



WSP
150-182 The Quays
M50 3SP
Telephone: 0161 886 2400
Fax:

TRIAL PIT LOG

Hole No.
TP162

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
31-07-14
31-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389450.580 N 382393.570	Ground Level (m AOD) 87.430
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm/m2)	P Pen (kNm/m2)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	3						MADE GROUND: Dark brown and light grey clayey fine and medium angular GRAVEL of ash and clinker and fine and medium rounded of various lithologies. 0.00 - 0.75 Radiation reading of 15 cts/sec		MG	
0.40-0.50	ES	0					(0.75)				
0.50	D					86.68	0.75				
0.80-1.00	ES							Greenish brown clayey slightly gravelly fine and medium SAND. Gravel is fine to coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.20	D						(1.35)				
2.00	D					85.33	2.10				
			66								
			60								
			50				(1.10)				
2.80	D										
2.90-3.00	ES	0				84.23	3.20	Firm locally stiff dark reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete 3.2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.80m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Stability:	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	Stable			2.70			
Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.				General Remarks Trial pit complete at 3.2m bgl. No visual or olfactory evidence of contamination observed. Radiological readings of 15 cts/sec (background >10 cts/sec). Groundwater encountered as seepage from 2.7m bgl. Hole backfilled upon completion.					



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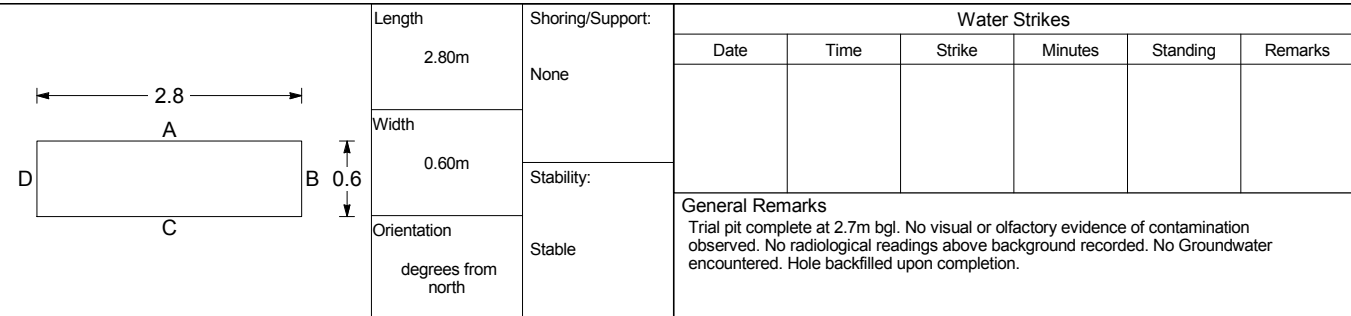
Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389543.970 N 382376.570	Ground Level (m AOD) 88.870
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.20	ES	0				88.17	0.70	MADE GROUND: Light brown slightly clayey slightly gravelly fine SAND with rare cobbles of concrete. Gravel is fine and medium rounded of various lithologies.		GMG		
0.80-1.20 0.80-0.90 0.80-0.90 1.00	B D ES D	0	20			87.37	1.50	Soft dark greyish brown sandy organic CLAY with disseminated reddish brown fibrous peat. (SUPERFICIAL DEPOSITS)		SUPD		
1.50	D		40 100					Stiff high strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
2.00	D		82 100 100 96			86.17	2.70	Trial pit complete at 2.7m bgl				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Job No
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Client
Harrow Estates Plc

Date
05-08-14
05-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389630.950 N 382330.710	Ground Level (m AOD) 88.160
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10	ES	0				87.76	0.40	MADE GROUND: Light brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).		TS		
0.40	ES	0						Orange brown slightly gravelly fine and medium SAND. Gravel is rounded medium of various lithologies. (GLACIAL DEPOSIT).		GDU		
2.00	B					85.36	2.80	Trial pit complete at 2.80m bgl.				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes						
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	General Remarks Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.							
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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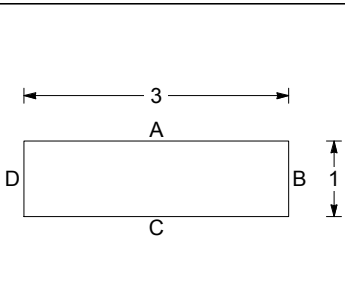
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Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389754.600 N 382384.020	Ground Level (m AOD) 87.340
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				86.94	0.40	Grass over light brown slightly gravelly fine and medium SAND with rootlets. Gravel is fine to coarse subangular to rounded of various lithologies (TOPSOIL).		TS	
0.40	ES	0				85.44	1.50	Orange brown slightly gravelly fine and medium SAND. Gravel is medium and coarse rounded of various lithologies (GLACIAL DEPOSITS).		GDU	
1.50	B					85.44	1.90				
2.50	B					84.54	2.80	Grey and brown silty fine SAND. (GLACIAL DEPOSITS).		GDU	
								Trial pit complete at 2.80m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

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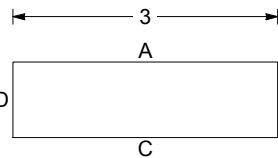
Job No
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Client
Harrow Estates Plc

Date
01-08-14
01-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389973.510 N 382515.520	Ground Level (m AOD) 86.890
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				86.54	0.35	Grass over brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse subangular to rounded of various lithologies (TOPSOIL)		TS	
0.50	ES		44			85.39	1.50	Firm medium strength orange mottled light grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.50	B ES	0				84.69	2.20	Orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.50						84.09	2.80	Reddish brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
								Trial pit terminated at 2.80m bgl due to instability.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Unstable from 1.80m bgl

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		2.20			

General Remarks
Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.20m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Hole No.
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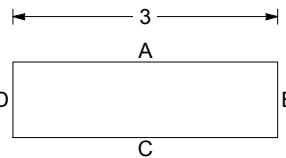
Job No
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Harrow Estates Plc

Date
**01-08-14
01-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 390084.460 N 382484.300	Ground Level (m AOD) 86.720
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.40	ES	0				86.32	0.40	Grass over brown fine and medium slightly gravelly SAND with rootlets. Gravel is fine to coarse rounded and subrounded. (TOPSOIL)		TS	
0.80	B		60			85.22	1.50	Firm medium strength orange brown slightly gravelly CLAY. Gravel is fine to coarse subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.50	B		78			84.72	2.00	Stiff high strength reddish brown mottled grey slightly gravelly CLAY. Gravel is angular grey sandstone and coal. (GLACIAL DEPOSITS)		GDU	
2.00	D					84.02	2.70	Reddish brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
2.20	ES	0									
								Trial pit complete at 2.70m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Unstable from 2.40m bgl

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		2.20			

General Remarks
Trial pit complete at 2.70m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.20m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TP168

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Job No
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Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389892.850 N 382337.020	Ground Level (m AOD) 85.110
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES	0				84.66	0.45	MADE GROUND: Brown slightly clayey gravelly SAND. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).		GMG	
						84.51	0.60	Orange brown slightly clayey fine to coarse SAND. (GLACIAL DEPOSITS)		GDU	
			48				(1.00)	Firm becoming stiff medium strength brown and grey occasionally orangey brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
			64			83.51	1.60				
							(0.40)	Grey brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
2.00	B					83.11	2.00	Reddish grey brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
2.30	ES	0				82.31	2.80				
								Trial pit terminated at 2.80m bgl due to instability.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 2.00m bgl	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north				2.30			

Scale 1:25
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

General Remarks
Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.3m bgl. Hole backfilled upon completion.



