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Radlett 500 Radlett Road Estate Colney Street St Albans



Archaeological Evaluation Report



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Radlett 500, Radlett Road Estate, Colney Street, St Albans

ARCHAEOLOGICAL EVALUATION

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SUMMARY

Oxford Archaeology (OA) undertook a field evaluation at Radlett 500, Colney Street, St Albans on behalf of Bilton plc. The evaluation revealed no archaeological deposits.

1 Introduction

1.1 Location and scope of work

- 1.1.1 In October 2008 OA undertook a field evaluation at Radlett 500, Colney Street, St Albans (Fig. 1) on behalf of Bilton plc (part of the SEGRO). A Specification was produced by SEGRO following the guidelines for an archaeological evaluation as published by the Greater London Archaeological Advisory Service (GLAAS). A Written Scheme of Investigation (WSI) was produced by OA (2008) in accordance with the specification and agreed with the District Archaeologist prior to commencing the site investigation. This investigation was designed to inform the planning application pre determination.
- 1.1.2 The development site is centred upon NGR TL 156 019 to the south of the M25 and north of Radlett. The Radlett Phase 500 area comprises 1.97 hectares and is currently utilised as an industrial works estate on the eastern side of Watling Street/Radlett Road (the A5183). Adjacent to the southwestern boundary of the application area is a cleared site, also in the ownership of Bilton plc. During the evaluation this area was partly occupied by site offices for the construction of Phase 400 and does not form part of this development application.

1.2 Geology and topography

- 1.2.1 The site slopes down from the north to south and the River Colne. The location of the evaluation trenches has a change of slope of approximately 2.5 m from c. 70.5 m to c. 68.0 m above Ordnance Datum (aOD).
- 1.2.2 The geology of the site is Glacial Gravel overlying Upper Chalk.

1.3 Archaeological and historical background

1.3.1 There have been no previous archaeological investigations at the proposed redevelopment site of Radlett Phase 500. However, this does lie within the boundary of site AS.R.37 (Policy 111) defined within the St Albans District Plan (Chapter 14, p166) which has recorded finds from the Palaeolithic-Saxon periods, and also includes the medieval village of Hansteads. Approximately 500 m to the southeast is the known Roman Kiln site at Houndswood (A.S.R.41).

1.4 Acknowledgements

1.4.1 Oxford Archaeology would like to thank the district archaeologist, Simon West, for the approval of the works and monitoring at short notice and Leon Reid of Fitzpatrick Contractors Limited for his co-operation during the course of the fieldwork.

2 EVALUATION AIMS

- 2.1.1 The investigation was aimed at establishing the archaeological potential of the site prior to redevelopment. To achieve this the general objectives were:
 - to establish the presence/absence of archaeological remains within the proposal area,
 - to determine and confirm the character of any remains present, without compromising any deposits that may merit detailed investigation under full area excavation,
 - to determine or estimate the date range of any remains from artefacts or otherwise,
 - to characterise any underlying archaeological strata down to undisturbed geology without significantly impacting upon significant younger (overlying) deposits where possible,
 - to determine the geo-archaeological and palaeo-environmental potential of any archaeological deposits encountered,
 - to establish what archaeological remains/deposits may be affected by any proposed development,
 - to make available the results of the investigation to inform the planning application and the potential for any further mitigation strategy.

3 EVALUATION METHODOLOGY

3.1 Scope of fieldwork

3.1.1 The evaluation comprised three trenches each measuring 15 m x 2 m (Fig. 2). Due to the constraints of currently available open areas to conduct this evaluation, Trench 2 was positioned within the southwestern part of the site that lies outside of this development application boundary. The overburden (non archaeological deposits) was removed to reveal the top of the underlying geology under close archaeological supervision by a mechanical excavator fitted with a toothless bucket.

3.2 Fieldwork methods and recording

3.2.1 All deposits were issued with unique context numbers, and context recording was carried out in accordance with established OA practice (Wilkinson 1992) and the Institute of Field Archaeologist's *Standards and Guidance for Archaeological Evaluations*, 1999. The stratigraphy of each trench was recorded even where no archaeological deposits were identified.

- 3.2.2 Black-and-white negative and digital photographs were taken during the works. Site plans were drawn at an appropriate scale. Section drawings of sample sections of stratigraphy were drawn at a scale of 1:20.
- 3.2.3 Due to their excavated depths, Trenches 1 and 2 were recorded from the surface only.
- **3.3 Finds**
- 3.3.1 No finds were encountered during the course of the evaluation.
- 4 RESULTS: GENERAL
- 4.1 Soils and ground conditions
- 4.1.1 The site is located on an industrial estate, the majority of which comprises standing structures and tarmac surfacing with small areas of rough vegetation.
- 4.1.2 The southern part of the site adjacent to the River Colne has been built up to form the terrace on which the estate is partly located.
- 4.1.3 Trenches 1 and 2 were excavated through the rough vegetation on the made ground adjacent to the river. Trench 3 was excavated through a tarmac surface car park adjacent to the eastern side of Radlett Road.
- 4.1.4 Geotechnical investigation at the site by WSP (2008) had previously investigated the soil sequence and identified the geological deposits of Upper Chalk, encountered approximately 10.80 m below ground level (bgl), overlain by Lower Glacial Gravels 2.10-8.40 m bgl, overlain by Cohesive Glacial Till 0.1.-4.75 m bgl, overlain by Upper Glacial Gravels 0.10-0.50 m bgl and modern Hardstanding and Made Ground 0.00-0.03 m bgl. The geotechnical investigation locations, plots and borehole logs has been included as Appendix 4 within this report.
- 4.2 Distribution of archaeological deposits
- 4.2.1 No archaeological deposits were identified during the course of the evaluation.
- 5 **RESULTS: DESCRIPTIONS**
- 5.1 **Description of deposits**

Trench 1 (Fig. 3 section 101)

5.1.1 The underlying natural in Trench 1 comprised a light orange-brown clay with gravel inclusions (101) that equates to the Cohesive Glacial Till defined in the geotechnical investigation. The surface of this deposit was noted at 63.25 m aOD. This was overlain by a light brownish grey clay with gravel inclusions (102) encountered at 63.65 m aOD. This may represent a buried topsoil and was overlain by a series of modern made ground deposits (103 to 107) totalling 1.53 m thick The made ground

deposits comprised various quantities of brick, clay and sand. These deposits raised the ground level up to an average height of 65.08 m aOD.

