

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 26/02/20 Date Completed 27/02/20	Ground Level (mOD) 8.72	Co-Ordinates E 534384.49 N 189530.34	Final Depth 6.00m
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Client

Gardiner and Theobald LLP

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 6.00	IP CP	26/02/2020 27/02/2020	26/02/2020 27/02/2020	DP DP	MW MW			Hand Excavated Dando 175	AR1607

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					2.40	4.00				

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Blows	Recovery (%)
0.00 6.00	150 150	0.00 5.50	150 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	5.50	1.80	5.50	27/02/2020

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00 0.30 1.80 5.50	0.30 1.80 5.50 6.00	Concrete / Flush Cover Bentonite Pellets Pea Shingle Bentonite Pellets	27/02/2020

Project

Ferry Island (B) Tottenham Hale

Job No
19/3372

Date Started 26/02/20
Date Completed 27/02/20

Ground Level (mOD)
8.72

Co-Ordinates
E 534384.49 N 189530.34

Final Depth
6.00m

Client

Gardiner and Theobald LLP

PROGRESS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
26/02/20	0.00		Dry	
26/02/20	1.20		Dry	
27/02/20	1.20		Dry	
27/02/20	2.40		Wet	... Water Added
27/02/20	3.00	3.00	2.00	
27/02/20	4.50	4.50	2.00	
27/02/20	5.50	5.50	Dry	
27/02/20	6.00	5.50	Dry	

SPT DETAILS

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
C	3.00	N24	3, 3 / 4, 5, 6, 9	3.00	2.00
C	4.50	N27	2, 5 / 5, 7, 7, 8	4.50	2.00
S	5.50	N15	2, 2 / 3, 4, 4, 4	5.50	Dry

GENERAL REMARKS

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar)
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB-Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

SPIE - Standpipe Piezometer
SPGW - Groundwater Monitor Standpipe
SPG/GW - Gas / Groundwater Monitor Standpipe
VWP - Vibrating Wire Piezometer
ICM - Inclinator

HOLE TYPES

JP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, RS-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC - Diamond Coring, CPR-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue No: 01

Checked By: OS

Approved By: OS

Log Print Date & Time: 26/03/2020 13:10

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 26/02/20	Ground Level (mOD) 8.72	Co-Ordinates E 534384.49 N 189530.34	Final Depth 6.00m
Date Completed 27/02/20				
Client Gardiner and Theobald LLP	Method/ Plant Used Cable Percussion			Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
26/02/20		Dry	8.62		0.10	Asphalt. (MADE GROUND)					
			8.42		0.30	Light grey and brown GRAVEL. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30	ES1		VOC 0ppm	
			8.32		0.40						
					(0.60)	Dark brown gravelly fine SAND. Gravel comprises angular to subrounded fine to coarse brick and concrete fragments. (MADE GROUND)	0.60	ES2		VOC 0ppm	
			7.72		1.00						
26/02/20		Dry	7.52		1.20	Brown sandy GRAVEL and COBBLES. Gravel and cobbles are angular to subrounded fine to coarse flint, brick and concrete fragments. Sand is fine. (MADE GROUND)	1.20	ES3		VOC 0ppm	
27/02/20		Dry					1.20	D4			
						Light brown slightly sandy SILT. Sand is fine to coarse. (ENFIELD SILT MEMBER)	1.50	ES5		VOC 0ppm	
					(1.20)	Soft, orangish brown slightly sandy gravelly silty CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to medium. (ENFIELD SILT MEMBER)	2.00	ES6		VOC 0ppm	
							2.00	D7			
27/02/20		Wet	6.32		2.40		2.40	D8		VOC 0ppm	
						Medium dense, light brown sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	2.50	ES9		VOC 0ppm	
27/02/20	3.00	2.00					3.00	ES10		VOC 0ppm	
							3.00-3.50	B11	N24	3, 3 / 4, 5, 6, 9	
							3.00				
							3.50	ES12		VOC 0ppm	
					(2.60)						
							4.00	ES13		VOC 0ppm	
							4.00	D14			
27/02/20	4.50	2.00					4.50	ES15		VOC 0ppm	
							4.50-5.00	B16	N27	2, 5 / 5, 7, 7, 8	
							4.50				
							4.90-5.00	ES17		VOC 0ppm	
							5.00	D18			
27/02/20	5.50	Dry				4.90 ... becoming clayey					
						Firm, brown sandy silty CLAY. Sand is fine. (THAMES GROUP: LONDON CLAY FORMATION)	5.50				
					(1.00)		5.50-5.95	D19	N15	2, 2 / 3, 4, 4, 4	
27/02/20	5.50	Dry	2.72		6.00		6.00	ES20		VOC 0ppm	
						End of Borehole	6.00	D21			

