

APPENDIX B

Fieldwork Records

(this appendix contains 29 pages, including this one, and one CD)

BOREHOLE RECORD (Percussive)

**Borehole
Number:
BH1**

Site:
Fitzroy Farm

Location:
Fitzroy Park, London

Client:
GCL Associates

Ground Level:
83.19mAOD

Date:
21 Apr 10

Job No:
241529

GROUND WATER

SAMPLES/TESTS

STRATA RECORD

Sheet 1 of 2

Strike	Well	Depth (m)	Depth/Type (m)	SPT 'N' or U Blows	Depth (m)	Level (mAOD)	Key	Description
							0.50	MADE GROUND: Brown silty gravelly sand with brick and concrete cobbles. Gravel of fine to coarse flint, brick concrete and metal fragments.
							0.20	MADE GROUND: Sandy gravel of limestone fill.
								Firm becoming stiff fissured brown mottled grey-green silty CLAY. Selenite crystals (coarse sand size crystals up to crystals 2cm long) and powdery iron oxide and carbonate precipitate locally present. Sporadic widely spaced thin laminae of fine sand with yellow and orange iron oxide staining. (WEATHERED LONDON CLAY FORMATION).
							5.10	
								Stiff fissured dark-brownish grey silty CLAY, locally slightly sandy, and with occasional thin laminae of fine sand and rare shell fragments. (LONDON CLAY FORMATION).
							7.65	

Continued next sheet

Remarks and Water Observations

Remarks and Water Observations
Borehole cased with 150mm casing to 1.5m. No perched water encountered. Groundwater seepage encountered at 13.3m bgl in London Clay. Borehole left open overnight at 20m; overnight water level at 16.2m bgl in borehole. Piezometer installed with response zone between 13m and 14m bgl.

Scale: 1:50

Logged by: CG

Figure: B

RSK

GROUP PLC

STATS**BOREHOLE RECORD
(Percussive)****Borehole
Number:
BH1****Site:**
Fitzroy Farm**Location:**
Fitzroy Park, London**Client:**
GCL Associates**Ground Level:**
83.19mAOD**Date:**
21 Apr 10**Job No:**
241529**GROUND WATER****SAMPLES/TESTS****STRATA RECORD**

Sheet 2 of 2

Strike	Well	Depth (m)	Depth/Type (m)	SPT 'N' or U Blows	Depth (m)	Level (mAOD)	Key	Description
			10.00-10.45 U 19	U100				
			10.45 D 20					
		11						
			11.50-11.85 SPTLS21	S				
			11.50-12.00 B 22	N=29 (6,0)(6,7,8,8)				
		12						
			13.00-13.45 U 23	U100				
			13.45 D 24		13.45	69.74		
			13.50-14.00 B 25					...groundwater seepage
		14						Stiff fissured dark-brownish grey CLAY, locally silty and with rare pyrite nodules. (LONDON CLAY FORMATION).
			14.50-14.85 SPTLS26	S				
			14.50-15.00 B 27	N=29 (7,0)(6,7,7,9)				
		15						
			16.00-16.45 U 28	U100				
			16.45 D 29			6.25		
		16						
			17.50-17.85 SPTLS30	S				
			17.50-18.00 B 31	N=38 (10,0)(9,9,8,11)				
		17						
			18.50 D 32					
		18						
			19.50-19.95 U 33	U100				
		19			19.70	63.49		
						0.30		
								Continued next sheet

Remarks and Water Observations

Borehole cased with 150mm casing to 1.5m. No perched water encountered. Groundwater seepage encountered at 13.3m bgl in London Clay. Borehole left open overnight at 20m; overnight water level at 16.2m bgl in borehole. Piezometer installed with response zone between 13m and 14m bgl.