Trench 2 (Fig. 3 section 201)

5.1.2 The underlying natural in Trench 2 comprised a mixed dark grey to brown clay with gravel inclusions (201). This was encountered at 62.30 m aOD and represents the surface of the Cohesive Glacial Till deposit. This was overlain by a deposit of sterile brown clay (207). A series of modern make up deposits with gravel and brick inclusions (202 to 206) totalling 2.36 m thick levelled the surface area of the trench to an average height of 64.95 m aOD.

Trench 3 (Fig. 3 section 301)

5.1.3 The underlying natural in Trench 3 comprised a mid orange brown clay with gravel and chalk inclusions (301). This was encountered at a depth of 68.27 m aOD and represents the Cohesive Glacial Till. This was overlain by a layer of modern compacted made ground (303) and capped with a 0.10 m thick tarmac surface (302). The surface level of the trench sloped down north to south from 69.30 m to 68.50 m aOD. A 1.90 m deep test pit was machine excavated at the southern end of the trench into the Cohesive Glacial Till.

6 DISCUSSION AND INTERPRETATION

6.1 Reliability of field investigation

6.1.1 The trenches excavated represent less than 1% of the overall development area and should therefore be only viewed as a indicative representation for the archaeological potential for the site as a whole. However, conclusive (negative) results were recorded for each trench and no mitigating factors were encountered that would otherwise give reason to doubt the results.

6.2 **Overall interpretation**

Summary of results

6.2.1 Each excavated trench clearly encountered the Cohesive Glacial Till that overlies the Lower Gravel deposit within the Colne Valley. No archaeological deposits or features were encountered within any of the trenches and the development area had clearly been subject to significant landscaping, probably as part of the original development of the estate. The southern boundary of the site has up to 2.50 m of made ground present. These deposits are likely to have derived from the excavation of foundations and/or grading during the original development of the site. It is also clear that originally the ground level sloped to both the south and the west with the lowest point being at the junction between Watling Street and the River Colne and the hillside having a much sharper slope. This corner of the site lies outside of the current redevelopment plans.

APPENDICES

APPENDIX 1 ARCHAEOLOGICAL CONTEXT INVENTORY

Trench	Ctxt No	Туре	Thick. (m)	Comment	Date
001	•	•	<u>.</u>	•	
	101	Layer		Natural	
	102	Layer	0.40	Buried Topsoil	
	103	Layer	0.50	Made Ground	Modern
	104	Layer	0.18	Made Ground	Modern
	105	Layer	0.20	Made Ground	Modern
	106	Layer	0.30	Made Ground	Modern
	107	Layer	0.35	Made Ground	Modern
002			<u>.</u>		
	201	Layer		Alluvium	
	202	Layer	0.25	Silt	
	203	Layer	0.20	Made Ground	Modern
	204	Layer	0.46	Made Ground	Modern
	205	Layer	0.50	Made Ground	Modern
	206	Layer	0.40	Made Ground	Modern
	207	Layer	0.80	Made Ground	
003	•		•	•	
	301	Layer		Natural	
	302	Layer	0.10	Tarmac	Modern
	303	Layer	0.17	Made Ground	Modern
	304	Layer	0.11	Made Ground	Modern

APPENDIX 2 BIBLIOGRAPHY

IFA, 1999	Institute of Field Archaeologists Standards and Guidance for Archaeological Evaluation (1999)
OA, 2008	Radlett 500, Radlett Road Estate, St Albans, Hertfordshire. Written Scheme of Investigation for an Archaeological Evaluation.
Wilkinson, D, 1992	OA Fieldwork Manual
WSP, 2008	Phase I Geo-Environmental Assessment. Phase 500, Colney Street, Radlett Road, Radlett

APPENDIX 3 SUMMARY OF SITE DETAILS

Site name: Radlett 500, Radlett Road Estate, Colney Street, St Albans

Site code: SARAD08

Grid reference: TL 156 019

Type of evaluation: Three 15 m x 2 m trenches

Date and duration of project: 1st to 3rd October 2008

Area of site: 2.19 ha

Summary of results: No archaeology was identified during the course of the evaluation.

Location of archive: The archive is currently held at OA, Janus House, Osney Mead, Oxford, OX2 0ES, and will be deposited with Hertfordshire County Museums Service in due course.

APPENDIX 4 GEOTECHNICAL DATA

After WSP 2008

Table 6.1 Summary of Ground Conditions

Stratum Description	Typical Thickness (m)	Depth to Top of Strata (m bgl)	SPT 'N' Values (Extrapol ated)	Exploratory Holes in which strata encountered
Hardstanding*: Concrete and Tarmac hardstanding.	0.05 – 0.50	0.00	N/A	All (Except TP120)
Made Ground*: Orange brown slightly clayey sandy gravel.	0.10 - 2.26 (where proven)	0.00 - 0.30	10 – 11	All trial pits (except TP113 and TP114) and BH208.
Upper Glacial Gravels: Orange brown slightly clayey sandy gravel.	0.45 – 4.45 (where proven)	0.10 - 0.50	11 – 158	BH203 – BH205 and BH207. All trial pits except TP101 – TP103, TP105 and TP115.
Cohesive Glacial Till: Firm to stiff grey/ dark brown slightly gravelly clay.	1.60 - 5.80 (where proven).	0.10 – 4.75	8 – 27	All Boreholes. All trial pits except TP105, TP106 – TP108, TP113, TP114, TP116 – TP120.
Lower Glacial Gravels: Orange brown slightly clayey sandy gravel.	6.40 - 7.05 (where proven)	2.10 - 8.40	12 – 103	All Boreholes. TP101 – TP103.
Upper Chalk: Recovered as: Structureless chalk composed of slightly gravely silt.	ND	10.80	10 – 12	BH203 and BH206.

