

# NORTHSTOWE

## Freedom of Information Request - Boreholes

NOR-ARC-P2-XX-XXX-RG-Z-0141-P01

APRIL 2018



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## 1 Introduction

This information has been compiled on request of Home England.

The information within this document relates to available borehole data across the Homes England areas at Northstowe.

Information in this report includes the following;

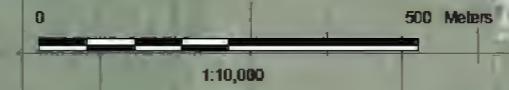
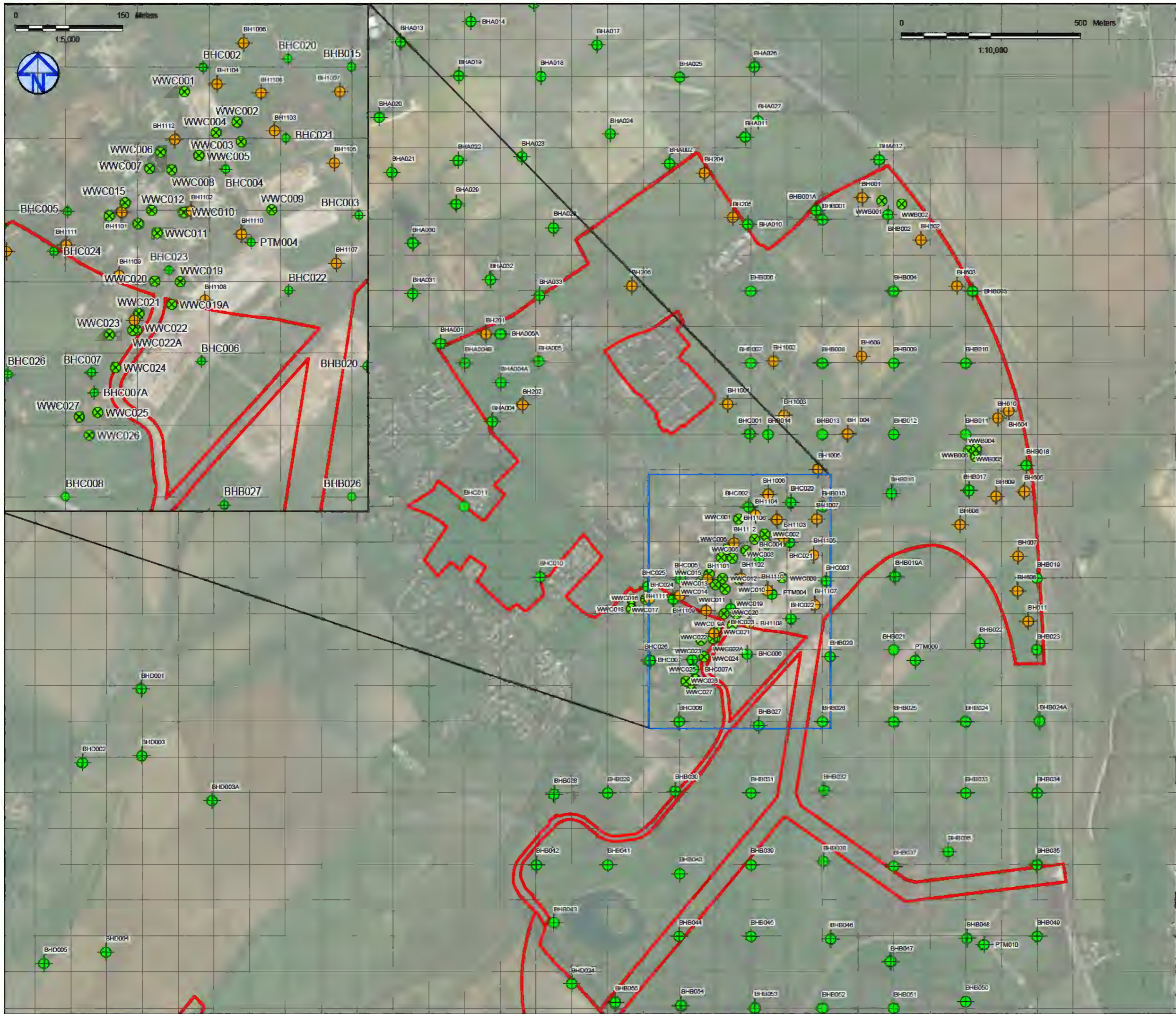
- Plans showing locations of boreholes
- Borehole records / logs
- Groundwater monitoring data

Information has been taken from the following reports;

1. WSP (2007), Interim Factual Report, Northstowe, Cambridgeshire, Zone A (Project Number 12170626)
2. WSP (2007), Interim Factual Report, Northstowe, Cambridgeshire, Zone B (Project Number 12170626)
3. WSP (2007) Interim Factual Report, Northstowe, Cambridgeshire, Zone C (Project Number 12170626)
4. WSP (2007) Interim Factual Report, Northstowe, Cambridgeshire, Zone D (Project Number 12170626)
5. Arcadis Consulting (UK) Limited (2017), Northstowe Phase 2 Ground Investigation Report, (Report Number UA008426-AFS-GLR-G001)

## APPENDIX A

### Plans



- Legend:**
- Planning Boundary
  - WSP Borehole Locations
  - ✕ WSP Water Well Locations
  - ✕ Arcadis Borehole Locations

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

REV	Date	Description	Drawn	Check	Approv
P1	27/04/2018	FIRST ISSUE	JN	AP	GR

**Client**

HOMES AND COMMUNITIES AGENCY

PROJECT: NORTHSTOWE PHASE 2

**Site**  
Northstowe  
Cambridgeshire

**Client**  
Fly Building  
2 Marsham Street  
London  
SW1P 4DF

Registered office:  
Arcadis House  
34 York Way  
London  
N1 9AB  
www.arcadis.com

**TITLE**

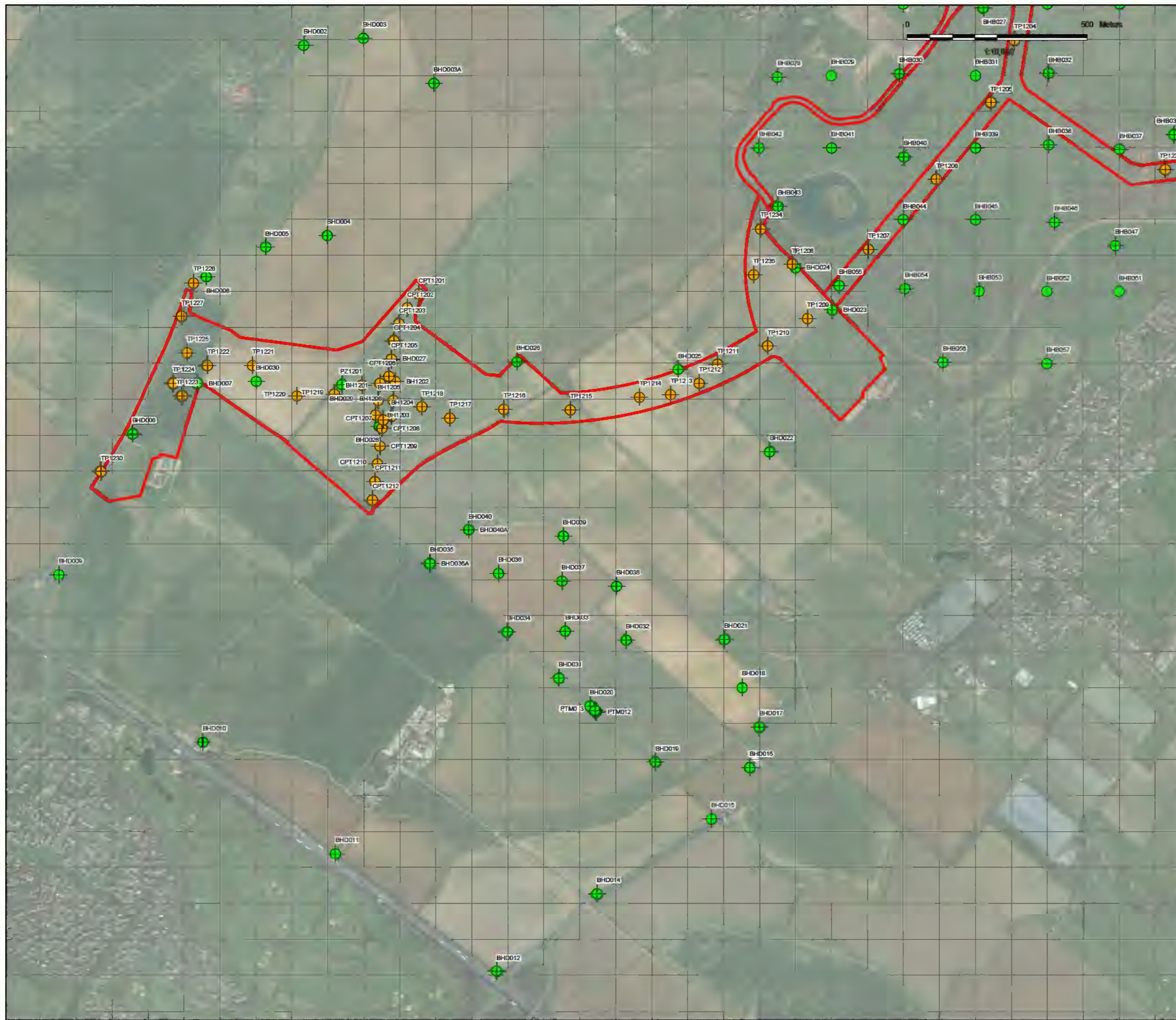
EXPLORATORY HOLE LOCATION PLAN  
ARCADIS AND WSP  
(Page 1 of 2)

Designed		Date	27/04/2018	Signed	
Drawn	Rea	Date	27/04/2018	Signed	
Checked	Rea	Date	27/04/2018	Signed	
Approved	Rea	Date	27/04/2018	Signed	
Scale	See Layout	Datum		AOD	
Original Size	A3	Grid		OS	
Suitability Code	S2	Project Number	UA008426		

Suitability Description: PRELIMINARY NOT FOR CONSTRUCTION

Drawing Number: 0001-UA008426-01

Revision: P1



- Legend:**
- Planning Boundary
  - WSP Borehole Locations
  - WSP Water Well Locations
  - Arcadis Sample Locations

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

REV	Date	Description	Drawn	Check	Approv
P1	27/04/2018	FIRST ISSUE	JN	AP	GR

**Client**

**HOMES AND COMMUNITIES AGENCY**

**PROJECT: NORTHSTOWE PHASE 2**

**Site**  
Northstowe  
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Fry Building  
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**ARCADIS** Design & Consultancy for natural and built assets

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**TITLE:**

**EXPLORATORY HOLE LOCATION PLAN  
ARCADIS AND WSP  
(Page 2 of 2)**

Designed		Date: 27/04/2018	Signed	
Drawn		Date: 27/04/2018	Signed	
Checked		Date: 27/04/2018	Signed	
Approved		Date: 27/04/2018	Signed	
Scale:	See Layout	Datum:	AOD	
Original Size:	A3	Grid:	OS	
Suitability Code:	S2	Project Number:	UA008426	

Suitability Description: **PRELIMINARY NOT FOR CONSTRUCTION**

Drawing Number: **0001-UA008426-01**

Revision: **P1**

## APPENDIX B

### Borehole Logs

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA001</b>	
Job No <b>12170626</b>	Date <b>10-11-05 10-11-05</b>	Ground Level (m AOD) <b>8.800</b>	Co-Ordinates (OS) <b>E 540033.372 N 266853.581</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.60-1.00	B					8.10	(0.70) 0.70	Soft brown sandy TOPSOIL with roots.		TPS
1.00-1.50	BD	2,2,4 2,3,2 N=11				7.00	(1.10) 1.80	Firm brown mottled grey slightly sandy gravelly CLAY. Gravel is fine and subrounded chalk (TERRACE DEPOSITS).		TD
2.00-2.30	BD	4,2,2 2,2,3 N=9				6.50	(0.50) 2.30	Loose orange brown sandy GRAVEL. Gravel is fine to medium flint (TERRACE DEPOSITS).		TD
3.00-3.50	BD	2,2,2 3,3,4 N=12					(4.70)	Firm grey slightly sandy CLAY (AMPTHILL CLAY).		AMP
4.00-4.50	BD	5,4,3 3,3,5 N=14								
5.00-5.50	BD	3,2,3 3,4,5 N=15								
6.00	D									
6.60-6.80	U	76 blows				1.80	7.00			
7.00	D									




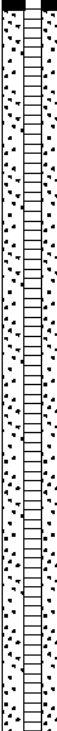
Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA002</b>	
Job No <b>12170626</b>	Date <b>10-11-05</b> <b>10-11-05</b>	Ground Level (m AOD) <b>6.140</b>	Co-Ordinates (OS) <b>E 540672.796 N 267356.337</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>



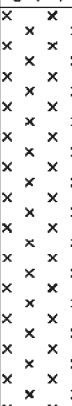
SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PIV Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.60-1.00	B					6.04	0.10 (0.80)	Grass over brown TOPSOIL. Firm dark grey slightly gravelly CLAY with rootlets (AMPTHILL CLAY REWORKED).		TPS AMP	
1.00-1.50	BD	1,2,2 1,1,2 N=6				5.24	0.90	Firm becoming stiff fissured grey mottled brown CLAY. Becoming stiff with depth (AMPTHILL CLAY).		AMP	
2.00-2.50	BD	1,8,8 4,8,8 N=28									
3.00-3.50	BD	3,4,3 4,4,3 N=14									
4.00-4.50	BD	6,4,3 3,3,3 N=12				(6.10)					
5.00-5.45	U	55 blows									
5.60	D										
6.00	D										
6.60-6.85	U	30 blows									
7.00	D					-0.86	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA003</b>	
<b>Job No</b> 12170626	<b>Date</b> 10-11-05 10-11-05	<b>Ground Level (m AOD)</b> 7.710	<b>Co-Ordinates (OS)</b> E 539765.085 N 267661.340		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1












SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
						7.01	0.70	Grass over brown TOPSOIL.		AMP	
1.00-1.50	BD	2,3,6 5,8,8 N=23						Medium to dense orange brown SAND and GRAVEL. Gravel is fine to coarse subangular to subrounded flint and chalk. With a band of soft white silt between 3.4m and 3.5m (TERRACE DEPOSITS).		TD	
2.00-2.50	BD	3,4,5 7,7,7 N=26									
3.00-3.50	BD	8,8,9 8,10,4 N=31									
3.70	D					4.01	3.70				
4.00	B	2,2,2 3,3,4 N=12						Soft to firm grey SILT. Becoming firm to stiff from 6.5m (AMPTHILL CLAY).		AMP	
5.00	B	3,2,3 4,3,2 N=12									
6.50	B	5,6,7 9,10,11 N=37				0.71	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA004</b>	
Job No <b>12170626</b>	Date <b>19-10-06</b> <b>19-10-06</b>	Ground Level (m AOD) <b>9.130</b>	Co-Ordinates (OS) <b>E 540177.000 N 266636.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.40	D				↓	8.73	0.40	TOPSOIL		TPS	
0.80	JJVVD					8.33	0.80	Dark brown clayey slightly gravelly SAND (TERRACE DEPOSITS).		TD	
1.00-1.50	B	3.6,11 12,15,12 N=50/ 280				8.13	1.00	Firm brown slightly sandy CLAY (TERRACE DEPOSITS).		TD	
1.40	D					7.73	1.40	Dense light brown gravelly SAND (TERRACE DEPOSITS).		TD	
2.30	JJVV	4.5,4 3,2,1 N=10				(1.50)		Dense black and brown gravelly SAND (TERRACE DEPOSITS).		TD	
						6.23	2.90	Brown gravelly SAND in soft grey clay matrix (TERRACE DEPOSITS).		TD	
3.40-3.60	JJVVB	1,1,1 1,3,3 N=8				5.93	3.20	Soft grey sandy CLAY with organic material. Light grey sandy gravelly pockets (TERRACE DEPOSITS).		TD	
3.60-3.80	B					(0.70)		Firm grey blue organic CLAY (AMPTHILL CLAY).		AMP	
3.80	D					5.23	3.90	Firm blue grey CLAY (AMPTHILL CLAY).		AMP	
4.20-4.65	U	26 blows				(0.60)		Stiff grey CLAY (AMPTHILL CLAY).		AMP	
4.90	D				4.63	4.50	Stiff dark grey laminated CLAY (AMPTHILL CLAY).		AMP		
5.00-5.50	JJVVB	2,2,3 5,4,5 N=17			(0.80)						
6.10	D				3.83	5.30					
6.30-6.75	U	40 blows			(0.80)						
7.00	D				3.03	6.10					
					(0.90)						
					2.13	7.00					







Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
19-10-06		1.60	20								
19-10-06		6.30	20								

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>DRILLER</b>
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Groundwater seepage at 1.6m and 6.3m. Drillers descriptions.

# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA004A</b>	
Job No <b>12170626</b>	Date <b>23-10-06</b> <b>23-10-06</b>	Ground Level (m AOD) <b>8.900</b>	Co-Ordinates (OS) <b>E 540202.000 N 266745.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
1.50	JJJV					8.20	(0.70) 0.70	Grass over dark brown slightly clayey slightly gravelly fine to medium sandy TOPSOIL. Gravel is fine angular to subangular flint.		TPS	
						8.00	(0.70) 0.90	Brown clayey gravelly fine to coarse SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
3.00	JJJV					7.30	(0.70) 1.60	Orange brown gravelly medium to coarse SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						4.90	(2.40) 4.00	Buff brown very gravelly medium to coarse SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		<b>GENERAL REMARKS</b>  Drillers descriptions.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>DRILLER</b>
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA004B</b>	
Job No <b>12170626</b>	Date <b>23-10-06</b> <b>23-10-06</b>	Ground Level (m AOD) <b>9.100</b>	Co-Ordinates (OS) <b>E 540102.000 N 266800.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>






SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.60	JJJVV				↓	8.40	(0.70) 0.70	TOPSOIL		TPS	
					↓	8.20	0.90	Firm brown sandy CLAY (TERRACE DEPOSITS).		TD	
					↓	7.80	1.30	Dense light brown grey gravelly SAND (TERRACE DEPOSITS).		TD	
2.00	JJJVV				↓		(2.20)	Buff brown slightly gravelly to gravelly fine to coarse SAND. Gravel is fine to medium angular to subangular flint. Becoming very gravelly from 1.6m with thin bands or pockets of orange brown and light grey very thinly laminated silty fine SAND (TERRACE DEPOSITS).		TD	
3.60	JJJVV				↓	5.60	3.50				
					↓	5.10	(0.50) 4.00	Grey clayey sandy medium GRAVEL (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
20-10-06		1.70									
20-10-06		2.20	20	2.20	2.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>DRILLER</b>
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA005</b>	
Job No <b>12170626</b>	Date <b>18-10-06</b> <b>18-10-06</b>	Ground Level (m AOD) <b>9.450</b>	Co-Ordinates (OS) <b>E 540308.000 N 266804.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.60	D					8.85	0.60	TOPSOIL		TPS
0.80	JJVV D					8.55	0.90	Brown very clayey medium SAND. Occasional very fine gravel (TERRACE DEPOSITS).		TD
1.00-1.50	B	8,7,8 8,8,9 N=29				8.15	1.30	Dense brown/grey slightly clayey slightly gravelly medium SAND. Gravel is fine (TERRACE DEPOSITS).		TD
2.00-2.50	JJVV B	7,10,8 8,8,8 N=29						Dense grey and brown SAND and GRAVEL (TERRACE DEPOSITS).		TD
3.00		10,15,15 18,4,0 N=35/ 180					(3.70)			TD
4.00		6,8,9 12,15,14 N=50/ 285								TD
5.00-5.45	JJVV	3,3,3 4,4,3 N=14				4.45	5.00	Medium dense brown and grey gravelly medium SAND (TERRACE DEPOSITS).		TD
6.00		2,2,3 4,4,3 N=14					(2.00)			TD
7.00	D					2.45	7.00			









Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
18-10-06		2.00	20								
18-10-06		2.40	20	1.95	2.30						

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>DRILLER</b>
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Groundwater seepage at 2.0m. Groundwater encountered at 2.40m - slow. Drillers descriptions.

# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA005A</b>	
Job No <b>12170626</b>	Date <b>19-10-06</b> <b>19-10-06</b>	Ground Level (m AOD) <b>8.960</b>	Co-Ordinates (OS) <b>E 540200.000 N 266881.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.80	JJJV					8.36	(0.80) 0.60	TOPSOIL		TPS	
						8.16	0.80	Firm brown very sandy slightly gravelly CLAY (TERRACE DEPOSITS).		TD	
						7.86	1.10	Orange brown slightly clayey gravelly SAND (TERRACE DEPOSITS).		TD	
6.96	2.00	Light grey brown SAND and GRAVEL (TERRACE DEPOSITS).		TD							
1.80	JJJV						(2.00)	Light grey brown sandy medium GRAVEL (TERRACE DEPOSITS).		TD	
						4.96	4.00				

Boring Progress and Water Observations						Chiselling			Water Added		<b>GENERAL REMARKS</b>  Groundwater seepage at 1.5m. Groundwater encountered at 2.0m - very slow. Drillers descriptions.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
19-10-06		1.50	20	2.00	1.80						
19-10-06		2.00									

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>DRILLER</b>
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA006</b>	
Job No <b>12170626</b>	Date <b>27-10-06</b> <b>27-10-06</b>	Ground Level (m AOD) <b>8.230</b>	Co-Ordinates (OS) <b>E 540494.248 N 267004.233</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.70-1.00	JJLV	3,4,4 3,2,3 N=12			↓	7.83	0.40	Grass over dark brown clayey slightly gravelly fine to medium sand TOPSOIL. Gravel is fine to medium angular to subangular flint.		TPS	
						7.53	0.70			TD	
1.00						7.33	0.90	Brown clayey fine to medium SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						(0.60)				TD	
1.80-2.00	JJLV	3,3,5 5,5,7 N=22				6.73	1.50	Medium dense buff and brown very sandy GRAVEL. Gravel is fine angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
						6.23	2.00	Buff and brown gravelly to very gravelly medium to coarse SAND. Gravel is fine angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
3.00		3,3,4 4,4,4 N=16				(1.40)		Light grey fine to medium SAND (TERRACE DEPOSITS). No core recovery			
						4.83	3.40				
4.00		2,2,3 5,5,8 N=19				4.33	3.90	Firm to stiff dark grey sandy slightly gravelly CLAY. Gravel is fine angular to subrounded flint and siltstone (AMPTHILL CLAY).		AMP	
						(1.10)		Stiff grey CLAY (AMPTHILL CLAY).		AMP	
5.00		3,3,4 4,5,5 N=18				3.23	5.00				









Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
27-10-06		1.00									

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Archway Competetor Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA007</b>	
Job No <b>12170626</b>	Date <b>27-10-06</b> <b>27-10-06</b>	Ground Level (m AOD) <b>8.562</b>	Co-Ordinates (OS) <b>E 540740.580 N 267018.237</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>






SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.40	JLV					8.16	0.40	MADE GROUND: Grass over dark brown slightly sandy gravelly clay. Gravel is fine to medium angular to subangular flint, granite and brick.		MG	
0.40-1.00	JLV				7.86	0.70	Firm green and grey sandy slightly gravelly CLAY (TERRACE DEPOSITS).			TD	
1.00		2,2,1 1,1,2 N=5				7.36	(0.50) 1.20	Firm to stiff brown mottled orange brown slightly sandy CLAY. Becoming sandy with depth (TERRACE DEPOSITS).		TD	
					7.06	1.50	Orange brown slightly clayey gravelly fine to medium SAND (TERRACE DEPOSITS).		TD		
2.00		1,2,2 2,3,4 N=11				(2.20)	Firm to stiff grey mottled brown CLAY. Slightly sandy in places with fine to coarse selenite crystals (AMPHILL CLAY).		AMP		
3.00		3,3,3 4,5,6 N=18				4.86	3.70				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Archway Competetor Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA008</b>	
Job No <b>12170626</b>	Date <b>27-10-06</b> <b>27-10-06</b>	Ground Level (m AOD) <b>7.338</b>	Co-Ordinates (OS) <b>E 540505.363 N 267202.158</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>








SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.60-0.70	JJV					6.94	0.40	Grass over firm to stiff dark brown sandy slightly gravelly clay TOPSOIL. Gravel is fine to medium angular flint		TPS	
1.00		5,5,6 5,6,7 N=24					(1.40)	Stiff brown mottled grey slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is fine angular to subrounded chalk and flint. Becoming grey mottled orange brown from 0.9m (TERRACE DEPOSITS).		TD	
2.00		2,3,3 3,4,5 N=15				5.54	1.80	Stiff to very stiff grey mottled brown CLAY with occasional medium to coarse selenite crystals. Becoming very stiff and grey from 3m. Dark grey and relic fossils (ammonites) present from 4.0-5.0m (TERRACE DEPOSITS).		TD	
3.00		24,3,4 5,5,6 N=20					(3.20)			TD	
4.00		3,3,4 5,5,6 N=20									
5.00		3,3,4 4,6,6 N=20				2.34	5.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Archway Competetor Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA009</b>	
Job No <b>12170626</b>	Date <b>27-10-06</b> <b>27-10-06</b>	Ground Level (m AOD) <b>6.390</b>	Co-Ordinates (OS) <b>E 540711.541 N 267197.866</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.20-0.40	JJJV					6.34	0.05 (0.55)	Grass over dark brown slightly sandy slightly gravelly clay TOPSOIL. Gravel is medium angular flint.		TPS	
						5.79	0.60 (0.80)	Stiff dark brown slightly sandy slightly gravelly CLAY with fine rootlets. Becoming very stiff from 0.2m and light brown from 0.5m (TERRACE DEPOSITS).		TD	
1.00		2,2,3 4,5,12 N=24				4.89	1.50 (0.80)	Stiff to very stiff grey mottled orange/brown CLAY. Slightly sandy in places with selenite crystals (AMPTHILL CLAY).		AMP	
2.00		2,2,2 4,4,8 N=16				4.29	2.10 (0.80)	Weak light grey SILTSTONE recovered as fine to coarse angular gravel (AMPTHILL CLAY).		AMP	
2.30-2.60	JJJV							Stiff to very stiff grey mottled brown CLAY. Slightly sandy in places with selenite crystals. Slightly sandy in places with selenite crystals (AMPTHILL CLAY).		AMP	
3.00		2,2,3 3,5,5 N=16					(2.80)			AMP	
4.00		15,40,8 8,5,8 N=25									
5.00		3,3,4 4,5,8 N=19				1.39	5.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
27-10-06		2.00									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Archway Competetor Rig	Logged By LF
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Groundwater encountered at 2.0m. Borehole drilled by window sample rig.

# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA010</b>	
<b>Job No</b> 12170626	<b>Date</b> 16-10-06 17-10-06	<b>Ground Level (m AOD)</b> 6.033	<b>Co-Ordinates (OS)</b> E 540891.156 N 267187.474		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50	JJJJVD					5.63	0.40	TOPSOIL.		TPS	
0.80	D					5.23	0.80	Stiff brown slightly sandy slightly gravelly CLAY (TERRACE DEPOSITS).		TD	
1.00-1.50	B	1,3,6 8,8,9 N=31				5.03	1.00	Firm grey brown slightly sandy slightly gravelly CLAY (TERRACE DEPOSITS).		TD	
							(1.00)	Firm light grey sandy CLAY (AMPTHILL CLAY).		AMP	
2.00-2.45	U	25 blows				4.03	2.00	Stiff blue grey CLAY (AMPTHILL CLAY).		AMP	
2.70	JJJVD						(2.00)			AMP	
3.10	D					2.03	4.00				
3.20-3.65	U	30 blows					(0.50)	Stiff grey CLAY with thin weak siltstone bands (AMPTHILL CLAY).		AMP	
3.90	D					1.53	4.50	Stiff grey CLAY (AMPTHILL CLAY).		AMP	
4.00-4.45	U	42 blows					(2.50)			AMP	
4.50	D										
5.00	JJJV	1,2,3 4,4,5 N=16									
5.00-5.50	B										
6.20-6.65	U	45 blows									
6.90	D					-0.97	7.00				
7.00		2,3,3 5,6,6 N=20									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>DRILLER</b>
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA011</b>	
Job No <b>12170626</b>	Date <b>17-10-06</b> <b>17-10-06</b>	Ground Level (m AOD) <b>5.434</b>	Co-Ordinates (OS) <b>E 540884.077 N 267430.652</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.60	D					4.93	(0.50) 0.50	TOPSOIL.		TPS	
0.80	JJVVD					4.63	0.80	Firm to stiff grey brown CLAY with rootlets (TERRACE DEPOSITS).		TD	
1.00	D					4.43	1.00	Firm light grey slightly gravelly CLAY (TERRACE DEPOSITS).		TD	
1.10-1.60	B	2,2,3 3,3,4 N=13						Firm blue grey CLAY (AMPTHILL CLAY).			
1.80	JJVVD						(2.00)			AMP	
2.00-2.45	U	18 blows									
2.60	D										
2.70	D					2.43	3.00	Firm to stiff grey CLAY. Becoming very stiff with depth (AMPTHILL CLAY).			
3.00-3.50	B	1,1,2 2,2,3 N=9									
3.40	JJV										
4.00-4.45	U	27 blows									
4.80	D						(4.00)			AMP	
5.00-5.50	B	2,2,4 3,5,5 N=17									
5.80-6.00	JJVVB										
6.30-6.75	U	35 blows									
7.00	D					-1.57	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DRILLER
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA012</b>	
Job No <b>12170626</b>	Date <b>18-10-06</b> <b>18-10-06</b>	Ground Level (m AOD) <b>5.592</b>	Co-Ordinates (OS) <b>E 541258.104 N 267367.304</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.60	JJJVD					4.99	0.60	TOPSOIL.		TPS	
0.80	D					4.69	0.90	Firm grey/brown CLAY with occasional fine gravel (TERRACE DEPOSITS).		TD	
1.10-1.60	B	1,2,2 2,2,3 N=8				4.49	1.10	Firm to stiff light blue/grey CLAY (AMPTHILL CLAY). Firm to stiff blue/grey and brown CLAY (AMPTHILL CLAY).		AMP	
2.00	JVVD						(1.60)			AMP	
2.00-2.45	U	38 blows				2.89	2.70	Firm grey CLAY (AMPTHILL CLAY).		AMP	
2.70	D						(0.90)			AMP	
3.00-3.50	JJJVB	1,2,3 3,4,4 N=14				1.99	3.60	Light grey SILTSTONE (AMPTHILL CLAY).		AMP	
3.80	D					1.69	3.90	Firm grey CLAY (AMPTHILL CLAY).		AMP	
4.00-4.45	U	34 blows					(1.00)			AMP	
4.70	D					0.69	4.90	Stiff dark grey laminated CLAY (AMPTHILL CLAY).		AMP	
4.80	D						(2.10)			AMP	
5.00-5.50	B	1,2,3 3,4,3 N=13					-1.41	7.00			
6.30-6.75	U	35 blows									
6.80	JJV										
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DRILLER
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA013</b>	
Job No <b>12170626</b>	Date <b>20-07-07</b> <b>20-07-07</b>	Ground Level (m AOD) <b>8.467</b>	Co-Ordinates (OS) <b>E 539921.497 N 267697.705</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>





SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.00-0.30	B							Brown clayey gravelly SAND. Gravel is fine to medium angular to subangular flint with rootlets (TERRACE DEPOSITS). 0.30 mbgl, becoming orange brown very clayey slightly gravelly SAND. Gravel is fine to medium angular to sub-angular flint.		TD	
0.30-0.80	B					7.67	0.80				
1.00-1.50	B							(1.10)	Soft Orange brown mottled light grey sandy very gravelly CLAY. Gravel is fine to medium subangular to rounded flint with rare chalk (TERRACE DEPOSITS).		TD
1.50-2.00	SBT	2.2,5 6.8,10 N=28				6.57	1.90		1.50 mbgl, becoming firm.		TD
2.50-3.00	CBT	4.5,2 2.3,5 N=12				5.77	2.70	(0.80)	Medium dense orange brown SAND and GRAVEL. Sand is medium. Gravel is fine to medium angular to subangular of flint (TERRACE DEPOSITS).		TD
3.80-4.00	B	45 blows U/100 failed between 3.8 and 4.3						(4.30)	Stiff dark grey CLAY with rare fossils (AMPTHILL CLAY).		AMP
4.50-5.00	B	49 blows U/100 failed between 4.5 and 5									
5.00-5.50	SBT	1,1,2 2,3,3 N=10									
6.50-7.00	SBT	1,2,3 3,5,6 N=17									
						1.47	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
20-07-07		2.00		1.68							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA014</b>	
<b>Job No</b> 12170626	<b>Date</b> 23-07-07 23-07-07	<b>Ground Level (m AOD)</b> 8.395	<b>Co-Ordinates (OS)</b> E 540117.408 N 267754.059		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.50	B					7.90	(0.50) 0.50	Grass over dark brown slightly gravelly sandy clay TOPSOIL with rare roots. Gravel is fine to medium subangular to subrounded flint and mixed lithology.		TPS	
0.50-1.00	B					7.30	(0.60) 1.10	Soft to firm brown slightly gravelly sandy CLAY with rare roots. Gravel is fine to medium angular to subrounded mixed lithology including flint (TERRACE DEPOSITS).		TD	
1.20-1.70	SBT	1,2,2 3,3,4 N=12						Firm to stiff light grey mottled dark grey CLAY with rare brown mottles AMPHILL CLAY).		AMP	
2.20-2.70	SBT	1,1,2 2,3,3 N=10					(2.90)				
3.20-3.70	SBT	1,1,1 2,3,3 N=9									
4.20-4.70	SBT	2,3,3 4,4,4 N=15					4.40 4.00	Stiff dark blue grey CLAY with rare orange roots and rare partings of orange silt (AMPHILL CLAY).  4.50 mbgl, becoming fissured with rare fossils.  5.00 mbgl, no orange silt or roots.		AMP	
5.20-5.70	SBT	2,2,2 4,4,4 N=14					(3.00)				
6.50-7.00	SBT	3,2,3 4,5,5 N=17					1.40 7.00				




Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA015</b>	
Job No <b>12170626</b>	Date <b>18-07-07</b> <b>18-07-07</b>	Ground Level (m AOD) <b>7.964</b>	Co-Ordinates (OS) <b>E 540294.159 N 267803.927</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>





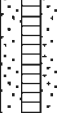
SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.00-0.40	B					7.56	0.40	Grass over brown sandy slightly gravelly clay TOPSOIL. Gravel is fine to medium angular to subangular flint.		TPS	
0.50-1.00	B							Firm light grey mottled Orange brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded flint with siltstone dusting (TERRACE DEPOSITS).		TD	
1.00-1.50	SBT	1,3,3 4,3,3 N=13					(1.40)				
2.00	U	80 blows					6.16	1.80	Stiff dark grey fissured CLAY with rare fossils (AMPTHILL CLAY).		AMP
3.00-3.50	SBT	1,2,2 3,3,4 N=12									
4.00	U	110 blows						(5.20)			
5.00	SPT	2,2,3 5,5,7 N=20									
6.00-6.50	B										
6.50-7.00	SBT	6,5,6 7,8,9 N=30					0.96	7.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA016</b>	
Job No <b>12170626</b>	Date 17-07-07 17-07-07	Ground Level (m AOD) <b>6.827</b>	Co-Ordinates (OS) <b>E 540508.219 N 267821.046</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.50-0.80	B					(0.90)	Grass over firm brown slightly sandy gravelly CLAY. Gravel is fine to medium angular to subrounded of mixed lithology (TERRACE DEPOSITS).		TD		
1.00-1.50	SPT	1,2,3 3,3,2 N=11				5.93 0.90	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded of mixed lithology. Gravel is very rare 0.9-1.4m (TERRACE DEPOSITS).		TD		
2.00-2.45	U	45 blows				(2.90)					
3.00-3.50	SPT	1,2,2 3,4,5 N=14				3.03 3.80	Stiff dark grey to grey fissured CLAY with rare fossils. Rare Orange brown mottling to 4.4m (AMPTHILL CLAY).		AMP		
4.00-4.45	U	50 blows				(3.20)					
5.00-5.50	SPT	2,3,4 4,5,5 N=18				-0.17 7.00					
6.50-7.00	SPT	2,3,5 6,6,8 N=25									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By Driller
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA017</b>	
<b>Job No</b> 12170626	<b>Date</b> 18-07-07 18-07-07	<b>Ground Level (m AOD)</b> 6.379	<b>Co-Ordinates (OS)</b> E 540469.889 N 267688.722		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1





SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.00-0.50 0.15	B JJVV					5.98	0.40	Grass over brown slightly gravelly sandy CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
0.50-1.00	B						(0.80)	Firm brown mottled orange slightly gravelly sandy CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
1.00-1.45	U	90 blows				5.18	1.20				
2.00-2.50	SBT	1,1,2 2,3,3 N=10									
3.00-3.45	U	90 blows									
3.45	D										
4.00-4.50	SBT	1,2,3 3,3,4 N=13					(5.80)	Firm stiff grey rare mottled orange CLAY with rare selenite crystals becoming stiff from 4m and dark grey from 5m (AMPTHILL CLAY).		AMP	
5.00-5.45	U	70 blows									
5.45	D										
6.50-7.00	SBT	1,2,3 3,5,6 N=17				-0.62	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA018</b>	
<b>Job No</b> 12170626	<b>Date</b> 19-07-07 19-07-07	<b>Ground Level (m AOD)</b> 7.826	<b>Co-Ordinates (OS)</b> E 540312.460 N 267599.775		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1







SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.00-0.40	B		0,10	0		7.43	0.40	Grass over dark brown sandy slightly gravelly clay TOPSOIL with rootlets. Gravel is fine to medium angular to subrounded flint.		TPS	
0.50-1.00	B							Firm grey mottled orange brown slightly gravelly sandy CLAY. Gravel is fine angular to subangular flint with fissured silt pockets (TERRACE DEPOSITS).		TD	
1.00-1.45	U	30 blows					(2.60)				
1.45	D										
2.00-2.50	SBT	1,1,2 2,3,3 N=10						2.00 mbgl, becoming firm to stiff with siltstone dustings wit occasional selenite crystals.		AMP	
3.00-3.45	U	40 blows					4.83	3.00			
3.45	D							Stiff dark grey CLAY with rare orange mottling and rare selenite crystals (AMPTHILL CLAY).		AMP	
4.00-4.50	SBT	1,2,2 3,3,5 N=13									
5.00-5.45	U	50 blows						(4.00)			
5.45	D										
6.50-7.00	SBT	2,2,3 4,4,5 N=16						0.83	7.00		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DF
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA019</b>	
Job No <b>12170626</b>	Date 19-07-07 19-07-07	Ground Level (m AOD) <b>8.798</b>	Co-Ordinates (OS) <b>E 540083.529 N 267601.794</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.20-0.40	B		0.15	0		8.40	0.40	Grass over dark brown sandy slightly gravelly clay TOPSOIL with roots. Gravel is fine to medium angular to subrounded flint.		TPS	
1.00-1.50	SBT	3,6,6 10,10,13 N=39				7.80	(0.60) 1.00	Brown mottled orange slightly gravelly sandy CLAY with rare rootlets. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
2.00	SBT	7,9,7 7,7,6 N=27				6.60	(1.20) 2.20	Dense orange brown slightly clayey very gravelly SAND. Sand is fine to coarse. Gravel is angular to subrounded flint and mixed lithology (TERRACE DEPOSITS).		TD	
3.00-3.50	SBT	1,3,3 3,4,5 N=15				5.80	(0.80) 3.00	Firm light grey mottled Orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint with siltstone dustings (TERRACE DEPOSITS).		TD	
4.00-4.35	U	150 blows					(4.00)	Stiff dark grey with rare brown mottling CLAY with rare fossils (AMPTHILL CLAY).		AMP	
5.00-5.50	SBT	1,2,3 4,4,6 N=17									
6.50-7.00	SBT	2,3,3 4,5,5 N=17				1.80	7.00				
6.50	SBT	2,3,3 4,5,5 N=17									

Boring Progress and Water Observations						Chiselling			Water Added		<b>GENERAL REMARKS</b>  No groundwater encountered.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
19-07-07		1.00									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA020</b>	
Job No <b>12170626</b>	Date <b>13-09-07 14-09-07</b>	Ground Level (m AOD) <b>8.583</b>	Co-Ordinates (OS) <b>E 539860.842 N 267485.958</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.10-0.30	JJ					8.48	0.10	Grass over dark brown slightly gravelly fine to medium sand TOPSOIL. Gravel is fine angular to subangular flint.		TPS
0.50	D					8.08	0.50	Dark brown slightly gravelly fine to coarse SAND subsoil. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD
						7.88	0.70			
1.00-1.50	B	5,9,9 11,12,12 N=44/ 260					(1.30)	Brown slightly clayey gravelly fine to coarse SAND. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD
1.00-1.45	D	5,9,9 11,12,12 N=44/ 260				6.58	2.00	Orange brown gravelly medium to coarse SAND. Gravel is fine to medium angular to subrounded chalk and flint. Becoming light brown and very gravelly from 1m (TERRACE DEPOSITS).		TD
2.00-2.50	B						(1.00)	Light brown very sandy GRAVEL. Gravel is fine to coarse angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD
2.50-3.00	B	1,2,5 5,10,11 N=31				5.58	3.00			
2.50-2.95	D	1,2,5 5,10,11 N=31					(4.00)	Soft to firm thinly laminated grey CLAY with occasional pockets of shelly material to 4m. Becoming stiff and dark grey from 4m (AMPHILL CLAY).		AMP
3.00-3.60	B									
3.00-3.50	JJV									
3.50-3.95	D	1,1,2 2,3,3 N=10								
3.50-4.00	B	1,1,2 2,3,3 N=10								
5.60		1,2,2 2,3,4 N=12/ 260								
						1.58	7.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF / CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA021</b>	
Job No <b>12170626</b>	Date <b>09-07-07</b> <b>09-07-07</b>	Ground Level (m AOD) <b>8.545</b>	Co-Ordinates (OS) <b>E 539897.869 N 267331.679</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>









SAMPLES & TESTS					STRATA				Legend	Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION				
0.00-0.30	B					8.25	0.30	Grass over dark brown clayey gravelly sand TOPSOIL with frequent rootlets. Gravel is fine to medium, angular to subangular of flint.		TPS		
0.30-0.70	JJV B		0.30	0		7.85	0.70		Dark brown and orange brown clayey gravelly SAND with rare rootlets. Gravel is fine to medium, angular to subangular of flint, rare medium gravel sized red brown and black mottles (TERRACE DEPOSITS).		TD	
0.30-0.70						7.55	1.00				TD	
1.00-1.50	CBT	4,12,12 13,13,12 N=50			↓			Orange brown slightly gravelly SAND and GRAVEL. Gravel is fine to medium, angular to rounded of flint. Sand is fine to coarse (TERRACE DEPOSITS).		TD		
1.50	JJV		1.50	0	↓							
2.00-2.50	CBT	1,0,0 2,3,8 N=13						Medium dense orange brown slightly clayey SAND and GRAVEL. Gravel is fine to coarse, angular to subangular flint. Sand is fine to coarse (TERRACE DEPOSITS).		TD		
3.00-3.50	CBT	1,0,0 2,6,9 N=17										
4.00-4.50	CBT	5,10,15 18,17					(5.50)					
5.00-5.50	CBT	2,2,3 5,10,12 N=30										
6.50-7.00	SBT	1,2,3 3,3,4 N=13				2.05	6.50	Dark grey black slightly gravelly, slightly sandy CLAY. Gravel is fine to coarse angular to subangular flint (AMPTHILL CLAY).		AMP		
						1.95	6.60					
						1.55	7.00					Dark grey black CLAY (AMPTHILL CLAY).

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
09-07-07		2.50		1.50							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA022</b>	
<b>Job No</b> 12170626	<b>Date</b> 06-07-07 09-07-07	<b>Ground Level (m AOD)</b> 8.943	<b>Co-Ordinates (OS)</b> E 540082.417 N 267385.896		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50-0.70	JJ/V		0.50	0		8.74	0.20	Dark brown clayey slightly gravelly fine to medium SAND, Gravel is fine, angular to subangular flint (TERRACE DEPOSITS).		TD	
0.50-0.80	B					(1.00)		Soft to firm dark brown slightly gravelly sandy CLAY. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
0.90	D					7.74	1.20	0.80 mbgl, becoming brown mottled red.			
1.00	SBT	2,3,8 13,14,13 N=48									
1.20-1.60	B							Medium dense brown gravelly SAND, Sand is fine to coarse, Gravel is fine angular to subangular flint and chalk (TERRACE DEPOSITS).			
2.00	B	6,8,9 7,6,6 N=28									
3.00	B	2,3,4 3,4,4 N=15					(4.80)			TD	
4.00	B	2,4,3 3,3,5 N=14									
5.00	B	2,3,3 4,5,7 N=19									
6.50	B	4,3,3 2,1,2 N=8					2.94	6.00	Loose brown slightly gravelly SAND, Sand is medium to coarse, Gravel is fine angular to subrounded flint and chalk (TERRACE DEPOSITS).		
7.80	B					0.94	8.00	7.80 mbgl - from 7.8m brown/grey, no gravel occasionally medium gravel sized pieces of grey silt.		AMP	
8.00-8.45	SBT	3,4,3 5,5,7 N=20				0.74	8.20	Dark grey fissured and very thinly laminated CLAY (AMPTHILL CLAY).			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
06-07-07		1.70									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF / CW
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WSP Environmental  
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA023</b>	
Job No <b>12170626</b>	Date <b>10-07-07</b> <b>10-07-07</b>	Ground Level (m AOD) <b>8.476</b>	Co-Ordinates (OS) <b>E 540259.808 N 267375.471</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					Water	STRATA					
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.30 0.00-0.30 0.30-0.60	B JJVV B		0.10 0.20	0 0		8.18	0.30	Grass over dark brown slightly gravelly clayey sand TOPSOIL with frequent rootlets. Gravel is fine angular to subrounded flint.		TPS	
1.00-1.45	U	90 blows					(1.70)	Light orange brown rarely mottled light grey clayey gravelly SAND with rare rootlets. Gravel is fine angular to rounded flint (TERRACE DEPOSITS).		TD	
2.00-3.00 2.00-3.00	SBT SBV	5,3,2 3,5,3 N=13 5,3,2 3,5,3 N=13				6.48	2.00	Soft to firm grey brown slightly sandy gravelly CLAY. Gravel is fine angular to rounded flint (weathered AMPHILL CLAY).		AMP	
3.00-3.50	SBT	3,3,3 3,4,5 N=15				5.28	3.20	3.00 mbgl, water seepage.			
4.00-4.50 4.00-4.50	JVVV B	0 blows U/100 failed between 4.0 and 4.5mbgl	4.00	0			(3.80)	Firm dark grey CLAY with frequent fissures and rare fossils (pyritised belemnites) (AMPHILL CLAY).		AMP	
4.80-5.25	U	55 blows									
6.50-7.00	SBT	1,2,3 3,4,5 N=15				1.48	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To		
												Very damp from 2.0m
Date	Time	Strike	Minutes	Standing	Casing							
10-07-07		3.00										
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By CW			

# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA024</b>	
Job No <b>12170626</b>	Date 16-07-07 16-07-07	Ground Level (m AOD) <b>6.538</b>	Co-Ordinates (OS) <b>E 540507.090 N 267439.008</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>





SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.40	B					6.14	0.40	Grass over brown slightly sandy slightly gravelly clay TOPSOIL with rare roots. Gravel is fine subangular to rounded of mixed lithology.		TPS	
0.40-0.90	B							Firm brown to light brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular flint (TERRACE DEPOSITS).		TD	
0.60-0.80	JJV					(1.10)					
1.00-1.50	U	45 blows				5.04	1.50	Stiff grey mottled brown closely fissured CLAY (AMPTHILL CLAY). 1.60 mbgl, rare light grey/white silty dustings.		AMP	
1.50-1.95	U	43 blows				4.54	(0.50) 2.00				
1.95	D							Stiff grey to dark grey fissured CLAY. Rare selenite crystals (AMPTHILL CLAY).		AMP	
2.50-3.00	SBT	1,2,2 8,7,4 N=21					(5.00)				
3.50-3.95	U	90 blows								AMP	
3.95	D										
4.50-5.00	SBT	1,3,3 3,4,5 N=15								AMP	
5.50-5.95	U	55 blows									
5.95	D									AMP	
6.50-7.00	SBT	2,3,3 5,5,5 N=18				-0.46	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JC
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA025</b>	
Job No <b>12170626</b>	Date 16-07-07 16-07-07	Ground Level (m AOD) <b>5.598</b>	Co-Ordinates (OS) <b>E 540700.223 N 267597.355</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>




SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.00-0.40	B							Grass and vegetation over brown slightly sandy clay TOPSOIL with rare roots.		TPS	Instrument/ Backfill
0.20	JJV					5.20	0.40				
0.40-0.90	B						(0.50) 0.90	Firm to stiff brown mottled light brown and grey slightly sandy slightly gravelly CLAY. Gravel is fine rounded flint (TERRACE DEPOSITS).		TD	
1.00-1.45	U	30 blows No Shoe				4.70	1.20	Firm to stiff dark grey mottled Orange brown slightly sandy CLAY with rare sand bands (AMPTHILL CLAY).		AMP	
2.00-2.50	SBT	1,1,1 1,2,3 N=7						Firm to stiff fissured grey mottled orange and brown CLAY (AMPTHILL CLAY). 2.00 mbgl, becoming grey only.		AMP	
3.00-3.45	U	30 blows									
3.45	J										
4.00-4.50	SBT	1,2,2 2,3,3 N=10					(5.80)			AMP	
4.00	SBT	1,2,2 2,3,3 N=10									
5.00-5.45	U	35 blows									
5.45	J										
6.50-7.00	SBT	2,3,3 4,5,5 N=17				-1.40	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		<b>GENERAL REMARKS</b>  No groundwater encountered.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JC
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA026</b>	
<b>Job No</b> 12170626	<b>Date</b> 18-07-07 18-07-07	<b>Ground Level (m AOD)</b> 5.506	<b>Co-Ordinates (OS)</b> E 540908.799 N 267626.090		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1


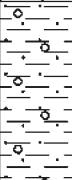



SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.30	B							Grass over brown slightly gravelly sandy TOPSOIL with roots. Gravel is fine angular to subrounded flint.		TPS	
0.20-0.20	JJVV					5.11	0.40				
0.50-1.00	JJVV							Soft to firm grey mottled orange brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
0.50-1.00	B										
1.50-1.95	U	30 blows					(1.90)				
						3.21	2.30				
2.50-3.00	SBT	1,1,1 2,3,3 N=9						Firm dark grey fissured CLAY with rare brown mottles (AMPHILL CLAY).		AMP	
3.50-3.95	U	50 blows									
3.95	D										
4.00-5.00	JJVV										
4.50-5.00	SBT	1,2,2 3,3,3 N=11					(4.70)				
5.50-5.95	U	80 blows									
5.95	D										
6.50-7.00	SBT	1,3,3 4,5,5 N=17									
						-1.49	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DF
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# BOREHOLE LOG










Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA027</b>	
Job No <b>12170626</b>	Date 17-07-07 17-07-07	Ground Level (m AOD) <b>5.579</b>	Co-Ordinates (OS) <b>E 540920.405 N 267477.488</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.00-0.50 0.15-0.15	B JJVV					5.08	(0.50) 0.50	Grass over firm brown slightly gravelly sandy clay TOPSOIL. Gravel is fine angular to subrounded mixed lithology including flint.		TPS	
0.50-1.00	B						(1.50)	Firm grey mottled brown and orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
1.00-1.45	U	56 blows									
1.45	D										
2.00-2.50	SBT	1,1,2 2,2,3 N=9				3.58	2.00	Stiff grey CLAY with rare brown mottles (AMPTHILL CLAY).		AMP	
							(1.00)				
						2.58	3.00				
3.20-3.70	U	40 blows						Stiff dark grey fissured CLAY (AMPTHILL CLAY).		AMP	
3.90-4.40	U	50 blows									
4.40-4.90	SBT	1,1,2 2,2,3 N=9					(4.00)	5.00 Rare fine selenite crystals.		AMP	
6.50-6.95	U	65 blows									
6.95	D					-1.42	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DF		

# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA028</b>	
<b>Job No</b> 12170626	<b>Date</b> 10-07-07 10-07-07	<b>Ground Level (m AOD)</b> 8.219	<b>Co-Ordinates (OS)</b> E 540348.459 N 267177.812		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1




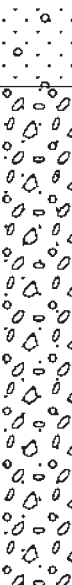

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.20-0.70	B					7.47	(0.75)	Grass over dark brown slightly gravelly clayey sand TOPSOIL with rare rootlets. Gravel is fine angular to rounded flint.		TPS
0.70-1.40 0.75-1.40 1.00	B JJVV CPT	1.3,2 2.3,3 N=10	0.75	0	↓	6.82	(0.65)	Medium dense yellow brown slightly clayey gravelly SAND. Gravel is fine angular to rounded flint. Sand is fine to coarse (TERRACE DEPOSITS).		TD
1.40-1.60	B						(0.80)	Medium dense yellow brown slightly clayey SAND with rare pockets of light grey very sandy silt (TERRACE DEPOSITS).		TD
1.80-2.00 1.80-2.00 2.00	JJVV B SPT	1.2,1 3.4,3 N=11	1.80	0		6.02	2.20	Medium dense grey brown thinly laminated clayey SAND and soft SILT (TERRACE DEPOSITS).		TD
2.20-2.80	B						(2.80)			TD
3.00-3.50	SBT	1.2,2 3.6,8 N=19								TD
4.00-4.50	SBT	2.2,1 1.2,3 N=7				3.22	5.00	4.00 mbgl, 1. bands becoming gravelly. Gravel is fine angular to rounded flint. 2. some black staining in silt bands.		TD
5.00-5.50	B					2.52	(0.70)	Grey slightly clayey SAND and GRAVEL. Gravel is fine angular to rounded flint (TERRACE DEPOSITS).		TD
6.00-6.50	SBT	2.1,3 4.5,5 N=17				1.22	(1.30)	Stiff dark grey CLAY (AMPTHILL CLAY).		AMP

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
10-07-07		1.40									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA029</b>	
Job No <b>12170626</b>	Date 12-09-07 13-09-07	Ground Level (m AOD) <b>8.683</b>	Co-Ordinates (OS) <b>E 540076.606 N 267244.587</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>








SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.00-0.20	BJJJVV					8.38	0.30	Grass over dark brown slightly gravelly fine sand TOPSOIL. Gravel is fine angular to subangular flint.		TPS	
0.50	D					7.88	(0.50) 0.80	Brown slightly gravelly fine to medium SAND. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
0.80-1.00	BJJJV							Orange brown gravelly fine to coarse SAND. Gravel is fine to medium angular to subrounded flint and chalk. Becoming light brown from 1.1m and very gravelly from 2m (TERRACE DEPOSITS).		TD	
1.00-1.45	CBT	5,10,9 9,10,12 N=40/ 260					(1.50)				
1.00-1.50	CBT	5,10,9 9,10,12 N=40/ 260				6.38	2.30	Light brown very sandy fine to medium angular to subrounded flint and chalk GRAVEL. Rare cobbles of flint at base (TERRACE DEPOSITS).		TD	
2.00-2.45	CBT	1,2,4 5,11,12 N=32					(4.30)				
2.00-2.50	CBT	1,2,4 5,11,12 N=32						Probably moderately strong grey SILTSTONE (KIMMERIDGE CLAY). Stiff blue dark grey CLAY (KIMMERIDGE CLAY).		KIM KIM	
2.30-2.50	JJJV					2.08	6.60				
3.00-3.50	B					1.98	6.70				
4.00-4.50	B					1.73	6.95				
5.00-5.50	B										
6.00-6.50	B										
6.70-7.15	SBT	3,3,3 5,5,7 N=20									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA030</b>	
Job No <b>12170626</b>	Date 16-07-07 16-07-07	Ground Level (m AOD) <b>8.298</b>	Co-Ordinates (OS) <b>E 539954.244 N 267133.289</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.00-0.30 0.15-0.15	B JJVV						(0.60)	MADE GROUND: grass and vegetation over brown slightly gravelly sand topsoil. Gravel is fine angular flint and brick, 0.10 mbgl, rare charcoal.		MG	
0.50-1.00	B					7.70	0.60				
1.00		5,7,12 14,14,15 N=55				7.30	1.00	Orange brown to brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
1.50-1.95 1.50-1.50	U JJVV	30 blows									
2.00		8,11,21 20,9 N=50/ 185						(3.20)	Dense to very dense brown sandy GRAVEL. Gravel is fine to coarse angular to subrounded flint of mixed lithology (TERRACE DEPOSITS).		TD
2.50-3.00	B										
3.00		4,9,16 21,13 N=50/ 210									
3.50-3.85	U	50 blows									
3.95 4.00	D	2,2,3 4,4,3 N=14				4.10	4.20		4.00 mbgl, becoming silty.		
4.50-5.00	B								Firm grey fine sandy SILT (TERRACE DEPOSITS).		
5.00	SPT	0,1,2 3,3,3 N=11					(1.90)	5.00 mbgl, becoming pale grey and slightly sandy, slightly gravelly. Gravel is fine subangular/subrounded flint.		TD	
5.50-5.95	U	90 blows									
5.95	D				2.20	6.10					
6.50-7.00	SBT	1,2,3 4,6,6 N=19					(0.90)	Stiff dark grey fissured CLAY with rare fossils (AMPTHILL CLAY).		AMP	
							1.30	7.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
16-07-07		1.00									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JM
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>BHA031</b>	
<b>Job No</b> 12170626	<b>Date</b> 13-07-07 13-07-07	<b>Ground Level (m AOD)</b> 8.359	<b>Co-Ordinates (OS)</b> E 539955.059 N 266993.024		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1

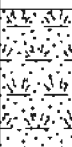
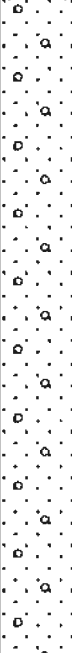

SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.20-0.80 0.20-0.80	JJV B		0.20	0	↓		(1.10)	Grass over dark brown slightly clayey slightly gravelly SAND with rare rootlets. Gravel is fine angular to rounded flint. Sand is fine to coarse (TERRACE DEPOSITS).		TD	
1.00 1.10-1.60	SPT B	3.8,11 12,10,8 N=39				7.26	1.10	Dense yellow brown slightly clayey SAND and GRAVEL. Gravel is fine angular to rounded flint. Sand is fine to coarse. One band of yellow brown gravelly silt 0.2m thick at 2.3m. Gravel is fine angular to rounded flint (TERRACE DEPOSITS).		TD	
2.00-2.50	JJV B	2.3,3 4.3,4 N=14	2.00	0			(1.70)	2.30 - 2.80 mbgl, 20cm thick bands of yellow brown gravelly SILT. Gravel is fine angular to rounded flint.		TD	
3.00-3.50	JJV B	3.4,5 6.5,4 N=20	3.00	0		5.56	2.80	Soft to firm light grey slightly sandy slightly gravelly SILT. Gravel is fine rarely medium angular to rounded flint (TERRACE DEPOSITS).		TD	
4.00	CPT	2.2,4 8,14,15 N=41				4.66	3.70	Dense yellow orange and brown slightly clayey slightly sandy GRAVEL. Sand is medium to coarse. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD	
5.00	CPT						(1.00)	Yellow brown slightly clayey SAND and GRAVEL. Gravel is fine to medium angular to rounded flint. Sand is medium to coarse (TERRACE DEPOSITS).		TD	
5.50-6.00	B					2.86	5.50	Yellow brown slightly clayey very gravelly SAND. Gravel is fine to medium angular to rounded flint. Sand is fine to coarse (TERRACE DEPOSITS).		TD	
6.10-6.60	B					2.26	6.10	Stiff to firm dark grey fissured and very thinly laminated CLAY (AMPHILL CLAY).		AMP	
						1.36	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHA032</b>	
Job No <b>12170626</b>	Date 11-07-07 11-07-07	Ground Level (m AOD) <b>9.318</b>	Co-Ordinates (OS) <b>E 540171.752 N 267031.989</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.20-0.70	B					(1.20)	Grass over dark brown slightly clayey gravelly sand TOPSOIL with frequent rootlets. Gravel is fine angular to rounded flint.		TPS		
1.00	SPT	1.4.4 10,11,10 N=35	1.20	0	↓	8.12	1.20	Yellow brown clayey SAND and GRAVEL. Gravel is fine angular to rounded flint (TERRACE DEPOSITS).		TD	
1.20-1.60	B							2.00 mbgl, material becoming very wet.			
1.20-1.60	JVV										
2.00	SPT	4.8,10 10,11,13 N=44						3.00 mbgl, becoming slightly clayey.			
3.00-3.50	JVV	8.19,30 20 N=50/ 115	3.00	0		(5.50)					
4.00-4.50	B										
4.60	CPT	8,9,11 12,22,5 N=50/ 232						4.60 mbgl, grave becomes fine medium with occasional coarse gravel.			
						2.62	6.70				
						2.32	7.00	Stiff dark grey fissured and very thinly laminated CLAY (AMPTHILL CLAY).		AMP	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
11-07-07		1.20									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHA033</b>	
Job No <b>12170626</b>	Date <b>11-07-07</b> <b>11-07-07</b>	Ground Level (m AOD) <b>8.962</b>	Co-Ordinates (OS) <b>E 540309.289 N 266987.942</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>




SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend			
0.20-0.70 0.20-0.70	B JJVV		0.20	0	↓	8.26	(0.70) 0.70	Grass over dark brown slightly clayey gravelly sand TOPSOIL with frequent rootlets. Gravel is fine angular to rounded flint.		TPS		
1.00-1.50	CBT	3,5,8 9,10,10 N=35							Dense yellow brown slightly clayey SAND and GRAVEL. Gravel is fine angular to rounded flint. Sand is fine to coarse (TERRACE DEPOSITS).		TD	
1.50-2.00	B											
2.00-2.50	CBTV	3,4,8 8,8,13 N=37	2.00	0								
2.00-2.50	CBT	3,4,8 8,8,13 N=37										
3.00-3.50	CBT	4,5,8 11,14,11 N=44					(6.00)					
4.00-4.50	SBT	4,6,9 11,11,8 N=39				2.26	6.70	4.00 mbgl, gravel becomes fine to medium.				
5.00-5.50	SBT	1,3,7 7,6,6 N=26				1.96	7.00	5.00 mbgl, becoming grey brown. 5.00 - 5.20 mbgl, band of light grey SILT.				
								Stiff dark grey fissured and very thinly laminated CLAY with rare fossils (Belemnites) (AMPTHILL CLAY).		AMP		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
11-07-07		1.40									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

<b>Project</b> Northstowe				<b>BOREHOLE No</b> <b>PTM001</b>	
<b>Job No</b> 12170626	<b>Date</b> 20-07-07 20-07-07	<b>Ground Level (m AOD)</b> 8.851	<b>Co-Ordinates (OS)</b> E 539695.354 N 267389.565		
<b>Supervising Engineer</b> JMC / LF / CW / RLC			<b>Client</b> Gallagher Estates & English Partnerships		<b>Sheet</b> 1 of 1

SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.20-0.70	JJJJV						(1.10)	MADE GROUND: Black and brown slightly clayey very gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to subangular roadstone and clinker.		MG	
1.00	SPT	2,2,5 14,18,16 N=54/ 255				7.75	1.10				
1.30-1.60	JJV					7.55	1.30	Brown mottled orange slightly sandy very gravelly CLAY. Gravel is fine to medium angular flint (TERRACE DEPOSITS).		TD	
2.00	SPT	7,8,9 9,10,10 N=38						Dense orange brown SAND and GRAVEL. Gravel is fine to medium angular to subangular of mixed lithology including flint (TERRACE DEPOSITS).			
3.00	SPT	3,7,7 10,11,15 N=43					(4.80)	2.00 mbgl, becoming orange brown SAND and GRAVEL. Gravel is fine angular to subangular flint and mixed lithology.		TD	
4.00-4.50	SPT	5,6,3 5,7,8 N=24						3.00 mbgl, becoming medium dense orange brown slightly gravelly SAND.			
5.00	SPT	1,3,4 4,8,8 N=24				2.75	6.10				
6.50	SPT	1,3,4 4,8,8 N=24					(0.90)	Stiff dark grey CLAY with rare fossils (AMPTHILL CLAY).		AMP	
						1.85	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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WSP Environmental  
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB001</b>	
Job No <b>12170626</b>	Date <b>26-09-05</b> <b>26-09-05</b>	Ground Level (m AOD) <b>5.840</b>	Co-Ordinates (OS) <b>E 541099.561 N 267200.026</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					5.44	0.40	Soft brown sandy clayey TOPSOIL.		TPS	
0.50-1.00	BJJV						(0.60)	Firm light brown mottled grey and orange slightly gravelly sandy CLAY. Gravel is fine subangular chalk (KIMMERIDGE CLAY).		KIMM	
1.00-1.50	DB	3,0,2 2,2,3 N=8				4.84	1.00	Firm friable brown mottled grey and orange slightly sandy gravelly CLAY. Gravel is fine to medium subangular chalk becoming less frequent from 2.0m bgl. Stiff mottled brown laminated clay with rare gypsum from 3.0m (AMPTHILL CLAY).		AMP	
2.00-2.50	DB	3,0,3 2,3,2 N=10				(2.90)					
3.00	U	36 blows				1.94	3.90				
3.50	D						(0.50)	Weak light grey SILTSTONE (AMPTHILL CLAY).		AMP	
3.90-4.40	BJJV	7,0,6 6,7,7 N=26				1.44	4.40	Firm to stiff brownish grey CLAY (AMPTHILL CLAY).		AMP	
4.00	D						(2.60)				
5.00	U	52 blows									
5.50	D										
6.50-7.00	DB	7,0,6 5,5,6 N=22				-1.16	7.00				
7.00	O										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Del	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres  
Scale 1:62.5

Contractor / Driller

Method/Plant Used  
Cable Percussive Rig

Logged By  
DB

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB001A</b>	
Job No <b>12170626</b>	Date <b>12-06-07</b> <b>12-06-07</b>	Ground Level (m AOD) <b>6.628</b>	Co-Ordinates (OS) <b>E 541081.995 N 267226.887</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
						6.43	0.20	Grass over brown sandy clay TOPSOIL		TPS	
0.40-0.70	B						(1.10)	Stiff to very stiff slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
0.50-0.70	JJV										
1.00-1.40	U					5.33	1.30	Stiff to very stiff grey mottled orange brown CLAY. Becoming grey mottled dark green brown and with rare selenite crystals from 2m (AMPTHILL CLAY).		AMP	
2.00	JSNV	1,3,4 5,4,5 N=18									
2.00-2.50	SPR	1,3,4 5,4,5 N=18									
3.00-3.45	U										
4.00-4.50	SPR	11,4,3 4,4,8 N=17					(5.70)				
5.00-5.45	U										
5.50-7.00	SPR	1,2,3 5,4,5 N=17				-0.37	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Sink	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB002</b>	
Job No <b>12170626</b>	Date <b>08-06-07</b> <b>08-06-07</b>	Ground Level (m AOD) <b>8.330</b>	Co-Ordinates (OS) <b>E 541282.423 N 267212.986</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40-0.60 0.50	JJJVV B		0.50	0		7.68	(0.65) 0.65	MADE GROUND: Grass over dark brown slightly silty gravelly sand. Sand is fine to medium. Gravel is fine to medium angular to subangular flint, chalk and rare black glassy slag.		MG	
0.65-1.00	B							Orange brown slightly gravelly very clayey SAND. Sand is fine to medium. Gravel is fine subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
1.00-1.45	U					6.83	(0.85) 1.50	Stiff to very stiff grey mottled Orange brown CLAY. Becoming very stiff and mottled brown with rare selenite crystals from 2.5m (AMPTHILL CLAY).		AMP	
1.60	D										
2.00-2.50	SPT	1,2,2 2,3,8 N=13									
2.00-3.45	U										
3.50 3.60	JJJVV D		3.50	0							
4.00-4.50	SPT	14,10,5 3,4,5 N=18					(5.50)				
5.00-5.60	SPT	25,50 N=50/ 30									
6.50-7.00	SPT	4,5,7 9,10,1 N=27				1.33	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres  
 Scale 1:62.5

Contractor / Driller

Method/Plant Used  
 Cable Percussive Rig

Logged By  
 LF

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB003</b>	
Job No <b>12170626</b>	Date <b>07-06-07</b> <b>07-06-07</b>	Ground Level (m AOD) <b>7.080</b>	Co-Ordinates (OS) <b>E 541519.363 N 267000.028</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.30	B					6.78	0.30	Grass over brown slightly gravelly sandy clay TOPSOIL with frequent rootlets. Gravel is fine to medium angular to subangular flint.		TPS	
0.30-0.60	B		0.30	0		6.48	0.60				
0.30-0.60	JJVV							Soft light brown sandy CLAY with cobble sized pockets of fine to medium subangular to rounded flint gravel (TERRACE DEPOSITS).		TD	
1.00-1.35	U						(1.20)				
1.20-1.50	JJV		1.20	0				Soft mottled orange and grey sandy slightly gravelly CLAY with rare coarse gravel sized pockets of grey silt. Gravel is fine to medium subangular to rounded (TERRACE DEPOSITS).		TD	
1.50-1.80	B					5.28	1.80				
2.00	SBT	1,2,3 4,4,6 N=17				4.98	2.10	Medium dense brown orange sandy GRAVEL. Gravel is fine flint. (TERRACE DEPOSITS).		TD	
2.10-2.90	B						(1.00)	Firm grey mottled orange CLAY (AMPTHILL CLAY).		AMP	
3.10-3.55	SBT	18,7,5 5,6,6 N=22	3.10	0		3.98	3.10	Firm grey CLAY with wood remains and pockets or bands of light grey friable silt (AMPTHILL CLAY).		AMP	
3.10-3.55	SBT	18,7,5 5,6,6 N=22				3.53	3.55				
4.10-4.35	U							Stiff grey CLAY (KIMMERIDGE CLAY).		KIM	
4.80	D										
5.10-5.65	SBT	2,3,5 5,6,6 N=23					(3.45)				
6.50-7.00	SBT	2,3,5 5,4,5 N=18				0.08	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres  
Scale 1:62.5

Contractor / Driller

Method/Plant Used

Cable Percussive Rig

Logged By

RLC





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B1  
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB004</b>	
Job No <b>12170626</b>	Date <b>23-09-05</b> <b>23-09-05</b>	Ground Level (m AOD) <b>8.090</b>	Co-Ordinates (OS) <b>E 541299.543 N 267000.048</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>









SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	FID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					7.69	0.40	Firm dark brown sandy slightly gravelly clay TOPSOIL. Gravel is fine to medium subangular flint.		TPS	
0.50-1.00	B,J,V										
0.60	D										
1.00-1.50	DB	20.3 22.3 N=10					(1.60)	Medium dense dark brown clayey SAND and GRAVEL. Gravel is fine to medium subangular chalk and flint. Becoming orange with more gravel from 1.0m. With orange sandy mottling from 1.8m (TERRACE DEPOSITS).		TD	
1.80	D										
2.00-2.50	DB	30.2 23.3 N=10				6.09	2.00	Firm to stiff dark grey slightly gravelly CLAY. Gravel is fine to medium subangular flint with rare fossils from 3.5m bgl (KIMMERIDGE CLAY REWORKED).		KIMM	
3.00	U	47 blows					(2.00)				
3.50	D										
4.00-4.50	DB,J,V	40.5 54.5 N=19				4.09	4.00	Stiff dark grey slightly gravelly CLAY. Gravel is fine subangular chalk (KIMMERIDGE CLAY REWORKED).		KIMM	
5.00-5.50	DB	50.6 45.6 N=21				3.09	5.00	Stiff dark grey gravelly CLAY. Gravel is fine to medium subrounded to rounded chalk and flint. With no gravel from 6.5m (AMPTHILL CLAY REWORKED).		AMP	
6.50-7.00	DB	60.7 66.7 N=26				1.09	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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## BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB006</b>	
Job No <b>12170626</b>	Date <b>22-09-05</b> <b>22-09-05</b>	Ground Level (m AOD) <b>7.990</b>	Co-Ordinates (OS) <b>E 540899.566 N 267000.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					7.49	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS	
0.50-1.00	D					6.99	(0.50) 1.00	Firm dark brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint (TERRACE DEPOSITS).		TD	
1.00-1.50	BD	12,2 2,3,2 N=9					(1.30)	Firm thickly laminated brown mottled orange and grey sandy slightly gravelly CLAY. Gravel is fine to medium chalk and flint (TERRACE DEPOSITS).		TD	
2.00-2.50	BD	2,2,3 3,4,4 N=14				5.69	2.30	Medium dense orange clayey very gravelly fine to coarse SAND. Gravel is fine to medium subangular flint (TERRACE DEPOSITS).		TD	
2.60	D					5.39	2.60				
3.00-3.45	U	37 blows					(0.70)	Firm brown mottled orange sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint (AMPTHILL CLAY).		AMP	
3.50	D					4.69	3.30	Very weak light grey SILTSTONE (AMPTHILL CLAY).		KIMM	
4.00-4.50	B	2,3,4 4,3,4 N=15				4.39	3.60				
4.00	D	2,3,4 4,3,4 N=15					(2.90)	Firm becoming stiff grey mottled dark grey CLAY with rare selenite crystals from 4.0m bgl (AMPTHILL CLAY).		AMP	
5.00-5.50	BD	3,3,4 5,5,4 N=18				1.49	6.50	Very weak light grey SILTSTONE (AMPTHILL CLAY).		AMP	
6.50-7.00	BD	3,4,6 5,6,6 N=23				1.29	6.70				
7.00	D					0.99	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB007</b>	
Job No <b>12170626</b>	Date <b>23-09-05</b> <b>23-09-05</b>	Ground Level (m AOD) <b>9.160</b>	Co-Ordinates (OS) <b>E 540899.566 N 266800.020</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>		Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	B/JV					8.66	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS	
1.00		12,2 3,2,2 N=9				8.16	(0.50) 1.00	Loose brownish orange gravelly clayey SAND. Gravel is fine to medium subrounded to subangular flint (TERRACE DEPOSITS)		TD	
1.50-2.00	B						(1.30)	Loose to medium dense orange slightly clayey gravelly SAND. Gravel is fine to medium subangular flint and fine subrounded chalk (TERRACE DEPOSITS).		TD	
2.00-2.50	B/JV	1,1,3 3,3,2 N=11				6.86	2.30				
3.00-3.50	B	2,2,3 4,4,3 N=14					(2.70)	Firm grey slightly gravelly CLAY. Gravel is fine subrounded chalk. Becoming dark grey with no gravel from 3m bgl. Becoming stiff from 4.0m bgl (KIMMERIDGE CLAY REWORKED).		KIMM	
4.00-4.50	B	2,2,4 3,4,5 N=16									
5.00-5.50	B	2,3,5 6,7,7 N=25				4.16	5.00	Stiff light grey very gravelly CLAY (KIMMERIDGE CLAY REWORKED).		KIMM	
6.00		5,7,6 5,5,6 N=22				2.96	6.20				
6.50-7.00	clay						(0.80)	Stiff thickly laminated dark grey gravelly CLAY. Gravel is fine subrounded chalk and flint (KIMMERIDGE CLAY REWORKED).		KIMM	
						2.16	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Opt	From	To	Hours	From	To	
						4.9	5.3	0.5			
Date	Time	Strike	Minutes	Standing	Casing						
		2.20	15	1.60							
All dimensions in metres Scale 1:52.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB008</b>	
Job No <b>12170626</b>	Date <b>21-09-05</b> <b>21-09-05</b>	Ground Level (m AOD) <b>9,790</b>	Co-Ordinates (OS) <b>E 541099.579 N 266800.029</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	DB/JV					9.29	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS	
1.00-1.50	B	6.0,3 3.4,3 N=13						Soft to firm brown and grey sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk and flint. Becoming firm from 1.1m (TERRACE DEPOSITS).		TD	
1.10	D						(2.50)				
2.00	U	39 blows									
2.50	D										
3.00-3.50	DB/JV	8.0,5 4.5,4 N=18				6.79	3.00	Stiff grey very gravelly CLAY with rare fossils. Gravel is fine chalk (KIMMERIDGE CLAY REWORKED).		KIMM	
4.00	U	39 blows									
4.50	D						(2.80)				
6.00-5.50	DB	7.0,4 5.4,5 N=18									
5.80	D	9.0,9 8.9,9 N=35				3.99	5.80	Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
						3.59	6.20	Stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
							(0.80)				
7.00	D					2.79	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Opt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:50.0	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB009</b>	
Job No <b>12170626</b>	Date <b>21-09-05</b> <b>21-09-05</b>	Ground Level (m AOD) <b>8.190</b>	Co-Ordinates (OS) <b>E 541299.563 N 266800.035</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D				↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	7.79	0.40	Soft brown sandy clayey TOPSOIL.		TPS	                 
0.50-1.00	BJJV					7.39	0.80	Firm orange brown sandy slightly gravelly CLAY. Gravel is fine to medium subrounded flint and chalk (TERRACE DEPOSITS).		TD	
0.80	D						(1.50)	Medium dense orange brown slightly clayey very gravelly fine to medium SAND. Gravel is fine to medium subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TO	
1.00	D	5.06 4.45 N=19									
1.50-2.00	B										
2.00-2.50	DBJJV	4.05 5.45 N=19				5.99	2.30	Firm grey CLAY (KIMMERIDGE CLAY).		KIMM	
							(0.60)				
						5.29	2.90	Firm friable light grey CLAY (KIMMERIDGE CLAY).		KIMM	
3.00-3.50	DB	3.02 3.44 N=13				4.99	3.20	Firm to stiff dark grey CLAY. With brown mottling from 6.0m (KIMMERIDGE CLAY).		KIMM	
4.00-4.50	DBJJV	3.03 4.45 N=16									
5.00	U	57 blows				(3.80)					
5.50	D										
6.50	DU	73 blows									
7.00	D				1.19	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						Groundwater encountered at 1.7m rising to 1.3m after 15 mins.
		1.70	15	1.30							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		

# BOREHOLE LOG

Project Northstowe				BOREHOLE No <b>BHB010</b>	
Job No 12170626	Date 21-09-05 21-09-05	Ground Level (m AOD) 6.760	Co-Ordinates (OS) E 541499.553 N 266800.035		
Supervising Engineer JMC / LF / CW / RLC		Client Gallagher Estates & English Partnerships		Sheet 1 of 1	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	DBJJV					6.26	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS	
0.80	D					5.96	0.80	Soft brown mottled orange very sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint and chalk (TERRACE DEPOSITS).		TD	
1.00	U	34 blows					(0.60)				
1.50	D					5.36	1.40	Firm brown mottled orange and grey sandy slightly gravelly CLAY. Gravel is fine subrounded chalk (TERRACE DEPOSITS).		TD	
						5.16	1.60				
2.00-2.50	DB	3,0,2 2,3,2 N=6					(2.20)	Light brown clayey slightly sandy GRAVEL. Gravel is fine to medium subangular flint (TERRACE DEPOSITS). Firm becoming stiff grey sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded flint (KIMMERIDGE CLAY REWORKED).		KIMM	
3.00	U	48 blows									
3.50	D					2.96	3.80				
4.00-4.50	DBJJV	4,0,3 4,5,5 N=17					(3.20)	Firm to stiff dark grey CLAY with rare fossils from 5.9m. No fossils from 6.5m (KIMMERIDGE CLAY).		KIMM	
5.00	U	78 blows									
5.50	D										
6.00		5,0,5 6,7,8 N=27									
6.50-7.00	DB					-0.24	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dat	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		1.50	15	1.20							

All dimensions in metres  
Scale 1:62.5

Contractor / Driller

Method/Plant Used  
Cable Percussive Rig

Logged By  
DB

Groundwater encountered at 1.5m rising to 1.2m after 15 mins.

# BOREHOLE LOG

Project Northstowe				BOREHOLE No <b>BHB011</b>	
Job No 12170626	Date 21-09-05 21-09-05	Ground Level (m AOD) 6.630	Co-Ordinates (OS) E 541499.553 N 266600.030		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50-1.00	DB/JV					6.23	0.40	Soft brown sandy clayey TOPSOIL.		TPS	
1.00	U	50 blows					(1.50)	Firm brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint and chalk (TERRACE DEPOSITS).		TD	
1.50	D					4.73	1.90	Stiff to very stiff grey mottled brown sandy CLAY (KIMMERIDGE CLAY).		KIMM	
1.90	D					3.73	2.90	Stiff to very stiff grey mottled brown sandy CLAY (KIMMERIDGE CLAY).		KIMM	
2.00-2.50	B	9.0,7 10.8,10 N=35				3.23	(0.50) 3.40	Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
3.00-3.50	BJJV	12.0,7 10.8,10 N=35					(2.80)	Firm to stiff grey mottled brown sandy CLAY. Becoming very stiff and darker with yellow mottling, fossils and fine subrounded chalk from 5.0m (KIMMERIDGE CLAY).		KIMM	
4.00-4.50	DB	6.0,3 3.5,3 N=14				0.43	6.20	Stiff to very stiff friable light grey sandy CLAY (KIMMERIDGE CLAY).		KIMM	
5.00	U	00 blows				-0.07	(0.50) 6.70	Stiff to very stiff dark grey mottled yellow CLAY with fossils and fine subrounded chalk (KIMMERIDGE CLAY).		KIMM	
5.50	D					-0.37	7.00	Stiff to very stiff dark grey mottled yellow CLAY with fossils and fine subrounded chalk (KIMMERIDGE CLAY).		KIMM	
6.20	D										
6.50	D	10.0,5 10.8,10 N=33									
6.70	D										
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		2.90	05	2.70	1.00						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		



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# BOREHOLE LOG

Project Northstowe				BOREHOLE No <b>BHB012</b>	
Job No 12170626	Date 20-09-05 20-09-05	Ground Level (m AOD) 7.700	Co-Ordinates (OS) E 541299.557 N 266600.030		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument	Backfill
0.50-1.00 0.60	BJJV D					7.10	(0.60) 0.60	Soft brown sandy clayey TOPSOIL.		TPS		
1.00-1.60	B	6.0,3 4.3,5 N=15				6.00	(1.10) 1.70	Firm to stiff laminated grey mottled brown and orange slightly sandy slightly gravelly CLAY. Gravel is fine subrounded chalk (TERRACE DEPOSITS).		TD		
1.70	D					4.80	(1.20) 2.90	Firm to stiff brown mottled orange and grey sandy slightly gravelly CLAY. Gravel is fine to medium flint and chalk. Becoming very dark grey with fossils, pyrite and selenite crystals (approximately 2mm in length) from 2.0m (KIMMERIDGE CLAY).		KIMM		
2.00-2.50	B	7.0,3 4.3,5 N=15				4.60	3.10	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM		
2.90	D	8.0,5 7.8,7 N=27						Stiff grey slightly sandy CLAY (KIMMERIDGE CLAY).		KIMM		
3.00	D											
3.10	D											
4.00-4.50	DBJV	7.0,3 4.5,5 N=17					(3.20)			KIMM		
5.00	U	39 blows										
5.50	D											
6.30	D					1.40	6.30	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM		
6.50	D	8.0,5 4.7,9 N=25				0.90	(0.50) 6.80	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM		
7.00	D					0.70	7.00	Stiff grey CLAY (KIMMERIDGE CLAY).		KIMM		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig				Logged By DB	





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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB013</b>	
Job No <b>12170626</b>	Date <b>22-09-05</b> <b>22-09-05</b>	Ground Level (m AOD) <b>9.080</b>	Co-Ordinates (OS) <b>E 541099.571 N 266600.030</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>		Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	DB/JV					8.58	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS	
0.80	D					8.28	0.80	Firm dark brown mottled orange grey sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular flint (TERRACE DEPOSITS).		TD	
1.00-1.50	DB	3,0,2 3,3,2 N=10					(1.80)	Medium dense brown and orange very clayey slightly sandy GRAVEL. Gravel is fine to medium subangular to subrounded flint (TERRACE DEPOSITS).		TD	
2.00-2.50	DB	4,0,2 2,4,3 N=11				6.48	2.60	Firm grey and brown sandy slightly gravelly CLAY. Gravel is fine to medium subrounded flint and chalk. Becoming grey mottled brown with rare fossils from 3.0m bgl (KIMMERIDGE CLAY REWORKED).		KIMM	
3.00-3.50	DB/JV	3,0,4 4,3,4 N=15				5.28	(1.20) 3.80	Firm light grey CLAY (KIMMERIDGE CLAY)		KIMM	
4.00-4.50	DB	5,0,4 3,5,3 N=15				4.18	(1.10) 4.90	Stiff grey mottled brown CLAY with rare selenite crystals (approximately 1mm in length). Becoming stiff with no selenite crystals from 5.3m. (KIMMERIDGE CLAY)		KIMM	
4.20	D						(2.10)				
5.00-5.50	DB	6,0,6 5,4,3 N=18				2.08	7.00				
5.30	D										
6.50	D	6,0,5 5,4,5 N=19									
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5 Contractor / Driller Method/Plant Used Cable Percussive Rig Logged By DB



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB014</b>	
Job No <b>12170626</b>	Date <b>06-06-07 06-06-07</b>	Ground Level (m AOD) <b>9.248</b>	Co-Ordinates (OS) <b>E 540947.586 N 266600.303</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.50 0.00-0.50	B J/V							Grass over firm dark orange brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).			
1.00-1.50	SBT	2,2,2 12,12,13 N=39					(2.20)	1.00 mbgl, becoming wet orange brown clay with frequent pockets of light grey clay.		TD	
2.00-2.50	SBT	3,4,2 3,3,4 N=12				7.05	2.20				
2.50-3.00	B							Firm grey slightly gravelly CLAY with rare medium gravel sized pockets of black mottling and pockets of coarse sand. Gravel is fine to medium subangular to rounded chalk and selenite (KIMMERIDGE CLAY). 3.00 mbgl, with rare bands of weak grey siltstone.			
3.30	U										
3.80	B							3.80 mbgl, Gravel is fine to coarse angular siltstone.			
4.30	SBT	2,3,4 5,30,11 N=50/ 236					(4.80)			KIM	
4.30	SBT	2,3,4 5,30,11 N=50/ 236									
5.30	U										
7.00	SBT	8,9,15 35 N=50/ 115				2.25	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		4.20									
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By CW		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB015</b>	
Job No <b>12170626</b>	Date <b>05-06-07</b> <b>05-06-07</b>	Ground Level (m AOD) <b>8.588</b>	Co-Ordinates (OS) <b>E 541098.869 N 266400.093</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>






SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.30 0.00-0.40	B JLVV		0.00	0	↓	8.18	0.40	Firm brown slightly gravelly sandy CLAY with many rootlets and rare black mottling. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
0.90 1.00-1.45	D U			7.29		(0.90) 1.30	Soft to firm orange brown sandy slightly gravelly CLAY with rare rootlets at 0.4m. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD		
1.50-2.00 1.50-2.00	JLV B		1.50	0				Orange brown clayey SAND and GRAVEL. Gravel is fine to medium angular to subangular. Slightly clayey and gravel is angular to rounded from 2.5m. Becoming light yellow grey with depth (TERRACE DEPOSITS).		TD	
2.00-2.50	SPT	3,4,4 4,3,3 N=18									
3.00-3.50	SPT	4,11,17 21,12 N=50 190					(4.50)			TD	
4.00-5.00	B										
5.00-5.80	B										
5.80-6.00 5.30-6.50	B SPT	3,4,6 7,7,9 N=39				2.79	5.80	Stiff to very stiff grey CLAY with rare fine sand selenite crystals (KIMMERIDGE CLAY).		KIM	
7.00-7.04	U					1.59	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
05-06-07		1.00									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB016</b>	
Job No <b>12170626</b>	Date <b>04-06-07</b> <b>05-06-07</b>	Ground Level (m AOD) <b>8.087</b>	Co-Ordinates (OS) <b>E 541292.879 N 266436.287</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.60 0.00-0.35	JJVV B		0.50	0		7.29	(0.80) 0.80	Grass over dark brown sandy slightly gravelly clay TOPSOIL with rootlets. Gravel is fine to medium subangular to subrounded flint.		TPS	
						6.59	(0.70) 1.50	Soft brown mottled orange slightly gravelly sandy CLAY. Gravel is fine to medium angular flint (TERRACE DEPOSITS).		TD	
2.00-2.20 2.00-3.00	SPT SPT	1,2,3 4,4,5 N=16 1,2,3 4,4,5 N=16	2.10	0			(2.30)	Firm light grey to grey mottled orange slightly sandy CLAY with rare fine subangular flint and rare rootlets and wood remains (TERRACE DEPOSITS).		TD	
3.00-3.50 3.00-3.45	U U					4.29	3.80				
3.80-4.00 4.00-4.50	B SPT	2,2,2 3,4,4 N=13	3.80	0	↓	4.04	4.05	Light grey to grey friable sandy SILT with coarse gravel size clay pockets (TERRACE DEPOSITS). Stiff light grey CLAY (KIMMERIDGE CLAY).		TD	
5.00-5.03 5.80	U D						(2.95)			KIM	
6.50-7.00	SPT	1,3,4 3,4,5 N=16				1.09	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt.	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
		4.05									