Scale: 1:50**Logged by:** CG**Figure:** B

RSK

GROUP PLC

STATS**BOREHOLE RECORD
(Percussive)****Borehole
Number:
BH1****Site:**
Fitzroy Farm**Location:**
Fitzroy Park, London**Client:**
GCL Associates**Ground Level:**
83.19mAOD**Date:**
21 Apr 10**Job No:**
241529**GROUND WATER****SAMPLES/TESTS****STRATA RECORD**

Sheet 2+ of 2

Strike	Well	Depth (m)	Depth/Type (m)	SPT 'N' or U Blows	Depth (m)	Level (mAOD)	Key	Description
					20.00	63.19		<i>Claystone' band (carbonate concretion). (LONDON CLAY FORMATION). End of Borehole at 20.00 m</i>
		21						
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						

Remarks and Water Observations

Borehole cased with 150mm casing to 1.5m. No perched water encountered. Groundwater seepage encountered at 13.3m bgl in London Clay. Borehole left open overnight at 20m; overnight water level at 16.2m bgl in borehole. Piezometer installed with response zone between 13m and 14m bgl.

Scale: 1:50**Logged by:** CG**Figure:** B

BOREHOLE RECORD (Percussive)

**Borehole
Number:
BH2**

Site:
Fitzroy Farm

Location:
Fitzroy Park, London

Client:
GCL Associates

Ground Level:
83.64mAOD

Date:
20 Apr 10

Job No:
241529

GROUND WATER

SAMPLES/TESTS

STRATA RECORD

Sheet 1 of 2

Strike	Well	Depth (m)	Depth/Type (m)	SPT 'N' or U Blows	Depth (m)	Level (mAOD)	Key	Description
					0.10	83.54	0.10	CONCRETE
		0.50	D 1					Firm becoming stiff fissured brown mottled grey-green silty CLAY. Selenite crystals (coarse sand size crystals up to crystals 2cm long) and powdery iron oxide and carbonate precipitate locally present. Sporadic widely spaced thin laminae of fine sand with yellow and orange iron oxide staining. (WEATHERED LONDON CLAY FORMATION).
		1.00-2.00	B 2					
		1.50-1.95	U 3	U60				
		1.95	D 4					
		2.00-3.00	B 5					
		2.50-2.95	SPTLS6	S				
				N=18 [4,0](3,4,5,6)			5.80	
		3.50-3.95	U 7	U60				
		3.95	D 8					
		4.50-5.00	B 10	S				
		4.50-4.95	SPTLS9	N=20 [3,0](4,4,5,7)				...becoming slightly sandy
		5.50-5.95	U 11	U90				
		5.95	D 12		5.90	77.74		Stiff fissured dark-brownish grey silty CLAY, locally slightly sandy, and with occasional thin laminae of fine sand and rare shell fragments. (LONDON CLAY FORMATION).
		6.40-6.90	B 13					
		7.00-7.45	SPTLS14	S				
		7.00-7.50	B 15	N=29 [9,0](6,7,8,8)				
		8.50-8.95	U 16	U100				
		8.95	D 17				7.10	

Continued next sheet

Remarks and Water Observations

Remarks and Water Observations
Borehole cased with 150mm casing to 1.5m. No perched water encountered. Borehole dry on completion. Borehole left open overnight at 15m; borehole dry. Piezometer installed with response zone between 4.5m and 5.5m bgl.

Scale: 1:50

Logged by: CG

Figure: B

RSK

GROUP PLC

STATS**BOREHOLE RECORD
(Percussive)****Borehole
Number:****BH2****Site:**
Fitzroy Farm**Location:**
Fitzroy Park, London**Client:**
GCL Associates**Ground Level:**
83.64mAOD**Date:**
20 Apr 10**Job No:**
241529**GROUND WATER****SAMPLES/TESTS****STRATA RECORD**

Sheet 2 of 2

Strike	Well	Depth (m)	Depth/Type (m)	SPT 'N' or U Blows	Depth (m)	Level (mAOD)	Key	Description
			10.00-10.50 SPTLS18 S 10.00-10.50 B 19	N=29 (10,0)(6,7,8,8)				
		11	11.50-11.95 U 20	U100				
		12	11.95 D 21					
		13	13.00-13.50 SPTLS22 S 13.00-13.50 B 23	N=33 (13,0)(7,7,8,10)	13.00	70.64		Stiff fissured dark-brownish grey CLAY, locally silty. (LONDON CLAY FORMATION).
		14	14.50-14.95 U 24	U100		2.00		
		15	15.00 D 25		15.00	68.64		End of Borehole at 15.00 m
		16						
		17						
		18						
		19						

Remarks and Water Observations

Borehole cased with 150mm casing to 1.5m. No perched water encountered. Borehole dry on completion.
Borehole left open overnight at 15m; borehole dry. Piezometer installed with response zone between
4.5m and 5.5m bgl.