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 26/02/20 Date Completed 26/02/20	Ground Level (mOD) 8.33	Co-Ordinates E 534361.78 N 189486.41	Final Depth 1.10m
Client Gardiner and Theobald LLP			Method/ Plant Used Hand Excavated	Sheet 1 of 1

STRATA					SAMPLES & TESTS			Field Records
Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	
	8.23		(0.10) 0.10	Asphalt (MADE GROUND)				
	8.13		(0.10) 0.20	Light grey sandy angular fine to coarse flint GRAVEL. Sand is fine to coarse. (MADE GROUND - Type 1)				
	8.03		(0.10) 0.30	Brown gravelly sandy CLAY. Gravel comprises angular to subrounded fine to coarse brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	0.30	ES1		VOC 0ppm
			(0.80)	Light brown slightly clayey gravelly fine SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.60	ES2		VOC 0ppm
	7.23		1.10	1.00 ... with wire mesh	1.10			... Location aborted at 1.10m depth (see Remarks)
				End of Trial Pit				

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole boring commencing.
2. Pit was dry and stable.
3. Pit aborted at 1.10m depth due to presence of steel tank. Location moved to position EBH105A.

Project

Ferry Island (B) Tottenham Hale

Job No
19/3372

Date Started 26/02/20
Date Completed 26/02/20

Ground Level (mOD)
8.35

Co-Ordinates
E 534358.18 N 189486.36

Final Depth
0.45m

Client

Gardiner and Theobald LLP

**Method/
Plant Used** Hand Excavated

Sheet
1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	8.25		(0.10) 0.10	Asphalt (MADE GROUND)				
	8.15		(0.10) 0.20	Brown slightly clayey gravelly fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)				
	7.90		(0.25) 0.45	Grey CONCRETE, clasts are rounded to subrounded fine to medium flint.	0.45			
				End of Trial Pit				... Location aborted at 0.45m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole boring commencing.
2. Pit was dry and stable.
3. Pit aborted at 0.45m depth due to presence of concrete obstruction. Location moved to position EBH105B.

Issue No: 01

Drilled By: DP

Logged By: CS

Checked By: OS

Approved By: OS

Log Print Date & Time:

26/03/2020 13:01

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 27/02/20 Date Completed 28/02/20	Ground Level (mOD) 8.34	Co-Ordinates E 534360.08 N 189487.39	Final Depth 6.20m
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Client

Gardiner and Theobald LLP

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 6.20	IP CP	27/02/2020 28/02/2020	27/02/2020 28/02/2020	DP DP	MW MW			Hand Excavated Dando 175	AR1607

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					2.00	4.00				

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Blows	Recovery (%)
0.00 6.20	150 150	0.00 5.50	150 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	3.00	1.00	3.00	28/02/2020

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00 0.30 1.00 3.00	0.30 1.00 3.00 6.20	Concrete / Flush Cover Bentonite Pellets Pea Shingle Bentonite Pellets	28/02/2020

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 27/02/20 Date Completed 28/02/20	Ground Level (mOD) 8.34	Co-Ordinates E 534360.08 N 189487.39	Final Depth 6.20m
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Client