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Job No
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Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389782.700 N 382290.760	Ground Level (m AOD) 85.720
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0					(0.50)	MADE GROUND: Brown slightly clayey gravelly fine SAND. Gravel is angular to rounded of various lithologies (TOPSOIL). Likely replaced after installation of drain.		GMG	
0.50	D					85.22	0.50	MADE GROUND: Orange brown occasionally light grey slightly gravelly clayey SAND. Gravel is rounded to subangular of various lithologies. Likely replaced after installatio of drain.		GMG	
						84.22	1.50	1.40 m bgl; ceramic land drain		GMG	
			42		↓	83.72	2.00	Firm medium strength reddish brown mottled grey slightly gravelly CLAY. Gravel is medium and coarse subangular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(0.70)	Reddish brown slightly silty fine SAND. (GLACIAL DEPOSITS)		GDU	
						83.02	2.70	Trial pit terminated at 2.70m bgl due to instability			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 2.00m bgl.	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north				2.00			
Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.			General Remarks Trial pit complete at 2.70m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.0m bgl. Hole backfilled upon completion.					



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TRIAL PIT LOG

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Job No
70004430

Client
Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389522.930 N 382267.510	Ground Level (m AOD) 87.320
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	B					86.92	0.40	Long grass over brown slightly gravelly fine and medium SAND with rootlets. Gravel is fine to coarse subangular to subrounded of various lithologies. (TOPSOIL).		TS	
0.50	ES	0						Reddish brown slightly clayey slightly gravelly SAND. Gravel is rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	B					85.32	2.00	Reddish brown slightly clayey fine to coarse SAND and rounded GRAVEL of sandstone and coal and various lithologies. (GLACIAL DEPOSITS)		GDU	
						84.82	2.50	Brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						84.22	3.10	Trial pit complete at 3.10m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ_WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 3.10m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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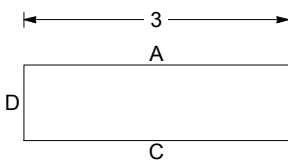
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Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389400.470 N 382183.810	Ground Level (m AOD) 86.700
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES	0				86.35	0.35	Crops over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine and medium subangular to rounded of various lithologies.(TOPSOIL)		TS	
0.50	ES	0	88					Stiff high strength orange brown mottled light grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.50	D							1.00 m bgl; becoming brown		GDU	
2.00	B		120			84.70	2.00	Orange fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						83.70	3.00	Trial pit complete at 3.00m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

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Date
**05-08-14
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Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389616.050 N 382216.710	Ground Level (m AOD) 87.000
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES	0				86.50	0.50	Crops over brown slightly gravelly fine SAND. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL)		TS	
						85.50	1.50	Orange brown slightly clayey slightly gravelly fine and medium SAND. Gravel is subangular to rounded of various lithologies. (GLACIAL DEPOSITS).		GDU	
2.00	B					84.00	3.00	Reddish brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse subangular and subrounded of various (GLACIAL DEPOSITS)		GDU	
								3.00 Trial pit complete at 3.00m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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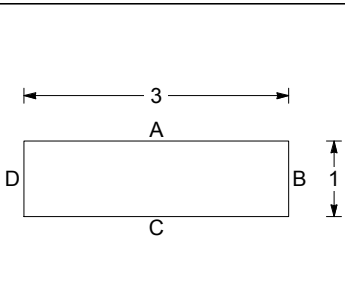
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Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389689.500 N 382175.440	Ground Level (m AOD) 86.170
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				85.97	(0.20) 0.20	Brown slightly gravelly fine SAND. Gravel is angular to subrounded of various lithologies. (TOPSOIL)		TS	
0.30	ES	0						Brown slightly gravelly fine and medium SAND. Gravel is fine to coarse rounded of various lithologies. (GLACIAL DEPOSITS).		GDU	
1.00	B						(2.60)				
3.00	B					83.37	(0.40) 2.80	Brown silty fine SAND. (GLACIAL DEPOSITS).		GDU	
						82.97	3.20	Trial pit complete at 3.20m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.20m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



WSP
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TRIAL PIT LOG

Hole No.
TP174

Project
Woodford Aerodrome

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1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389899.660 N 382161.740	Ground Level (m AOD) 85.120
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				84.72	0.40	Brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse rounded to subangular of various lithologies (TOPSOIL).		TS	
0.50	ES	0					(0.80)	Firm orange brown mottled grey slightly sandy CLAY. Gravel is fine to coarse of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00	B					83.92	1.20	Reddish brown clayey SAND. (GLACIAL DEPOSITS)		GDU	
							(1.40)				
						82.52	2.60				
2.60	D						(0.40)	Stiff reddish brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						82.12	3.00	Trial pit complete at 3.00m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ_WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP175

Project
Woodford Aerodrome

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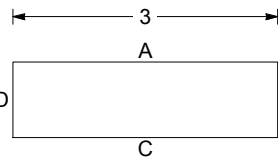
Job No
70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389763.250 N 382051.760	Ground Level (m AOD) 84.970
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm/m ²)	P Pen (kNm/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.15	ES	0					(0.50)	Brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse subangular and subrounded of various lithologies (TOPSOIL).		TS	
0.50	ES	0				84.47	0.50	Brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.00	B					(1.70)					
2.50	B					82.77	2.20	Reddish brown slightly clayey slightly gravelly SAND. Gravel is medium rounded. (GLACIAL DEPOSITS).		GDU	
						82.07	2.90	Trial pit complete at 2.90m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		1.70			
		2.70			

General Remarks
Trial pit complete at 2.90m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Water seepage encountered at 1.70m bgl. Groundwater encountered at 2.70m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



WSP
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TRIAL PIT LOG

Hole No.
TP176

Project
Woodford Aerodrome

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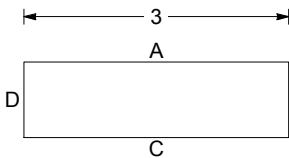
Job No
70004430

Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389859.770 N 382008.330	Ground Level (m AOD) 85.340
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES	0				84.94	0.40	Brown slightly gravelly fine and medium SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies. (TOPSOIL)		TS	
			74			84.54	0.80	Orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.00	D						(1.10)	Firm medium strength orange brown mottled grey slightly gravelly sandy CLAY. Gravel is coarse angular of coal. (GLACIAL DEPOSITS)		GDU	
2.00	B		60		↓	83.44	1.90	Reddish brown slightly gravelly slightly clayey fine SAND with rare rounded cobbles. (GLACIAL DEPOSITS)		GDU	
						82.14	3.20	Trial pit complete at 3.20m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Unstable from 1.90m bgl.