No groundwater encountered. Steel liner failed to attach to slide hammer and remained in the ground. Liner dug out by JCB. Sampling resumed after 2m bgl.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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## BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB017</b>	
Job No <b>12170626</b>	Date <b>01-06-07 04-06-07</b>	Ground Level (m AOD) <b>7.276</b>	Co-Ordinates (OS) <b>E 541508.999 N 266444.289</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.40	D					7.08	0.20	Grass over dark brown very sandy clay TOPSOIL.		TPS
0.80	D						(0.80)	Soft brown mottled grey orange slightly gravelly sandy CLAY. Gravel is fine subangular flint and siltstone (TERRACE DEPOSITS).		TD
0.90	D		0.90	0		6.28	1.00	Soft to firm brown orange gravelly very clayey SAND. Gravel is fine subangular to rounded flint (TERRACE DEPOSITS).		TD
1.00-1.45	U					5.68	1.60	1.45 mbgl becoming very gravelly.		
1.50	D							Soft to firm light grey mottled orange slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint with frequent large gravel size pockets of silt (TERRACE DEPOSITS).		
1.60	B		1.90	0				2.20 mbgl becoming stiff grey slightly sandy clay with occasional medium gravel size pockets of siltstone.		
1.80-2.00	JJV	1,2,2 3,4,5 N=14								
2.00	SPT									
2.70	D									
3.00-3.45	U									
3.60-4.00	BC		3.60	0						
3.60	JJV									
4.00-4.50	SPT	4,3,4 5,5,6 N=20					(5.40)			TD
5.00-5.45	U							4.80 - 5.10 Light grey band of silt containing plant/wood fibres.		
5.80	D									
6.50-7.00	SPT	2,3,4 5,5,6 N=20				0.28	7.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Opt	From	To	Hours	From	To	

Slight seepage encountered at 4.05m

All dimensions in metres  
Scale 1:62.5

Contractor / Driller

Method/Plant Used






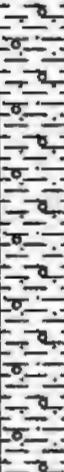
Cable Percussive Rig

Logged By

RLC

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB018</b>	
Job No <b>12170626</b>	Date <b>23-09-05</b> <b>23-09-05</b>	Ground Level (m AOD) <b>6.070</b>	Co-Ordinates (OS) <b>E 541669.591 N 266513.392</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.40	D					5.67	0.40	Firm brownish orange sandy slightly gravelly clay TOPSOIL. Gravel is fine to medium subangular to subrounded flint and chalk.		TPS	
0.50-1.00	BJJV						(0.60)	Firm dark brown sandy slightly gravelly CLAY. Gravel is fine to medium subrounded flint and chalk (TERRACE DEPOSITS).		TD	
0.80	D					5.07	1.00	Firm brown and grey sandy slightly gravelly CLAY. Gravel is fine subrounded chalk (TERRACE DEPOSITS).		TD	
1.00-1.50	DB	3.0,2 3.3,3 N=11				4.57	1.50	Firm brown and grey sandy slightly gravelly CLAY. Gravel is fine subrounded chalk (TERRACE DEPOSITS).		TD	
1.90	D						(1.10)	Medium dense light brown and grey very gravelly slightly clayey fine to coarse SAND. Gravel is fine to medium subrounded flint (TERRACE DEPOSITS).		TD	
2.00-2.50	DB	3.0,3 2.4,3 N=12				3.47	2.60				
2.60	D						(4.40)				
3.00	U	48 blows						Firm brown and grey slightly sandy slightly gravelly CLAY. Gravel is fine subrounded flint. Becoming grey mottled orange from 4.0m. Becoming stiff and dark grey with fossils from 6.0m (KIMMERIDGE CLAY).			
3.60	D										
4.00-4.50	DBJJV	5.0,4 2.3,3 N=12									
5.00	U	70 blows									
5.50	D										
6.60-7.00	DB	6.0,5 5.4,5 N=19				-0.93	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB019</b>	
Job No <b>12170626</b>	Date <b>09-11-05</b> <b>09-11-05</b>	Ground Level (m AOD) <b>6.350</b>	Co-Ordinates (OS) <b>E 541699.549 N 266200.032</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA					Legend	Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION				
0.50-1.00	B				 1 	5.75	(0.60) 0.60	Soft brown sandy clayey TOPSOIL.			TPS	
0.60	D					5.25	(0.50) 1.10	Firm brown sandy slightly gravelly CLAY (TERRACE DEPOSITS).			TD	
0.80	U	80 blows				4.85	1.50	Soft grey mottled brown sandy slightly gravelly CLAY. Gravel is fine to medium subrounded chalk and subrounded to subangular flint (TERRACE DEPOSITS).			TD	
1.00-1.50	DB	1,2,1 2,1,2 N=6						Firm to stiff fissured grey CLAY with rare shelly fragments. Becoming stiff from 3.5m (KIMMERIDGE CLAY).			KIMM	
2.00-2.50	DB	1,2,2 3,5,4 N=14										
3.00-3.50	DB	3,4,3 4,5,3 N=15										
4.00-4.50	DB	1,2,1 10,10,8 N=29					(5.50)					
5.00-5.50	DB	4,4,4 4,5,5 N=18										
6.00	D											
7.00	D					-0.65	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		1.10	15	0.50	1.10						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By MO		



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB019A</b>	
Job No <b>12170626</b>	Date <b>27-10-05</b> <b>27-10-05</b>	Ground Level (m AOD) <b>8.950</b>	Co-Ordinates (OS) <b>E 541302.645 N 266205.264</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						8.35	(0.60) 0.60	Firm brown silty sandy TOPSOIL		TPS	
						7.95	1.00	Firm to stiff yellow brown sandy slightly gravelly CLAY.		TD	
						6.95	(1.00) 2.00	Moderately compact yellow brown clayey SAND and GRAVEL. Gravel is subangular to subrounded fine to medium flint (TERRACE DEPOSITS).		TD	
						4.15	(2.80) 4.80	Compact yellow brown slightly silty gravelly SAND. Gravel is subangular to subrounded fine to medium flint. Becoming very gravelly with rare cobbles of flint from 2.8m to 3.6m (TERRACE DEPOSITS).		TD	
						2.75	(1.40) 6.20	Firm to stiff brown mottled grey CLAY. Becoming grey from 5.5m with rare gravel size silt pockets (KIMMERIDGE CLAY).		KIMM	
						2.45	6.50	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
						1.95	(0.50) 7.00	Stiff dark grey CLAY (KIMMERIDGE CLAY).		KIMM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt.	From	To	Hours	From	To	
											Groundwater not recorded.
Date	Time	Stroke	Minutes	Standing	Casing						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By MO		





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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB020</b>	
Job No <b>12170626</b>	Date <b>31-10-05</b> <b>31-10-05</b>	Ground Level (m AOD) <b>9.900</b>	Co-Ordinates (OS) <b>E 541120.617 N 265981.674</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					9.50	0.40	Soft brown sandy slightly gravelly CLAY. Gravel is fine to medium and subangular flint (TERRACE DEPOSITS).		TD	
0.50-1.00	B					(0.80)	Stiff orange brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD		
1.00-1.40	U	00 blows				8.70	1.20			TD	
1.50	D					(1.30)	Loose orange slightly clayey very gravelly SAND. Gravel is fine to medium angular to subrounded flint. Becoming less gravelly from 2.0m (TERRACE DEPOSITS).		TD		
2.00-2.50	BD	2,1,2 1,2,2 N=7				7.40	2.50			TD	
3.00-3.50	BD	3,2,1 2,3,2 N=8				(1.50)	Loose orange medium to coarse SAND (TERRACE DEPOSITS).		TD		
4.00	D					5.90	4.00			TD	
4.00-4.50	B					(2.00)	Firm grey SILT. Becoming very sandy from 4.6m (TERRACE DEPOSITS).		TD		
4.60-5.10	BD	2,3,3 4,3,3 N=13				3.90	6.00			KIMM	
6.00	D	3,6,4 5,4,5 N=18				(1.00)	Stiff dark grey gravelly CLAY. Gravel is fine to medium angular to rounded flint KIMMERIDGE CLAYREWORKED).		KIMM		
6.70	D					2.90	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		3.00	15	2.60	3.00						

Groundwater strike at 3.0m raising to 2.6m after 15 minutes.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB021</b>	
Job No <b>12170626</b>	Date <b>13-10-05</b> <b>13-10-05</b>	Ground Level (m AOD) <b>9.670</b>	Co-Ordinates (OS) <b>E 541299.565 N 266000.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	B					9.17	(0.50) 0.50	Grass over soft dark brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
0.70	D										
1.00-1.50	BD	3,3,4 5,5,7 N=22					(1.80)	Medium dense becoming dense orange slightly gravelly fine to coarse SAND. Gravel is fine to medium and subangular flint and chalk. Becoming more gravelly from 0.8m. From 1.2m to 1.5m Becoming clayey with pockets of white sand. From 1.9m Becoming very gravelly and orange brown. Below 2.0m subangular cobbles flint present (TERRACE DEPOSITS).		TD	
2.00-2.50	BD	4,5,7 10,8,9 N=34				7.37	2.30				
2.30	D					6.97	2.70	Light grey SILT (TERRACE DEPOSITS).		TD	
3.00-3.50	B	5,8,9 11,7,9 N=38						Dense very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded flint (TERRACE DEPOSITS).		TD	
4.00-4.50	B	4,6,7 6,10,8 N=31					(3.10)				
5.00-5.50	B	5,5,8 7,8,8 N=29									
5.80	D					3.87	5.80				
6.00	D						(1.20)	Stiff light grey SILT (TERRACE DEPOSITS).		TD	
6.50-6.90	U	42 blows									
7.00	D					2.67	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
13-10-05		3.10	15	2.30	3.10						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB022</b>	
Job No <b>12170626</b>	Date <b>17-10-05</b> <b>17-10-05</b>	Ground Level (m AOD) <b>9.040</b>	Co-Ordinates (OS) <b>E 541538.814 N 266017.929</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	


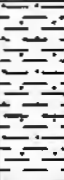
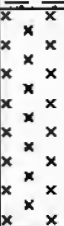

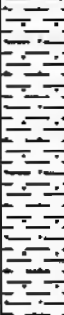
SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.15	JJV					8.94	0.10	MADE GROUND: grass over brown sandy topsoil with rare ash and roots.		MG	
0.40	D						(1.10)	Firm brown sandy CLAY with rare roots (TERRACE DEPOSITS).		TD	
0.50-1.00	B										
0.80	D										
1.00	U	100 blows				7.84	1.20	Dense yellow brown slightly clayey very sandy GRAVEL with rare bands of brown sandy clay. Gravel is fine to coarse subangular to subrounded flint (TERRACE DEPOSITS).		TD	
1.50	D										
1.80	JJV										
2.00-2.50	DB	3,0,8 13,9,5 N=35					(2.00)			TD	
3.00-3.50	B	6,0,3 2,3,2 N=10				5.84	3.20	Firm grey sandy slightly gravelly CLAY with rare shells and plant remains and thin laminations of stiff dark grey clay and brown sandy clay and sand. Gravel is fine to medium subrounded to rounded flint. Becoming soft at 4.0m (TERRACE DEPOSITS).		TD	
3.20	D						(1.60)			TD	
3.50	JJV										
4.00-4.50	DB	3,0,1 2,2,1 N=6								TD	
4.80	D					4.24	4.80	Stiff dark grey mottled brown CLAY (KIMMERIDGE CLAY).		KIMM	
5.00	U	100 blows									
5.50	D						(2.20)			KIMM	
6.00	D										
6.50-7.00	DB	9,0,8 12,15,18 N=53				2.04	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	M/minutes	Standing	Casing						
17-10-05		3.20	15	2.70	3.20						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JMC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB023</b>	
Job No <b>12170626</b>	Date 08-11-05 08-11-05	Ground Level (m AOD) <b>7.920</b>	Co-Ordinates (OS) <b>E 541699.539 N 266000.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS						STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.40	JJV B					7.52	0.40	Grass over brown sandy clayey TOPSOIL.		TPS	
0.60-1.00	JJV U	39 blows					(1.60)	Firm yellow brown mottled orange sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded flint and subrounded chalk (TERRACE DEPOSITS).		TD	
1.50-1.70	JJV D					5.92	2.00	Soft pale yellow brown to off white SILT (TERRACE DEPOSITS).		TD	
2.00-2.50	DB						(1.90)				
3.00-3.50	DB	1,1,1 1,1,4 N=7				4.02	3.90	Moderately strong pale brown SILTSTONE (KIMMERIDGE CLAY).		KIMM	
4.00-4.50	DB	3,2,4 3,4 N=11/ 225				3.92	4.00	Stiff to very stiff grey locally fine sandy CLAY with rare fossils (KIMMERIDGE CLAY).		KIMM	
5.00-5.50	DB	2,3,3 4,5 N=12/ 225					(3.00)			KIMM	
6.00	D										
6.50	U	80 blows									
7.00	D					0.92	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB024</b>	
Job No <b>12170626</b>	Date <b>18-10-05</b> <b>18-10-05</b>	Ground Level (m AOD) <b>10.230</b>	Co-Ordinates (OS) <b>E 541499.553 N 265799.986</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.10	JJV					9.93	0.30	Grass over brown sandy TOPSOIL.		TPS	
0.40	JJV							Stiff brown sandy slightly gravelly CLAY. Gravel is fine subrounded chalk. Becoming gravelly from 2.0m, gravel is fine subrounded flint and chalk. Becoming sandy and gravelly from 3.0m. Gravel is fine subangular to subrounded flint. Becoming very stiff from 5m (TERRACE DEPOSITS).		TD	
0.50-1.00	D										
1.00-1.50	B	9.6.7 6.5.6 N=24									
1.80	D										
2.00-2.50	JJV	7.6.8 6.7.6 N=27									
2.70	D					(5.10)					
3.00-3.50	B	10.8.6 7.8.9 N=30									
3.70	D										
4.00-4.50	B	9.7.6 6.8.6 N=28									
4.70	D										
5.00-5.50	B	7.8.9 8.9.9 N=35				4.83	5.40	Firm light grey mottled brown SILT (TERRACE DEPOSITS).		TD	
5.40	D					4.33	(0.50) 5.90	Very dense orange silty very sandy GRAVEL. Gravel is medium to coarse subangular to angular flint (TERRACE DEPOSITS).		TD	
5.90	D						(1.00)				
6.50	D	18.13.9 12.15.16 N=52				3.33	6.90	Weak to moderately weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
						3.23	7.00				










Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

Groundwater struck at 3.1m rising to 2.5m after 15 mins.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB024A</b>	
Job No <b>12170626</b>	Date <b>03-11-05</b> <b>03-11-05</b>	Ground Level (m AOD) <b>8.600</b>	Co-Ordinates (OS) <b>E 541706.889 N 265801.357</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.00-0.40	JJV					8.20	0.40	Grass over sandy silty TOPSOIL with rootlets.		TPS	
0.80	JJV						(1.10)	Firm yellow brown sandy slightly gravelly CLAY. Gravel is fine to medium chalk and coarse flint (TERRACE DEPOSITS).		TD	
1.80	JJV					7.10	1.50	Moderately compact pale yellow brown silty sandy GRAVEL. Gravel is fine to medium and subrounded to subangular (TERRACE DEPOSITS).		TD	
						6.10	2.50	Moderately compact yellow orange clayey silty gravelly SAND (TERRACE DEPOSITS).		TD	
						5.90	2.70	Moderately compact yellow fine to coarse sandy GRAVEL. Gravel is fine to coarse subrounded to subangular flint (TERRACE DEPOSITS).		TD	
						5.30	3.30	Moderately compact yellow fine to coarse sandy GRAVEL. Gravel is fine to coarse subrounded to subangular flint (TERRACE DEPOSITS).		TD	
						4.70	3.90	Firm grey and white sandy SILT (TERRACE DEPOSITS).		TD	
						1.60	7.00	Dense yellow GRAVEL. Gravel is fine to coarse subangular to subrounded (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b> <b>BHB025</b>	
Job No <b>12170626</b>	Date <b>14-10-05</b> <b>14-10-05</b>	Ground Level (m AOD) <b>11.110</b>	Co-Ordinates (OS) <b>E 541299.557 N 265800.003</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.50	D						(0.50)	Grass over soft dark brown sandy slightly gravelly CLAY. Gravel is medium and subangular flint (TERRACE DEPOSITS).		TD
0.50-1.00	B						0.50			
1.00-1.40	U	74 blows					(1.80)	Loose to medium dense orange clayey gravelly fine to coarse SAND. Gravel is fine to medium subangular to subrounded flint and chalk. With frequent gravel sized pockets of black sand and pockets of white sand (TERRACE DEPOSITS).		TD
1.50	D									
2.00	B	1,1,1 2,3,2 N=8					8.81			
2.30-2.50	B						2.30			
3.00-3.40	U	59 blows						Firm to stiff slightly laminated dark grey slightly sandy CLAY with rare yellow mottling. Brown and yellow mottling from 2.7m. Becoming stiff, dark grey with rare selenite crystals from 3.7m. No mottling. Fossils present from 4.0m. Frequent pyrite from 4.5m to 5.0m (KIMMERIDGE CLAY)		KIMM
4.00-4.50	BD	3,4,4 3,4,5 N=16					(4.70)			
5.00-5.40	U	79 blows								
5.50	D									
6.50-7.00	BD	4,4,5 4,5,5 N=19					4.11	7.00		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB026</b>	
Job No <b>12170626</b>	Date <b>13-10-05</b> <b>13-10-05</b>	Ground Level (m AOD) <b>11.240</b>	Co-Ordinates (OS) <b>E 541099.561 N 265800.015</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill	
0.30	D				↓ Water		(0.70)	Grass over dark brown sandy slightly gravelly CLAY with rare roots. Gravel is medium and subangular if flint. Becoming light brown and very sandy from 0.3m (TERRACE DEPOSITS).		TD		
0.50-1.00	B					10.54	0.70					
1.00-1.40	U	39 blows							Medium dense orange brown mottled grey very clayey fine to coarse SAND and GRAVEL. Gravel is fine to medium subangular to subrounded flint and chalk. Becoming gravelly sand from 1.1m (TERRACE DEPOSITS).		TD	
1.50	D							(1.60)				
2.00-2.50	BD	1,2,2 4,2,4 N=12				8.94	2.30					
2.30	D								Firm grey mottled brown slightly sandy CLAY. Becoming darker grey with sand sized selenite crystals from 2.8 to 3.0m. With no crystals and with frequent pyrite and fossils from 4.5m (KIMMERIDGE CLAY).			
3.00-3.40	U	57 blows										
3.50	D											
4.00-4.50	BD	2,2,3 2,3,3 N=11						(3.80)			KIMM	
5.00	D											
6.00	D					5.14	6.10					
						4.84	6.40	Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM		
6.50-7.00	BD	3,4,6 8,8,8 N=31					(0.60)	Stiff dark grey CLAY with rare pyrite and fossils (KIMMERIDGE CLAY).		KIMM		
						4.24	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
13-10-05		2.30			1.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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Groundwater strike at 2.3m.



# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB027</b>	
Job No <b>12170626</b>	Date <b>19-10-05</b> <b>19-10-05</b>	Ground Level (m AOD) <b>10.690</b>	Co-Ordinates (OS) <b>E 540921.074 N 265788.748</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					10.29	0.40	Grass over soft brown clayey gravelly sandy TOPSOIL with frequent rootlets. Gravel is fine to medium and subangular flint.		TPS	
0.50-1.00	B							Medium dense orange slightly gravelly fine to coarse SAND. Gravel is fine subrounded flint. Becoming very gravelly from 0.9m. Gravel is fine to medium subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
1.00-1.50	BD	3,4,6 6,6,5 N=23				(2.40)					
2.00-2.50	BD	4,4,7 6,5,7 N=25				7.89	2.80	Firm to stiff grey CLAY (KIMMERIDGE CLAY)		KIMM	
2.80	D					(1.10)					
3.00-3.40	U	40 blows				6.79	3.90	Moderately weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
3.50	D					6.49	4.20				
4.00-4.50	BD	8,9,13 16,9,7 N=45						Stiff grey CLAY with rare gravel sized fossil fragments (KIMMERIDGE CLAY).		KIMM	
5.00-5.40	U	57 blows				(2.00)					
5.50	D					4.49	6.20	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
6.50-6.90	U	00 blows				4.19	6.50				
7.00	D					3.69	(0.50) 7.00	Stiff grey CLAY with rare gravel sized fossil fragments (KIMMERIDGE CLAY).		KIMM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt.	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB028</b>	
Job No <b>12170626</b>	Date <b>20-10-05 21-10-05</b>	Ground Level (m AOD) <b>12.700</b>	Co-Ordinates (OS) <b>E 540350.854 N 265596.750</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA					Legend	Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION				
0.50	D					12.20	(0.50)	Dark brown clayey slightly gravelly sandy TOPSOIL. Gravel is fine to medium and subrounded of sandstone and flint. Becoming more clayey from 0.3m with medium subangular flint.			TPS	
0.50-1.00	B						0.50					
1.00-1.40	U	50 blows						Firm to stiff brown mottled grey and orange sandy slightly gravelly CLAY. Gravel is fine to coarse and subangular sandstone. rare boulders at 2.8m (KIMMERIDGE CLAY REWORKED).			KIMM	
1.50	D						(2.70)					
2.00-2.50	BD	5,4,5 6,5,6 N=22										
3.00-3.50	B	8,9,7 6,8,9 N=30				9.50	3.20	Stiff grey CLAY (KIMMERIDGE CLAY).			KIMM	
3.20	D											
4.00-4.50	B	10,8,7 6,7,8 N=28										
5.00-5.40	U	70 blows					(3.80)				KIMM	
5.50	D											
6.00	D											
6.50	B	7,5,4 5,6,5 N=20				5.70	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB029</b>	
Job No <b>12170626</b>	Date <b>20-10-05</b> <b>20-10-05</b>	Ground Level (m AOD) <b>13.030</b>	Co-Ordinates (OS) <b>E 540499.574 N 265599.990</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>





SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
						12.73	0.30	MADE GROUND: Grass over topsoil.		TPS	
0.50-1.00	B							MADE GROUND: Stiff to very stiff dark brown sandy slightly gravelly clay with rare ash. Gravel is fine to medium and subangular flint sandstone and concrete. Rare concrete blocks.		MG	
0.80	D					(1.90)					
1.00-1.50	B	13,18,9 7,8,12 N=36									
2.00-2.50	B	12,15,16 12,15,18 N=51				10.83	2.20	Dense brown and orange clayey very gravelly fine to coarse SAND. Gravel is fine to medium subangular to subrounded flint and rarely chalk (TERRACE DEPOSITS).		TD	
2.20	D					10.33	(0.50) 2.70				
3.00-3.40	U	70 blows				10.03	3.00	Firm orange mottled grey sandy slightly gravelly CLAY. Gravel is fine to medium and subrounded chalk (TERRACE DEPOSITS).		TD	
3.50	D					9.33	(0.70) 3.70	Firm to stiff grey rarely brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium and subrounded chalk with fine subrounded flint from 3.2m. Becoming stiff and dark grey with no gravel from 3.5m (TERRACE DEPOSITS).		TD	
4.00-4.50	BD	9,7,8 9,8,6 N=31						Stiff grey gravelly CLAY. Gravel is fine to medium and subrounded chalk. Becoming very stiff from 5m (KIMMERIDGE CLAY REWORKED).		KIMM	
5.00-5.40	U	00 blows					(3.30)				
5.50	D										
6.00	D										
6.50	B	6,6,12 16,12,9 N=49				6.03	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB030</b>	
Job No <b>12170626</b>	Date <b>20-10-05</b> <b>20-10-05</b>	Ground Level (m AOD) <b>12.160</b>	Co-Ordinates (OS) <b>E 540688.539 N 265606.548</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50	D					11.86	(0.50) 0.50	Soft dark brown sandy gravelly clay TOPSOIL. Gravel is fine to medium and subangular flint.		TPS	
0.50-1.00	B										
1.00-1.40	U	30 blows					(1.00)	Soft dark brown sandy slightly gravelly CLAY. Gravel is fine and subangular flint (TERRACE DEPOSITS).		TD	
1.50	D					10.66	1.50				
2.00-2.50	BD	1,2,3 1,2,2 N=8					(2.30)	Soft to firm brown mottled grey very sandy CLAY. Yellow mottling and selenite crystals below 2.4m With no yellow mottling (TERRACE DEPOSITS).		TD	
3.00-3.40	U	41 blows									
3.50	D					8.36	3.80				
4.00-4.50	BD	3,4,4 5,4,5 N=18					(3.20)	Firm becoming stiff laminated grey slightly CLAY with rare brown pockets of sand. With no pockets of sand from 6.0m (KIMMERIDGE CLAY).		KIMM	
5.00-5.40	U	76 blows									
5.50	D										
6.00	D										
6.50	B	7,5,4 6,6,7 N=23				5.16	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt.	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB031</b>	
Job No <b>12170626</b>	Date <b>17-11-05</b> <b>17-10-05</b>	Ground Level (m AOD) <b>13.140</b>	Co-Ordinates (OS) <b>E 540899.569 N 265600.003</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
						12.84	0.30	Firm brown sandy TOPSOIL.		TPS	
0.50	D										
0.50-1.00	B							Firm brown and orange mottled white and grey sandy slightly gravelly CLAY. Gravel is fine to medium and subrounded chalk and sandstone (TERRACE DEPOSITS).		TD	
1.00-1.40	U	39 blows					(1.60)				
1.50	D										
1.90	D					11.24	1.90	Soft to firm orange brown mottled grey sandy slightly gravelly CLAY. Gravel is medium to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
2.00-2.50	B	2,2,2 3,2,4 N=11					(1.10)				
3.00-3.50	B	6,3,2 3,4,3 N=12				10.14	3.00	Medium dense orange and grey clayey very gravelly fine to coarse SAND. Gravel is fine to medium subangular to subrounded flint and sandstone (TERRACE DEPOSITS).		TD	
3.80	D					9.34	3.80	Firm to stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
4.00-4.40	U	79 blows									
5.00-5.50	BD	4,2,3 2,2,3 N=10					(2.70)				
6.50	B	6,4,3 2,4,2 N=11				6.64	6.50	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
						6.34	6.80	Firm to stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
						6.14	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
17-10-05		3.80	15	3.50	3.80						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB032</b>	
Job No <b>12170626</b>	Date <b>19-10-05</b> <b>19-10-05</b>	Ground Level (m AOD) <b>13.010</b>	Co-Ordinates (OS) <b>E 541103.778 N 265607.065</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.60-1.00 0.60	B D					12.41	(0.60) 0.60	Grass over soft brown sandy slightly gravelly clay TOPSOIL.		TPS	
1.00-1.50	BD	3,5,4 4,5,4 N=17						Dense orange brown mottled white very gravelly fine to coarse SAND. Gravel is fine to medium subangular to subrounded chalk and rare flint. Becoming slightly clayey with small pockets of sand from 1.5m. Sand becoming white from 2.0m. Becoming more clayey and gravelly from 3.0m (TERRACE DEPOSITS).		TD	
2.00-2.50	BD	11,9,13 9,10,12 N=44					(3.80)				
3.00-3.50	BD	9,8,7 8,8,9 N=30									
4.00	C	16,13,19 25 N=44/ 150				8.61	4.40				
4.40-5.00	BD	25,25,25 N=25/ 25					(1.30)	Siltstone cobbles pushed to 5.7m through grey CLAY.			
5.00-5.50	B	9,8,17 19,18,16 N=70				7.31	5.70				
5.70	D						(1.30)	Very stiff grey CLAY (KIMMERIDGE CLAY)		KIMM	
6.50-6.90	U	00 blows				6.01	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
						4.4	5.7	1			
Date	Time	Strike	Minutes	Standing	Casing						
19-10-05		4.70	15	4.50	1.00						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB033</b>	
Job No <b>12170626</b>	Date <b>18-10-05</b> <b>18-10-05</b>	Ground Level (m AOD) <b>11.530</b>	Co-Ordinates (OS) <b>E 541499.569 N 265600.003</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.10	JJV					11.23	0.30	Grass over soft dark brown clayey sandy TOPSOIL with rootlets.		TPS	
0.30	D										
0.50-1.00	JJV						(1.00)	Firm to stiff brown mottled orange sandy slightly gravelly CLAY with some roots. Gravel is fine to medium subrounded chalk and flint (TERRACE DEPOSITS).		TD	
1.00	U	37 blows				10.23	1.30				
1.50	D										
2.00-2.50	DB	2,2,2 2,3,3 N=10					(1.70)	Firm grey mottled brown and white very sandy CLAY (TERRACE DEPOSITS).		KIMM	
						8.53	3.00				
3.00-3.50	JJV	6,3,2 3,4,4 N=13				8.33	3.20	Medium dense orange brown slightly gravelly fine to coarse SAND. Gravel is fine subrounded chalk (TERRACE DEPOSITS). Soft to firm grey mottled orange SILT/CLAY. No mottling from 4.5m (TERRACE DEPOSITS).		TD	
4.00-4.50	DB	2,2,1 1,2,3 N=7					(2.30)			TD	
5.00	U	70 blows				6.03	5.50				
5.50	D										
6.00	D						(1.50)	Very stiff grey CLAY. Siltstone pockets from 6.3m (KIMMERIDGE CLAY).		KIMM	
6.50-7.00	DB	9,11,10 8,12,11 N=41				4.53	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB034</b>	
Job No <b>12170626</b>	Date <b>08-11-05</b> <b>08-11-05</b>	Ground Level (m AOD) <b>8.760</b>	Co-Ordinates (OS) <b>E 541699.549 N 265600.003</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
						8.56	0.20	Grass over brown sandy silty TOPSOIL.		TPS	
0.50	JJV						(1.30)	Firm brown sandy slightly gravelly CLAY. Gravel is subrounded flint. Becoming yellow brown and very sandy from 0.8m (TERRACE DEPOSITS).		TD	
0.80	D										
0.90	JJV										
1.00	U	76 blows									
1.50	D					7.26	1.50	Firm pale yellow brown to off-white slightly gravelly slightly sandy CLAY. Gravel is fine to medium subangular to subrounded chalk and flint. Becoming thinly laminated from 2.4m. Becoming soft from 3.0m (TERRACE DEPOSITS).		TD	
2.00-2.50	DB	1,2,3 3,4,4 N=14									
2.40	JJV										
3.00	U	30 blows					(3.20)			TD	
3.50	D										
4.00-4.50	DB	1,1,1 1,2,2 N=6									
4.00	JJV										
5.00-6.50	DB	2,4,4 5,6,7 N=22						Stiff grey mottled grey brown CLAY. Becoming stiff to very stiff at 6m (KIMMERIDGE CLAY).		KIMM	
6.00	JJV						(2.30)				
6.50	U	00 blows									
7.00	D					1.76	7.00				






Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG













Project <b>Northstowe</b>				BOREHOLE No <b>BHB035</b>	
Job No <b>12170626</b>	Date <b>31-10-05</b> <b>31-10-05</b>	Ground Level (m AOD) <b>8.200</b>	Co-Ordinates (OS) <b>E 541699.549 N 265399.997</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.50-1.00 0.60	BJJJV D					7.70	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS
1.00-1.50	DJJJV	12,8,10 8,9,10 N=37				7.20	(0.50) 1.00	Soft dark brown gravelly very sandy CLAY. Gravel is fine subrounded to subangular chalk and flint (TERRACE DEPOSITS).		TD
2.00	BD	8,7,6 5,7,7 N=25			↓		(2.00)	Dense light yellow brown slightly clayey very gravelly SAND. Gravel is fine to medium subrounded to subangular flint. Becoming medium dense and less gravelly from 2m (TERRACE DEPOSITS).		TD
3.00	D	9,7,6 6,7,8 N=27			↓	5.20	3.00	Medium dense brown clayey gravelly SAND. Gravel is fine to medium subangular to angular flint (TERRACE DEPOSITS).		TD
4.00	D	8,5,7 6,5,9 N=27					(2.70)			TD
5.00	D	7,4,5 4,6,7 N=22				2.50	5.70			
5.70	D						(1.30)	Firm dark grey CLAY. With grey mottling from 6.5m (KIMMERIDGE CLAY).		KIMM
6.50	D	4,3,3 2,3,4 N=12				1.20	7.00			
7.00	D									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		2.70	15	2.00							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB036</b>	
Job No <b>12170626</b>	Date <b>12-10-05</b> <b>12-10-05</b>	Ground Level (m AOD) <b>12.920</b>	Co-Ordinates (OS) <b>E 541451.908 N 265436.826</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.70	D					12.22	0.70	Grass over soft brown sandy slightly gravelly clay TOPSOIL. Gravel is medium subangular to angular flint.		TPS	
1.00	U	39 blows				11.82	1.10	Loose to medium dense orange brown very clayey fine to coarse SAND and GRAVEL. Gravel is fine to coarse subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
1.30	D					11.62	1.30			KIMM	
1.50	D							Stiff brown sandy slightly gravelly CLAY. Gravel is fine to medium subrounded chalk (KIMMERIDGE CLAY REWORKED). Soft to firm brown mottled grey CLAY. With gravel sized orange slightly silty sandy pockets with rare fossils from 2.5m (KIMMERIDGE CLAY REWORKED).		KIMM	
2.00-2.50	DB	1,0,1 2,2,3 N=8								KIMM	
3.00	U	56 blows					(4.00)			KIMM	
3.50	D									KIMM	
4.00-4.50	DB	3,0,4 3,3,4 N=14								KIMM	
5.00	U	50 blows				7.62	5.30			KIMM	
5.50	D							Stiff brown mottled grey sandy CLAY with rare pockets of sandy gravel. Gravel is fine rounded chalk. Becoming very stiff from 6.5m (KIMMERIDGE CLAY REWORKED).		KIMM	
6.00	D						(1.70)			KIMM	
6.50-7.00	DB	7,0,6 25,20 N=51/ 145				5.92	7.00			KIMM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB037</b>	
Job No <b>12170626</b>	Date <b>27-05-09</b> <b>27-05-09</b>	Ground Level (m AOD) <b>14.280</b>	Co-Ordinates (OS) <b>E 541299.723 N 265395.545</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	BJJV					13.68	(0.60) 0.60	Soft brown sandy clayey TOPSOIL.		TPS	
1.00-1.50	B	3,3,4 3,4,6 N=17					(1.70)	Medium dense orange gravelly clayey fine to coarse SAND. Gravel is fine to coarse subrounded to subangular flint and chalk (TERRACE DEPOSITS).		TD	
2.00-2.50	B	4,5,6 5,4,5 N=20				11.98	2.30	Stiff grey mottled brown sandy slightly gravelly CLAY. Gravel is rare fine to medium subrounded flint and chalk. Becoming soft at 4.0m (KIMMERIDGE CLAY REWORKED).		KIMM	
3.00-3.45	U	41 blows					(3.00)				
4.00-4.50	B,SV	3,3,3 2,1,2 N=8				8.98	5.30	Firm laminated grey CLAY (KIMMERIDGE CLAY).		KIMM	
5.00-5.45	U	90 blows					(1.70)				
6.50-7.00 6.50-6.95	B U	80 blows				7.28	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		2.00	15	1.80	2.00						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB038</b>	
Job No <b>12170626</b>	Date <b>27-05-09</b> <b>27-05-09</b>	Ground Level (m AOD) <b>14.930</b>	Co-Ordinates (OS) <b>E 541103.524 N 265408.946</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA					Legend	Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION				
0.50-1.00	BJJV					14.43	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.			TPS	
1.00-1.50	B	1,1,2 1,2,1 N=6				13.33	(1.10) 1.60	Soft orange sandy slightly gravelly CLAY. Gravel is fine to medium subrounded chalk and flint (TERRACE DEPOSITS).			TD	
2.00-2.50	B/SV	1,1,2 2,3,2 N=9				11.13	(2.20) 3.80	Firm grey very gravelly CLAY. Gravel is fine to medium subangular chalk and flint (KIMMERIDGE CLAY REWORKED).			KIMM	
4.00-4.50	B	1,2,3 4,4,3 N=14					(3.20) 7.00	Firm grey slightly gravelly sandy CLAY. Gravel is fine to medium subangular chalk and flint. Becoming stiff at 5.0m (KIMMERIDGE CLAY REWORKED).			KIMM	
5.00-5.50	B	1,2,4 4,5,5 N=18										
6.50-6.95	U	32 blows				7.93						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB039</b>	
Job No <b>12170626</b>	Date <b>18-10-05</b> <b>18-10-05</b>	Ground Level (m AOD) <b>14.420</b>	Co-Ordinates (OS) <b>E 540899.567 N 265399.997</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50-1.00 0.60	B D					13.82	0.60	Grass over dark brown clayey very gravelly fine to coarse SAND. Gravel is fine to medium and subangular flint with rare rootlets (TERRACE DEPOSITS).		TD	
1.00-1.50	BD	9,6,7 8,7,6 N=28				12.52	1.30	Medium dense to dense orange mottled white clayey gravelly fine to coarse SAND. Gravel is fine to medium subangular to subrounded chalk (TERRACE DEPOSITS).		TD	
2.00-2.50	BD	7,4,3 4,4,3 N=14				11.92	0.60	Firm brown mottled grey orange sandy slightly gravelly CLAY. Gravel is fine and subrounded chalk (KIMMERIDGE CLAY REWORKED).		KIMM	
2.70	D							Firm grey CLAY. Becoming very sandy with orange mottling from 2.8m. Becoming soft dark grey with pyrite and fossils from 3.5m. Becoming firm from 5.0m (KIMMERIDGE CLAY REWORKED).		KIMM	
3.00-3.40	U	59 blows									
3.50	D										
4.00-4.50	BD	2,1,1 2,1,1 N=5					(4.00)			KIMM	
5.00-5.40	U	79 blows									
5.50	D										
6.50	D	18,15,13 16,13,12 N=54				7.92	6.50	Moderately weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
						7.42	(0.50) 7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
18-10-05		2.50 2.80	15	2.00	1.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG


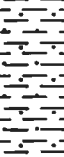
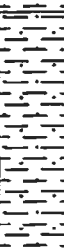


Project <b>Northstowe</b>				BOREHOLE No <b>BHB040</b>	
Job No <b>12170626</b>	Date <b>28-09-05</b> <b>28-09-05</b>	Ground Level (m AOD) <b>14.020</b>	Co-Ordinates (OS) <b>E 540700.857 N 265375.439</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50	BD					13.52	(0.50) 0.50	Compact brown sandy TOPSOIL		TPS	
1.00-1.50	BD	7,0,5 4,6,6 N=21						Medium dense yellow brown slightly clayey SAND and GRAVEL. Gravel is fine to coarse subangular to subrounded flint (TERRACE DEPOSITS).		TD	
2.00-2.50	BD	8,0,5 6,6,7 N=24									
3.00-3.50	BD	8,0,8 7,8,9 N=32				(5.70)					
4.00-4.50	BD	10,0,8 9,8,7 N=32									
5.00-5.50	BD	12,0,8 7,7,8 N=30									
6.00	D					7.82	6.20	Stiff fissured grey sandy CLAY (KIMMERIDGE CLAY).		KIMM	
6.20	D										
6.50	S	4,0,3 2,3,2 N=10				7.02	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
28-10-05		4.80	15	3.50	4.60						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB041</b>	
Job No <b>12170626</b>	Date 03-10-05 03-10-05	Ground Level (m AOD) <b>12.220</b>	Co-Ordinates (OS) <b>E 540499.572 N 265399.997</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50-1.00	B					11.92	0.30	Soft dark brown slightly sandy slightly gravelly clayey TOPSOIL with some roots. Gravel is medium subangular flint.		TPS	
1.00-1.45	U	15 blows					(1.50)	Firm brown mottled orange and grey slightly gravelly sandy CLAY. Gravel is fine subrounded chalk (KIMMERIDGE CLAY REWORKED).		KIMM	
1.50	D					10.42	1.80	Soft friable grey mottled yellow slightly sandy CLAY with selenite crystals. With orange sandy mottling from 2.5m bgl. Becoming dark grey with no mottling or fossils from 3.5m bgl. Becoming firm at 3.0m. Becoming stiff at 5.0m (KIMMERIDGE CLAY REWORKED)		KIMM	
2.00-2.50	BD	1,0,1 2,1,2 N=6									
3.00-3.45	U	35 blows									
3.50	D										
4.00-4.50	BD	1,1,2 2,2,3 N=9					(4.30)				
5.00-69.00	U	39 blows									
5.50	D										
						6.12	6.10				
						5.92	6.30	Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
6.50	B	2,3,4 8,5,6 N=21					(0.70)	Stiff dark grey slightly gravelly CLAY. Gravel is fine to coarse claystone (KIMMERIDGE CLAY).		KIMM	
						5.22	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB042</b>	
Job No <b>12170626</b>	Date <b>03-10-05</b> <b>03-10-05</b>	Ground Level (m AOD) <b>12.070</b>	Co-Ordinates (OS) <b>E 540299.579 N 265399.997</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50-1.00	B					11.37	0.70	Grass over dark brown clayey slightly gravelly SAND. Gravel is fine to medium subangular flint (TERRACE DEPOSITS).		TD	
0.70	D										
1.00-1.45	U	36 blows				10.77	1.30	Firm to stiff brown mottled orange slightly sandy gravelly CLAY. Gravel is medium subangular to angular flint (KIMMERIDGE CLAY REWORKED).		KIMM	
1.50	D					10.37	1.70	Firm grey mottled orange and white sandy slightly gravelly CLAY. Gravel is fine to medium subangular chalk (KIMMERIDGE CLAY REWORKED).		KIMM	
1.70	D										
2.00-2.45	B	1,1,1 2,1,3 N=7 47 blows						Soft thickly laminated grey mottled brown CLAY with fossils and 1mm length selenite crystals. Becoming firm to stiff from 3.0m, no fossils and selenite from 4.0m bgl (KIMMERIDGE CLAY).		KIMM	
3.50	D						(3.30)			KIMM	
4.00-4.50	BD	1,2,2 3,3,3 N=11				7.07	5.00				
5.00-5.40	U	00 blows				6.77	5.30	Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
5.00-5.30	B							Stiff thickly laminated grey mottled brown CLAY (KIMMERIDGE CLAY).		KIMM	
6.00-6.40	U	00 blows					(1.70)			KIMM	
6.50	B	2,2,4 7,7,6 N=24				5.07	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB043</b>	
Job No <b>12170626</b>	Date <b>28-09-05</b> <b>28-09-05</b>	Ground Level (m AOD) <b>12.010</b>	Co-Ordinates (OS) <b>E 540350.711 N 265237.847</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>






SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.50-1.00	BJV					11.41	(0.60) 0.60	Soft brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded flint and sandstone with boulder sized sandstone from 0.4m bgl (TERRACE DEPOSITS).		TD	
1.00-1.45	U	46 blows				10.71	(0.70) 1.30	Soft orange brown sandy slightly gravelly CLAY. Gravel is fine subangular flint and chalk (TERRACE DEPOSITS).		TD	
1.50	D							Firm brown mottled orange and grey slightly gravelly sandy CLAY with 1mm length selenite crystals. Gravel is fine to medium subrounded flint and chalk. Becoming firm from 2.5m bgl. Becoming dark grey with brown rootlets from 3.6m bgl. With fossils and rare medium subrounded sandstone gravel from 3.7m bgl. No fossils and selenite from 4.5m bgl (KIMMERIDGE CLAY REWORKED).		KIMM	
2.00-2.50	B.SV	1,2,2 1,2,3 N=8					(3.50)				
3.00-3.45	U	36 blows						Weak light grey SILTSTONE (KIMMERIDGE CLAY). Very stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
3.50	D						(1.30)				
4.00-4.50	BD	1,2,2 4,5,4 N=15				7.21	4.80	Weak light grey SILTSTONE (KIMMERIDGE CLAY). Very stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
4.00-4.50	B	1,2,2 4,5,4 N=15				7.11	4.90				
5.00-5.45	U	49 blows						Weak light grey SILTSTONE (KIMMERIDGE CLAY). Very stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
5.50	D						(1.30)				
6.00	D					5.81	6.20	Weak light grey SILTSTONE (KIMMERIDGE CLAY). Very stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
6.50	B	3,4,9 10,8,12 N=39				5.51	6.50				
								Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB044</b>	
Job No <b>12170626</b>	Date <b>27-05-09</b> <b>27-05-09</b>	Ground Level (m AOD) <b>11.440</b>	Co-Ordinates (OS) <b>E 540699.594 N 265199.992</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument	Backfill
0.50-1.00 0.70	BJJV D					10.74	(0.70) 0.70	Grass over brown sandy clayey TOPSOIL.		TPS		
1.00-1.50	BD	3,4,4 3,4,5 N=18						Firm to stiff brown mottled grey orange slightly gravelly sandy CLAY. Gravel is fine subangular chalk and sandstone with selenite crystals from 1.0m bgl. With rare orange mottling from 3.0m bgl (KIMMERIDGE CLAY REWORKED).		KIMM		
2.00-2.45 2.50	U D	59 blows					(3.50)					
3.00-3.50	B.SV	4,4,5 6,5,4 N=20										
4.00-4.45 4.50	U D	79 blows				7.24	4.20	Stiff grey CLAY with rare fossils (KIMMERIDGE CLAY).		KIMM		
4.90-5.20 4.90 5.00	B D S					6.54	4.90	Weak light grey SILTSTONE (KIMMERIDGE CLAY).				
5.20 6.00	D D	6,6,10 8,11,12 N=41				6.24	5.20	Very stiff dark grey mottled brown CLAY (KIMMERIDGE CLAY).		KIMM		
6.50-6.95 7.00	U D					4.44	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By DB
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB045</b>	
Job No <b>12170626</b>	Date <b>29-10-05</b> <b>29-10-05</b>	Ground Level (m AOD) <b>13.760</b>	Co-Ordinates (OS) <b>E 540899.578 N 265199.992</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>








SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						13.46	0.30	Grass over TOPSOIL		TPS	
0.50-1.00	B					13.16	0.60	Brown slightly gravelly clayey SAND. Gravel is fine to medium angular to subrounded flint quartzite and siltstone (TERRACE DEPOSITS).		TD	
0.50	D					(0.60)				TD	
1.00-1.20	B	3,4,4 3,3,4 N=14				12.56	1.20	Medium dense clayey slightly gravelly SAND. Gravel is fine to medium and angular to subangular flint (TERRACE DEPOSITS). Stiff grey mottled brown becoming grey mottled dark green/brown very closely fissured CLAY (KIMMERIDGE CLAY)			
1.20	D					(2.80)				KIMM	
2.00-2.40	U	39 blows									
2.50	D										
3.00-3.50	BD	2,2,5 3,4,4 N=16									
4.00-4.40	U	70 blows				9.76	4.00	Stiff to very stiff very closely fissured grey CLAY (KIMMERIDGE CLAY).			
4.50	D					(3.00)				KIMM	
5.00-5.50	BD	2,3,5 5,8,7 N=23									
6.00	D										
6.50-6.90	U	39 blows									
7.00	D					6.76	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b>  <b>BHB046</b>	
Job No <b>12170626</b>	Date <b>04-11-05</b> <b>04-11-05</b>	Ground Level (m AOD) <b>15.210</b>	Co-Ordinates (OS) <b>E 541121.525 N 265193.541</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill	
0.50-1.00	DBJJV					14.71	(0.50) 0.50	Soft brown sandy clayey TOPSOIL.		TPS		
0.50-1.00	BJJV							(0.90)	Soft brown sandy slightly gravelly CLAY. Gravel is fine to medium flint with rootlets (TERRACE DEPOSITS).		TD	
1.00-1.50	B						13.81	1.40	Loose medium dense orange mottled white clayey gravelly fine to coarse SAND. Gravel is fine to coarse subangular flint and chalk, chalk becoming more frequent from 2.0m bgl. Becoming more gravelly from 3.3m bgl (TERRACE DEPOSITS).		TD	
1.00-1.50	DB	2.02						(2.10)				
1.05	S	2.11										
1.40	D	N=6										
2.00-2.50	B								Medium dense yellow orange sandy GRAVEL. Gravel is fine to coarse subangular flint and chalk (TERRACE DEPOSITS).		TD	
2.00-2.50	DB	3.02						(0.70)				
2.05	C	2.12										
		N=7										
3.00-3.50	DBJJV						11.71	3.50	Firm grey CLAY with fossils. Becoming stiff at 6.5m (KIMMERIDGE CLAY).		KIMM	
3.00-3.50	BJJV	4.0,3										
3.05	S	3.4,4										
		N=14										
3.80-4.20	B											
3.80-4.20	DB	5.0,5										
4.00	D	4.3,2										
4.05	C	N=14										
4.20	D											
5.00	U	73 blows										
5.50	D						(2.80)					
6.50-7.00	B							Firm grey CLAY with fossils. Becoming stiff at 6.5m (KIMMERIDGE CLAY).		KIMM		
6.50-7.00	DB	6.0,5					8.21					
6.55	S	5.4,5										
7.00	D	N=19										

Boring Progress and Water Observations						Chiselling			Water Added		<b>GENERAL REMARKS</b>  Groundwater encountered at 4.1m rising to 3.8m after 15 mins.
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		4.10	15	3.80							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB047</b>	
Job No <b>12170626</b>	Date <b>04-11-05 04-11-05</b>	Ground Level (m AOD) <b>14.550</b>	Co-Ordinates (OS) <b>E 541289.500 N 265128.900</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 2</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.30	JJV						(0.60)	Brown silty sandy TOPSOIL and subsoil with rootlets.		TPS	
0.50-1.00	B					13.95	0.60	Firm orange brown mottled white and grey sandy slightly gravelly CLAY. Gravel is subangular to subrounded flint (TERRACE DEPOSITS).		TD	
0.60	D						(0.60)				
0.80	JJV							Medium dense yellow brown gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded flint. Becoming dense between 3.0m and 4.0m (TERRACE DEPOSITS).		TD	
1.00	U	87 blows				13.35	1.20				
1.80	JJV							Stiff fissured dark grey CLAY. Becoming stiff from 9m (KIMMERIDGE CLAY).		KIMM	
2.00-2.50	DB	7,4,4 4,4,6 N=18									
3.00-3.50	DB	5,7,8 7,6,6 N=27					(4.10)	Moderately weak light grey SILTSTONE recovered as gravel sized fragments (KIMMERIDGE CLAY).		KIMM	
4.00-4.50	DBJV	3,4,3 2,2,3 N=10									
5.00	B	2,3,2 3,2,4 N=11				9.25	5.30	Moderately weak light grey SILTSTONE recovered as gravel sized fragments (KIMMERIDGE CLAY).		KIMM	
6.00	D										
6.50	U	72 blows						Moderately weak light grey SILTSTONE recovered as gravel sized fragments (KIMMERIDGE CLAY).		KIMM	
7.00	D						(4.20)				
7.50	D							Moderately weak light grey SILTSTONE recovered as gravel sized fragments (KIMMERIDGE CLAY).		KIMM	
8.00-8.50	DBJV	2,3,4 6,5,6 N=21									
9.00	D							Moderately weak light grey SILTSTONE recovered as gravel sized fragments (KIMMERIDGE CLAY).		KIMM	
9.50	U	00 blows				5.05	9.50				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB047</b>	
Job No <b>12170626</b>	Date <b>04-11-05</b> <b>04-11-05</b>	Ground Level (m AOD) <b>14.550</b>	Co-Ordinates (OS) <b>E 541289.500 N 265128.900</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>2 of 2</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
10.00	D						(1.00)	Moderately weak light grey SILTSTONE recovered as gravel sized fragments (KIMMERIDGE CLAY). <i>(continued)</i>	xxxxx	KIMM	
10.50	D					4.05	10.50	Very stiff grey CLAY with sandy bands and rare pyritic bands (KIMMERIDGE CLAY).	[Pattern]	KIMM	
11.00-11.50	B,SV	6,6,7 9,10,25 N=51/ 235					(2.10)				
12.00	D							Very stiff grey CLAY with rare moderately strong to strong angular fragments of siltstone (KIMMERIDGE CLAY).	[Pattern]	KIMM	
12.50-13.00	BU	00 blows				1.95	12.60				
13.00	B	10,7,8 8,9,10 N=35				1.55	13.00	Very stiff dark grey CLAY with rare white to brown fossil fragments (KIMMERIDGE CLAY).	[Pattern]	KIMM	
14.00-15.00	DBU	00 blows					(4.00)				
14.50	D										
15.50	U	00 blows									
16.00	D										
16.50	U	00 blows									
17.00	D					-2.45	17.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB048</b>	
Job No <b>12170626</b>	Date <b>10-11-05</b> <b>10-11-05</b>	Ground Level (m AOD) <b>11.830</b>	Co-Ordinates (OS) <b>E 541502.346 N 265194.313</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmw	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					11.33	(0.50) 0.50	MADE GROUND: Grass over brown topsoil.		MG	
0.50-1.00	JJV										
1.00-1.50	UJV	18 blows				10.83	(0.50) 1.00	MADE GROUND: soft to firm brown slightly gravelly sandy clay with some roots and one concrete boulder approximately 0.3m x 0.15m x 0.15m in size. Gravel is subangular to subrounded fine to coarse flint and rare brick and concrete fragments.		MG	
1.50	D					9.83	(1.00) 2.00	MADE GROUND: Soft orange brown to brown sandy clay with rare gravel to cobble size concrete fragments, one barb wire fragment.		MG	
2.00-2.50	DB	3,2,4 2,3,2 N=11				8.83	(1.00) 3.00	MADE GROUND: Firm brown sandy clay with pockets of pale yellow brown subangular medium to coarse gravel chalk and flint. One barbed wire fragment.		MG	
3.00-3.50	UJV	50 blows									
3.50	D										
4.00-4.50	DB	4,2,3 3,4,5 N=15									
5.00-5.50	DBJV	3,2,4 4,5,5 N=18					(4.00)	Medium dense orange brown very silty fine SAND. Becoming fine to medium from 4m. Becoming brown and orange brown from 5m (TERRACE DEPOSITS).		TD	
6.00	D										
6.50	B	6,4,5 4,5,5 N=19				4.83	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By MO
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB049</b>	
Job No <b>12170626</b>	Date <b>01-11-05</b> <b>01-11-05</b>	Ground Level (m AOD) <b>8.500</b>	Co-Ordinates (OS) <b>E 541699.549 N 265199.971</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50	BJJJV					8.00	(0.50) 0.50	Grass over dark brown clayey gravelly very sandy TOPSOIL. Gravel is fine subangular flint.		TPS	
0.80	D										
1.00	U	00 blows				7.40	(0.60) 1.10	Soft orange brown sandy slightly gravelly CLAY. Gravel is fine to medum subangular to angular flint (TERRACE DEPOSITS).		TD	
1.50	DJJJV										
2.00	DB	9,7,7 8,7,9 N=31				6.00	(1.40) 2.50	Dense yellow and white slightly clayey very gravelly SAND with rare sand pockets and brown gravelly very sandy clay pockets. Gravel is fine to medium subangular to angular flint (TERRACE DEPOSITS).		TD	
3.00	DB	3,2,2 5,7,9 N=23					(2.00)	Medium dense very sandy GRAVEL. Gravel is fine to medium subrounded to angular flint (TERRACE DEPOSITS).		TD	
4.00	B	2,2,3 2,2,3 N=10				4.00	4.50	Firm orange brown slightly sandy gravelly SILT. Gravel is medium angular flint. Becoming firm and grey from 4.8m. No gravel from 6m (TERRACE DEPOSITS).		TD	
5.00	U	30 blows									
5.50	D						(2.50)				
6.00	D										
6.50	UJJ	26 blows				1.50	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		2.60	10	2.00							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		





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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB050</b>	
Job No <b>12170626</b>	Date <b>11-11-05</b> <b>11-11-05</b>	Ground Level (m AOD) <b>12.000</b>	Co-Ordinates (OS) <b>E 541499.553 N 265017.763</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 2</b>

SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.20	JJV					11.30	0.70	Grass over sandy clayey TOPSOIL and subsoil.		TPS	
0.70	DJV							Soft to firm yellow brown sandy slightly gravelly CLAY. Gravel is subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
1.00-1.50	DB	1,1,1 1,1,2 N=5					(1.60)				
1.90	JJV							Soft to firm grey mottled brown sandy CLAY (KIMMERIDGE CLAY REWORKED).		KIMM	
2.00-2.50	DB	2,1,2 3,2,1 N=8					9.70 2.30				
2.30	D						(0.70)	Firm to stiff fissured grey brown mottled CLAY (KIMMERIDGE CLAY).		KIMM	
2.50	U	39 blows					9.00 3.00				
3.00	D							Soft to firm grey sandy CLAY. Becoming stiff from 6.0m (KIMMERIDGE CLAY).		KIMM	
3.50-4.00	DB	3,2,3 4,3,3 N=13					(1.30)				
4.50-5.00	DB	4,2,1 2,2,2 N=7						Very stiff grey sandy slightly gravelly CLAY. Gravel is fine to medium of mixed lithology including siltstone (KIMMERIDGE CLAY).		KIMM	
5.00	D						7.70 4.30				
6.00-6.50	DB	7,6,5 6,7,8 N=26					(4.90)				
7.00	D										
7.50	U	77 blows									
8.00	D										
9.20	S	13,15,16 12,15,18 N=81					2.80 9.20				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		9.00	20	6.30							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By MO		



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# BOREHOLE LOG







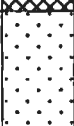

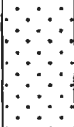

Project <b>Northstowe</b>				BOREHOLE No <b>BHB050</b>	
Job No <b>12170626</b>	Date <b>11-11-05</b> <b>11-11-05</b>	Ground Level (m AOD) <b>12.000</b>	Co-Ordinates (OS) <b>E 541499.553 N 265017.763</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>2 of 2</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
10.00	D						(1.80)	Very stiff grey sandy slightly gravelly CLAY. Gravel is fine to medium of mixed lithology including siltstone (KIMMERIDGE CLAY). <i>(continued)</i>		KIMM	
11.00	B	35,25,20 N=20/ 25				1.00	11.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS  Groundwater encountered at 9m rising to 6.3m after 20 mins.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By MO		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB051</b>	
Job No <b>12170626</b>	Date <b>27-10-05</b> <b>27-10-05</b>	Ground Level (m AOD) <b>14.490</b>	Co-Ordinates (OS) <b>E 541299.557 N 264999.986</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill	
0.50	BJJV					14.29	0.20	MADE GROUND: Grass over soft dark brown gravelly very sandy clayey TOPSOIL. Gravel is medium subangular flint.		MG		
							(0.60)	MADE GROUND: Soft dark brown and orange sandy slightly gravelly clay. Gravel is fine to medium subrounded to subangular sandstone, flint and concrete.				MG
						13.69	0.80					MG
1.00	DBU	100 blows				13.59	0.90	MADE GROUND: sandstone boulders with medium angular flint gravel.		MG		
1.80	JJV						(2.00)	MADE GROUND: Reworked stiff brown mottled grey and orange sandy clay.				MG
2.00	UB	6,3,2 4,5,6 N=17								TD		
2.90	D	7,0,4 5,4,4 N=17				11.59	2.90	Medium dense yellow fine to coarse SAND (TERRACE DEPOSITS).				KIMM
3.00	B											
4.00	UB	8,5,7 8,7,7 N=29					(3.00)			TD		
5.00	UB	8,9,8 7,6,7 N=28										
5.90	D					8.59	5.90	Firm fissured grey sandy CLAY (KIMMERIDGE CLAY).		KIMM		
6.50	B	7,3,4 3,4,3 N=14					(1.10)					
						7.49	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		5.90	15	5.70							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By DB		



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# BOREHOLE LOG

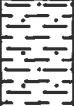


Project <b>Northstowe</b>				BOREHOLE No <b>BHB052</b>	
Job No <b>12170626</b>	Date <b>25-10-05</b> <b>25-10-05</b>	Ground Level (m AOD) <b>13.980</b>	Co-Ordinates (OS) <b>E 541099.551 N 264999.986</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 2</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.40	D					13.58	0.40	Soft brown very sandy clay TOPSOIL with frequent rootlets.		TPS
0.50-1.00	B							Firm orange brown very sandy CLAY (TERRACE DEPOSITS).		TD
1.00-1.50	DB	3,3,2 4,2,3 N=11					(1.40)			
1.80	D					12.18	1.80	Medium dense to dense orange fine to coarse SAND. Becoming slightly clayey from 2.7m with rare medium subrounded flint. Rare pyrite from 5.5m (TERRACE DEPOSITS).		TD
2.00-2.50	DB	3,4,3 4,3,4 N=14								
3.00-3.50	DB	7,9,8 9,8,7 N=32					(2.80)			
4.00-4.50	DB	9,8,10 8,10,11 N=39								
4.60	D					9.38	4.60	Stiff grey mottled brown slightly gravelly sandy CLAY. Gravel is fine subangular chalk. Frequent fossils from 4.7m (KIMMERIDGE CLAY REWORKED).		KIMM
5.00	U	50 blows								
5.50	D									
6.00	D									
6.50-7.00	DB	4,3,4 5,4,4 N=17								
7.00	D									
8.00	U	74 blows					(6.40)			
8.50	D									
9.00	D									
9.50-10.00	DB	7,4,5 7,8,7 N=27								