Scale: 1:50**Logged by:** CG**Figure:** B

BOREHOLE RECORD (Percussive)

**Borehole
Number:
BH3**

Site:
Fitzroy Farm

Location:
Fitzroy Park, London

Client:
GCL Associates

Ground Level:
82.64mAOD

Date:
22 Apr 10

Job No:
241529

GROUND WATER

SAMPLES/TESTS

STRATA RECORD

Sheet 1 of 1

Strike	Well	Depth (m)	Depth/Type (m)	SPT 'N' or U Blows	Depth (m)	Level (mAOD)	Key	Description
			0.40 D 1		0.50	82.14	0.50	MADE GROUND: Brown silty gravelly sand with brick and concrete cobbles. Gravel of fine to coarse flint, brick concrete and metal fragments.
			0.70 D 2					
			1.40 D 3					
			1.50-1.95 U 4	U60				
			1.95 D 5					Firm becoming stiff fissured brown mottled greyey-green silty CLAY. Selenite crystals (coarse sand size crystals up to crystals 2cm long) and powdery iron oxide and carbonate precipitate locally present. Sporadic widely spaced thin laminae of fine sand with yellow and orange iron oxide staining. (WEATHERED LONDON CLAY FORMATION).
			2.50-2.95 SPTLS6					
			2.50-3.00 B 7					
				N=11 (2,0)(2,2,3,4)				
			3.50-3.95 U 8	U65				
			3.95 D 9					
			4.50-4.95 SPTLS10					
			4.50-5.00 B 11					
				N=14 (4,0)(3,3,4,4)				
			5.50-5.95 U 12	U90				
			5.95 D 13					
			7.00-7.45 SPTLS14					
			7.00-7.50 B 15					
				N=26 (8,0)(4,5,7,10)				
			8.00 D 16					
			8.50-8.95 U 17	U100				
			8.95 D 18					
			9.50-9.95 SPTLS19					
			9.50-10.00 B 20					
				N=33 (10,0)(7,8,8,10)				

Remarks and Water Observations

Remarks and Water Observations
Borehole cased with 150mm casing to 1.5m. No perched water encountered. Borehole dry on completion. Piezometer installed with response zone between 7m and 8m bgl.

End of Borehole at 10.00 m

Scale: 1:50

Logged by: CG

Figure: B

BOREHOLE RECORD (Window Sampler)

**Borehole
Number:**

Site:
Fitzroy Farm

Location:
Fitzroy Park, London

WS1

Client:

GCL Associates

Ground Level:

84.39mAOD

Dates:

21 Apr 10

Job No.:

241529

GROUND WATER

SAMPLES/TESTS

STRATA RECORD

Sheet 1 of 1

Strike	Well	Depth (m)	Type/Depth (m)	In-situ Tests	Depth (m)	Level (mAOD)	Key	Description
					0.60	83.79	0.60	MADE GROUND: Friable brown very silty /clayey slightly gravelly sand of reworked clay with roots and fragments of brick and flint.
	1	D1	0.80	HV@ 0.90=110				Stiff fissured brown mottled grey-green and orange silty CLAY with roots. Selenite crystals (sand sized aggregates up to large single crystals), occasional carbonate nodules and iron oxide precipitates present sporadically throughout. (WEATHERED LONDON CLAY FORMATION).
	2	D2	1.50	HV@ 1.50=130				
	3	D3	2.00	HV@ 2.00=130				
	4	D4	3.00					...brown silty clay with no roots, mottling or iron oxides

Remarks and Water Observations

Borehole dry during drilling; no perched water or groundwater seepages or strikes. Hole dry on completion. Hole backfilled.