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		1.90			

General Remarks
Trial pit complete at 3.20m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.90m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP177

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**31-07-14
31-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389264.150 N 382113.540	Ground Level (m AOD) 87.270
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				86.97	0.30	MADE GROUND: Grass over brown slightly clayey slightly gravelly SAND. Gravel is fine angular of ash and clinker.		MG	
						86.47	0.80	PROBABLE MADE GROUND: Orange brown fine and medium SAND.		MG	
0.80-0.90	D						(0.30)	Stiff dark greyish brown sandy CLAY with abundant rootlets.		GDU	
0.80-0.90	ES	0				86.17	1.10	Firm medium strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.50	D		80				(1.00)			GDU	
2.00	D		80			85.17	2.10	Greyish green clayey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
						84.87	2.40			GDU	
2.50	D					84.67	2.60	Firm locally stiff reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete at 2.6m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.80m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north		General Remarks Trial pit complete at 2.6m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
TP178

Project
Woodford Aerodrome

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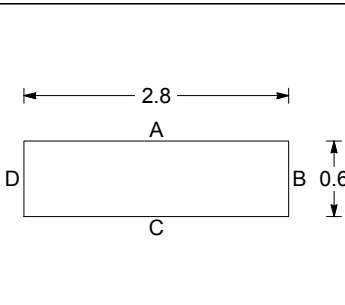
Job No
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Client
Harrow Estates Plc

Date
31-07-14
31-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389309.440 N 382142.240	Ground Level (m AOD) 87.380
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.20	ES	0				86.68	0.70	MADE GROUND: Grass over brown slightly clayey slightly gravelly SAND. Gravel is fine and medium of brick limestone and glass.		MG		
1.00-1.20	D ES	0	70					Firm locally stiff medium strength orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.30-1.50	B		60									
2.00	D		56									
2.60	D		80			84.78	2.60	Trial pit complete at 2.6m bgl				



Length
2.80m

Width
0.60m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.6m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP179

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-08-14
01-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389965.800 N 381573.310	Ground Level (m AOD) 83.760
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				83.36	0.40	MADE GROUND: Long grass over brown gravelly SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).		GMG	
0.50	ES	5	40				(1.80)	MADE GROUND: Soft brown streaked black slightly sandy slightly gravelly CLAY with fragments of brick sandstone and plastic - strong hydrocarbon odour.		CMG	
2.20	ES	0	46			81.56	2.20	2.00 m bgl; ceramic land drain - 100mm diameter.			
2.50	D						(1.00)	Firm medium strength brown mottled grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
3.20	B		52			80.56	3.20				
							(0.20)	Grey clayey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
						80.36	3.40	Trial pit complete at 3.40m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.40m bgl. Hydrocarbon odour encountered at 0.40m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP180

Project
Woodford Aerodrome

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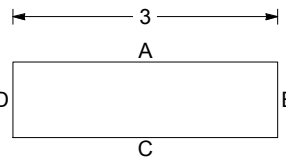
Job No
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Client
Harrow Estates Plc

Date
**01-08-14
01-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389801.650 N 381249.670	Ground Level (m AOD) 81.930
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES					81.73	0.20	MADE GROUND: Brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies (TOPSOIL).		GMG	
						81.63	0.30	MADE GROUND: Yellowish brown gravelly SAND with frequent cobbles of yellow angular sandstone.			
							(0.50)	MADE GROUND: Grey brown sandy fine to coarse angular to subrounded GRAVEL with inclusions of glass bottles, metal, wire. Occasional angular cobbles of sandstone.			
0.80	ES	3				81.13	0.80	MADE GROUND: Soft medium strength grey streaked black slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded of various lithologies - hydrocarbon odour.		GMG	
1.00	D		46				(1.40)				
2.20	ES	0				79.73	2.20	MADE GROUND: Grey and dark grey slightly gravelly SAND. Gravel is fine to coarse rounded.		GMG	
			44				(1.40)				
3.60	ES	0	98			78.33	3.60	Stiff high strength reddish brown slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
						78.13	3.80	Trial pit completed at 3.80m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		3.60			

General Remarks
Trial pit complete at 3.80m bgl. Hydrocarbon odour encountered at 0.80m bgl. No radiological readings above background recorded. Groundwater encountered at 3.60m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



WSP
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TRIAL PIT LOG

Hole No.
TP181

Project
Woodford Aerodrome

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Job No
70004430

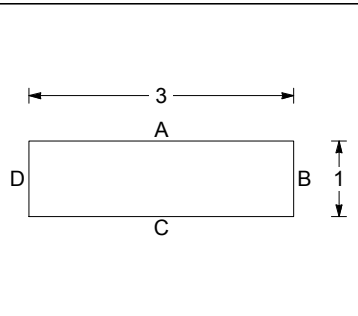
Client
Harrow Estates Plc

Date
 01-08-14
 01-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389850.460 N 381243.730	Ground Level (m AOD) 82.630
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.30	ES	230				82.43	(0.20) 0.20	MADE GROUND: Brown slightly gravelly fine SAND. Gravel is fine to coarse angular to subrounded of sandstone and various lithologies with rootlets (TOPSOIL).		GMG	
						82.23	(0.20) 0.40	MADE GROUND: Dark grey and black slightly sandy fine to coarse angular to subrounded GRAVEL of various lithologies -very strong hydrocarbon odour. 0.20 - 0.40 m bgl; hydrocarbon contamination		GMG	
0.50	ES	5				(1.20)	MADE GROUND: Brown gravelly fine to coarse SAND. Gravel is fine to coarse rounded to subangular of ash and clinker and various lithologies.		GMG		
						81.03	1.60				
						(0.20) 80.83	1.80	MADE GROUND: Reddish brown sandy fine to coarse angular GRAVEL of brick with occasional cobbles.		GMG	
						(1.00) 79.83	2.80	MADE GROUND: Dark brown slightly sandy clayey GRAVEL. Gravel is fine to coarse well rounded to rounded of various lithologies including plastic.		GMG	
2.00 3.00	B ES					(0.50) 79.33	3.30	Stiff high strength reddish brown mottled grey slightly gravelly CLAY. Gravel is fine to coarse rounded. (GLACIAL DEPOSITS).		GDU	
								Trial pit complete at 3.30m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



Length 3.00m	Shoring/Support: None
Width 1.00m	
Orientation degrees from north	Stability: Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
 Trial pit complete at 3.30m bgl. Hydrocarbon contamination encountered between 0.20m - 0.40m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP182

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389527.500 N 382117.020	Ground Level (m AOD) 86.140
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES	0				85.94	(0.20) 0.20	MADE GROUND: Crops over brown slightly gravelly fine and medium SAND. Gravel is angular to subrounded of sandstone and brick and various lithologies		GMG	
						85.64	(0.30) 0.50	MADE GROUND: Light brown gravelly fine to coarse SAND. Gravel is angular to subrounded of sandstone with angular cobbles.		GMG	
1.00	D ES	0	40			85.14	(0.50) 1.00	MADE GROUND: Orange brown and grey slightly gravelly CLAY. Gravel is fine to coarse. 0.80 m bgl; 100mm ceramic land drain		CMG	
						84.44	(0.70) 1.70	Firm medium strength orange brown mottled grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
2.50	D		60			84.14	(0.30) 2.00	Brown grey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						83.34	(0.80) 2.80	Firm medium strength reddish brown slightly gravelly CLAY. Gravel is fine to coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete at 2.80m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Stable	General Remarks Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TPB01

Project
Woodford Aerodrome

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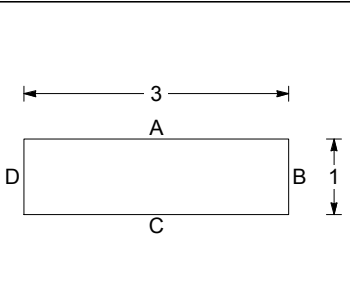
Job No
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Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389829.310 N 381761.920	Ground Level (m AOD) 86.360
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
						84.86	1.50	MADE GROUND: Brown slightly clayey slightly cobbly gravelly SAND with rootlets. Cobbles and gravel of concrete, asphalt and brick.		GMG		



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable


Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks


General Remarks
Trial pit complete at 0.70m into side of bund.
No visual or olfactory evidence of contamination observed.
No radiological readings above background recorded.
Groundwater not encountered.
Hole backfilled upon completion.