ND Not determined
* Where present

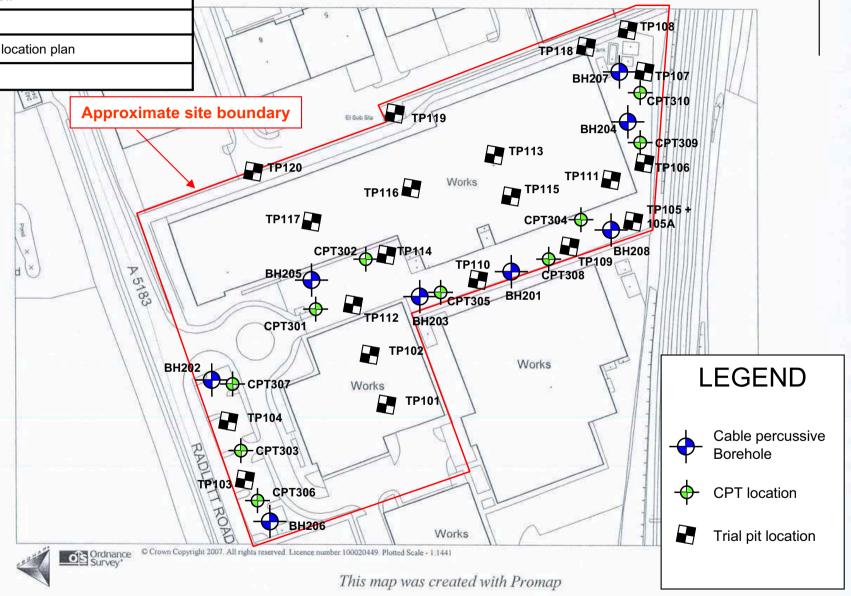


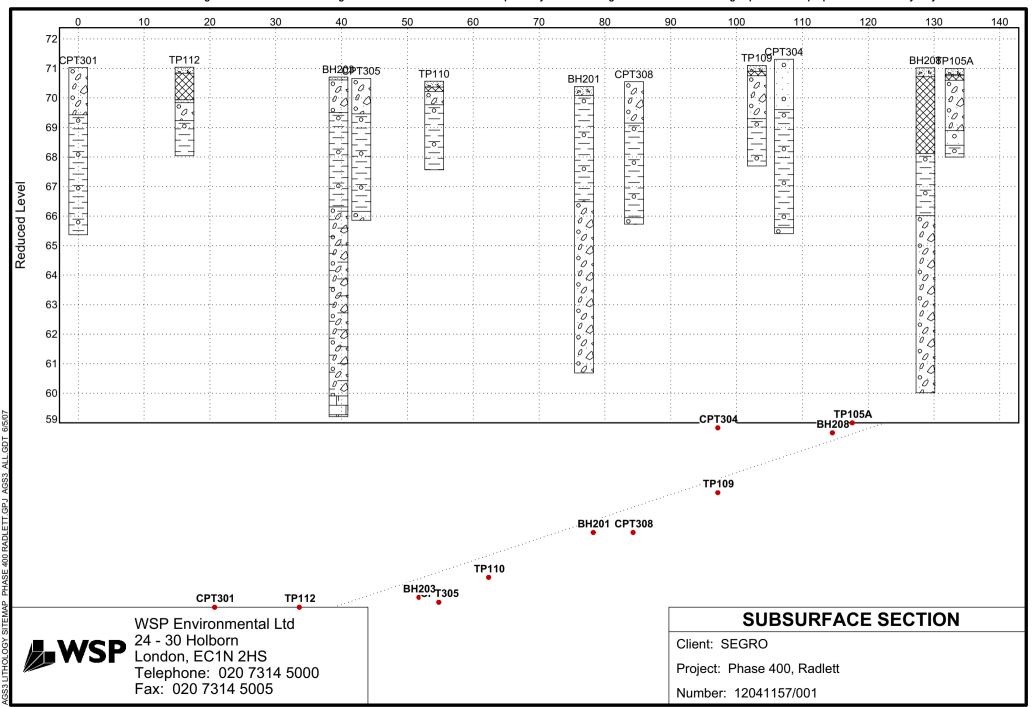
Site: Phase 400, Radlett

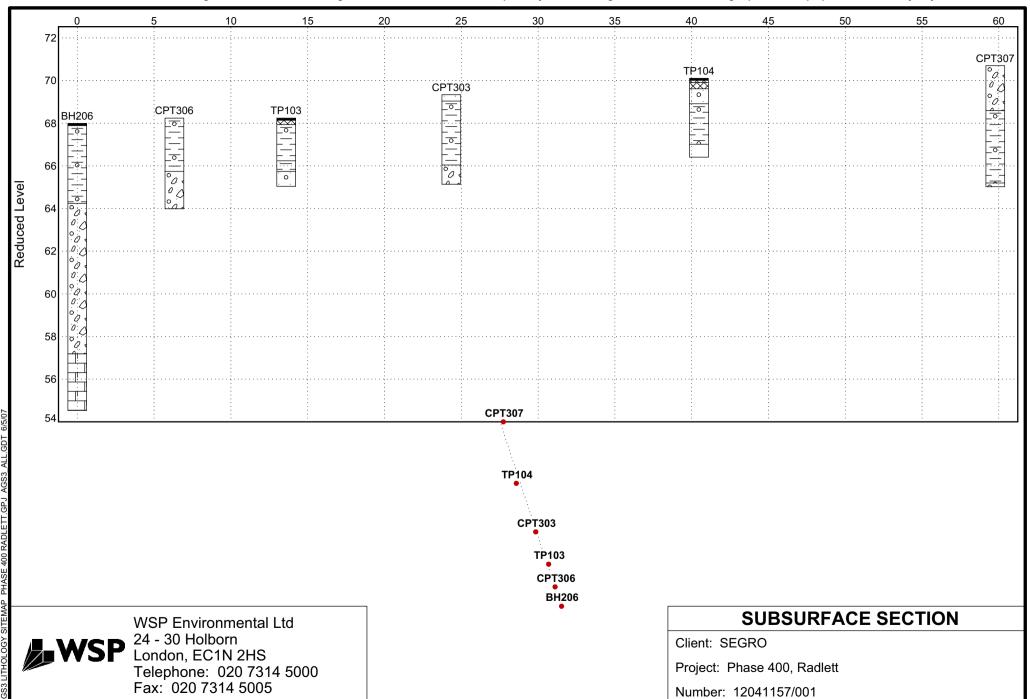
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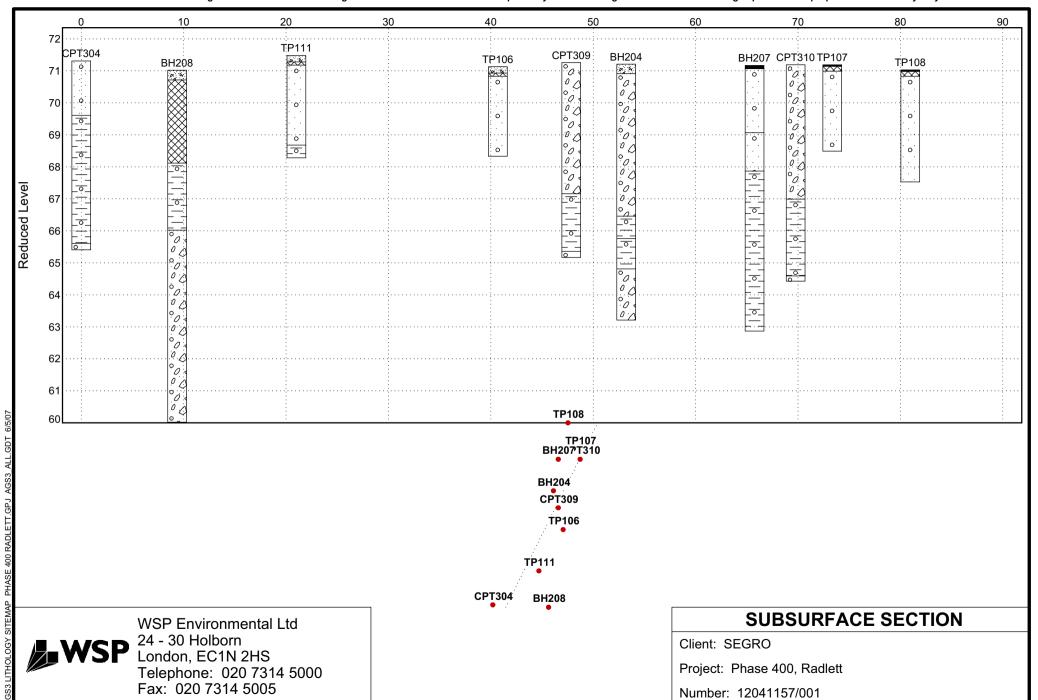
Title: Exploratory hole location plan