Gardiner and Theobald LLP

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
27/02/20	0.00		Dry		C	4.50	N17	2, 2 / 3, 4, 4, 6	4.50	2.00
27/02/20	1.20		Dry		S	5.50	N11	2, 2 / 2, 3, 3, 3	5.50	Dry
28/02/20	1.20		Dry							
28/02/20	2.00		Wet	... Water Added						
28/02/20	4.50	4.50	2.00							
28/02/20	5.50	5.50	Dry							
28/02/20	6.20	5.50	Dry							

GENERAL REMARKS

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar)
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB-Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

SPIE - Standpipe Piezometer
SPGW - Groundwater Monitor Standpipe
SPG/GW - Gas / Groundwater Monitor Standpipe
VWP - Vibrating Wire Piezometer
ICM - Inclinator

HOLE TYPES

JP - Inspection Pit, TP-Trial Pit TT - Trial Trench
CP - Cable Percussion, RC-Rotary Coring, RS-Rotary/Sonic
DS - Dynamic Sampling, DS/R-Dynamic Sampling / Rotary
DC - Diamond Coring, CPR-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue No: 01

Checked By: OS

Approved By: OS

Log Print Date & Time: 26/03/2020 13:12

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 27/02/20 Date Completed 28/02/20	Ground Level (mOD) 8.34	Co-Ordinates E 534360.08 N 189487.39	Final Depth 6.20m
Client Gardiner and Theobald LLP	Method/ Plant Used Cable Percussion	Sheet 1 of 1		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
27/02/20		Dry	8.24		0.10	Asphalt. (MADE GROUND)					
			8.04		0.30	Grey slightly sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (MADE GROUND - Type 1)	0.30	ES1		VOC 0ppm	
					(0.65)	Dark brown gravelly sandy CLAY. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete, glass and ceramic fragments. Sand is fine to coarse. (MADE GROUND)	0.60	ES2		VOC 0ppm	
27/02/20		Dry	7.39		0.95	Brick and concrete COBBLES in a slightly clayey sandy matrix. (MADE GROUND)	1.20	ES3		VOC 0ppm	
28/02/20		Dry	7.09		1.25	Dark brown gravelly sandy CLAY with medium concrete cobble content. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete, glass, ceramic and shell fragments. Sand is fine to coarse. (MADE GROUND)	1.20	D4			
					(1.25)	1.50 - 2.50 ... pushing down obstruction	1.50	ES5		VOC 0ppm	
		Wet					2.00	D6			
			5.84		2.50	Dark grey slightly sandy GRAVEL. Gravel comprises angular to subrounded fine to medium flint, brick, concrete, glass, plastic and wire fragments. Sand is fine to coarse. (MADE GROUND)	2.15	D7			
					(1.10)		2.50	ES8		VOC 0ppm	
							3.00	D10		VOC 0ppm	
							3.00	ES9			
			4.74		3.60		3.50	ES11		VOC 0ppm	
			4.64		3.70	CONCRETE. (MADE GROUND)	3.70	D12			
						Light brown sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	4.00-4.20	ES13		VOC 0ppm	
28/02/20	4.50	2.00			(1.50)		4.50		N17	2, 2 / 3, 4, 4, 6	
							4.50-5.00	B14			
							5.00-5.20	ES15		VOC 0ppm	
			3.14		5.20		5.20	D16			
28/02/20	5.50	Dry			(1.00)	Brown slightly silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	5.50		N11	2, 2 / 2, 3, 3, 3	
							5.50-5.95	D17			
28/02/20	5.50	Dry	2.14		6.20		6.20	ES18		VOC 0ppm	
						End of Borehole	6.20	D19			

Project

Ferry Island (B) Tottenham Hale

Job No
19/3372

Date Started 27/02/20
Date Completed 27/02/20

Ground Level (mOD)
8.75

Co-Ordinates
E 534382.23 N 189507.93

Final Depth
6.50m

Client

Gardiner and Theobald LLP

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 6.50	IP CP	27/02/2020 27/02/2020	27/02/2020 27/02/2020	DP DP	MW MW			Hand Excavated Dando 175	