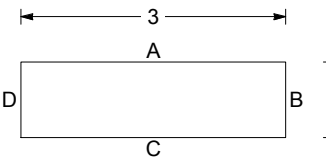
Scale 1:18.75

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

 WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	TRIAL PIT LOG			Hole No. TPB02
	Project Woodford Aerodrome			Sheet 1 of 1
Job No 70004430	Client Harrow Estates Plc			Date 02-07-14 02-07-14
Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389889.890 N 381750.870	Ground Level (m AOD) 86.010

SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
						85.26	0.75	MADE GROUND: Brown slightly clayey slightly gravelly SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies.		GMG		

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Stable	General Remarks Trial pit complete at 0.70m into side of bund. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:18.75	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



WSP
150-182 The Quays
M50 3SP
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Fax:

TRIAL PIT LOG

Hole No.
TPB03

Project
Woodford Aerodrome

Sheet
1 of 1

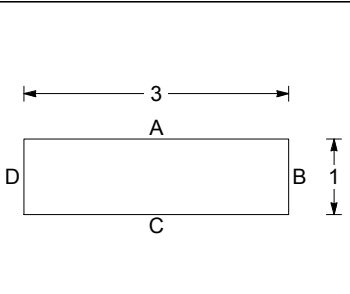
Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389901.570 N 381784.020	Ground Level (m AOD) 85.890
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
						85.29	0.60	MADE GROUND: Brown slightly clayey gravelly SAND with rootlets. Gravel is fine to coarse angular to well rounded of various lithologies.		GMG		



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 0.70m into side of bund.
No visual or olfactory evidence of contamination observed.
No radiological readings above background recorded.
Groundwater not encountered.
Hole backfilled upon completion.

Scale 1:18.75

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TPB05

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller
H & C Plant Hire Ltd

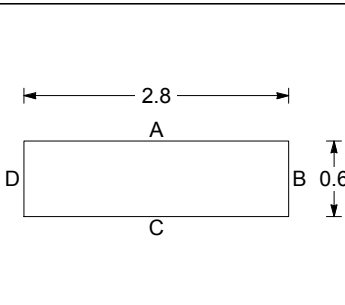
Method/Plant Used
JCB 3CX

Logged By
J. Watson

Co-Ordinates (NGR)
E 0.000
N 0.000

Ground Level (m AOD)

SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50-1.50	B ES	0					0.50	MADE GROUND: Dark brown clayey gravelly SAND with abundant cobbles. Gravel and cobbles are of concrete asphalt brick drainage ceramics wood slate sandstone plastic with occasional rebar.	[Cross-hatch pattern]	MG	[Cobble pattern]	
0.50-1.50						1.50	MADE GROUND: Firm sandy gravelly dark brown CLAY with abundant cobbles. Gravel and cobbles are of concrete asphalt brick drainage ceramics wood slate sandstone plastic with occasional rebar.					MG
							2.00					
							2.50	Stiff orange brown mottled greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)	[Horizontal line pattern]	GDU		
							2.50	Trial pit complete at 2.5m bgl				



Length	2.80m	Shoring/Support: None
Width	0.60m	
Orientation	degrees from north	Stability: Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit completed within bund - complete at 2.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:18.75

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



WSP
150-182 The Quays
M50 3SP
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Fax:

TRIAL PIT LOG

Hole No.
TPB06

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 0.000 N 0.000	Ground Level (m AOD)
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50-1.00	ES	0					(1.50)	MADE GROUND: Dark brown clayey gravelly SAND with abundant cobbles. Gravel and cobbles are of concrete asphalt brick drainage ceramics wood slate sandstone plastic with occasional rebar.		MG		
1.00-1.50	B					1.50						
Trial pit complete at 1.5m bgl												

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

Length: 2.80m
Width: 0.60m
Orientation: degrees from north

Shoring/Support: None

Stability: Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit completed within bund - complete at 1.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:18.75 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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150-182 The Quays
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WINDOW SAMPLE LOG

Hole No.
WS101

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389621.720 N 382842.010	Ground Level (m AOD) 90.850
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.40-0.60	ES	.	0	110 120 122			90.53 90.50	0.32 0.35	MADE GROUND: Reinforced CONCRETE.		CONC	
1.00-1.45	D (S)	3,2,2 3,2,2 N=9.		128 80 120				(1.45)	MADE GROUND: Soft brown sandy gravelly CLAY. Gravel fine and medium of various lithologies. Stiff high strength slightly reddish brown sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.80-2.00	ES	.	0	100 50 56			89.05	1.80	1.50 m bgl; becoming medium strength		GDU	
2.00-2.45	D (S)	3,2,2 3,4,3 N=12.		96			88.60	(0.45) 2.25	Medium dense orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
							88.40	2.45	Stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
									Window sample complete 2.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks Windowless sample hole complete at 2.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS102

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389506.320 N 382772.590	Ground Level (m AOD) 90.640
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.60-0.80	ES		0				90.19	0.45	MADE GROUND: CONCRETE		CONC	
							90.04	0.60	MADE GROUND: Dark grey very clayey sandy fine to coarse subangular GRAVEL of sandstone and brick.		MG	
							89.79	0.85	MADE GROUND: Light brown sandy fine to coarse subangular GRAVEL of sandstone.		MG	
1.00-1.45	D (S)	8,9,9 4,5,4 N=22.					89.74	0.90	MADE GROUND: Red brown medium SAND.		MG	
							89.64	1.00	MADE GROUND: Firm brown sandy gravelly CLAY. Gravel is fine to coarse of sandstone and brick.		MG	
							89.04	1.60	MADE GROUND: Dark orange brown gravelly medium to coarse SAND. Gravel is fine to medium subangular of sandstone.		MG	
2.00-2.45	D (S)	2,1,1 1,2,2 N=6.					88.34	2.30	PROBABLE MADE GROUND: Loose dark orange brown medium and coarse SAND.		MG	
							88.14	2.50	Very soft very low strength dark grey organic sandy CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
2.70-2.90	ES		3				87.94	2.70	Soft dark brown amorphous PEAT.		SUPD	
3.00-3.45	D (S)	SW,SW,SW 1,0,0 N=0.					87.64	3.00	Dark greyish brown silty fine SAND with a faint hydrocarbon odour. (SUPERFICIAL DEPOSITS)		SUPD	
3.10-3.50	ES		5	10			87.04	3.60	Very soft very low strength dark greenish grey slightly silty and sandy CLAY with a faint hydrocarbon odour. (SUPERFICIAL DEPOSITS)		SUPD	
4.00-4.45	D (S)	1,2,2 2,3,3 N=10.					86.84	3.80	Dark brown medium SAND. (GLACIAL DEPOSITS)		GDU	
							86.19	4.45	Firm dark reddish brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
									Windowless sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.80		2.50	
General Remarks Windowless sample hole complete at 4.45m bgl. Faint hydrocarbon odour observed between 2.5 to 3.8m bgl. No radiological readings above background recorded. Groundwater encountered at 3.8m bgl. Hole installed upon completion. Response zone 2.0 to 3.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS103