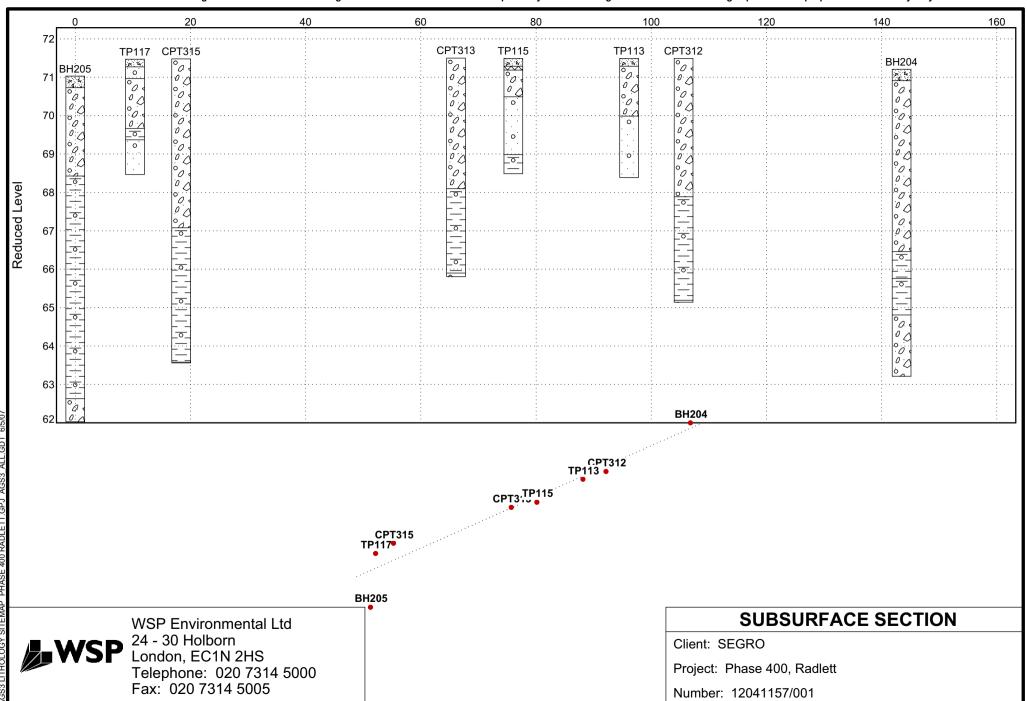
Scale: Not to scale













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				o firm yellow orange a					2.20	O D			
	2.50-3.20 		Orani coars	ge brown very gravell ee flint.	y SAND. Grav	vel is angula	r to rounded fine to		2.70	D B			
	- - - - - - - - - - - - - - - - - - -												
	oring/Supporability:	t:									SENER/ REMARI		
D	-	A		B J									
	All dimensions Scale 1:3		tres	Contractor		Metho Plant				Logged	By MAE		



Project						TI	RIAL PIT No	
Phase 400, Ra	adlett						TD404	
Job No	Date 24-04-07	Ground L	Ground Level (m) Co-Ordinates ()				TP104	
12041157/001	24-04-07							
Supervising Engineer	•	•	Client			Shee	et	
Mark Emersor	ı		SEGRO				1 of 1	
► Donth					0.4.1	ם ב	LICV	

Mark Emers Depth (thickness) No		SEGRO				1 of '	1
Depth (thickness) No	0.70 4.74						
® (thickness) No	STRATA			SAMPL	ES	Н	SV
	DI	ESCRIPTION	Legend	Depth	No	Depth	Resu
0.00-0.10 0.10-0.20 0.20-0.50 (0.30)	Tarmac hardstanding. MADE GORUND: Light brown slightly of subrounded fine to coarse GRAVEL of land concrete. Occasional cobble of brid	f brick, flint, quartzite, tarmac ck. (Subbase) /		0.10	ES ES		
	MADE GROUND: Firm dark brown more Gravel is angular to subrounded fine to Organic odour and appearance. Orange brown clayey gravelly SAND. Of fine to coarse flint and quartzite. Firm becoming stiffer with depth dark be slightly gravelly CLAY. Gravel is angular chalk and flint.	titled black sandy gravelly CLAY. coarse flint, quartzite and brick. Gravel is angular to subrounded rown mottled grey slightly sandy ar to rounded fine to coarse		0.30 1.50	ES D		
- (0.60) 							
Shoring/Support: Stability: A	-					ENERA EMARK	
C All dimensions in mel	tres Contractor	Method/ Plant Used		Lo	ogged I	By MAE	