End of Borehole at 5.00 m

Scale: 1:25

Key for Insitu tests

HV-Hand Vane (kN/m2)

PP-Pocket Penotometer (kN/m2)

MP-Mackintosh Probe (N150)

Logged by: CG

Figure: B

BOREHOLE RECORD (Window Sampler)

Borehole
Number:

WS2

Site:
Fitzroy Farm

Location:
Fitzroy Park, London

Client:
GCL Associates

Ground Level:
84.16mAOD

Dates:
21 Apr 10

Job No.:
241529

GROUND WATER

SAMPLES/TESTS

STRATA RECORD

Sheet 1 of 1

Strike	Well	Depth (m)	Type/Depth (m)	In-situ Tests	Depth (m)	Level (mAOD)	Key	Description
					0.15	84.01	0.15	TOPSOIL: Dark-brown slightly sandy slightly gravelly clay with roots.
					0.60	83.56	0.45	MADE GROUND: Dark-brown reworked sandy slightly gravelly clay with roots and fragments of flint, brick, tile and brick cobbles.
			D1	0.70				Firm, becoming stiff, fissured brown mottled grey-green and orange silty CLAY with roots. Selenite crystals (sand sized aggregates up to large single crystals), occasional carbonate nodules and iron oxide precipitates present sporadically throughout. (WEATHERED LONDON CLAY FORMATION).
				HV@ 1.00=58				
			D2	1.50				
				HV@ 1.50=87				
				HV@ 2.00=112				
			D3	2.50				
			D4	3.50				
								...brown silty clay with no roots or mottling

Remarks and Water Observations

Perched water seepage at 0.6m. Inspection pit to 1.2m left open overnight; water accumulated in hole overnight. Borehole cased to 2m during drilling. No water strikes or seepages encountered within weathered London Clay during drilling. Monitoring standpin

End of Borehole at 5.00 m

Scale: 1:25

Key for Insitu tests

HV-Hand Vane (kN/m²)
PP-Pocket Penotometer (kN/m²)
MP-Mackintosh Probe (N150)

Logged by: CG

Figure: B

RSK

GROUP PLC

STATS**BOREHOLE RECORD
(Window Sampler)****Borehole
Number:****Site:**
Fitzroy Farm**Location:**
Fitzroy Park, London**WS3****Client:**
GCL Associates**Ground Level:**
83.90mAOD**Dates:**
20 Apr 10**Job No.:**
241529**GROUND WATER****SAMPLES/TESTS****STRATA RECORD**

Sheet 1 of 1

Strike	Well	Depth (m)	Type/Depth (m)	In-situ Tests	Depth (m)	Level (mAOD)	Key	Description
					0.20	83.70	0.20	TOPSOIL: Dark-brown very sandy slightly gravelly clay with roots and fragments of flint and brick.
					0.90	83.00	0.70	MADE GROUND: Orange-brown very clayey gravelly sand of reworked clay with fragments of flint, concrete and brick with occasional brick cobbles.
	1	D1	1.00	HV@ 1.10=70				Firm, becoming stiff, fissured brown mottled grey-green and orange silty, locally slightly sandy, CLAY with roots. Selenite crystals (sand sized aggregates up to large single crystals), occasional carbonate nodules and iron oxide precipitates present sporadically throughout. (WEATHERED LONDON CLAY FORMATION).
	2	D2	2.00	HV@ 2.00=104				
	3	D3	3.00	HV@ 3.00=105				
	4	D4	4.00					

Remarks and Water Observations

No perched water seepage or groundwater strikes
encountered during the site works. Hole dry on completion.
Monitoring standpipe installed.

End of Borehole at 5.00 m

Scale: 1:25**Key for Insitu tests**HV-Hand Vane (kN/m²)PP-Pocket Penetrometer (kN/m²)

MP-Mackintosh Probe (N150)

Logged by: CG**Figure:** B

**BOREHOLE RECORD
(Window Sampler)**
**Borehole
Number:**

WS4
Site:
 Fitzroy Farm

Location:
 Fitzroy Park, London

Client:
 GCL Associates

Ground Level:
 82.26mAOD

Dates:
 20 Apr 10

Job No.:
 241529

GROUND WATER
SAMPLES/TESTS
STRATA RECORD

Sheet 1 of 1

Strike	Well	Depth (m)	Type/Depth (m)	In-situ Tests	Depth (m)	Level (mAOD)	Key	Description
					0.20	82.06	0.20	MADE GROUND: Dark-brown clayey gravelly sand with fragments of flint and brick.
					0.50	81.76	0.30	MADE GROUND: Concrete cobbles in a brown sandy clay matrix.
					0.90	81.36	0.40	MADE GROUND: Orangey-brown gravelly sandy reworked clay with fragments of flint, brick and clinker.
	1			HV@ 1.10=60				Firm, becoming stiff, fissured brown mottled grey-green and orange silty CLAY with roots. Selenite crystals (sand sized aggregates up to large single crystals), occasional carbonate nodules and iron oxide precipitates present sporadically throughout. (WEATHERED LONDON CLAY FORMATION).
	2			HV@ 1.80=48				
				HV@ 2.50=85				
	3							
	4				4.00	78.26	3.10	End of Borehole at 4.00 m