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389568.720 N 382768.980	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.40	ES		0				90.54	0.16	MADE GROUND: Reinforced CONCRETE.		CONC	
							90.46	0.24	MADE GROUND: Brown clayey sandy fine to coarse angular GRAVEL of sandstone and various lithologies. Firm reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded to angular of various lithologies. (GLACIAL DEPOSITS)		MG	
1.00	(S)	1,1,2 1,2,1 N=6.		110			(2.21)	1.30 m bgl; stiff high strength			GDU	
2.00	D (S)	1,2,1 2,1,2 N=6.		74				2.00 m bgl; firm medium strength				
							88.25	2.45	Windowless sample complete at 2.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 2.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS104

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389657.650 N 382780.910	Ground Level (m AOD) 90.830
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20-0.30	ES	.	0			90.67	0.16	Reinforced CONCRETE.		CONC		
0.40-0.50	ES	.		132		90.53	0.30	MADE GROUND: Black sandy ashy fine and medium subangular GRAVEL of predominantly ash and clinker with some sandstone.		MG		
1.00-1.45	D (S)	1,2,3 2,3,3 N=11.		138			(1.40)	Stiff high strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)				
				140				0.90 - 1.00 m bgl; band of orangish brown fine sand		GDU		
				70				1.50 m bgl; becoming medium strength				
				76		89.13	1.70	Medium dense orange brown fine SAND. (GLACIAL DEPOSITS)		GDU		
2.00-2.45	D (S)	2,3,3 4,4,5 N=16.					(0.75)					
						88.38	2.45	Windowless sample complete at 2.45m bgl				

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 2.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS105

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389435.290 N 382702.210	Ground Level (m AOD) 90.710
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							90.51	0.20	CONCRETE.		CONC	
							90.21	0.50	MADE GROUND: Black mottled dark brown ashy gravelly SAND. Gravel is fine to coarse very angular to rounded of brick, clinker and various lithologies.		GMG	
0.70	ES	.	0					(0.70)	MADE GROUND: Loose reddish brown gravelly SAND. Gravel is fine and medium subangular to rounded of various lithologies.		GMG	
1.00	(S)	1.0,0 0.1,0 N=1.				↓	89.51	1.20				
1.10	D	.	0					(0.50)	Soft to firm brown slightly sandy organic CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
							89.01	1.70				
2.00	D (S)	2.1,1 0.1,1 N=3.	0			↓		(0.60)	Loose grey slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							88.41	2.30				
3.00	D (S)	3.3,3 3.4,4 N=14.	0					(1.15)	Firm to stiff reddish brown mottled light grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							87.26	3.45	3.00 Windowless sample hole complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.20 1.80			
						General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.20 to 1.80m bgl. Hole backfilled upon completion.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS106

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389539.910 N 382717.570	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.50			0				90.50	0.20	MADE GROUND: CONCRETE.		CONC	
0.90	ES D (S)	1,1,2 3,3,3 N=11.	0	98			90.25	0.45	MADE GROUND: Black mottled dark brown gravelly ashy SAND. Gravel is fine to coarse subrounded to well rounded of brick, clinker and various lithologies.		GMG	
1.00											(1.55)	Firm reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)
2.00	D (S)	2,2,3 3,3,4 N=13.	0	100			88.70	2.00	2.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 2.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone from 1.00 to 2.00m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS107

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389469.160 N 382680.550	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20			0				90.53	0.17	MADE GROUND: CONCRETE.		CONC	
			0				90.30	0.40	MADE GROUND: Black mottled dark brown slightly gravelly ashy SAND. Gravel is fine to coarse very angular to rounded of brick, sandstone clinker and various lithologies.		GMG	
0.50			0				90.15	0.55	MADE GROUND: Grey sandy fine to coarse very angular to subrounded GRAVEL of sandstone and various lithologies.		GMG	
			0				90.10	0.60		MADE GROUND: Red brick cobble.		
1.00	D (S)	1,1,2 4,4,4 N=14.	0	80			(1.15)		Firm becoming stiff reddish brown mottled light grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.50	ES		0				88.95	1.75	Reddish brown mottled light grey slightly clayey silty SAND. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	2,2,2 3,4,3 N=12.	0				88.70	2.00		2.0m bgl; windowless sample hole complete		

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 2.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS108

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389515.320 N 382664.640	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20			1				90.55	0.15	MADE GROUND: CONCRETE.		CONC	
							90.45	0.25	MADE GROUND: Black slightly gravelly SAND with abundant ash. Gravel is fine and medium very angular to rounded of various lithologies.		GMG	
							90.40	0.30			GMG	
0.40	ES		1				(0.30)	0.60	MADE GROUND: Light grey mottled brown sandy coarse GRAVEL of predominantly sandstone and brick.		GMG	
0.70			0	50			90.10		MADE GROUND: Light reddish brown mottled grey sandy GRAVEL. Gravel is fine and medium very angular to subangular of predominantly burnt shale.			
1.00	D (S)	2.2,3 3.3,4 N=13.							Firm becoming stiff reddish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.20	ES			76				(1.40)				
				100					1.50 - 1.60 m bgl; band of light grey fine to coarse sand			
2.00	D (S)	2.3,3 4.4,5 N=16.					88.70	2.00	2.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 2.0m bgl. Slightly elevated PID readings detected, all at or below 1ppm. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS109

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389423.950 N 382625.980	Ground Level (m AOD) 90.690
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.25	ES					90.52	0.17	MADE GORUND: CONCRETE.		CONC		
						90.29	0.40	MADE GROUND: Black mottled dark brown slightly gravelly SAND with abundant ash. Gravel is fine to coarse angular to rounded of predominantly brick, clinker and various lithologies.		GMG		
						90.19	0.50	MADE GROUND: Red fine and medium SAND.		GMG		
0.80	ES					(0.70)		MADE GROUND: Firm brownish grey sandy gravelly CLAY. Gravel is fine and medium angular to subrounded of coal, sandstone and various lithologies.		CMG		
						89.49	1.20	Firm high strength dark brown slightly gravelly sandy organic CLAY. (SUPERFICIAL DEPOSITS)		SUPD		
1.00	D (S)	1,1,1 1,1,2 N=5.						Firm reddish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine and medium angular to rounded of coal and various lithologies. (GLACIAL DEPOSITS)		GDU		
								89.24	1.45			2.70 m bgl; band of grey fine and medium sand.
2.00	D (S)	1,2,2 1,2,1 N=6.					(1.55)					
3.00	(S)	2,3,4 4,4,4 N=16.					87.69	3.00				
								3.0m bgl; windowless sample hole complete				