Supervising Engineer Segro Strata Samples Samp	of 1 HSV epth Result
12041157/001 24-04-07 Supervising Engineer Mark Emerson Client SEGRO 1 Depth (thickness) No DESCRIPTION Legend Depth No Dep	HSV
Mark Emerson SEGRO 1 Depth (thickness) No DESCRIPTION Legend Depth No D	HSV
Depth (thickness) No DESCRIPTION Legend Depth No Depth	HSV
	epth Result
0.20-0.50 MADE GROUND: Brown clayey sandy GRAVEL. Gravel is angular to subrounded fine to coarse brick, concrete, clinker and quartzite.	
Metal pipe, hole terminated.	
	1
Shoring/Support: GEN Stability: REM	NERAL MARKS
Pal	
A T	
<u>V</u>	
Shoring/Support: Stability: A D All dimensions in metres Scale 1:30.3 Contractor Method/ Plant Used Logged By N	ИAE



Pro	oject	400	Dadi	-11						TF	RIAL PI	T No
	Phase 6 No 12041157/			ett 26-04-07 26-04-07	Ground L	_evel (m)	Co-Ordinates ()			•	TP10	5A
Su	pervising En	gine	er			Client				Shee	et	
	Mark E	mers	son			SEGRO					1 of	1
Water	Depth (thickness)				STRATA				SAM	PLES	H	SV
Š		No	Doint	forced concrete bards		ESCRIPTION	1	Legend	Dept	h No	Depth	Resu
	_0.00-0.20			forced concrete hards								
	0.20-0.25 0.25-0.40		MAD	E GROUND: Woode E GROUND: Black a	nd brown sa	ndy gravelly	CLAY. Gravel is					
	_0.40-2.10		\Occa	lar to subrounded fin- sional cobble of brick	and concret	te.		000000				
	F		GRA'	ge brown very sandy VEL of flint and quart	zite. Becomi	to rounded fil ng increasing	ne to coarse yly sandy with					
	F		deptr	n. Occasional cobble	of flint.			000000				
	F							000000				
	(1.70)							000000				
	L							0 0 0 0 0				
	-							000000				
	F							0 0 0 0 0				
	L							0.0000				
	2.10-2.60		Oran	ge brown gravelly SA	ND. Gravel	is angular to	subrounded fine to	0 0				
	(0.50)		coars	se flint and quartzite.								
	F											
	2.60-3.00		Stiff (grey mottled black an Y. Gravel is angular to	d brown sligi o subrounded	htly sandy, sl d fine to med	ightly gravelly ium chalk and flint.					
	(0.40)			ŭ								
	_											
	_											
	L											
	-											
	F											
	<u> </u>											
	L											
	F											
	F											
	F											
Sh	oring/Suppor	t:						_ !		G	ENERA	AL
	ability:										EMAR	
	 			──								
_		Α_		T								
D				B <u>*</u>								
		С								_		
	All dimensions		tres	Contractor		Meth	od/ Used			Logged	By	
	Scale 1:3	0.3				Piant	Oseu				MAE	



Phase 400, Radlett	oject								TF	RIAL PI	T No
12041157/001 25-04-07 25-04	Phase	400,	Radlett							TD40	16
12041157/001 25-04-07	b No		Date 25-04-07	Ground L	_evel (m)	Co-Ordinates ()				IPI	0
Depth (thickness) No DESCRIPTION Legend Depth No Depth Res			25-04-07								
Depth (thickness) No DESCRIPTION Legend Depth No Depth Res		-							Shee		
		mers	son		OLONO					1 of	1
	Depth (thickness)			STRATA					ES		SV
MADE GROUND: Orange brown and grey very sandy angular to subrounded fine to coarse GRAVEL of flint and brick. Orange brown slightly clayey gravelly SAND. Gravel is angular to subrounded fine to coarse flint. Occasional soft sandy clay horizons with grey mottling. Wet from 1.0 mbgl.	_	No	On a sector boundation discon	D	ESCRIPTION		Legend	Depth	No	Depth	Res
	0.20-0.30 0.30-2.80		\subrounded fine to coarse Orange brown slightly clay subrounded fine to coarse	GRAVEL of ey gravelly s flint. Occasi	flint and brick. SAND. Gravel is	s angular to					
	- - - - - - - - - - - - - - - - - - -										

WSP GROUP.GDT 29/5	- - - - - -						
DLETT.GP.	Shoring/Support: Stability:					ENERA EMARK	
LOG (NO BOX) PHASE 400 RADLETT.GPJ	A D C	B					
WSP TP	All dimensions in metres Scale 1:30.3	Contractor	Method/ Plant Used	Lo	gged E	MAE	



TRIAL DITLOG

		ux. 0.	20 / 3 14 ;		117	IAL PI	LUG					
Pro	oject									TF	RIAL PI	T No
	Phase	400,									TP10)7
Jo	b No		Dat	25-04-07	Ground L	evel (m)	Co-Ordinates ()					•
0.	12041157 upervising En		<u> </u>	25-04-07		Client				Shee	.+	
30		-				SEGRO				Silee		1
	Mark E	mers	on								1 of	
Water	Depth (thickness)			S	TRATA				SAM			SV
>		No	Tormo	o hardstanding	DI	ESCRIPTION		Legend	Depth	n No	Depth	Result
	0.00-0.05		MADE	<u>c hardstanding.</u> GROUND: Brown sli	ghtly clayey	sandy angula	to rounded fine		0.10	ES		
	_0.20-2.70		to coars	se GRAVEL of concr brown slightly claye	ete, brick, f v verv grav	<u>lint and quartzi</u> elly SAND. Gra	e. vel is angular to	[. • •]				
			subrou	nded fine to coarse fl et from 1.0 mbgl.	int and qua	ırtzite. Occasio	nal cobbles of					
	-		illit. VV	et nom 1.0 mbgi.								
	L							0 0 .				
	-											
	_							0				
	-							. · . · a · . · . · a	1.10	В		
	(0.50)											
	(2.50)											
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07	_											
29/5/	-											
GDT	F											
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P. GR	F											
8 L												
Sh	oring/Suppor	t:									ENERA	
Sta	ability:										EMAR	
00 RA												
SE 4(→								
PHA		Α		□ •								
(X) C				В								
ONO		С		★								
WSP TP LOG (NO BOX) PHASE 400 RADLETT.GPJ WSP GROUP.GDT 29/5/07												
SP TF	All dimensions Scale 1:3		res C	Contractor		Method Plant U			Ţ	Logged	By MAE	
≶∟	Jodie 1.c					1					IVI/	



	•	un. or	20 70 11 0000	111		LUG					
Pro	ject								TF	RIAL PI	ΓΝο
	Phase 4	100, I	Radlett							TP10	0
Job	No		Date 25-04-07	Ground L	evel (m)	Co-Ordinates ()				IFIU	0
	12041157/	001	25-04-07								
Supervising Engineer					Client				Shee	t	
Mark Emerson					SEGRO					1 of '	1
Water	Depth (thickness)		5	STRATA				SAMPL	.ES	Н	SV
W	(unchiess)	No		DE	DESCRIPTION Legend Depth No Depth F					Result	