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		13.70	15	13.00							
All dimensions in metres Scale 1:82.5		Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF			

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB052</b>	
Job No <b>12170626</b>	Date <b>25-10-05</b> <b>25-10-05</b>	Ground Level (m AOD) <b>13.980</b>	Co-Ordinates (OS) <b>E 541099.551 N 264999.986</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>2 of 2</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
10.00	D							Stiff grey mottled brown slightly gravelly sandy CLAY. Gravel is fine subangular chalk. Frequent fossils from 4.7m (KIMMERIDGE CLAY REWORKED). <i>(continued)</i>		KIMM	
						2.98	11.00				
11.00	B	8,5,6 7,8,8 N=29				2.68	11.30	Moderately weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
12.00	D							Stif to very stiff grey CLAY with frequent fossils (KIMMERIDGE CLAY).		KIMM	
12.50-13.00	B	9,10,12 15,18 N=45/ 225									
13.00	D										
13.70	D										
14.00	U	00 blows					(5.70)				
14.50	D										
15.50-16.00	DB	13,12,10 12,10 N=32/ 225									
16.50	DU	00 blows									
17.00	D					-3.02	17.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

Groundwater encountered at 13.7m rising to 13m after 15 mins.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB053</b>	
Job No <b>12170626</b>	Date <b>25-10-05</b> <b>25-10-05</b>	Ground Level (m AOD) <b>11.570</b>	Co-Ordinates (OS) <b>E 540910.136 N 265000.640</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.40	D					11.17	0.40	Brown sandy TOPSOIL.		TPS	
0.60-1.00	BD							Firm brown slightly sandy slightly gravelly CLAY (TERRACE DEPOSITS).		TD	
1.00-1.50	BD	3,0,2 3,3,2 N=10					(3.40)				
2.00-2.50	BD	2,0,3 2,3,3 N=11									
3.00-3.50	BD	3,0,3 4,3,4 N=14						Firm to stiff dark grey CLAY (KIMMERIDGE CLAY).		KIMM	
3.50	D					7.77	3.80				
4.00-4.50	BD	4,0,4 3,4,3 N=14									
5.00-5.50	BD	4,0,5 3,4,5 N=17					(3.20)				
6.50-7.00	BD	5,0,4 4,5,5 N=18				4.57	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b> <b>BHB054</b>	
Job No <b>12170626</b>	Date <b>27-05-09</b> <b>27-05-09</b>	Ground Level (m AOD) <b>10.450</b>	Co-Ordinates (OS) <b>E 540705.108 N 265007.297</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>





SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					9.95	(0.50)	Grass over dark brown clayey slightly gravelly sandy TOPSOIL. Gravel is fine subangular to angular flint.		TPS	
0.50-1.00	B, J, V										
1.00-1.45	U	36 blows						Firm grey mottled orange brown slightly gravelly CLAY. Gravel is fine subangular to angular weak grey siltstone (KIMMERIDGE CLAY REWORKED).		KIMM	
1.50	D						(2.30)				
2.00-2.50	B, D	3,4,4 5,4,4 N=17				7.65	2.80				
3.00-3.50	B	9,9,6 5,4,5 N=20				7.15	(0.50) 3.30	Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
3.00-3.50	B, D	9,9,6 5,4,5 N=20				6.45	(0.70)	Stiff grey mottled orange brown slightly gravelly CLAY. Gravel is fine subangular to angular weak grey siltstone (KIMMERIDGE CLAY).		KIMM	
4.00-4.45	U	30 blows					4.00				
4.50	D						(1.70)	Stiff extremely closely fissured grey mottled dark green brown CLAY with rare selenite crystals (KIMMERIDGE CLAY).		KIMM	
5.00-5.50	B, S, V	5,4,6 5,6,6 N=23				4.75	5.70				
5.70	D						(1.30)	Very stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
6.50-6.95	U	00 blows				3.45	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB055</b>	
Job No <b>12170626</b>	Date <b>23-10-05</b> <b>23-10-05</b>	Ground Level (m AOD) <b>10.940</b>	Co-Ordinates (OS) <b>E 540520.905 N 265016.804</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.40	D					10.54	0.40	Brown and orange clayey slightly gravelly sandy TOPSOIL. Gravel is fine to medium subangular to subrounded of sandstone and flint.		TPS	
0.50-1.00	B							Soft becoming firm brown orange sandy slightly gravelly CLAY. Gravel is fine to medium and subrounded chalk. Rare selenite crystals below 2.0m. Becoming grey mottled orange below 3.0m (KIMMERIDGE CLAY).		KIMM	
1.00-1.50	BD	3,2,2 1,2,2 N=7									
1.50	D						(4.50)				
2.00	D										
2.00-2.40	U	30 blows									
3.00-3.50	BD	4,2,2 4,3,3 N=12									
4.00-4.40	U	39 blows									
4.90	D					6.04	4.90	Weak to moderately weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
5.00-5.50	B	18,13,17 9,6,12 N=46				5.64	5.30	Stiff brown mottled orange brown slightly sandy CLAY. Becoming grey from 5.5m (KIMMERIDGE CLAY).		KIMM	
5.30	D										
6.00	D						(1.70)				
6.50-6.90	U	71 blows									
7.00	D					3.94	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5      Contractor / Driller      Method/Plant Used Cable Percussive Rig      Logged By DB



# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHB056</b>	
Job No <b>12170626</b>	Date <b>29-09-05</b> <b>29-09-05</b>	Ground Level (m AOD) <b>10.200</b>	Co-Ordinates (OS) <b>E 540810.358 N 264803.471</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.40 0.50-1.00	D B					9.50	0.70	Grass over soft brown mottled black and orange sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded to angular chalk and granite.		TPS	
1.00-1.50	BD	1,1,2 1,3,2 N=8						Soft to firm brown mottled orange and grey very sandy slightly gravelly CLAY. Gravel is medium subangular granite. Rare selenite crystals from 0.9m and with yellow mottling from 3.0m (KIMMERIDGE CLAY REWORKED).		KIMM	
2.00-2.50	BD	1,2,2 2,3,3 N=10					(2.90)				
2.60	D							Weak light grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
3.00-3.45	U	32 blows									
3.50	D					6.60	3.60	Stiff grey CLAY (KIMMERIDGE CLAY).		KIMM	
4.00-4.50	BD	3,3,5 5,6,6 N=22				6.20	4.00				
5.00-5.50	BD	3,4,6 6,7,7 N=26					(3.00)			KIMM	
6.50-69.00 6.50	U D	59 blows									
7.00	D					3.20	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						



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# BOREHOLE LOG







Project <b>Northstowe</b>				BOREHOLE No <b>BHB057</b>	
Job No <b>12170626</b>	Date <b>26-10-05</b> <b>26-10-05</b>	Ground Level (m AOD) <b>10.050</b>	Co-Ordinates (OS) <b>E 541099.561 N 264799.881</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.30-0.50	DJJJV					9.75	0.30	Loose dark brown slightly clayey sandy TOPSOIL with frequent rootlets.		TPS	
0.50-1.00	B						(0.90)	Soft dark brown very sandy CLAY (TERRACE DEPOSITS).		TD	
1.00	U	37 blows				8.85	1.20				
1.50	D					8.55	1.50	Stiff orange mottled grey sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint and sandstone (KIMMERIDGE CLAY REWORKED).		KIMM	
2.00-2.50	DBSIJV	2,1,2 2,1,2 N=7					(2.20)	Soft to firm grey mottled orange brown very sandy CLAY with frequent white mottling. Orange brown mottling reduces with depth. With some sand lenses from 2.6m (KIMMERIDGE CLAY REWORKED).		KIMM	
3.00-3.50	DB	3,2,4 2,3,3 N=12				6.35	3.70				
4.00-4.50	DB	4,5,4 3,4,3 N=14				6.15	3.90	Weak grey SILTSTONE (KIMMERIDGE CLAY).		KIMM	
4.80-5.00	JJ						(3.10)				
5.00	U	30 blows									
5.50	D										
6.00	D										
6.50	D										
						3.05	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		3.90	15	3.20	1.00						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF		

## BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>PTM009</b>	
Job No <b>12170626</b>	Date <b>13-06-07</b> <b>13-06-07</b>	Ground Level (m AOD) <b>10.559</b>	Co-Ordinates (OS) <b>E 541357.848 N 265970.338</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.50	JV		0.50	0		10.46	0.10	MADE GROUND: Hardstanding tarmac.		MG	
						10.28	0.30	MADE GROUND: Hardstanding CONCRETE (no reinforcement bar).		MG	
1.50	BJJV		1.50	0		9.86	0.90	Orange brown mottled red brown and grey brown slightly gravelly very sandy CLAY. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD	
						(0.60)					
4.00	B					7.46	3.10	Brown yellow slightly gravelly clayey SAND. Gravel is fine to medium angular to rounded flint. Becoming very clayey from 2.2m with frequent bands and pockets of coarse gravel sized grey silty fine sand and rare medium gravel sized pockets of orange sand (TERRACE DEPOSITS).		TD	
						(2.20)					
4.00	B					4.76	5.80	Orange yellow clayey SAND and GRAVEL. Sand is coarse. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD	
						(2.70)					
						3.56	7.00	Firm to stiff fissured grey CLAY. rare very small marine fossils (KIMMERIDGE CLAY).		KIM	






Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dgt	From	To	Hours	From	To	
		3.10		1.85							

Groundwater strike at 3.1m rising to 1.85m after 15mins.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>PTM010</b>	
Job No <b>12170626</b>	Date <b>14-06-07</b> <b>14-06-07</b>	Ground Level (m AOD) <b>11.011</b>	Co-Ordinates (OS) <b>E 541550.855 N 265176.449</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.60-0.75	JJVV		0.60	0		10.98	0.05	MADE GROUND: Hardstanding tarmac.		MG	
						10.56	0.45	MADE GROUND: Grey gravel hardcore. Gravel is coarse angular sandstone and rhyolite.			
							(0.65)	Soft to firm brown to dark grey green slightly sandy slightly gravelly CLAY. Gravel is medium angular to subangular flint. (TERRACE DEPOSITS).		TD	
						9.91	1.10				
						9.61	1.40	NO CORE RECOVERY.			
						9.31	1.70	Soft brown mottled orange very sandy CLAY with pockets of coarse sand (TERRACE DEPOSITS).		TD	
						9.01	2.00	Firm to stiff light grey mottled orange sandy CLAY with rare gravel sized pockets of fine silt (TERRACE DEPOSITS). Stiff to very stiff grey mottled orange brown CLAY. Becoming grey from 3m (LIMMERIDGE CLAY).		TD	
	(5.00)			KIM							
	4.01	7.00									







Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

No groundwater encountered. Started as window sample to 2 m bgl.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC / LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWB001</b>	
Job No <b>12170626</b>	Date <b>07-06-07</b> <b>07-06-07</b>	Ground Level (m AOD) <b>7.225</b>	Co-Ordinates (OS) <b>E 541265.666 N 267250.580</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>





SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.70-0.80	JJV		0.70	0		6.33	0.90	Grass over dark brown slightly gravelly sandy clay TOPSOIL with rootlets. Becoming gravelly from 0.6m. Gravel is fine to coarse angular to subangular flint.		TPS	
						5.83	1.40	Brown dark grey mottled orange slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
							(1.60)	Soft light grey to grey mottled orange sandy CLAY. Becoming firm from 1.55m with coarse sand sized selenite crystals (AMPTHILL CLAY).		AMP	
2.80-2.90	JJV		2.80	0		4.23	3.00	Light grey SILTSTONE (AMPTHILL CLAY).		AMP	
						4.03	3.20	Firm grey mottled orange sandy CLAY with coarse sand sized selenite crystals (AMPTHILL CLAY).		AMP	
								4.20 - 4.30 Weak light grey SILTSTONE.			
								4.60 - 4.70 Weak light grey SILTSTONE.			
5.10-5.20	JJV		5.10	0			(3.80)	4.70 m bgl, becoming stiff grey mottled orange sandy CLAY with coarse sand sized selenite crystals.		AMP	
						0.23	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWB002</b>	
Job No <b>12170626</b>	Date <b>07-06-07</b> <b>07-06-07</b>	Ground Level (m AOD) <b>8.269</b>	Co-Ordinates (OS) <b>E 541321.583 N 267242.650</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-0.70	JJJV		0.60	0		7.97	0.30	Dark brown sand TOPSOIL.		TPS	
						(0.70)		Brown slightly silty slightly gravelly fine to medium SAND with rare rootlets. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						7.27	1.00	Stiff grey mottled orange brown sandy CLAY with occasional fine to medium flint gravel (TERRACE DEPOSITS).		TD	
2.50	JJJV		2.50	0		6.47	1.80	Firm grey mottled brown CLAY with rare fine to coarse selenite crystals. Becoming grey mottled orange brown and stiff to very stiff with depth and with siltstone bands from 4m (AMPTHILL CLAY).		AMP	
						(5.20)					
						1.27	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWB004</b>	
Job No <b>12170626</b>	Date <b>01-06-07</b> <b>01-06-07</b>	Ground Level (m AOD) <b>7.239</b>	Co-Ordinates (OS) <b>E 541507.522 N 266553.718</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						7.04	0.20	Grass over brown sandy TOPSOIL.		TPS	
0.80	JJV		0.80	0			(1.00)	Soft brown mottled yellow buff slightly sandy slightly gravelly CLAY. Gravel is fine to medlum angular to subrounded flint (TERRACE DEPOSITS).		AMP	
						6.04	1.20	Soft to firm grey mottled brown slightly sandy CLAY (AMPTHILL CLAY).		AMP	
						5.44	1.80				
2.50	JJV		2.50	0			(5.20)	Firm to stiff grey CLAY (AMPTHILL CLAY).		AMP	
5.00	JJV		5.00	0							
						0.24	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWB005</b>	
Job No <b>12170626</b>	Date <b>12-06-07</b> <b>12-06-07</b>	Ground Level (m AOD) <b>6.835</b>	Co-Ordinates (OS) <b>E 541528.679 N 266559.089</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument	Backfill
1.00	JJV		1.00	0		6.54	0.30	MADE GROUND: Grass over soft to firm dark brown sandy slightly gravelly clay topsoil. Gravel is fine to medium angular to subangular flint.		MG		
						(0.80)		MADE GROUND: Firm to stiff dark brown sandy slightly gravelly clay. Gravel is fine to medium angular to subangular flint, brick and concrete.		MG		
2.10	JJV		2.10	0		5.74	1.10					
						5.44	1.40	Stiff orange brown slightly gravelly sandy CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD		
						(0.80)		Brown gravelly medium to coarse SAND. Gravel is fine to medium angular to subangular flint. Becoming clayey from 2m (TERRACE DEPOSITS).		TD		
						4.64	2.20					
						4.34	2.50	Stiff grey CLAY (KIMMERIDGE CLAY).		KIM		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt.	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:82.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWB006</b>	
Job No <b>12170626</b>	Date <b>31-05-07</b> <b>31-05-07</b>	Ground Level (m AOD) <b>6.930</b>	Co-Ordinates (OS) <b>E 541528.065 N 266536.771</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>











SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.30	JJJV		0.30	0		6.73	0.20	Grass over soft brown to dark brown slightly gravelly sandy clay TOPSOIL. Gravel is fine to medium angular to subrounded flint with frequent rootlets. Soft yellow brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded flint with occasional rootlets (TERRACE DEPOSITS). Recovered as firm to stiff grey mottled green brown CLAY. Becoming stiff with depth (KIMMERIDGE CLAY).	[Symbol]	TPS	[Symbol]
						6.43	0.50				
3.50	JJV		3.50	0			(6.50)			KIM	[Symbol]
5.50	JJV		5.50	0							[Symbol]
						-0.07	7.00				[Symbol]

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC001</b>	
Job No <b>12170626</b>	Date <b>28-06-07</b> <b>29-06-07</b>	Ground Level (m AOD) <b>11.569</b>	Co-Ordinates (OS) <b>E 540897.009 N 266600.896</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>












SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.30-0.50	JJV					11.47	0.10	MADE GROUND: Grass over dark brown clayey sand. Sand is fine to medium.		MG	
0.50-0.90	B					11.42	0.15	MADE GROUND: Brown very sandy gravel. Gravel is fine to medium angular to subangular concrete, brick and flint.		MG	
0.90	SPT	2,7,12 12,17,9 N=50/ 280				10.67	0.90	MADE GROUND: Brown clayey gravelly sand. Sand is fine to medium. Gravel is fine angular to subangular brick, coke (rare), flint and concrete.			
1.00-1.50	B						(2.30)	Medium dense brown very gravelly SAND. Sand is medium to coarse. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
2.00-2.50	SPT	8,11,13 11,9,9 N=42				8.37	3.20	Soft to firm dark grey SILT with rare fine gravel sized fossils (KIMMERIDGE CLAY).			
3.00	SPT	3,4,3 3,3,4 N=13					(1.80)			KIM	
3.20-3.70	B					6.57	5.00	Stiff dark grey slightly sandy slightly gravelly CLAY with rare fossils (belemnite) and shells. Gravel is fine subangular to subrounded chalk (KIMMERIDGE CLAY).			
4.00-4.25	U	14 blows					(1.95)			KIM	
4.60	B					4.62	6.95	Grey SILTSTONE (KIMMERIDGE CLAY).			
5.00-5.50	SPT	3,2,3 4,4,5 N=18								KIM	
6.50-6.85	U	50 blows				4.57	7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
28-06-07		4.00									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC002</b>	
Job No <b>12170626</b>	Date <b>29-06-07 02-07-07</b>	Ground Level (m AOD) <b>11.262</b>	Co-Ordinates (OS) <b>E 540892.144 N 266399.100</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
1.00	B					11.06	0.20	Grass over dark brown slightly silty slightly gravelly sand TOPSOIL. Sand is fine to medium. Gravel is fine subangular flint.		TPS	
						10.46	0.80	Firm to stiff dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						10.06	1.20	Dense brown very gravelly SAND. Sand is medium to coarse. Gravel is fine subangular to subrounded chalk and flint (TERRACE DEPOSITS).		TD	
2.00	B						(4.10)	Orange brown very sandy GRAVEL. Gravel is fine to medium angular to subangular flint and subangular to rounded chalk (TERRACE DEPOSITS). 1.20 mbgl, becoming buff/brown with depth.		TD	
3.00	B								TD		
4.00-4.50	SPT	5,5,6 7,11,14 N=38									
5.00	B					5.96	5.30				
5.30	BD					5.76	5.50	Soft brown to dark brown very sandy organic SILT (TERRACE DEPOSITS). 5.40 mbgl, becoming dark grey.		TD	
5.50	SPT	2,4,7 8,9,8 N=33					(2.15)	Dense buff brown gravelly SAND. Sand is fine to coarse. Gravel is fine to medium angular to subangular flint and subangular to rounded chalk (TERRACE DEPOSITS).		TD	
7.50	SPT	9,8,2 2,3,10 N=17				3.61	7.65	Medium dense grey gravelly SAND. Sand is medium to coarse. Gravel is fine subangular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
						2.76	8.50			TD	
						2.56	8.70	Medium dense grey sandy GRAVEL with rare black flint cobbles. Gravel is fine to coarse, angular to subrounded flint (TERRACE DEPOSITS).		TD	
9.00	D						(0.60)			KIM	
9.30-9.80	B					1.96	9.30	Soft dark grey slightly sandy SILT (KIMMERIDGE CLAY).		KIM	
							(0.70)	Stiff to very stiff dark grey CLAY. Rare cobbles of grey strong siltstone (KIMMERIDGE CLAY).		KIM	
						1.26	10.00	9.30 mbgl, strong cobble of grey mud/siltstone.			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				<b>BOREHOLE No</b> <b>BHC003</b>	
Job No <b>12170626</b>	Date <b>18-09-06</b> <b>18-09-06</b>	Ground Level (m AOD) <b>9.073</b>	Co-Ordinates (OS) <b>E 541109.665 N 266192.207</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.00-0.50	B					8.57	(0.50) 0.50	MADE GROUND: Grass over brown slightly gravelly sandy topsoil. Gravel is fine to medium angular to subangular flint and quartzite		MG
0.50-1.00	JJVVVB						(1.00)	MADE GROUND: Brown slightly gravelly fine to medium sand. Gravel is fine to medium angular to subrounded flint and calcareous material becoming slightly clayey from 1m.		MG
1.00-1.50	B	1,1,1 2,2,2 N=7				7.57	1.50			
1.50-2.00	B									
2.00-2.50	JJVVVB	1,0,1 1,0,2 N=4					(1.80)	Loose brown gravelly fine to medium SAND. Gravel is fine to medium angular to subrounded flint and calcareous. Becoming orange brown slightly gravelly from 2.5m (TERRACE DEPOSITS).		TD
2.50-3.00	B									
3.00		2,2,1 2,3,2 N=8				5.77	3.30			
3.30-3.50	B					5.27	(0.50) 3.80	Soft to firm light grey fine to medium sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD
3.80-4.20	B						(0.70)	Orange brown fine to coarse SAND and GRAVEL. Gravel is fine to medium angular to rounded flint and calcareous material (TERRACE DEPOSITS).		TD
4.50		1,1,1 1,1,4 N=7				4.57	4.50			
5.00-5.50	JVVB					4.07	(0.50) 5.00	Loose grey slightly clayey slightly gravelly fine to medium SAND. Gravel is fine to medium angular flint (TERRACE DEPOSITS).		TD
5.50-6.00	B	2,2,10 11,11,12 N=44				3.57	(0.50) 5.50	Soft grey mottled black slightly sandy slightly gravelly CLAY with organic material and wood. Gravel is fine to medium subangular to rounded flint (TERRACE DEPOSITS).		TD
6.50-6.95	JVV	7,9,12 13,15,12 N=52/ 280				2.57	(1.00)	Dense grey gravelly fine SAND with shell fragments. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD
						2.07	(0.50) 7.00	Dense to very dense brown very gravelly fine to coarse SAND. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
18-09-06		2.00			1.50						
18-09-06		3.00	20	1.98	2.80						

Wet from 1.5m. Groundwater seepage at 2.0m - slow. Groundwater encountered at 3.0m - moderate.

All dimensions in metres  
 Scale 1:62.5

Contractor / Driller

Method/Plant Used  
 Cable Percussive Rig

Logged By  
 RLC

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC004</b>	
Job No <b>12170626</b>	Date <b>06-09-06</b> <b>07-09-06</b>	Ground Level (m AOD) <b>9.356</b>	Co-Ordinates (OS) <b>E 540923.505 N 266256.997</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.60	B					8.86	(0.50) 0.50	Grass over brown slightly gravelly sandy TOPSOIL. Gravel is medium angular to subrounded flint.		TPS	
0.60-1.00	JJVB										
1.00-1.50	B	5,4,4 4,4,5 N=17				7.66	(1.20) 1.70	Medium dense orange brown slightly clayey slightly gravelly fine to medium SAND with occasional pockets of light grey fine sand. Gravel is fine to medium subangular to subrounded flint (TERRACE DEPOSITS).		TD	
1.70	D										
2.00-2.50	JJVB	3,1,2 6,5,6 N=19									
2.70	D										
3.00-3.50	B	3,5,5 6,7,10 N=28				5.36	(2.30) 4.00	Medium dense brown slightly gravelly fine to medium SAND. Gravel is fine angular to subangular flint. Becoming coarse sand from 4.0m (TERRACE DEPOSITS).		TD	
4.00-4.50	B	1,0,2 4,6,7 N=19				4.36	(1.00) 5.00	Dense brown medium to coarse SAND and GRAVEL. Gravel is fine to medium angular to subangular flint. Becoming very gravelly sand from 4.6m (TERRACE DEPOSITS).		TD	
4.60-5.00	B										
5.00		1,1,2 3,4,4 N=13									
6.00		5,6,7 6,6,8 N=27				2.66	(1.70) 6.70	Medium dense brown medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
6.70-7.00	JJVB					2.36	7.00	Very stiff grey slightly gravelly CLAY. Gravel is fine subangular flint with rare coarse subangular flint (KIMMERIDGE CLAY).		KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
06-09-06		2.50									
06-09-06		2.70	20	2.09	2.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC005</b>	
Job No <b>12170626</b>	Date <b>18-09-06</b> <b>18-09-06</b>	Ground Level (m AOD) <b>9.599</b>	Co-Ordinates (OS) <b>E 540702.324 N 266198.379</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	










SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.00-0.40	B					9.20	0.40	MADE GROUND: Grass over brown sandy TOPSOIL		MG
0.40-0.80	JJVB					8.80	0.80	MADE GROUND: Brown/orange slightly clayey slightly gravelly SAND. Gravel is fine to medium red brick, coke and flint.		MG
0.80-1.00	B							Medium dense light grey and orange/brown slightly clayey slightly gravelly SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD
1.00-1.50	JJVB	2.2.5 5.5.6 N=21					(1.20)			
2.00-2.70	JVB	2.3.2 2.2.1 N=7				7.60	2.00	Loose orange and light grey silty slightly gravelly SAND. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD
2.70-3.00	B						(0.70)			
3.00-3.45	U	27 blows						Soft to firm dark grey mottled orange sandy slightly gravelly CLAY/SILT. Gravel is fine to medium angular to subrounded flint and chalk. Becoming very sandy and gravelly from 3.8m (TERRACE DEPOSITS).		TD
3.70	D						(1.30)			
3.80-4.00	B							Stiff dark grey fine to medium sandy SILT. Gravel is fine to medium angular to subangular flint (KIMMERIDGE CLAY).		KIM
4.00-4.20	B									
4.30-4.80	B	1.1.1 3.4.5 N=13								
5.40-6.00	B	4.4.4 5.6.7 N=22								
6.30-6.75	U	58 blows								
7.00	D					2.60	7.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
18-09-06		2.50	20	1.92	1.50						
18-09-06		3.80			3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC006</b>	
Job No <b>12170626</b>	Date <b>21-08-06</b> <b>21-08-06</b>	Ground Level (m AOD) <b>10.572</b>	Co-Ordinates (OS) <b>E 540889.378 N 265988.535</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>










SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
					↓	10.37	0.20	MADE GROUND: Grass over topsoil.		MG
0.40	D				↓		(0.80)	MADE GROUND: Brown sandy slightly gravelly CLAY with frequent rootlets. Gravel is medium to coarse angular to subangular flint and chalk. With occasional fine to coarse subangular to angular flint and chalk gravel from 0.7m. Becoming stiff from 0.9m.		MG
0.70	D				↓	9.57	1.00			
0.80	D				↓		(1.00)	Medium dense brown very clayey slightly gravelly SAND with frequent rootlets. Gravel is medium to coarse angular flint and chalk. Frequent coarse gravel size pockets of very soft brown clay (TERRACE DEPOSITS).		TD
1.00-1.50	JJJVVB	2,2,3 2,3,3 N=11			↓	8.57	2.00			
2.00-2.50	JJJVVB	2,2,2 3,3,3 N=11			↓		(1.00)	Medium dense light brown slightly clayey slightly gravelly fine to medium SAND. Gravel is medium to coarse angular to subangular flint and chalk. Becoming slightly silty with fine to medium gravel from 2.8m (TERRACE DEPOSITS).		TD
2.80	D				↓	7.57	3.00			
3.00-3.30	B	1,0,1 0,1,1 N=3			↓		(1.50)	Yellow brown slightly sandy slightly gravelly SILT. Gravel is fine to medium angular flint and chalk with occasional cobbles of flint (TERRACE DEPOSITS).		TD
3.30-3.50	B				↓		(1.50)			
3.80	D				↓		(1.50)			
4.00-4.50	B	2,2,3 4,3,5 N=15			↓	6.07	4.50			
4.60-4.70	B				↓		(0.50)	Brown orange coarse sandy GRAVEL. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD
4.80	D				↓	5.57	5.00			
5.00		4,8,10 12,18,10 N=50/ 245			↓		(1.50)	Dense to very dense brown orange very gravelly coarse SAND. Gravel is fine to coarse angular to subangular flint and chalk. Becoming light brown fine to coarse sand and gravel from 6.0m (TERRACE DEPOSITS).		TD
6.00		13,14,14 14,11,7 N=46			↓	4.07	6.50			
6.50	D				↓	3.77	6.80	Brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint and chalk (TERRACE DEPOSITS).		TD
6.80	D				↓		(0.90)	Very stiff grey CLAY. With frequent coarse gravel size angular claystone fragments from 7.0m (KIMMERIDGE CLAY).		KIM
7.00-7.45	U	35 blows			↓	2.87	7.70			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Water Dpt	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
21-08-06		2.80			2.50						
21-08-06		3.00	20	2.56	2.80						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC007</b>	
Job No <b>12170626</b>	Date <b>22-08-06</b> <b>22-08-06</b>	Ground Level (m AOD) <b>10.933</b>	Co-Ordinates (OS) <b>E 540735.937 N 265972.952</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						10.73	0.20	MADE GROUND: Grass over topsoil.		MG	
						10.43	0.50	MADE GROUND: Dark brown slightly gravelly clay with frequent rootlets. Gravel is fine to medium occasionally coarse angular to subangular flint, sandstone and coke.		MG	
0.50-0.80	B					10.13	0.80	MADE GROUND: Brown slightly gravelly clay with frequent rootlets with medium gravel size pockets of light brown orange slightly gravelly fine sand. Gravel is fine to medium angular to subangular flint, chalk and coke.		MG	
0.50	JJJVV					9.93	1.00				TD
0.80	D							MADE GROUND: Brown slightly gravelly clay with frequent rootlets with medium gravel size pockets of light brown orange slightly gravelly fine sand. Gravel is fine to medium angular to subangular flint, chalk and coke.		TD	
1.00-1.50	B	5,9,7 5,5,5 N=23									TD
1.70	D						(1.90)	Firm brown orange very sandy slightly gravelly CLAY with occasional rootlets. Sand is fine, gravel is fine subangular to angular flint and chalk (TERRACE DEPOSITS).		TD	
2.00-2.50	JJJVVB	2,4,5 3,8,10 N=26				8.03	2.90	Stiff light brown orange slightly clayey slightly gravelly fine SAND. Gravel is fine to coarse subrounded to subangular flint and chalk. With occasional pockets of buff silt from 1.7m (TERRACE DEPOSITS).		TD	
2.90	D					7.93	3.00				TD
3.00-3.50	B	3,3,4 3,5,6 N=18						Light grey sandy slightly gravelly CLAY with thinly bedded lenses of brown fine to medium sandy clay. Gravel is fine to medium angular to subrounded flint and chalk (TERRACE DEPOSITS).			
3.80	D						(1.80)				KIM
4.00-4.45	U	72 blows						Stiff grey slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint and chalk. Becoming sandy from 4m (KIMMERIDGE CLAY).			
4.70	D					6.13	4.80				KIM
5.00-5.50	JJV	8,4,6 4,5,7 N=23						Stiff light grey gravelly CLAY. Gravel is fine to medium angular siltstone with frequent coarse gravel of siltstone from 7m (KIMMERIDGE CLAY).			
6.00	D						(2.80)				KIM
6.30-6.75	U	75 blows									
7.00	D										
7.10		4,5,6 9,9,10 N=34				3.33	7.60				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
22-08-06		5.00			3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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WSP Environmental  
One Queens Drive  
B1  
Telephone:  
Fax:

