<0.1	<0.1	<0.1
	Fluoranthene	206440 mg kg <sup>-1</sup>	M	0.2	1.3	0.1	0.5	7.3	0.6	0.6	0.7
	Pyrene	129000 mg kg <sup>-1</sup>	M	0.2	1.1	0.1	0.3	6.2	0.5	0.5	0.5
	Benzo[a]anthracene	56553 mg kg <sup>-1</sup>	M	0.2	0.6	0.2	<0.1	3.4	0.4	0.3	0.3
	Chrysene	218019 mg kg <sup>-1</sup>	M	0.1	0.6	<0.1	<0.1	3.4	0.3	0.3	<0.1
	Benzo[b]fluoranthene	205992 mg kg <sup>-1</sup>	M	0.3	0.6	0.2	<0.1	3.4	0.3	0.4	0.1
	Benzo[k]fluoranthene	207089 mg kg <sup>-1</sup>	M	0.2	0.4	0.1	<0.1	2.1	0.2	0.2	0.1
	Benzo[a]pyrene	50328 mg kg <sup>-1</sup>	M	0.3	0.9	0.2	<0.1	3.5	0.2	0.3	0.2
	Dibenzo[a,h]anthracene	53703 mg kg <sup>-1</sup>	M	0.3	0.2	0.2	<0.1	0.6	0.1	<0.1	0.3
	Indeno[1,2,3-cd]pyrene	193395 mg kg <sup>-1</sup>	M	0.4	0.5	0.2	<0.1	2.5	0.2	0.3	0.1
	Benzo[g,h,i]perylene	191242 mg kg <sup>-1</sup>	M	<0.1	0.6	<0.1	<0.1	2.2	0.2	0.3	0.1
	Total (of 16) PAHs	mg kg <sup>-1</sup>	M	2.3	9.2	<2	<2	40	3.4	3.6	3
2810	PCBs as Aroclor 1254	53469219 mg kg <sup>-1</sup>	M					<1		<1	
2920	Phenols (total)	mg kg <sup>-1</sup>	M	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2010	pH	-	M	9.3	8.0	8.1	7.8	9.3	10.9	8.4	7.9
2030	Moisture	%	n/a	7.45	15.2	18.6	18	11.9	9.28	6.28	19.1
	Stone content (as received)	%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour		n/a	brown	brown	brown	grey	brown	brown	brown	grey
	Soil texture		n/a	sand	clay	clay	clay	sand	sand	sand	clay
	Other material		n/a	stones	stones brick	none	none	stones	stones brick	stones	none
2186	Asbestos (presence/absence)	-	N	not detected	not detected	not detected	not detected	not detected	not detected	not detected	not detected

All tests undertaken between 31-Jan-2008 and 1-Feb-2008

\* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 2 of 2

Report sample ID range AC70790 to AC70797



40328

40828 **Chemtest**

Client	HESI	Order No.	8568	Quote No.	3 Day
Address	8 USUAL	Turnaround Required (Working Days)			<div>3*</div> <div>5*</div> <div>7</div> <div>10</div>
Site Location	Site @ Bucks STREET, CAMDEN				
Report FAO	Chris Gray	* by prior arrangement			

[illegible]

COMMENTS 3 day turn around please

**to arrange collection telephone 01638 606070**

Samples relinquished by	name	of	date	page
Samples received by	name	of	date	of

**collect – process – analyse – validate – report**