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 3.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS110

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389418.370 N 382579.030	Ground Level (m AOD) 90.600
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10			0			90.45	0.15	MADE GROUND: CONCRETE.		CONC		
							(0.40)	MADE GROUND: Dark brown mottled black and grey gravelly SAND with frequent ash and occasional cobbles of brick. Gravel is fine to coarse subangular to well rounded of predominantly brick, clinker and sandstone.		GMG		
0.60			0			90.05	0.55	MADE GROUND: Medium dense brownish reddish grey sandy fine to coarse very angular to subrounded GRAVEL of various lithologies.		GMG		
						89.90	0.70	MADE GROUND: Medium dense red coarse slightly gravelly SAND. Gravel is fine subangular to well rounded of various lithologies.		GMG		
1.00	D (S)	3,4,4 3,3,4 N=14.				89.40	1.20	MADE GROUND: Medium dense yellowish brown slightly gravelly SAND. Gravel is fine subrounded to well rounded of various lithologies.		GMG		
1.00	ES (S)	3,4,4 3,3,4 N=14.				89.15	1.45	MADE GROUND: Reddish brown fine sandy GRAVEL. Gravel is fine and medium very angular to subrounded of predominantly burnt shale.		GMG		
1.50			9.6			88.70	1.90	MADE GROUND: Cobbles of red brick.		GMG		
2.00	D (S)	1,3,1 1,3,1 N=6.				88.30	2.30	MADE GROUND: Dark reddish brown SAND.		GMG		
						87.90	2.70	Firm dark brownish grey slightly sandy organic CLAY (POSSIBLE RELICT TOPSOIL).		SUPD		
2.70	ES					87.60	3.00	Firm grey sandy CLAY. (GLACIAL DEPOSITS)		GDU		
2.90			1.3				(1.00)					
3.00	D (S)	1,0,1 1,1,2 N=5.		32								
				70								
4.00	(S)	1,1,1 2,1,2 N=6.				86.60	4.00	4.0m bgl; windowless sample hole complete				

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.10	20	2.30	
General Remarks Windowless sample hole complete at 4.0m bgl. Olfactory odour noted and PID readings recorded up to 9.6ppm. No radiological readings above background recorded. Groundwater encountered at 2.10 - 2.30m bgl. Hole installed upon completion. Response zone 0.5 to 2.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS111

Project
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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389602.110 N 382868.400	Ground Level (m AOD) 90.690
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20	ES		165.4			90.49	0.20	MADE GROUND: ASPHALT.		TARMAC	[Diagram showing stratigraphic layers: TARMAC, GMG, GDU]	
						90.44	0.25	0.19 m bgl; Strong hydrocarbon odour.		GMG		
				77		90.24	0.45	MADE GROUND: Brown clayey gravelly SAND with an oily sheen. Gravel is fine to coarse subangular and subrounded of predominantly limestone.		GDU		
				60				Medium dense brownish red medium SAND. (GLACIAL DEPOSITS)				
				62				Firm to stiff brown slightly gravelly slightly sandy CLAY. Gravel is fine very angular to subrounded of various lithologies. (GLACIAL DEPOSITS)				
1.00	D (S)	1,1,2 2,2,2 N=8.										
2.00	D (S)	2,3,3 3,4,5 N=15.					(3.25)					
3.00	D (S)	3,4,6 7,7,7 N=27.										
3.70	ES					86.99	3.70					
						86.79	3.90	Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
4.00	D (S)	2,3,3 4,5,9 N=21.					(1.10)	Stiff brown slightly sandy CLAY with occasional sand bands. (GLACIAL DEPOSITS)		GDU		
5.00	(S)	4,5,4 6,9,10 N=29.		110		85.69	5.00	5.0m bgl; windowless sample hole complete				

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.70			
						General Remarks Windowless sample hole complete at 5.00m bgl. Strong hydrocarbon odour and sheen noted below asphalt at 0.19m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.00 to 3.00m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS112

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389688.270 N 382916.370	Ground Level (m AOD) 91.200
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.50	ES	.	0				91.00	0.20	made ground: Reinforced CONCRETE		CONC	
0.70-1.00	ES	.	0				90.50	0.70	MADE GROUND: Light brown sandy clayey fine to coarse angular to subangular GRAVEL of limestone.		MG	
1.00-1.20	ES (S)	1,1,2 2,1,2 N=7.	0	50			90.20	1.00	Firm dark brown sandy slightly gravelly CLAY. Gravel is fine and coarse rounded of various lithologies. (POSSIBLE RELICT TOPSOIL)		SUPD	
				58				(0.90)	Firm medium strength slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
				64								
				50								
				46			89.30	1.90	Orangish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,1,1 1,2,2 N=6.					89.20	2.00	Soft brown very sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								(0.65)				
							88.55	2.65	Soft brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							88.40	2.80	Soft brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	2,2,2 3,4,4 N=13.					88.10	3.10	Medium dense orange brown clayey gravelly fine SAND. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
				46				(0.30)				
				46					Firm medium strength brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
				58								
4.00	(S)	2,3,3 4,4,4 N=15.						(2.35)				
				46								
				48								
				60								
				50								
				70								
5.00	(S)	3,3,4 4,6,9 N=23.					85.75	5.45	5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as damp soil at 1.9m bgl. Hole installed upon completion. Response zone 0.95 to 4.95m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS113

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389727.930 N 382897.130	Ground Level (m AOD) 91.580
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.50-0.60	ES		0				91.53	0.05	MADE GROUND: ASPHALT.		TARMAC	
								(0.35)	MADE GROUND: Brown sandy fine to coarse angular GRAVEL.		GMG	
1.00-1.20	ES (S)	0,1,1 1,1,2 N=5.	0				91.18	0.40	MADE GOUND: Dark grey and black very sandy fine and medium angular GRAVEL with ash and cobbles of brick and sandstone. Gravel of clinker and coal.		GMG	
							90.88	0.70	MADE GROUND: Greenish brown medium and coarse gravelly SAND. Gravel is fine and coarse of sandstone.		GMG	
2.00-2.20	ES (S)	1,2,2 2,2,2 N=8.	0				90.58	1.00	MADE GROUND: Firm low and medium strength reddish brown mottled greyish brown sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies.		CMG	
								(1.20)				
3.00	(S)	2,3,2 3,3,2 N=10.	0				89.38	2.20	Soft dark brown very sandy organic CLAY with frequent rootlets. (POSSIBLE RELICT TOPSOIL)		SUPD	
							89.08	2.50	Firm low and medium strength reddish brown sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	2,3,3 4,4,3 N=14.	0					(0.90)	No recovery		NR	
							87.68	3.90	Soft greenish grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
5.00	(S)	2,3,4 4,4,5 N=17.	0				87.08	4.50	Orangish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
							86.98	4.60	Soft greenish grey sandy CLAY. (GLACIAL DEPOSITS) 4.80 m bgl; firm medium strength clay		GDU	
								5.45m bgl; windowless sample complete				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS114