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					2.50	4.00				

HOLE

CASING

ROTARY RECOVERY

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Blows	Recovery (%)
0.00 6.50	150 150	0.00 6.00	150 150				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	6.00	2.00	6.00	27/02/2020

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00 0.30 2.00 6.00	0.30 2.00 6.00 6.50	Concrete / Flush Cover Bentonite Pellets Pea Shingle Bentonite Pellets	27/02/2020

From (m)	To (m)	Blows	Recovery (%)

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 27/02/20	Ground Level (mOD) 8.75	Co-Ordinates E 534382.23 N 189507.93	Final Depth 6.50m
Date Completed 27/02/20				

Client

Gardiner and Theobald LLP

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
27/02/20	0.00		Dry		C	3.00	N22	3, 5 / 4, 5, 6, 7	3.00	2.00
27/02/20	1.20		Dry		C	4.50	N32	3, 4 / 6, 8, 9, 9	4.50	2.50
27/02/20	2.50		Wet	... Water Added	S	6.00	N13	2, 2 / 3, 3, 3, 4	6.00	Dry
27/02/20	3.00	3.00	2.00							
27/02/20	4.50	4.50	2.50							
27/02/20	6.00	6.00	Dry							
27/02/20	6.50	6.00	Dry							
GENERAL REMARKS										
KEY SAMPLES ES - Environmental Sample (Tub, Vial, Jar) U - 100mm Diameter Undisturbed Sample UT - 100mm Diameter Thin Wall Undisturbed Sample U38 - 38mm Diameter Undisturbed Sample D - Disturbed Sample, B-Bulk Sample, LB-Large Bulk Sample, BLK-Block Sample C - Core Sample, W-Water Sample, R-Root Sample INSTALLATION DETAILS SPIE - Standpipe Piezometer SPGW - Groundwater Monitor Standpipe SPG/GW - Gas / Groundwater Monitor Standpipe VWP - Vibrating Wire Piezometer ICM - Inclinator TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key										

Project

Ferry Island (B) Tottenham Hale

Job No 19/3372	Date Started 27/02/20	Ground Level (mOD) 8.75	Co-Ordinates E 534382.23 N 189507.93	Final Depth 6.50m
Date Completed 27/02/20				
Client Gardiner and Theobald LLP	Method/ Plant Used Cable Percussion	Sheet 1 of 1		

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
27/02/20		Dry	8.65		0.10	Asphalt. (MADE GROUND)					
			8.45		0.30	Light grey slightly sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (MADE GROUND - Type 1)	0.30	ES1		VOC 0ppm	
					(0.50)		0.60	ES2		VOC 0ppm	
			7.95		0.80	Dark brown gravelly silty clayey fine to coarse SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)					
27/02/20		Dry			(1.70)	Soft to firm, orangish brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (ENFIELD SILT MEMBER ?)	1.20 1.20 1.50	ES3 D4 ES5		VOC 0ppm VOC 0ppm	
27/02/20		Wet	6.25		2.50		2.50 2.50	ES8 D9		VOC 0ppm	
27/02/20	3.00	2.00			(3.00)	Medium dense, light brown sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	3.00 3.00-3.50 3.00	ES10 B11	N22	VOC 0ppm 3, 5 / 4, 5, 6, 7	
							3.50	ES12		VOC 0ppm	
							4.00 4.00	ES13 D14		VOC 0ppm	
27/02/20	4.50	2.50				4.50 ... becoming dense with rare clay nodules	4.50 4.50-5.00 4.50	ES15 B16	N32	VOC 0ppm 3, 4 / 6, 8, 9, 9	
							5.00	ES17		VOC 0ppm	
			3.25		5.50		5.50 5.50	ES18 D19		VOC 0ppm	
27/02/20	6.00	Dry			(1.00)	Firm, greyish brown silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	6.00 6.00-6.45	D20	N13	2, 2 / 3, 3, 3, 4	
27/02/20	6.00	Dry	2.25		6.50		6.50 6.50	ES21 D22		VOC 0ppm	
						End of Borehole					