Remarks and Water Observations

No perched water seepage or groundwater strikes encountered during the site works. Hole dry on completion. Hole left open for 3 days and remained dry. Hole backfilled.

Scale: 1:25

Key for Insitu tests
 HV-Hand Vane (kN/m2)
 PP-Pocket Penetrometer (kN/m2)
 MP-Mackintosh Probe (N150)

Logged by: CG

Figure: B

RSK

GROUP PLC

STATS**BOREHOLE RECORD
(Window Sampler)****Borehole
Number:****Site:**
Fitzroy Farm**Location:**
Fitzroy Park, London**WS5****Client:**
GCL Associates**Ground Level:**
82.71mAOD**Dates:**
22 Apr 10**Job No.:**
241529**GROUND WATER****SAMPLES/TESTS****STRATA RECORD**

Sheet 1 of 1

Strike	Well	Depth (m)	Type/Depth (m)	In-situ Tests	Depth (m)	Level (mAOD)	Key	Description
					0.35	82.36	0.35	MADE GROUND: Brown very silty / clayey gravelly sand and clay with roots and brick and concrete cobbles. Gravel of fine to coarse flint, brick and concrete with occasional glass and clinker fragments. Black geotextile at base.
				HV@ 0.60=63				
	1		D1	1.00				Firm, becoming stiff, fissured brown mottled grey-green silty CLAY with roots. Selenite crystals (sand sized aggregates up to large single crystals), occasional carbonate nodules and iron oxide precipitates present sporadically throughout. (WEATHERED LONDON CLAY FORMATION).
				HV@ 1.20=85				
	2		D2	2.00				
				HV@ 2.00=118				
	3							
				HV@ 3.00=120				
			D3	3.50				
	4							...brown silty clay with no roots or mottling
								...thin laminae of oxidized fine sand at 4.6m

Remarks and Water Observations

Perched water seepage at 0.35m. Inspection pit left open and small amount of perched water accumulated in hole. Borehole cased to 1m during drilling. No water strikes or seepages encountered within weathered London Clay. Borehole dry on completion. Hole backfilled.

End of Borehole at 5.00 m

Scale: 1:25**Key for Insitu tests**

HV-Hand Vane (kN/m²)
PP-Pocket Penetrometer (kN/m²)
MP-Mackintosh Probe (N150)

Logged by: CG**Figure:** B

RSK

GROUP PLC

STATS**BOREHOLE RECORD
(Window Sampler)****Borehole
Number:****WS6****Site:**
Fitzroy Farm**Location:**
Fitzroy Park, London**Client:**
GCL Associates**Ground Level:**
83.39mAOD**Dates:**
23 Apr 10**Job No.:**
241529**GROUND WATER****SAMPLES/TESTS****STRATA RECORD**

Sheet 1 of 1

Strike	Well	Depth (m)	Type/Depth (m)	In-situ Tests	Depth (m)	Level (mAOD)	Key	Description
					0.30	83.09	0.30	TOPSOIL: Dark-brown friable sandy slightly gravelly clay / silt with roots and fragments of flint and brick.
								Stiff fissured brown mottled grey-green silty CLAY with roots. Selenite crystals (sand sized aggregates up to large single crystals), occasional carbonate nodules and iron oxide precipitates present sporadically throughout. (WEATHERED LONDON CLAY FORMATION).
		1						
		2						
		3						
		4						

Remarks and Water Observations

No perched water seepage or groundwater strikes encountered during the site works. Hole dry on completion. Hole backfilled.

End of Borehole at 5.00 m

Scale: 1:25**Key for Insitu tests**

HV-Hand Vane (kN/m²)
PP-Pocket Penetrometer (kN/m²)
MP-Mackintosh Probe (N150)

Logged by: CG**Figure:** B