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389750.020 N 382857.500	Ground Level (m AOD) 91.540
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							91.49	0.05	MADE GROUND: ASPHALT.		TARMAC	
0.30-0.40	ES		0				91.29	0.25	MADE GROUND: Orange brown sandy clayey fine to coarse angular GRAVEL.		GMG	
0.50-0.60	ES		0	90			91.12	0.42	MADE GOUND: Dark grey and black very sandy fine and medium angular GRAVEL of ash clinker and coal with some vesicular slag brick and sandstone.		GMG	
0.80-1.00	ES		0	60			90.79	0.75	ASSUMED MADE GROUND: Stiff greenish grey mottled brown sandy slightly gravelly CLAY with occasional rootlets. Gravel is fine to coarse of brick and various lithologies.		CMG	
1.00	(S)	2.3.2 3.3.3 N=11.		52					ASSUMED MADE GROUND: Firm locally soft moderate strength reddish brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies.		CMG	
2.00	(S)	2.2.3 3.4.3 N=13.		46				(1.85)	1.70 - 1.90 m bgl; becoming stiff high strength 1.90 - 2.60 m bgl; becoming firm medium strength		CMG	
3.00	(C)	2.3.3 3.3.3 N=12.		46			88.94	2.60	Firm reddish brown clayey amorphous PEAT. (POSSIBLE RELICT TOPSOIL)		SUPD	
4.00	(C)	2.3.2 3.3.3 N=11.					88.84	2.70	Medium dense yellowish brown medium SAND. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	2.3.4 6.7.6 N=23.						(1.70)	3.50 - 4.40 m bgl; becoming greenish grey 3.70 - 4.00 m bgl; becoming clayey		GDU	
							87.14	4.40	Soft becoming firm low strength reddish brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							86.09	5.45	5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.40			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as damp soil from 3.4m bgl. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS115

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389801.090 N 382754.460	Ground Level (m AOD) 91.180
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.50	ES		0			90.98	0.20	MADE GROUND: CONCRETE.		CONC	
						90.88	0.30	MADE GROUND: Orangish brown sandy slightly clayey fine to coarse gravel sandstone.		MG	
						90.68	0.50	MADE GROUND: Dark grey and black very sandy fine and medium angular GRAVEL with frequent ash. Gravel of clinker and coal with some slag, brick and sandstone.		MG	
0.80-1.00	ES		0	78		90.48	0.70	MADE GROUND: Red brown fine to coarse GRAVEL of brick.		MG	
						(1.05)		MADE GROUND: Firm locally stiff medium strength locally high strength brown sandy gravelly CLAY with occasional ash. Gravel is fine to coarse of clinker slag, coal and brick.			
1.00	(S)	2,3,2 3,3,3 N=11.		60				1.40 - 1.50 m bgl: sandstone cobble		MG	
1.80-1.90	ES		0			89.43	1.75			SUPD	
						89.28	1.90	Brown slightly clayey organic medium and coarse SAND (POSSIBLE RELICT TOPSOIL)			
2.00	(C)	1,1,2 1,2,3 N=8.		54				Firm medium strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,2,3 2,3,4 N=12.		60			(2.05)			GDU	
4.00	(S)	1,1,2 3,5,6 N=16.		50				Medium dense orangish red fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(0.65)				
5.00	(C)	8,8,9 10,10,10 N=39.		68				Soft reddish brown mottled grey sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(0.30)				
				50				Dense orange red fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						87.23	3.95			GDU	
								5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.20			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.2m bgl. Hole installed upon completion. Response zone 0.5 to 2.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS116

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389853.900 N 382704.600	Ground Level (m AOD) 89.250
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20-0.40	ES	.	0				89.10	0.15	MADE GROUND: ASPHALT.		TARMAC	
1.00	(C)	1,2,1 2,2,2 N=7.							MADE GROUND: Orangish brown slightly sandy slightly clayey fine to coarse angular GRAVEL of limestone.			
1.50-1.70	ES	.	0				(2.85)				MG	
2.00	(C)	1,2,1 2,2,2 N=7.										
2.50-2.70	ES	.	0									
3.00	(C)	6,6,4 4,3,3 N=14.				↓	86.25	3.00	MADE GROUND: Orangeish brown fine to coarse angular GRAVEL of limestone.		MG	
3.50-3.80	ES	.	0				85.75	3.50	MADE GROUND: Very soft very gravelly sandy CLAY. Gravel is fine to coarse of limestone.		MG	
4.00	(C)	1,1,1 1,1,1 N=4.					85.25	4.00	Loose orangish brown slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)			
4.50-4.70	ES	.	0					(1.45)			GDU	
5.00	(C)	2,3,3 3,3,3 N=12.							5.00 m bgl; becoming medium dense			
							83.80	5.45	5.45m bgl; windowless sample complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.0m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS117

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389726.310 N 382750.000	Ground Level (m AOD) 90.380
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						90.30	0.08	MADE GROUND: ASPHALT.		TARMAC	
							(0.57)	MADE GROUND: Reddish brown sandy GRAVEL and occasional cobbles of predominantly brick		GMG	
						89.73	0.65	MADE GROUND: Light yellowish grey sandy GRAVEL and occasional cobbles. Gravel is predominantly sandstone.		GMG	
1.00	D (S)	1,1,2 1,2,1 N=6.					(0.75)				
						88.98	1.40	ASSUMED MADE GROUND: Firm to stiff reddish brown CLAY. Assumed due to appearance and presence of underlying peat		CMG	
2.00	D (S)	1,2,2 3,3,4 N=12.					(1.45)				
						87.53	2.85	Dark brown to black fibrous PEAT.		SUPD	
2.90	ES D (S)	1,1,1 2,1,2 N=6.					(0.35)	Soft to firm light grey slightly sandy slightly gravelly CLAY. Gravel is fine angular of predominantly mudstone and coal. (SUPERFICIAL DEPOSITS)		SUPD	
3.00						87.03	3.35	Dark brown to black sandy organic CLAY. (SUPERFICIAL DEPOSIT)		SUPD	
							(0.45)				
						86.58	3.80	Light brownish grey very sandy organic CLAY. (SUPERFICIAL DEPOSIT)		SUPD	
4.00	D (S)	1,1,1 2,1,2 N=6.					(1.20)				
4.30	ES										
						85.38	5.00	Windowless sample hole complete at 5m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.30			
						General Remarks Windowless sample hole complete at 5.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.30m bgl. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS118

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389714.300 N 382718.970	Ground Level (m AOD) 91.140
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.15	ES		0				91.04	0.10	MADE GROUND: ASPHALT.		TARMAC	
0.20							91.02	0.12	MADE GROUND: Light grey subangular to rounded GRAVEL of limestone		GMG	
							90.89	0.25	MADE GROUND: Black slightly sandy fine and medium very angular to subangular GRAVEL with frequent ash. Gravel is coal.		GMG	
							90.79	0.35	MADE GROUND: Reddish brown sandy GRAVEL of predominantly brick.		GMG	
1.00	D (S)	1,1,2 3,4,5 N=14.	0						Firm locally soft brown mottled grey and light brown slightly gravelly sandy CLAY. Gravel is fine and medium angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(2.20)					
2.00	D (S)	2,3,3 4,5,5 N=17.	0						Light grey medium SAND. (GLACIAL DEPOSITS)		GDU	
2.60	ES		0				88.59	2.55	Soft and firm grey slightly sandy gravelly CLAY. Gravel is fine angular of predominantly coal. (GLACIAL DEPOSITS)		GDU	
							88.44	2.70				
3.00	D (C)	2,3,2 3,3,4 N=12.	0						Medium dense reddish brown SAND. (GLACIAL DEPOSITS)		GDU	
							(1.30)					
4.00	D (C)	2,3,3 4,3,5 N=15.	0				87.14	4.00	Stiff reddish brown gravelly CLAY. Gravel is fine and medium angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							86.94	4.20				
5.00	(C)	6,9,9 9,11,10 N=39.							5.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 5.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS119