No	STRATA DE Tarmac hardstanding. MADE GROUND: Brown slightly clayey to coarse GRAVEL of concrete, brick, fli Orange brown slightly clayey gravelly S/subrounded fine to coarse flint and quar pockets of soft brown orange brown mot 1.0 mbgl.	nt and quartzite. AND. Gravel is angular to tzite. Occasional cobble size	Legend	1.50	No ES ES	Depth	Resul
	Tarmac hardstanding. MADE GROUND: Brown slightly clayey to coarse GRAVEL of concrete, brick, fli Orange brown slightly clayey gravelly So subrounded fine to coarse flint and quar pockets of soft brown orange brown mot	sandy angular to rounded fine nt and quartzite. AND. Gravel is angular to tzite. Occasional cobble size		0.10	ES	Бори	
				1.50	В		
				I			
rt:	B ***						
	C in me	 A B ↓	A B C Method/	A B C C In metres Contractor Method/	A B C C Method/ Lo	A B C C Method/ Logged	REMARK A C C In metres Contractor Method/ Logged By



Pro	oject									TI	RIAL PI	T No
Joh	Phase No	400,		Data	Ground L	evel (m)	Co-Ordinates ()				TP10)9
	12041157 <i>/</i>	/001		25-04-07 25-04-07	Cround	over (III)	Go Granates ()					
Su	pervising Er	ginee	er			Client				Shee	et	
	Mark E	mers	on			SEGRO					1 of	1
Water	Depth (thickness)				STRATA					PLES		SV
<u>></u>	0.00-0.20	No	Rein	forced concrete hards		ESCRIPTION	l .	Legend	Dept	th No	Depth	Result
				E GORUND: Brown s		v sandy CDA	VEL Gravelis		0.20) ES		
	0.20-0.35		angu brick	ılar to subrounded fine	e to coarse fl	int, quartzite,	concrete and rare	/°0=°0=°0	0.20	, 53		
	_		Brow	vn / orange brown loca vel is angular to subro	unded fine to	ayey very sa coarse flint	ndy GRAVEL. and quartzite.	000000				
	F		Occa	asional cobbles of flint				000000				
	<u> </u>							000000	4.00	.		
	(1.45)							000000	1.00	ES		
	-							000000				
	F							000000	1.50) В		
	Ė							000000	1.00			
	_1.80-3.40		Stiff	brown mottled grey sl	ightly sandy	gravelly CLA	Y. Gravel is					
	subangular to subrounded fine to medium chalk and flint.											
									2.20) D		
	- - -											
	(1.60)											
	-											
	F											
	Ė											
									3.40) D		
	-											
	F											
	L											
	-											
	F											
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	_											
Sh	oring/Suppor	rt·									ENER/	Δ1
	ability:										EMAR	
	T.			. 1								
		Α										
D				B								
_		С										
_	All dimensions		tros	Contractor		Metho	od/			Logged	Bv	
,	Scale 1:3	30.3	69				Used			- 3304	MAE	



							\ <u> </u>		LOG					
Pro	ject											TF	RIAL PI	T No
	Phase			ate 25-04-07		Ground L	evel (m)		Co-Ordinates ()				TP11	10
	12041157/ pervising En		r	25-04-07			Client					Shee	st.	
Ju	Mark E	-					SEGR	0				Silec	1 of	1
_	Depth		-			TDATA					C A B 41	J. F.O.	ı	<u>'</u> SV
Water	(thickness)	No			3	TRATA	ESCRIPTION	ON		Legend	SAMI Depth		Depth	Result
 	0.00-0.20	140	Reinf	orced concrete	hardstr		200111111	011		Legend	Всри	1 110	Верит	rtoodit
	_0.20-0.35		MADI	E GROUND: Gr	ev brov	vn sandv a	ngular to s	ubrou	unded fine to					
	-0.35-0.80		coars	se GRAVEL of c ge brown slightl	oncrete	. brick. flint	and quar	tzite.		0-0-0	0.30	ES		
	(0.45)		coars	se GRAVEL of fl ft ornage brown	int and	quartzite.	Occasional	l cobb	le size pockets	000000	0.50	ES		
	<u> </u>		01 501	it omage brown	mottlet	a grey sand	iy ciay.			000000				
	_0.80-3.00		Firm	(becoming stiff	at 1.5 m	nbgl) locally	friable da	rk bro	own mottled grey subrounded fine					
	_		to me	edium chalk and	flint.	i. Giavei is	Subarigui	iai iu i	subrourided line					
	_										1.20	D		
	_									<u> </u>	0			
	_									<u> </u>				
	- - (2.20)													
	_									<u> </u>	2.40	D		
	_													
	_													
	_													
	_													
	-													
	_													
5	_													
76/67	_													
3	_													
Ž 2														
Sho	Shoring/Support: Stability:									ENERA EMARK				
¥ A														
Shoring/Support: Stability: A A A A A A A A A A A A A														
2		С		🛨										
3	All dimensions		tree	Contractor			Me	thod/			<u> </u>	Logged	Bv	
ਨੂ ਹੋ	Scale 1:3		ues					ant Us					MAE	



Pro	oject									TF	RIAL PI	T No
	Phase No 12041157			ett Date 25-04-07 25-04-07	Ground L	evel (m)	Co-Ordinates ()				TP11	11
	pervising En		er			Client				Shee	et	
	Mark E	mer	son			SEGRO					1 of	1
Water	Depth (thickness)			;	STRATA				SAM	IPLES	H	SV
š		No				ESCRIPTION	l	Legend	Dep	th No	Depth	Resu
	0.00-0.20 0.20-0.30 0.30-2.80		MAD fine t Oran	forced concrete hards DE GROUND: Brown so coarse GRAVEL of the grown slightly clay ded fine to coarse flint asional horizon of soft	lightly clayey flint, quartzite ey gravelly S and quartzit	e, concrete a SAND. Grave te. Occasiona	nd brick. I is angular to al cobbles of flint.		0.20) ES		
	- - - - - - -								2.20) B		
	(0.40) 		Stiff to su	brown slightly sandy s brounded fine to medi	lightly gravel ium flint and	lly CLAY. Gra	avel is subangular		3.00) D		
	- - - - - - - - - - - - - - - - - - -											
	oring/Supporability:	rt:									EMERA EMARA	
C)	A		B ↓								
	All dimensions Scale 1:3		tres	Contractor		Metho Plant				Logged	By MAE	