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC007A</b>	
Job No <b>12170626</b>	Date <b>14-06-07</b> <b>14-06-07</b>	Ground Level (m AOD) <b>13.534</b>	Co-Ordinates (OS) <b>E 540739.807 N 265945.085</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	










SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.60-1.00	B					13.13	0.40	Grass over brown slightly gravelly fine sand TOPSOIL. Gravel is fine to medium angular to subangular flint.		TPS	
0.80-1.00	JJVV		0.80	0		12.93	0.60	Brown very gravelly SAND. Sand is fine to medium. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.00	SBT	6,5,5 5,4,5 N=19	0.90	0		12.53	1.00	Brown to orange brown clayey GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.10-1.50	B						(1.40)	Medium dense orange brown GRAVEL. Gravel is fine to medium angular to subangular flint. Becoming clayey from 2.1m (TERRACE DEPOSITS).		TD	
2.00	SBT	1,2,2 3,2,5 N=12				11.13	2.40	Stiff to very stiff dark blue gray mottled yellow orange and dark green brown CLAY (KIMMERIDGE CLAY).		KIM	
2.50	JJVV		2.50	0							
2.50-3.00	B										
3.00-3.45	U										
3.65	D										
4.00	SBT	1,3,3 4,3,4 N=14									
4.00-4.50	SBT	1,3,3 4,3,4 N=14					(4.60)				
5.00	JV		5.00	0							
5.00	U										
6.00-6.50	SBT	2,4,4 5,7,7 N=23				6.53	7.00				
7.00	SBT	3,4,6 6,13,12 N=37									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:82.5 Contractor / Driller Method/Plant Used Cable Percussive Rig Logged By LF

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC008</b>	
Job No <b>12170626</b>	Date <b>14-09-06</b> <b>14-09-06</b>	Ground Level (m AOD) <b>12.408</b>	Co-Ordinates (OS) <b>E 540699.605 N 265800.028</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>






SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.50	JJVB						(0.80)	Grass over dark brown slightly clayey slightly gravelly fine sandy TOPSOIL. Gravel is fine angular flint.		TPS	
0.60-1.00	B					11.61	0.80	Very stiff to hard sandy slightly gravelly CLAY. Gravel is fine angular to subrounded flint. Becoming stiff to very stiff from 1.1m (KIMMERIDGE CLAY).		KIM	
1.10-1.60	B	4,5,5 5,3,3 N=16					(1.80)				
1.60-2.00	B							Stiff to very dark grey mottled yellow and orange/brown CLAY. Not mottled from 4m. Becoming very stiff slightly sandy with fine selenite crystals and shell fragments from 5.0m. Medium to coarse angular gravel size weak grey siltstone fragments from 7.0m (KIMMERIDGE CLAY).		KIM	
2.00-2.50	JJVB	1,1,2 3,3,3 N=11				9.81	2.60				
2.60-3.00	B										
3.00-3.45	U	31 blows								KIM	
3.70	D										
4.00-4.50	B	2,1,2 3,4,4 N=13					(4.40)				
5.00-5.50	JJV	1,2,2 3,3,4 N=12									
5.00-5.50	D	1,2,2 3,3,4 N=12									
6.00-6.30	D									KIM	
6.30-6.75	U	25 blows									
7.00	D					5.41	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC010</b>	
Job No <b>12170626</b>	Date <b>23-10-06</b> <b>23-10-06</b>	Ground Level (m AOD) <b>12.000</b>	Co-Ordinates (OS) <b>E 540312.000 N 266204.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	D					11.60	0.40	Grass over dark brown fine to medium sandy TOPSOIL.		TPS	
0.70	JJJVD					11.30	0.70	Very stiff brown very sandy CLAY (TERRACE DEPOSITS).		TD	
1.20-1.50	JJWB	1,1,2 2,2,2 N=8				10.80	(0.50) 1.20	Orange brown clayey slightly gravelly fine to medium SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.80	D					10.40	1.60	Firm orange brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.80-2.30	B							Firm to stiff dark grey mottled orange brown and yellow CLAY with occasional selenite crystals. Not mottled from 3.0m (AMPTHILL CLAY).		AMP	
2.30-2.80	B	2,2,3 3,3,4 N=13									
3.20-3.70	B	1,2,3 3,3,3 N=12									
4.20-4.85	U	31 blows				(5.40)					
4.90	D										
5.20-5.70	B	2,2,4 6,6,7 N=23									
6.30-6.75	U	45 blows									
7.00	D					5.00	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC011</b>	
Job No <b>12170626</b>	Date <b>23-10-06</b> <b>23-10-06</b>	Ground Level (m AOD) <b>10.080</b>	Co-Ordinates (OS) <b>E 540100.000 N 266401.000</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.90	JJVV					9.68	0.40	Grass over dark brown slightly gravelly fine to medium sandy TOPSOIL		TPS	
1.30-1.80	B	10,13,18 18,14 N=50/ 190				9.38	0.70	Dense buff brown very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.90	JJVVD					9.18	0.90	Very stiff to hard orange brown mottled light grey sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
2.00-2.50	B	9,9,7 7,2,2 N=18					(1.90)	Dense becoming medium dense orange brown clayey slightly gravelly fine to medium sand. Gravel is fine to medium angular to subangular flint. With an orange slightly gravelly fine to medium SAND band from 1.1m to 1.2m (TERRACE DEPOSITS).		TD	
2.80	D					7.28	2.80	Firm dark grey sandy slightly gravelly CLAY. Gravel is fine angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
3.00-3.50	JJVB	2,2,3 4,5,6 N=18					(1.10)	Stiff grey mottled orange brown CLAY (AMPHILL CLAY).		AMP	
4.00-4.45	U	15 blows					6.18				
4.70	D						(3.10)				
5.00-5.50	JJVB	2,4,5 5,5,6 N=21					3.08				
6.30-6.75	U	28 blows					7.00				
7.00	D										

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC020</b>	
Job No <b>12170626</b>	Date <b>02-07-07</b> <b>03-07-07</b>	Ground Level (m AOD) <b>11.137</b>	Co-Ordinates (OS) <b>E 541010.613 N 266411.613</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>		Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument	Backfill
0.70	JJV				↓	10.84	0.30	MADE GROUND: Grass over dark brown slightly silty sand topsoil. Sand is fine.		MG		
1.00-1.45	U	20 blows				10.54	0.60	MADE GROUND: Brown slightly gravelly sand. Sand is fine to medium. Gravel is fine to medium subangular to subrounded flint, concrete and coke (rare).		MG		
1.45	D					(0.90)		Stiff grey thinly laminated in places slightly sandy slightly gravelly SILT. Gravel is fine subangular flint (TERRACE DEPOSITS).		TD		
2.00-2.50	CBT	4,3,4 4,6,6 N=20				9.64	1.50	Medium dense buff very sandy GRAVEL. Gravel is fine to medium subangular to subrounded chalk and flint (TERRACE DEPOSITS).				
3.00-3.50	CBT	1,1,4 4,6,7 N=21				(4.80)		4.00 mbgl, becoming dense.			TD	
4.00	CPT	4,8,11 15,16,8 N=50				4.84	6.30					
5.00	CPT	2,3,4 5,8,10 N=27				4.64	6.50	Dark grey very gravelly SAND. Sand is medium to coarse. Gravel is fine to coarse angular to subangular mostly black flint and chalk gravel (TERRACE DEPOSITS).			TD	
6.20-6.50	B					(1.00)		Grey to dark grey SAND with pockets of very sandy silt. Sand is fine to coarse (TERRACE DEPOSITS).			TD	
6.50	SPT	2,2,3 5,6,6 N=20				3.64	7.50	Fine light grey SILT (TERRACE DEPOSITS).			TD	
						(0.50)		Grey SAND. Sand is medium (TERRACE DEPOSITS).			TD	
					3.14	8.00	Grey SAND. Sand is medium (TERRACE DEPOSITS).			TD		
					(0.50)		Grey to light grey slightly gravelly SAND with pockets of sandy silt. Sand is medium to coarse. Gravel is fine subangular to rounded chalk.			TD		
9.00	SPT	1,3,3 3,6,6 N=17			2.64	8.50						
					(0.80)		Stiff to very stiff CLAY with bands of very sandy silt and fine sand, (KIMMERIDGE CLAY).			KIM		
					1.84	9.30						
					(0.70)							
					1.14	10.00						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
			Strike	Minutes	Standing	Casing					
02-07-07			1.50								

All dimensions in metres  
Scale 1:62.5

Contractor / Driller

Method/Plant Used

Cable Percussive Rig





Logged By

LF

Groundwater encountered at 1.5m.

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC021</b>	
Job No <b>12170626</b>	Date <b>03-07-07</b> <b>03-07-07</b>	Ground Level (m AOD) <b>9.600</b>	Co-Ordinates (OS) <b>E 541007.722 N 266300.703</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 2</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
1.40-1.70	B					9.40	0.20	MADE GROUND: Grass over dark brown fine to medium sand TOPSOIL		TPS
							(1.20)	MADE GROUND: Cobbles and boulders of concrete.		MG
2.00	CPT	7.9.9 11.10.11 N=41				8.20	1.40	Brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to medium, angular to subrounded flint (TERRACE DEPOSITS).		TD
3.00	CPT	3.4.7 6.7.8 N=28				7.80	1.80	Medium dense brown SAND and GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD
5.00	B									
6.00	CPT	7.7.5 2.0.0 N=7					(9.20)			
8.00	B									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC021</b>	
Job No <b>12170626</b>	Date <b>03-07-07</b> <b>03-07-07</b>	Ground Level (m AOD) <b>9.600</b>	Co-Ordinates (OS) <b>E 541007.722 N 266300.703</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>2 of 2</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
10.00	B					-1.40	11.00	Medium dense brown SAND and GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded flint and chalk (TERRACE DEPOSITS). <i>(continued)</i>		TD	
12.00	B					(1.80)	(1.80)	Grey SAND and GRAVEL. Sand is fine to coarse. Gravel is fine, angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
						-3.20	12.80	Stiff to very stiff grey CLAY (KIMMERIDGE CLAY).		KIM	
						-4.40	14.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC022</b>	
Job No <b>12170626</b>	Date <b>26-06-07 28-06-07</b>	Ground Level (m AOD) <b>11.621</b>	Co-Ordinates (OS) <b>E 541011.432 N 266087.468</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill	
0.50-0.70	JJV		0.50	0	↓	11.47	0.15	MADE GROUND: Grass over dark brown silty sand topsoil. Sand is fine to medium.	[Cross-hatch pattern]	MG		
						11.42	0.20					
						11.37	0.25	MADE GROUND: Whole red bricks.				
						10.72	0.90	MADE GROUND: Brown very sandy gravel. Gravel is fine to coarse angular to subangular brick and concrete.				
1.00-1.50	SBT	1.2, 2.4, 5 N=13	1.50	0	↓		(1.00)	MADE GROUND: Dark brown slightly clayey gravelly sand. Sand is fine to coarse. Gravel is fine to medium angular to subangular brick, bitumen and roadstone.	[Dotted pattern]	TD		
1.50-3.00	JJV					9.72	1.90	Loose to medium dense orange mottled light grey and brown clayey gravelly SAND. Sand is fine to medium. Gravel is fine, angular to subangular flint, with cobble size pockets of soft orange mottled light grey very sandy slightly gravelly SILT. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).				
2.00-2.50	SBT	2.2, 4.6, 6 N=20					(1.20)					
3.00	SBT	1.1, 2.2, 3 N=9					8.52	3.10				Very soft sandy slightly gravelly SILT. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS).
3.10-3.50	BD		1.50	0	↓		(1.05)	Very soft to soft light grey SILT (TERRACE DEPOSITS).	[Dotted pattern]	TD		
4.10-4.55	U	50 blows					7.37	4.25				Very soft to soft brown slightly gravelly SILT with black peaty organic matter. Gravel is fine angular to subrounded shell fragments (TERRACE DEPOSITS).
4.50-5.00	B D						7.22	4.40				Dark grey very sandy GRAVEL. Gravel is fine to coarse angular to subrounded mostly black flint.
4.60							6.92	4.70				Dark grey SAND and GRAVEL. Sand is medium to coarse. Gravel is fine to coarse angular to subangular mostly black flint (TERRACE DEPOSITS).
5.00	SPT	4.8, 9, 11, 14, 16 N=50	1.50	0	↓			Grey SILTSTONE (KIMMERIDGE CLAY).	[Horizontal line pattern]	KIM		
5.80	SBT	7.6, 5, 9.8, 11 N=33					6.72	4.90				Stiff to very stiff grey CLAY (KIMMERIDGE CLAY).
							4.62	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
		4.50		1.25							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC023</b>	
Job No <b>12170626</b>	Date <b>26-06-07</b> <b>26-06-07</b>	Ground Level (m AOD) <b>9.700</b>	Co-Ordinates (OS) <b>E 540844.356 N 266116.102</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						9.60	0.10	Grass over dark brown slightly clayey sand TOPSOIL. Sand is fine to medium.		TPS	
						9.45	0.25	Dark brown slightly clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to medium, angular to subangular flint (TERRACE DEPOSITS).		TD	
						(0.95)				TD	
1.20-1.65	SPT	1,1,2 3,3,3 N=11	1.30	0	↓	8.50	1.20	Brown to orange brown slightly clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to medium, angular to subangular flint (TERRACE DEPOSITS).		TD	
1.30	JJV					(1.20)		Firm to stiff grey mottled orange brown sandy slightly gravelly CLAY. Gravel is fine to medium, angular to subangular flint. Slight kerosene odour at 2m (TERRACE DEPOSITS).		TD	
2.00	JV		2.00	29.4		7.30	2.40			TD	
2.00-2.40	U	70 blows									
2.60	D										
3.00-3.50	SPT	1,1,1 2,1,2 N=6	3.00	0				Firm to stiff light grey SILT with very closely spaced fissures. No fissures apparent from 3m but 4.5m shows vertical discontinuity with brown decomposed roots covering planes. No hydrocarbon odour (TERRACE DEPOSITS).		TD	
3.00	SPT	1,1,1 2,1,2 N=6				(2.30)				TD	
4.00-4.45	U	40 blows									
4.80	D					5.00	4.70				
4.70-5.00	B					(0.65)		Dense dark grey sandy GRAVEL. Gravel is fine to coarse angular to subangular black flint (TERRACE DEPOSITS).		TD	
5.00	CBT	7,12,15 12,8,8 N=43				4.35	5.35			TD	
5.50-6.00	B					(1.15)		Stiff grey mottled brown CLAY (KIMMERIDGE CLAY). 5.50 mbgl, becoming not mottled brown with no hydrocarbon odour.		KIM	
6.50	SPT	4,5,5 8,12,14 N=40				3.20	6.50				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		4.70		1.45							
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF		



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC024</b>	
Job No <b>12170626</b>	Date <b>25-06-07</b> <b>25-06-07</b>	Ground Level (m AOD) <b>9.820</b>	Co-Ordinates (OS) <b>E 540683.225 N 266142.541</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend			
0.40	JJV		0.40	0	↓	9.57	0.25	MADE GROUND: Grass over dark brown gravel with topsoil and rootlet matrix. Gravel is fine to medium angular to subangular bitumen-covered roadstone.		MG	█	
0.80	JJV		0.80	0		9.17	0.65	0.20 mbgl, flint and concrete also present.		MG		
1.00-1.50	SBT	13,5 6,6,8 N=25			↓		(1.55)	MADE GROUND: Brown gravelly sand. Sand is medium to coarse. Gravel is fine to medium concrete, flint and rare bitumen covered roadstone.		TD	█	
2.00-2.45	SBT	12,1 2,3,4 N=10				7.62	2.20	Medium dense orange brown slightly clayey slightly gravelly SAND. Sand is fine to medium. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS).		TD		
2.50-3.00	BD					7.47	2.35	Firm orange brown sandy CLAY (TERRACE DEPOSITS).		TD		
3.00-3.50	SBT	1,1,2 2,2,3 N=9			↓		(3.05)	Firm light grey rarely mottled orange slightly sandy slightly gravelly SILT. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS). 3.00 mbgl, becoming grey/brown mottled dark grey, with rare white shelly fossils.		TD	█	
3.20	JJV		3.20	0								
4.00-4.40	U	35 blows										
4.60	D											
5.00	SBT	2,2,3 6,12,14 N=35			↓	4.42	5.40	Grey silty sandy GRAVEL. Gravel is fine to coarse, angular to subangular black flint (TERRACE DEPOSITS).		TD	█	
5.50-6.00	B					4.02	5.80	Soft grey CLAY (KIMMERIDGE CLAY).		KIM		
6.00	SBT	5,4,4 5,7,8 N=24						(1.20)				
6.50-7.00	B											
7.00-7.25	U	30 blows				2.82	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		5.40		1.86							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC024</b>	
Job No <b>12170626</b>	Date <b>25-06-07</b> <b>25-06-07</b>	Ground Level (m AOD) <b>9.820</b>	Co-Ordinates (OS) <b>E 540683.225 N 266142.541</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>












SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	JJV		0.40	0	↓	9.57	0.25	MADE GROUND: Grass over dark brown gravel with topsoil and rootlet matrix. Gravel is fine to medium angular to subangular bitumen-covered roadstone.		MG	█
						9.17	0.65	0.20 mbgl, flint and concrete also present.		MG	
0.80	JJV		0.80	0	↓		(1.55)	MADE GROUND: Brown gravelly sand. Sand is medium to coarse. Gravel is fine to medium concrete, flint and rare bitumen covered roadstone.		TD	█
1.00-1.50	SBT	13,5 6,6,8 N=25				7.62	2.20	Medium dense orange brown slightly clayey slightly gravelly SAND. Sand is fine to medium. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS).		TD	
2.00-2.45	SBT	12,1 2,3,4 N=10				7.47	2.35	Firm orange brown sandy CLAY (TERRACE DEPOSITS).		TD	
2.50-3.00	BD				↓		(3.05)	Firm light grey rarely mottled orange slightly sandy slightly gravelly SILT. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS).		TD	█
3.00-3.50	SBT	1,1,2 2,2,3 N=9	3.20	0		4.42	5.40	3.00 mbgl, becoming grey/brown mottled dark grey, with rare white shelly fossils.		TD	
3.20	JJV					4.02	5.80	Grey silty sandy GRAVEL. Gravel is fine to coarse, angular to subangular black flint (TERRACE DEPOSITS).		TD	
4.00-4.40	U	35 blows					(1.20)	Soft grey CLAY (KIMMERIDGE CLAY).		KIM	
4.60	D				↓		2.82				█
5.00	SBT	2,2,3 6,12,14 N=35				2.82	7.00				
5.50-6.00	B										
6.00	SBT	5,4,4 5,7,8 N=24									
6.50-7.00	B										
7.00-7.25	U	30 blows									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		5.40		1.86							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC025</b>	
Job No <b>12170626</b>	Date <b>20-06-07</b> <b>20-06-07</b>	Ground Level (m AOD) <b>12.427</b>	Co-Ordinates (OS) <b>E 540611.523 N 266177.273</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.65-1.00	B					12.23	0.20	Grass over dark brown slightly gravelly, fine sand TOPSOIL. Gravel is fine to medium angular to subangular flint.		TPS	
0.70-0.80	JJJ					11.78	0.65	Stiff brown very sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.00-1.40	U	40 blows				(1.35)		Firm brown mottled orange brown sandy slightly gravelly CLAY. Gravel is fine angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
1.80	D					10.43	2.00	Medium dense orange brown SAND and GRAVEL. Sand is medium to coarse. Gravel is fine to medium, angular to subrounded flint (TERRACE DEPOSITS).		TD	
2.00-2.45	SBT	3,3,3 4,3,4 N=14				(2.35)		3.00 - 3.20 mbgl, bands of soft orange/brown mottled grey slightly sandy clay.		TD	
3.00	CBT	1,1,1 1,3,3 N=8				8.08	4.35	Soft brown slightly gravelly SILT. Gravel is fine angular to subangular black flint (TERRACE DEPOSITS).		TD	
4.00-4.45	SBT	1,1,3 2,4,5 N=14				(1.15)		5.00 mbgl, very fine sand.		TD	
5.00-5.45	U	55 blows				6.93	5.50	Grey SAND and GRAVEL. Sand is medium to coarse. Gravel is fine to coarse angular to subrounded flint and chalk. Flint is mainly black (TERRACE DEPOSITS).		TD	
5.50	B					(2.60)				TD	
6.50	B					4.33	8.10	Stiff to very stiff blue to grey mottled brown CLAY (KIMMERIDGE CLAY).		KIM	
7.50	B				3.93	8.50					
8.10-8.50	B										
8.50-8.95	U	100 blows									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
		2.00		1.60							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>BHC026</b>			
Job No <b>12170626</b>	Date <b>15-06-07</b> <b>15-06-07</b>	Ground Level (m AOD) <b>14.488</b>	Co-Ordinates (OS) <b>E 540618.883 N 265970.963</b>				
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>			Sheet <b>1 of 1</b>	





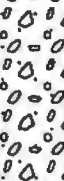

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						14.34	0.15	Grass over dark brown sandy clay TOPSOIL.		TPS	
0.50-1.00	B JJJV		0.50	0			(1.05)	Medium dense orange brown slightly gravelly sandy CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
1.00	SBT	2,5,6 5,4,4 N=19	1.20	0		13.29	1.20	Buff yellow fine to medium SAND and GRAVEL. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD	
1.20-1.50	B JJV					12.69	1.80	Firm grey CLAY (TERRACE DEPOSITS).		TD	
2.00-2.40	SBT	1,2,3 4,5,4 N=16				12.49	2.00	Firm grey brown mottled orange sandy slightly gravelly CLAY with medium gravel sized pockets of siltstone. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
							(1.60)	Firm to stiff dark grey mottled orange CLAY with medium gravel sized pockets of fine light grey silt (KIMMERIDGE CLAY).		KIM	
3.85-4.00	SBT	2,3,6 6,7,9 N=28				10.49	4.00	Stiff dark grey CLAY (KIMMERIDGE CLAY).		KIM	
4.20	JJV		4.20	4.2			(3.00)			KIM	
4.75-5.10	U										
5.35	D										
6.20-6.70	SBT	2,3,6 6,7,8 N=28				7.49	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>PTM004</b>	
Job No <b>12170626</b>	Date <b>20-06-07</b> <b>20-06-07</b>	Ground Level (m AOD) <b>10.054</b>	Co-Ordinates (OS) <b>E 540958.766 N 266154.839</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
						9.80	0.25	Grass over brown sand TOPSOIL. Sand is fine to medium.		TPS	
							(1.15)	Brown slightly gravelly SAND. Sand is fine to medium. Gravel is fine to medium angular to subangular flint. Becoming orange brown with depth (TERRACE DEPOSITS).		TD	
						8.65	1.40	Orange brown gravelly SAND. Sand is medium to coarse. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
							(1.80)				
						6.85	3.20				
						6.55	3.50	Soft grey slightly gravelly very sandy SILT. Sand is fine. Gravel is fine subangular black flint (TERRACE DEPOSITS).		TD	
							(1.90)	Orange brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint and quartzite. Fine to coarse subangular to rounded flint and quartzite gravel from 5m (TERRACE DEPOSITS).		TD	
						4.65	5.40				
							(0.80)	Very stiff blue grey CLAY (KIMMERIDGE CLAY).		KIM	
						4.05	6.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC001</b>	
Job No <b>12170626</b>	Date <b>23-08-06</b> <b>30-08-06</b>	Ground Level (m AOD) <b>9.309</b>	Co-Ordinates (OS) <b>E 540865.907 N 266364.906</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>		Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.30-0.50	WJV					9.16	0.15	MADE GROUND: CONCRETE (no rebar).		MG	
						9.11	0.20	MADE GROUND: TARMAC and tar-bound gravel.		MG	
0.60-0.90	WJV					8.91	0.40	MADE GROUND: Brown gravelly sand. Gravel is fine to medium angular to subangular flint. Strong hydrocarbon odour.		MG	
						8.86	0.45			MG	
						8.51	0.80	MADE GROUND: Tarmac (Bitumen)		MG	
						8.41	0.90	MADE GROUND: Dark brown mottled orange black slightly gravelly clay. Gravel is fine subangular flint.		TD	
						(1.10)		Firm light grey fine sandy CLAY (TERRACE DEPOSITS).		TD	
						7.31	2.00	Light brown gravelly coarse SAND. Gravel is fine to medium angular to subangular flint and chalk. Becoming brown and black and slightly clayey with a slight hydrocarbon odour from 1.2m (TERRACE DEPOSITS).		TD	
						(1.00)				TD	
						6.31	3.00	Brown and grey gravelly SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						(3.40)		Light brown fine to medium SAND and GRAVEL. Gravel is fine to coarse subangular to angular with frequent cobbles of flint. Becoming very gravelly fine to medium sand with no cobbles from 4m (TERRACE DEPOSITS).		TD	
						2.91	6.40				
						(0.60)		Light grey slightly silty very gravelly fine to medium SAND. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
						2.31	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
30-08-06		2.00	20		1.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By JC/RLC		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC002</b>	
Job No <b>12170626</b>	Date <b>18-09-06</b> <b>18-09-06</b>	Ground Level (m AOD) <b>9.134</b>	Co-Ordinates (OS) <b>E 540938.872 N 266322.786</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.70-1.00	JJJV				↓	9.03	0.10	Grass over dark brown sandy TOPSOIL.	TPS		
						(0.60)	0.70	Dark brown fine to medium SAND (TERRACE DEPOSITS).	TD		
						8.43	(0.50)	1.20	Brown slightly gravelly fine to coarse SAND. Gravel if fine angular to subangular flint (TERRACE DEPOSITS).		TD
2.00-2.50	JJJV				↓			Buff brown slightly gravelly medium to coarse SAND. Gravel is fine to medium angular to subangular flint. Becoming sand and gravel from 2.0m. Becoming slightly gravelly sand from 3.0m. Gravel becomes fine from 4.0m (TERRACE DEPOSITS).			
4.00-4.50	JJJV					(5.80)					TD
						2.13	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Groundwater encountered at 2.0m - very slow.
Date	Time	Strike	Minutes	Standing	Casing						
19-09-08		2.00	20	1.81	1.75						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC003</b>	
Job No <b>12170626</b>	Date <b>11-09-06</b> <b>11-09-06</b>	Ground Level (m AOD) <b>9.411</b>	Co-Ordinates (OS) <b>E 540945.100 N 266295.516</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
						9.21	0.20	MADE GROUND: Concrete (no rebar).		MG	
0.50-1.00	JJV						(0.80)	MADE GROUND: Brown gravelly sand. Gravel is fine to coarse subangular to subrounded flint. Slight hydrocarbon and chemical odour.		MG	
1.00-1.50	JJV					8.41	1.00	Brown slightly clayey gravelly SAND. Gravel is fine to coarse angular to subangular flint. Strong hydrocarbon and solvent odour (TERRACE DEPOSITS).		TD	
1.60	JJV					7.81	1.60	Very soft brown stained black slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint. Moderate hydrocarbon and solvent odour (TERRACE DEPOSITS).		TD	
1.70	JJV					7.71	1.70	Brown slightly gravelly SAND. Gravel is fine to medium angular to subangular flint. Strong hydrocarbon and solvent odour. Becoming very gravelly brown/grey/black from 1.8m (TERRACE DEPOSITS).		TD	
2.00-2.30	JJV					6.91	2.50	Brown SAND and GRAVEL. Gravel is fine to medium angular to subangular flint. Slight hydrocarbon solvent odour to 4m (TERRACE DEPOSITS).		TD	
							(3.50)				
4.50-5.00	JJV					3.41	6.00	Brown very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
6.50-7.00	JJV					2.41	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
12-09-06		2.30	20	2.19	2.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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# BOREHOLE LOG





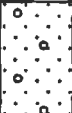

Project <b>Northstowe</b>				BOREHOLE No <b>WWC004</b>	
Job No 12170626	Date 13-09-06 13-09-06	Ground Level (m AOD) 9.193	Co-Ordinates (OS) E 540909.846 N 266307.337		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION		
0.40-1.00	JJVV				↓	9.04	0.15	MADE GROUND: Concrete (no rebar).		MG
							(1.05)	MADE GROUND: Firm brown sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular flint and brick.		MG
3.00-3.50	JJVV				↓	7.99	1.20	Brown slightly gravelly fine to medium SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD
							(0.80)			
						7.19	2.00	Buff brown fine to coarse SAND and GRAVEL. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD
6.50-7.00	JJVV				↓	6.19	3.00	Buff brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint. Becoming light brown from 3.0m (TERRACE DEPOSITS).		TD
							(2.00)			
						4.19	5.00	Light brown and grey very gravelly fine to coarse SAND. Gravel is fine to medium angular to subrounded flint. Becoming grey from 6.0m (TERRACE DEPOSITS).		TD
							(2.00)			
						2.19	7.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
13-09-06		2.00	20	1.85	1.80						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC005</b>	
Job No <b>12170626</b>	Date <b>31-08-06</b> <b>31-08-06</b>	Ground Level (m AOD) <b>9.283</b>	Co-Ordinates (OS) <b>E 540886.153 N 266275.681</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill		
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend	
1.30	JV					8.78	(0.50) 0.50	Grass over dark brown slightly sandy slightly gravelly clay TOPSOIL with frequent rootlets. Gravel is fine to medium angular to subangular flint.		TPS		
						7.98	(0.80) 1.30	Brown sandy slightly gravelly CLAY with frequent medium gravel sized pockets of brown sand and rare rootlets. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD		
							(1.70)	6.28	3.00	Brown orange slightly clayey slightly gravelly SAND. Gravel is fine to medium angular to subangular flint with rare coarse subangular to angular flint gravel. With rare cobble size pockets of brown orange clay from 2.0m (TERRACE DEPOSITS).		TD
							(1.00)	5.28	4.00	Light brown gravelly fine SAND with rare pockets of brown sandy clay. Gravel is fine angular to subangular flint with rare pockets of brown sandy clay (TERRACE DEPOSITS).		TD
							(2.80)			Light buff brown fine to medium SAND and GRAVEL. Gravel is fine to coarse angular to subangular flint with rare cobbles (TERRACE DEPOSITS).		TD
								2.48	6.80	2.28	7.00	Stiff grey CLAY (KIMMERIDGE CLAY).