Pro	ject									TF	RIAL PI	T No
Joh	Phase A	400,		Data	Ground L	evel (m)	Co-Ordinates ()			4	TP11	12
	, No 12041157/	001	'	25-04-07 25-04-07	Oround L	-0701 (111)	Oo Ordinates ()					
Su	pervising En	ginee	er			Client				Shee	et	
	Mark E	mers	son			SEGRO					1 of	1
Water	Depth (thickness)				STRATA				SAM	PLES	H	SV
<u> </u>		No	Dain	faread canarata hard		ESCRIPTION	l	Legend	Dept	h No	Depth	Result
	_0.00-0.20			forced concrete hards								
	_0.20-1.10		subr	DE GROUND: Orange ounded fine to coarse	GRAVEL of	ly clayey ver flint, quartzit	y sandy angular to e, concrete, pottery,					
			brick	and rare plastic fragr	ments.				0.40 0.50			
	(0.90)								0.00			
	_											
	_		0.90	Wooden plank.								
	1.10-1.20		Cond	crete. sible MADE GROUND): Oranga bra	our cliabtly o	ovov vorv condv					
	_1.20-1.80		GRA	AVEL. Gravel is angula	ar to subroun	ided fine to c	parse flint.	000000				
	(0.60)							00000				
	_							00000				
	1.80-3.00		Stiff	dark brown slightly sa unded fine to medium	indy slightly (gravelly CLA	7. Gravel is angular					
	_		10 10	unded line to medium	i chaik and iii	ını.						
	_											
- - (1.20)								-				
[(1.20)									2.50	D		
	_											
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She	oring/Suppor bility:	t:									ENERA EMARK	
	.c.ii.cy.										EWAK	<u> </u>
												
		Α										
D				B								
J												
		С										
_	All dimensions Scale 1:3		tres	Contractor		Metho Plant				Logged	By MAE	
	Scale 1:3	ıu.3		1		التامالا	030u				IVIAE	



Project					TF	RIAL PIT No
Phase 400, Ra	adlett					TP113
Job No	Date 25-04-07	Ground Level (m)	Ground Level (m) Co-Ordinates ()			
12041157/001	25-04-07					
Supervising Engineer		Client			Shee	t
Mark Emersor	า	SEGRO				1 of 1
ற் Depth		STRATA		SAMP	LES	HSV

	Mark E	mers	son	SEGRO	1 of 1				
Water	Depth		STRATA		SAMP	LES	H	SV	
×a	(thickness)	No	DE	ESCRIPTION	Legend	Depth	No	Depth	Resu
			Reinforced concrete hardstanding. Orange brown very sandy GRAVEL. Grown to coarse flint and quartzite. Occasional band of soft orange brown mottled blace. Orange brown slightly clayey gravelly Subrounded fine to medium flint. Occasionate very sandy clay.	ravel is angular to rounded fine I cobbles of flint. Occasional k and grey sandy clay.		0.40	ES B	Берш	TKESU.
Sho Sta	oring/Suppor bility:	- A	→ B ↓					ENER/ EMAR	
1	All dimensions Scale 1:3		tres Contractor	Method/ Plant Used	Logged By MAE				



				• • • •									
Pro	ject								TF	TRIAL PIT No			
	No		Padlett 25-04-07	Ground L	evel (m)	Co-Ordinates ()				TP11	4		
	12041157 pervising Er		25-04-07		Client				Shee	.+			
Jou	Mark E	-			SEGRO				Silee	1 of	1		
	Depth	IIICI		OTDATA				0.4.14	DI 50	HSV			
Water	(thickness)	No		STRATA	ESCRIPTION		Legend	Dept	PLES h No	Depth	Result		
>	0.00-0.10	INO	Concrete hardstanding.	DE	ESCRIPTION		Legenu	Бері	II INO	Бериі	Result		
	0.10-0.20		Brick paving. Concrete.										
	(0.30)		Concrete.										
	_0.50-3.10	Orange brown very sandy angular to rounded GRAVEL of flint and											
	_	quartzite. Becoming slightly clayey at 1.5 mbgl.											
							0.0000						
	_						000000						
	_						000000						
	_						00000						
							000000						
	_						0 0 0 0 0						
	- - (2.60)												
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	F												
								2.80	В				
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										ENED A			
Sta	oring/Suppo bility:	rt:								ENER/ EMAR			
								l					
	-												
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, ,													
D			B <u>↓</u>										
		С											
	All dimensions		tres Contractor		Method	d/			Logged	Ву			
Se to consider the constant of	Scale 1:3				Plant U	Jsed				MAE			



		·	-ax. c	20 731	4 3003				KIA	LPI	LO	G						
Р	roject														Т	RIAL	PIT	No
		Phase	400,								ı					TP	115	
J	ob No 120) 141157 <i>/</i>	001	D	ate 27-0 27-0	04-07 04-07		Ground	Level	(m)	Co-Ordi	nates ()				••		,
S	Superv	ising En	ginee	er					Clie		•				She	et		
	l	Mark E	mers	son					S	EGRO						1 o	f 1	
Į.	<u> </u>	Depth					Sī	ΓRΑΤΑ						SAM	IPLES		HS\	/
Water	thi	ickness)	No					[DESCF	RIPTION			Legend	Dep	th No	Dept	h F	Result
	_0.0	00-0.20		Reinf	orced cor	ncrete ha	rdstar	nding.										
		20-0.30		MAD	E GROUN	ND: Brow	n clay	yey angu	ılar to r	ounded fi	ne to coar	se		0.20	ES			
	_0.3	30-1.00		Brow	VEL of quently	<u>iartzite ar</u> clayey ve	nd film ery sa	<u>t.</u> ndy angi	ular to	rounded f	ine to coa	rse /	00000					
	F	(0.70)		GRA'	VEL of flir	nt and qua	artzite	e. Rare c	cobbles	of flint.			000000	0.50) ES			
	L	(0.70)											000000					
	-												000000					
	_1.0	00-2.50		Oran	ge brown	slightly c	layey	gravelly	SAND). Gravel i	s angular	to						
	+			pock	ets of firm	coarse i clay.	nint ar	na quartz	zite. Ot	ccasionai	cobble siz	e						
	F																	
	L													1.50) В			
	F	(1.50)																
	F	()																
¥	F																	
	Ė																	
	2.5	2.50-3.00 Stiff dark brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse chalk and flint.																
	F																	
	L	(0.30)												2.80) D			
	-																	
	F																	
	Ł																	
	F																	
	Ė																	
	-																	
	F																	
_																		
29/5/(-																	
GD T	F																	
P.	Ł																	
9 R	F																	
<u> </u>																		
S E	horing	g/Suppoi	t:												(GENE	RAL	
	tability	у.													F	REMA	KKS	•
400 R																		
ASE	 				→													
χ Τ			Α_		7	Ţ.												
O BO;	D				В													
ğ Ö			С			<u>.</u>												
WSP TP LOG (NO BOX) PHASE 400 RADLE IT.GPJ WSP GROUP.GDT 29/5/07 ω	All di	mensions	in me	tres	Contract	or				Method	/				Logged	l By		
WSP 	, ui uli	Scale 1:3	30.3	55						Plant U						MA	E	



							LOG					
Pro	oject	400	5 "							TF	RIAL PI	T No
	Phase			Date 27-04-07	Ground L	evel (m)	Co-Ordinates ()				TP11	16
	12041157			27-03-07		T =						
Su	pervising En Mark E					Client SEGRO				Shee	t 1 of	1
_	Depth	mers	5011		OTD A T A				CAN		ı	SV
water	(thickness)	No		•	STRATA	ESCRIPTION		Legend	Dep	IPLES th No	Depth	Resul
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	_0.30-1.25		Oran	se GRAVEL of quartzinge brown clayey sand VEL of flint and quartzi	ly subangula	ar to subrounde	ed fine to coarse	'				
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Depth (thickness) No DESCRIPTION Legend Depth No Depth Depth No Depth D	of 1	1 of	Silee									Super		
0.00-0.20 Reinforced concrete hardstanding. 0.20-0.50 (0.30) MADE GROUND: Brown / orange brown clayey gravelly SAND. Gravel is angular to subrounded fine to coarse flint, quartzite and brick. 0.50-1.80 Orange brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL of flint and quartzite. Occasional cobble of flint. 0.50-0.00 0.50-		ı												
Name Reinforced concrete hardstanding.	HSV									.	ckness)	tt) de		
MADE GROUND: Brown / orange brown clayey gravelly SAND. Gravel is angular to subrounded fine to coarse filin, quartizel and brick. 0.30 0.30 ES	oth Resu	Depth	No	Depth	Legend		SCRIPTION		einforced concrete hardst	- 1				
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Consider the first control of the subangular fine flint. Consider the first control of the subangular fine flint. Consider the subangular fine flint. Consid			В	1.50										
SAND. Gravel is angular to subrounded fine to medium flint. 2.10 - 3.00 Damp. (0.90) Shoring/Support: GENI			D	1.90		subangular fine flint.	to	(0.30)						
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Method/ Plant Used

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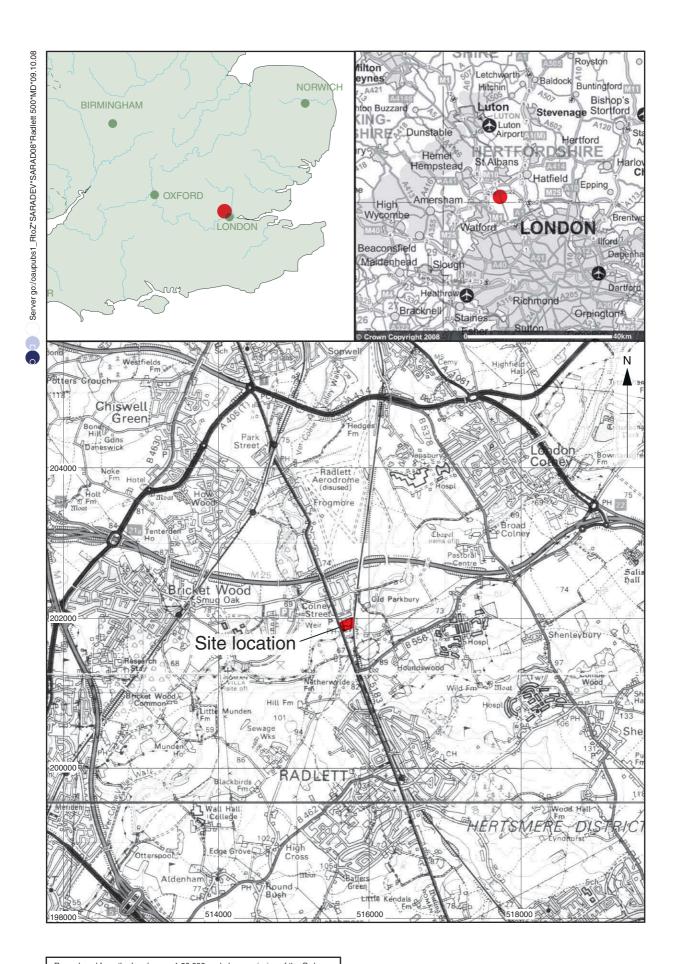
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	0.05-0.15 0.15-1.00		\suba	DE GROUND: Yellow I angular to subrounded	I fine flint (sul	bbase).		1100000						
	L	Orange brown slightly clayey very sandy angular to rounded fine to coarse GRAVEL of flint.												
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Jou	Mark E	-				SEGRO				Silee	1 of	1
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Water	(thickness)	No			STRATA	ESCRIPTION		Legend	SAMF Depth		Depth	SV Result
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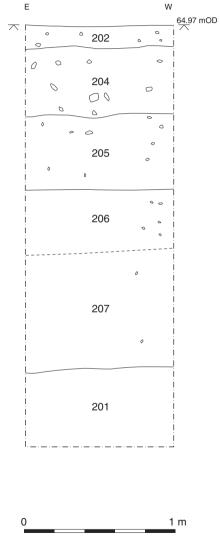
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Figure 1: Site location

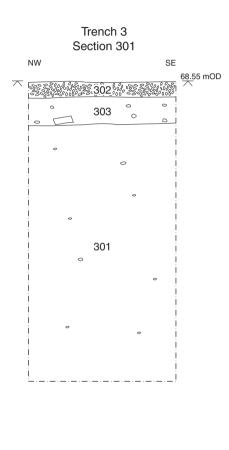


Trench 1 Section 101 W Е 65.08 mOD Roots/wood chippings ۰.107[,] 106 。 105 ○103 ○ \bigcirc

101 °



Trench 2 Section 201



 $\bigcirc^{\circ}_{\square}$ Stones



Figure 3: Sections 101, 201 and 301



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