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
31-08-06		2.00	20		1.50						
31-08-06		3.00	20	2.15	2.80						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC006</b>	
Job No <b>12170626</b>	Date <b>04-09-06</b> <b>04-09-06</b>	Ground Level (m AOD) <b>9.313</b>	Co-Ordinates (OS) <b>E 540832.455 N 266280.360</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.80-1.30	JJJV				↓	8.91	0.40	MADE GROUND: Concrete (no rebar).		MG	
							(0.90)	Dark brown sandy CLAY with rootlets. Becoming mottled orange brown and slightly gravelly from 0.8m. Gravel is fine to medium subangular flint and mixed lithology (TERRACE DEPOSITS).		TD	
2.00-2.50	JJJV				↓	8.01	1.30	Yellow and brown gravelly SAND. Gravel is fine to medium angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
							(0.70)	Brown slightly clayey slightly gravelly fine SAND. Gravel is fine subangular flint. Becoming light brown/buff grey medium to coarse sand and subangular to rounded flint gravel from 4.8m (TERRACE DEPOSITS).		TD	
4.80-5.50	JJJV				↓		(3.30)			TD	
						4.01	5.30	Light buff brown and grey gravelly medium to coarse SAND. Gravel is medium to coarse subangular to rounded flint. Becoming very clayey with depth (TERRACE DEPOSITS).		TD	
						3.31	6.00	Stiff dark grey CLAY (KIMMERIDGE CLAY).		KIM	
						2.31	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
04-09-06		2.00	20	2.23	3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC007</b>	
Job No <b>12170626</b>	Date <b>04-09-06</b> <b>04-09-06</b>	Ground Level (m AOD) <b>9.274</b>	Co-Ordinates (OS) <b>E 540817.187 N 266257.615</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA					Geology	Instrument/Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.10	JJV					8.77	(0.50) 0.50	MADE GROUND: Grass over dark brown sandy clay topsoil with roots and rare brick and charcoal fragments.		MG	
							(1.00)	Stiff brown and orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint (TERRACE DEPOSITS).		TD	
1.60	JJV					7.77	1.50				
							(1.00)	Brown and orange brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
						6.77	2.50				
							(0.60)	Soft light grey brown very fine sandy CLAY (TERRACE DEPOSITS).		TD	
3.15	JJV					6.17	3.10				
							3.50	Soft light brown stained black fine sandy SILT (TERRACE DEPOSITS).		TD	
							(0.50)	Brown fine SAND (TERRACE DEPOSITS).		TD	
						5.27	4.00				
4.10	JV						4.40	Soft brown fine sandy CLAY with rare orange brown sand flecks and black bands (natural mottling or staining) (TERRACE DEPOSITS).		TD	
							(0.60)	Stiff grey mottled brown CLAY (KIMMERIDGE CLAY).		KIM	
						4.27	5.00				
							(2.00)	Stiff light grey mottled light blue grey CLAY with rare fine to coarse moderately weak to moderately strong siltstone gravel. Becoming fissured from 5.5m (KIMMERIDGE CLAY).		KIM	
						2.27	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Opt	From	To	Hours	From	To	
											Groundwater encountered at 3.5m - slow.
Date	Time	Strike	Minutes	Standing	Casing						
05-09-06		3.50	20	2.68	3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JMC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC008</b>	
Job No <b>12170626</b>	Date <b>01-09-06</b> <b>01-09-06</b>	Ground Level (m AOD) <b>9:286</b>	Co-Ordinates (OS) <b>E 540848.097 N 266255.651</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						8.94	0.35	MADE GROUND: Concrete (no rebar).		MG	
1.00	JJV						(1.45)	MADE GROUND: Brown slightly sandy slightly gravelly clay with frequent medium gravel sized pockets of dark brown and black sand. Gravel is fine to coarse angular to subangular flint and red brick with occasional cobbles of red bricks.		MG	
1.80	JV					7.49	1.80				
							(0.90)	Firm brown very sandy slightly gravelly CLAY with rare thinly bedded bands of flint gravel and rare medium gravel size pockets of black sand. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
						6.59	2.70				
						6.29	3.00	Firm with rare brown fine sand laminations grey slightly gravelly CLAY. Gravel is fine subangular to angular flint (TERRACE DEPOSITS).		TD	
							(0.90)	Brown slightly gravelly fine SAND with frequent cobble sized pockets of grey clay. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						5.39	3.90				
							(1.10)	Grey fine SAND and GRAVEL with frequent cobble size pockets of grey clay. Gravel is fine to medium flint (TERRACE DEPOSITS).		TD	
5.00-5.50	JV					4.29	5.00				
						3.89	5.40	Grey fine very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
							(1.10)	Very stiff to hard grey CLAY (KIMMERIDGE CLAY).		KIM	
						2.79	6.50				
						2.29	(0.50) 7.00	Very stiff to hard grey slightly gravelly CLAY. Gravel is fine to coarse siltstone (KIMMERIDGE CLAY).		KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Pot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
01-09-06		3.00	20	2.12	2.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF/RLC		



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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC009</b>	
Job No <b>12170626</b>	Date <b>06-09-06</b> <b>06-09-06</b>	Ground Level (m AOD) <b>9.462</b>	Co-Ordinates (OS) <b>E 540987.519 N 266199.869</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>









SAMPLES & TESTS					STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.50-1.00	JJV					9.06	0.40	MADE GROUND: Grass over brown sandy slightly gravelly topsoil with rootlets. Gravel is fine to medium angular to subangular flint, chalk and red brick.		MG	
						(0.80)		Orange brown slightly clayey slightly gravelly SAND with rootlets. Gravel is fine to medium angular to subangular flint and quartzite gravel (TERRACE DEPOSITS).		TD	
1.20-1.40	JJV					8.26	1.20	Brown slightly gravelly SAND with bands of grey fine sand. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						8.06	1.40	Light brown slightly clayey slightly gravelly SAND. Gravel is fine to medium subangular flint becoming gravelly from 1.8m (TERRACE DEPOSITS).		TD	
						(1.60)				TD	
3.00-3.50	JJV					6.46	3.00	Firm thinly laminated light grey/brown sandy slightly gravelly CLAY and SILT (TERRACE DEPOSITS).		TD	
						(0.80)				TD	
						5.66	3.80	Light grey and grey slightly clayey medium to coarse SAND (TERRACE DEPOSITS).		TD	
						5.26	4.20	Brown very sandy GRAVEL. Gravel is fine to coarse angular to subrounded flint. Becoming sandy from 4.8m with rare sandstone and quartzite (TERRACE DEPOSITS).		TD	
						(2.40)				TD	
5.50-6.00	JJV				2.86	6.60	Very stiff grey CLAY (KIMMERIDGE CLAY).		KIM		
					2.46	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Groundwater seepage at 3.8m. Groundwater encountered at 4.2m - fast.
Date	Time	Strike	Minutes	Standing	Casing						
06-09-06		3.80	20								
06-09-06		4.20	20	2.88	4.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC010</b>	
Job No <b>12170626</b>	Date <b>30-08-06</b> <b>30-08-06</b>	Ground Level (m AOD) <b>9.543</b>	Co-Ordinates (OS) <b>E 540864.863 N 266197.114</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
					↓	9.04	(0.50) 0.50	MADE GROUND: Grass over brown slightly gravelly clay topsoil with frequent rootlets Gravel is medium to coarse angular to subangular flint and red brick.		MG	
						8.24	(0.80) 1.30	Firm brown slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
							(1.50)	Firm brown orange slightly sandy slightly gravelly CLAY with frequent cobble size pockets of buff clay. Gravel is fine to medium angular to subangular flint and chalk. Becoming very sandy from 2.1m (TERRACE DEPOSITS).		TD	
					↓	6.74	2.80				
						6.44	3.10	Soft buff slightly gravelly CLAY. Gravel is fine to coarse angular to subangular with rare cobbles of flint (TERRACE DEPOSITS).		TD	
					↓	5.84	(0.60) 3.70	Dark brown slightly gravelly CLAY with rare small wood fragments (40mm long). Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						5.44	4.10	Grey clayey GRAVEL. Gravel is fine to coarse angular to subangular with rare cobbles of flint (TERRACE DEPOSITS).		TD	
							(1.40)	Stiff to very stiff grey CLAY (KIMMERIDGE CLAY).		KIM	
						4.04	5.50				
							(1.50)	Stiff to very stiff grey gravelly CLAY. Gravel is fine to coarse angular to subangular siltstone (KIMMERIDGE CLAY).		KIM	
						2.54	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
30-08-06		3.70	20	2.91	3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC011</b>	
Job No <b>12170626</b>	Date <b>29-08-06</b> <b>29-08-06</b>	Ground Level (m AOD) <b>9.284</b>	Co-Ordinates (OS) <b>E 540827.616 N 266167.336</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>









SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.20	JJV					8.88	0.40	Grass over brown slightly gravelly clay TOPSOIL with frequent rootlets. Gravel is fine to medium angular to subangular flint.		TPS	
							(1.60)	Firm brown orange gravelly CLAY with frequent coarse gravel size pockets of brown sand and coarse gravel size pockets of buff silt. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						7.28	2.00	Firm brown gravelly CLAY with frequent coarse gravel size pockets of grey clay. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						6.48	2.80	Firm grey CLAY with rare thinly bedded brown sand lenses (TERRACE DEPOSITS).		TD	
						5.78	3.50	Firm light grey slightly gravelly SILT. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						5.08	4.20				
4.20	JJV						(1.10)	Grey and brown SAND and GRAVEL. Gravel is fine to medium angular to subangular flint and chalk and rare cobbles of flint (TERRACE DEPOSITS).		TD	
						3.98	5.30	Firm grey CLAY with rare fine gravel size pockets of brown sand (KIMMERIDGE CLAY).		KIM	
						2.78	6.50				
						2.28	(0.50) 7.00	Very stiff grey gravelly CLAY. Gravel is fine to coarse subangular to angular siltstone (KIMMERIDGE CLAY).		KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
29-08-06		2.00			1.80						
29-08-06		4.20	20	2.32	4.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC012</b>	
Job No <b>12170626</b>	Date <b>13-09-06</b> <b>13-09-06</b>	Ground Level (m AOD) <b>9.553</b>	Co-Ordinates (OS) <b>E 540820.220 N 266199.106</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40-1.00	JJJV					9.40	0.15	MADE GROUND: Concrete (no rebar).		MG	
							(0.95)	Firm dark brown mottled black (organic) sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
2.20-2.40	JJJV					8.45	1.10	Stiff light grey mottled orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint. Becoming very stiff from 1.8m. Becoming gravelly from 2.2m (TERRACE DEPOSITS).		TD	
							(1.40)			TD	
						7.05	2.50	Soft grey brown sandy SILT with rare fine brown rootlets and loose organic material (TERRACE DEPOSITS).		TD	
						6.75	2.80	Brown fine sandy SILT with organic material. Becoming slightly gravelly from 3m. Gravel is fine angular flint (TERRACE DEPOSITS).		TD	
4.80-4.90	JJV					5.25	4.30	Grey very sandy SILT. Sand is fine. (TERRACE DEPOSITS).		TD	
							(0.60)			TD	
						4.65	4.90	Stiff grey slightly sandy gravelly SILT. Gravel is fine to medium angular flint and grey siltstone (KIMMERIDGE CLAY).		KIM	
6.50-7.00	JJV					4.25	5.30	Stiff to very stiff grey slightly gravelly CLAY. Gravel is fine angular siltstone (KIMMERIDGE CLAY).		KIM	
							(1.70)			KIM	
						2.55	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
13-09-06		4.90	20		3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC013</b>	
Job No <b>12170626</b>	Date <b>30-08-06</b> <b>30-08-06</b>	Ground Level (m AOD) <b>9.501</b>	Co-Ordinates (OS) <b>E 540800.930 N 266180.696</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>











SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill	
0.80	JV				↓	9.10	0.40	Grass over brown medium gravelly clay TOPSOIL with frequent rootlets. Gravel is medium angular to subangular chalk.		TPS		
						8.70	0.80	Firm brown slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD		
						(0.70)	8.00	1.50	Firm light grey mottled brown orange slightly sandy slightly gravelly SILT. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).			TD
2.40	JV				↓	(0.90)	7.10	2.40	Firm light grey slightly sandy slightly gravelly CLAY with frequent cobble size pockets of brown sand (TERRACE DEPOSITS).			TD
						(1.10)	6.00	3.50	Firm grey slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded chalk (TERRACE DEPOSITS).			TD
						(1.00)	5.00	4.50	Firm light grey slightly gravelly SILT. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).			TD
						(0.50)	4.50	5.00	Soft grey very gravelly CLAY. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).			TD
					↓	(0.70)	3.80	5.70	Grey and brown sandy GRAVEL. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).			TD
						(1.30)	2.50	7.00	Very stiff grey CLAY (KIMMERIDGE CLAY).			KIM

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
30-08-06		4.50	20	2.09	4.20						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC014</b>	
Job No <b>12170626</b>	Date <b>05-09-06</b> <b>05-09-06</b>	Ground Level (m AOD) <b>9.363</b>	Co-Ordinates (OS) <b>E 540760.910 N 266191.818</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gailegher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40-0.80	JJVV				↓	9.11	0.25	MADE GROUND: Concrete with rebar at base.		MG	
						8.96	0.40	MADE GROUND: Gravel subbase.		MG	
1.60-2.00	JV				↓	(0.70)	8.26	Firm brown mottled orange brown slightly sandy CLAY (TERRACE DEPOSITS).		TD	
						(0.70)	7.56	Firm to stiff light grey mottled orange sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
2.70-2.80	JV				↓	(0.90)	6.86	Stiff light grey SILT and CLAY with rare maroon root channels (TERRACE DEPOSITS).		TD	
						(0.80)	5.86	Dark brown clayey fibrous PEAT with woody remains and bands of light brown silt with rare snail like shells (TERRACE DEPOSITS).		TD	
3.10-3.55	U	16 blows			↓	(0.90)	5.86	Firm light blue grey slightly sandy SILT and CLAY (TERRACE DEPOSITS).		TD	
						(0.50)	4.96	Dark grey and white sandy GRAVEL. Gravel is fine to coarse angular to rounded flint (TERRACE DEPOSITS).		TD	
4.90-5.00	JV				↓	(0.60)	4.46	Stiff dark grey slightly gravelly CLAY (KIMMERIDGE CLAY).		KIM	
						(1.50)	3.86	Stiff fissured dark grey CLAY (KIMMERIDGE CLAY).		KIM	
						2.38	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Groundwater encountered at 4.4m - fast.
		Strike	Minutes	Standing	Casing						
05-09-06		4.40	20	1.73	4.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JMC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC015</b>	
Job No <b>12170626</b>	Date <b>04-09-06</b> <b>04-09-06</b>	Ground Level (m AOD) <b>9.559</b>	Co-Ordinates (OS) <b>E 540782.897 N 266209.974</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.55	JJW				↓	9.06	(0.50) 0.50	Grass over dark brown sandy slightly gravelly clay TOPSOIL. Gravel is fine to coarse angular to subrounded flint.		TPS	
						8.66	0.90	Firm orange brown very sandy CLAY. Sand is fine (TERRACE DEPOSITS).		TD	
2.65	JJW				↓		(1.00)	Light brown and orange brown slightly silty slightly gravelly SAND. Sand is fine. Gravel is fine to medium angular flint (TERRACE DEPOSITS).		TD	
						7.66	1.90				
						6.96	2.60	Brown slightly clayey sandy GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
						6.46	(0.50) 3.10	Stiff light grey slightly sandy slightly gravelly CLAY with rare black mottling. Gravel is fine to medium subangular to rounded flint (TERRACE DEPOSITS).		TD	
5.00	JV				↓		(3.90)	Stiff grey fissured CLAY. Becoming slightly gravelly with rare pyrite and shells from 4.0m. Gravel is fine to medium subrounded to rounded flint and chalk. No shells or pyrite from 5.0m (KIMMERIDGE CLAY).		KIM	
						2.56	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
04-09-06		1.90			1.80						
04-09-06		4.00			3.50						
04-09-06		5.00			4.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By JMC		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC016</b>	
Job No <b>12170626</b>	Date <b>11-09-06</b> <b>11-09-06</b>	Ground Level (m AOD) <b>10.006</b>	Co-Ordinates (OS) <b>E 540606.099 N 266140.758</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.50-1.00	JJJV				↓	9.51	(0.50) 0.50	Grass over brown sandy TOPSOIL.		TPS	
						8.81	(0.70) 1.20	Brown slightly clayey slightly gravelly fine SAND. Gravel is fine to medium angular to subrounded flint, chalk and quartzite (TERRACE DEPOSITS).		TD	
2.10-2.30	JJJV				↓	7.51	(1.30) 2.50	Orange slightly gravelly SAND with a moderate hydrocarbon odour. Sand is fine to medium. Gravel is fine to medium subangular flint. Becoming slightly clayey from 2.1m (TERRACE DEPOSITS).		TD	
						6.71	(0.80) 3.30	Soft to firm fissured light grey CLAY with brown orange fine sand lenses (TERRACE DEPOSITS).		TD	
						4.51	(2.20) 5.50	Firm fissured grey SILT with frequent black organic material and shell fragments (gastropod) (TERRACE DEPOSITS).		TD	
						3.01	(1.50) 7.00	Grey medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
11-09-06		3.10			1.50						
11-09-06		5.50	20	2.34	4.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By <b>LF/RLC</b>
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC017</b>	
Job No <b>12170626</b>	Date <b>11-09-06</b> <b>11-09-06</b>	Ground Level (m AOD) <b>10.200</b>	Co-Ordinates (OS) <b>E 540567.086 N 266140.563</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>







SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill	
0.60-1.20	JJJJVV					9.90	0.30	MADE GROUND: Brown slightly clayey slightly gravelly sand. Gravel is medium to coarse angular to subrounded flint and quartzite.		MG		
						9.60	0.80					
2.00-2.50	JJJJVV						(2.10)	MADE GROUND: Brown slightly sandy gravel. Gravel is medium to coarse angular to subangular flint, brick and quartzite. MADE GROUND: Soft to firm brown light grey mottled orange with black staining slightly sandy slightly gravelly clay. Gravel is medium to coarse subangular to subrounded flint and brick. Strong hydrocarbon odour and sulphur odour. Becoming sandy slightly gravelly clay from 2.0m.		MG		
							7.50					2.70
3.10-3.50	JJJV						(1.90)	Soft to firm fissured light grey CLAY with rare brown orange fine sand lenses. Slight hydrocarbon odour (TERRACE DEPOSITS).		TD		
							5.60					4.60
4.60-5.00	JJV						(0.90)	Firm fissured grey SILT and CLAY with frequent organic material, wood with fine dark grey sand pockets (TERRACE DEPOSITS).		TD		
							4.70					5.50
6.60-7.00	JJVV						(1.10)	Grey medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD		
							3.60					6.60
							3.20	7.00	Grey very gravelly medium to coarse SAND. Gravel is fine to coarse flint and chalk (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
11-09-06		5.50	20	2.68	4.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC018</b>	
Job No <b>12170626</b>	Date <b>08-09-06</b> <b>08-09-06</b>	Ground Level (m AOD) <b>10.589</b>	Co-Ordinates (OS) <b>E 540566.070 N 266113.411</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.60	B						(0.60)	Grass over brown sandy slightly gravelly TOPSOIL. Gravel is fine to coarse subangular flint.		TPS	
0.30-0.60	JJV					9.99	0.60				
0.60-1.00	B					9.59	1.00	Brown orange slightly clayey slightly gravelly fine SAND. Gravel is fine angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
1.00-1.50	JJVVB	2,2,2 3,3,3 N=11					(1.80)	Firm light grey mottled orange brown SILT and CLAY with frequent medium gravel sized pockets of fine orange slightly gravelly sand. Gravel is fine subangular to subrounded flint gravel (TERRACE DEPOSITS).		TD	
2.00-2.45	U	31 blows					7.79				
2.70	D						2.80				
2.80-3.00	JJVVB					7.39	3.20	Loose orange brown slightly clayey slightly gravelly fine to medium SAND. Gravel is medium angular to subangular flint (TERRACE DEPOSITS).		TD	
3.00		1,1,1 2,2,2 N=7									
3.20-3.80	B						(2.00)	Soft to firm dark grey purple mottled red CLAY. Becoming firm from 4.7m and very gravelly from 5.2m. Gravel is coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
3.80-4.00	JJVVB										
4.00-4.45	U	21 blows					5.39				
4.70	D						5.20				
5.00		2,2,4 4,4,4 N=16					(1.80)	Medium dense grey light grey sandy GRAVEL. Sand is medium to coarse, gravel is fine to coarse angular to subrounded flint. Becoming fine to medium sand and gravel with depth (TERRACE DEPOSITS).		TD	
5.20-5.50	B										
6.00-6.50	B	2,2,3 4,5,6 N=18					3.59				
6.50-7.00	JJVVB						7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
08-09-06		5.20	20	2.38	4.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By RLC		





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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC019</b>	
Job No <b>12170626</b>	Date <b>07-09-06</b> <b>07-09-06</b>	Ground Level (m AOD) <b>9.773</b>	Co-Ordinates (OS) <b>E 540859.677 N 266099.614</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.50	JVVB					9.27	(0.50) 0.50	Grass over brown slightly gravelly SAND. Gravel is fine to medium subrounded to rounded flint and chalk (TERRACE DEPOSITS).		TD	
0.50-1.10	JVVB							Medium dense brown, mottled orange and grey clayey slightly gravelly fine SAND. Sand is fine. Gravel is fine to medium subangular to subrounded flint and fine chalk (TERRACE DEPOSITS).		TD	
1.20		1,1,3 3,2,3 N=11					(1.50)				
1.30-1.70	B					7.77	2.00				
2.00-2.30	JVVB	2,2,2 3,2,2 N=9						Firm to stiff light grey slightly sandy slightly gravelly CLAY with fine to coarse gravel size pockets of orange grey fine to medium sand (TERRACE DEPOSITS).		TD	
2.30-2.50	B					6.77	(1.00) 3.00				
3.70	D							Firm grey slightly fine to medium sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint. Becoming gravelly from 4.6m with frequent medium gravel size pockets of peat and wood. Becoming stiff from 5.8m (no gravel and no sand) (TERRACE DEPOSITS).		TD	
4.00-4.50	B	1,1,2 3,5,5 N=15									
4.60-5.00	B						(4.00)				
5.00	JVV										
5.10-5.55	B	3,3,3 5,5,5 N=18									
5.80-6.20	B										
7.00	D					2.77	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
07-09-06		4.60	20	2.81	4.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC019A</b>	
Job No <b>12170626</b>	Date <b>15-06-07</b> <b>15-06-07</b>	Ground Level (m AOD) <b>11.876</b>	Co-Ordinates (OS) <b>E 540848.178 N 266067.730</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>	Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.65-1.00	JVJ				↓	11.78	0.10	Grass over TOPSOIL.	[Symbol]	TPS	
						11.48	0.40	Orange brown clayey SAND with frequent rootlets (TERRACE DEPOSITS).	[Symbol]	TD	
2.70-3.70	JVJ				↓		(2.30)	Orange brown clayey SAND with rare rootlets. Becoming gravelly with fine to medium angular to rounded flint from 0.65m and frequent medium gravel sized pockets of light grey silt with orange mottling from 1.3m (TERRACE DEPOSITS).	[Symbol]	TD	
						9.18	2.70	Dark grey CLAY with rare pockets of light grey silt and rare medium gravel sized pockets of orange sand (TERRACE DEPOSITS).	[Symbol]	TD	
						8.18	3.70	Light grey slightly sandy SILT with thin laminations of orange coarse sand (TERRACE DEPOSITS).	[Symbol]	TD	
						7.08	4.80	Brown very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).	[Symbol]	TD	
						6.28	5.60	Very stiff grey mottled orange brown slightly gravelly CLAY. Gravel is fine angular to subrounded rust coloured unidentified mineral and flint (KIMMERIDGE CLAY).	[Symbol]	KIM	
						5.88	6.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
15-06-07		2.30									

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By CW / LF
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# BOREHOLE LOG






Project <b>Northstowe</b>				BOREHOLE No <b>WWC020</b>	
Job No <b>12170626</b>	Date <b>25-08-06</b> <b>25-08-06</b>	Ground Level (m AOD) <b>9.716</b>	Co-Ordinates (OS) <b>E 540824.400 N 266100.244</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>		Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40	JJJVV					9.32	0.40	MADE GROUND: Grass over slightly gravelly clay topsoil with frequent rootlets. Gravel is fine to medium angular to subangular flint, chalk and tarmac.		MG	
						9.12	0.60	MADE GROUND: Brown slightly gravelly clay with occasional medium gravel size pockets of light brown sand. Gravel is fine to medium chalk and flint.		MG	
							(2.90)	Firm light grey slightly gravelly CLAY with frequent thinly bedded brown orange sand lenses. Gravel is fine to medium angular to subangular flint and chalk. Becoming sandy from 2.2m (TERRACE DEPOSITS).		TD	
						6.22	3.50	Firm grey brown slightly gravelly CLAY with frequent black mottling (TERRACE DEPOSITS).		TD	
						4.82	4.90	Brown and black slightly clayey GRAVEL. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
5.20	JJJVV					4.42	5.30	Very stiff grey slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint and chalk (KIMMERIDGE CLAY).		KIM	
						2.72	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
25-08-06		2.70			2.50						
25-08-06		5.00	20		4.75						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF/RLC		

# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC021</b>	
Job No <b>12170626</b>	Date <b>24-08-06</b> <b>24-08-06</b>	Ground Level (m AOD) <b>9.856</b>	Co-Ordinates (OS) <b>E 540801.931 N 266055.211</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.20	JJJJV					9.46	0.40	MADE GROUND: Grass over brown slightly gravelly clay topsoil. Gravel is fine angular to subangular flint.		MG	
						8.76	(0.70) 1.10	MADE GROUND: Brown orange gravelly clay. Gravel is fine to coarse angular to subangular flint and chalk.		MG	
2.00	JJJJV				↓	6.36	(2.40) 3.50	Light buff brown slightly gravelly CLAY with frequent thinly bedded brown orange sand lenses. Gravel is fine to medium angular flint and chalk (TERRACE DEPOSITS).		TD	
					↓	4.66	(1.70) 5.20	Orange brown medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subangular flint. Becoming gravelly sand from 4.5m (TERRACE DEPOSITS).		TD	
						2.86	(1.80) 7.00	Stiff grey slightly gravelly CLAY. Gravel is fine angular chalk (KIMMERIDGE CLAY).		KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Groundwater encountered at 3.5m - fast.
Date	Time	Strike	Minutes	Standing	Casing						
24-08-06		3.50	20	2.07	3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC022</b>	
Job No <b>12170626</b>	Date <b>14-09-06</b> <b>14-09-06</b>	Ground Level (m AOD) <b>10.100</b>	Co-Ordinates (OS) <b>E 540799.390 N 266031.349</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA				Legend	Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			
						9.80	0.30	MADE GROUND: Grass over topsoil.		MG	
						9.60	0.50	MADE GROUND: Dark brown slightly gravelly clay. Gravel is fine to medium angular to subangular flint and tarmac.		MG	
							(0.70)	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						8.90	1.20				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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# BOREHOLE LOG

Project <b>Northstowe</b>				BOREHOLE No <b>WWC022A</b>	
Job No <b>12170626</b>	Date 14-09-06 14-09-06	Ground Level (m AOD) <b>10.147</b>	Co-Ordinates (OS) <b>E 540793.390 N 266031.349</b>		
Supervising Engineer <b>JMC / LF / CW / RLC</b>			Client <b>Gallagher Estates &amp; English Partnerships</b>		Sheet <b>1 of 1</b>

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-0.80	JJJV					9.65	(0.50) 0.50	Grass over brown very gravelly fine to coarse SAND. Gravel is fine to medium angular to subrounded quartzite and flint (TERRACE DEPOSITS).		TD	
						9.35	0.80	Brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint and quartzite (TERRACE DEPOSITS). Firm orange mottled light grey very sandy SILT and CLAY. Sand is fine (TERRACE DEPOSITS).		TD	
2.60-3.00	JJVV						(2.50)			TD	
						6.85	3.30			TD	
4.60-4.90	JJV					6.35	(0.50) 3.80	Firm grey sandy slightly gravelly SILT and CLAY with rare white shell fragments. Gravel is fine angular to subrounded and flint (TERRACE DEPOSITS).		TD	
						5.65	(0.70) 4.50	Brown GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
6.60-7.00	JJV					5.25	4.90	Brown very gravelly medium to coarse SAND. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS). Very stiff to hard dark grey CLAY (KIMMERIDGE CLAY).		TD	
							(2.10)			KIM	
						3.15	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
14-09-06		2.60			2.00						
14-09-06		3.80	20	2.72	3.50						

Slight groundwater seepage from 2.6m.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used	Logged By <b>LF</b>
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