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389798.900 N 382640.950	Ground Level (m AOD) 90.480
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology		
0.05	ES	.				90.30	0.18	MADE GROUND: Brown clayey SAND with rootlets. (TOPSOIL)		MG		
0.20		.	0			89.93	0.55	MADE GROUND: Brown gravelly SAND. Gravel is fine and medium very angular to subrounded of brick coal mudstone and various lithologies.		GMG		
		.				89.38	1.10	MADE GROUND: Dark brown slightly gravelly SAND. Gravel is fine and medium very angular to subrounded of predominantly coal and brick.		GMG		
1.00	D (S)	1,2,3 3,4,7 N=17.		55		88.73	1.75	Firm to stiff light orangish grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.80	ES	.		60		88.28	2.20	Loose light grey medium SAND. (GLACIAL DEPOSITS)		GDU		
2.00	D (C)	1,1,1 2,1,2 N=6.		30		87.68	2.80	Soft low strength light brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU		
		.				87.48	3.00	Reddish brown gravelly SAND. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
3.00	D (C)	1,1,2 3,5,7 N=17.				87.13	3.35	Greyish brown slightly gravelly sandy CLAY. Gravel is fine and medium angular of various lithologies. (GLACIAL DEPOSITS)		GDU		
		.				85.98	4.50	Medium dense light orangish reddish brown SAND. (GLACIAL DEPOSITS)		GDU		
4.00	D (C)	2,3,3 4,3,4 N=14.				85.48	5.00	Medium dense brown slightly clayey SAND. (GLACIAL DEPOSITS) 4.50 m bgl; strong hydrocarbon odour.		GDU		
4.60	ES	.						5.0m bgl; windowless sample hole complete				
5.00	D (C)	1,2,3 1,1,1 N=6.										

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.75			
General Remarks Windowless sample hole complete at 5.0m bgl. Strong hydrocarbon odour encountered at 4.50m bgl. No radiological readings above background recorded. Groundwater encountered at 1.7m bgl. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS120

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389450.570 N 382808.170	Ground Level (m AOD) 90.570
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20-0.40	ES	.	0					90.47	0.10	MADE GROUND: ASPHALT.		TARMAC
							90.37	0.20	MADE GROUND: Reinforced CONCRETE.		CONC	
							90.17	0.40	MADE GOUND: Dark grey and black very sandy fine and medium angular GRAVEL with frequent ash. Gravel is clinker, coal, slag, brick and sandstone.		MG	
0.60-0.80	ES	.	0				90.02	0.55	MADE GROUND: Orange brown clayey sandy fine to coarse subangular GRAVEL of sandstone.		MG	
1.00-1.45	D (S)	2,3,3 3,1,1 N=8.							Firm locally soft medium strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)			
1.40-1.60	ES	.	0									
2.00-2.45	D (S)	1,2,1 2,2,2 N=7.		52								
				52								
				64								
				52								
				62								
				56								
3.00	(S)	2,2,3 3,3,4 N=13.		46			(4.90)				GDU	
				50								
				50								
				54								
				90					3.70 m bgl; becoming stiff clay			
				82								
4.00-4.45	D (S)	3,3,4 3,4,5 N=16.		76								
				96								
				76								
5.00	(S)	3,4,4 4,5,6 N=19.										
							85.12	5.45	5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.90			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.9m bgl. Hole installed upon completion. Response zone 0.5 to 1.50m bgl.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS121

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389446.480 N 382776.710	Ground Level (m AOD) 90.660
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							90.56	0.10	MADE GROUND: ASPHALT.		TARMAC	
0.30-0.50	ES						90.36	0.30	MADE GROUND: Reinforced CONCRETE.		CONC	
0.60-0.80	ES			60			90.11	0.55	MADE GROUND: Reddish brown slightly clayey medium SAND.		MG	
1.00-1.20	ES (S)	1,2,2 3,3,3 N=11.		100					Stiff locally firm high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,2,2 2,3,2 N=9.		100				(3.40)				
3.00	(S)	2,3,3 4,3,4 N=14.		100								
4.00	(S)	2,2,3 2,2,3 N=10.		106			86.71	3.95				Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)
5.00	(S)	2,3,3 4,4,5 N=16.		80			85.66	5.00	Stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
				78			85.21	5.45	5.45m bgl; windowless sample complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.20			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.2m bgl. Hole back filled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS122

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389388.410 N 382732.330	Ground Level (m AOD) 90.710
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.50	ES		0			90.63	0.08	MADE GROUND: ASPHALT.		TARMAC	
						90.49	0.22	MADE GROUND: Reinforced CONCRETE.		CONC	
0.70-0.90	ES		0			90.31	0.40	MADE GOUND: Dark grey and black sandy fine and medium angular GRAVEL with frequent ash. Gravel is clinker, coal, slag, brick and sandstone.		MG	
						(0.50)	89.81	0.90	MADE GROUND: Reddish brown slightly clayey sandy GRAVEL of fine and medium sandstone, burnt shale, and occasional coal.		
1.00-1.45	ES (S)	1,2,3 1,2,2 N=8.				(0.60)		MADE GROUND: Loose reddish brown sandy fine to coarse GRAVEL of crushed brick.		MG	
						89.21	1.50				
2.00	(S)	3,2,1 2,2,2 N=7.				(0.50)		Very soft low strength dark greyish brown sandy gravelly CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
						88.71	2.00				
2.30-2.50	ES					(1.20)		Firm medium strength greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
						2.70 m bgl; becoming brown and sandy					
3.00-3.45	ES (S)	3,4,4 4,3,3 N=14.				87.51	3.20	Brown fine SAND. (GLACIAL DEPOSITS)		GDU	
						87.31	3.40				
4.00-4.45	ES (S)	2,2,3 3,3,4 N=13.				87.11	3.60	Very soft low strength dark grey brown sandy gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
						(0.85)		Medium dense brown fine SAND. (GLACIAL DEPOSITS)		GDU	
						86.26	4.45	Windowless sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.00			
General Remarks Windowless sample hole complete at 4.45m bgl. Slight olfactory evidence of hydrocarbon contamination observed at 1.0 to 1.2m bgl. No radiological readings above background recorded. Groundwater encountered at 1.0m bgl. Hole installed upon completion. Response zone 0.5 to 1.5m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS123

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389259.750 N 382671.230	Ground Level (m AOD) 89.590
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.30	ES		0			89.54	0.05	MADE GROUND: Concrete paving slab.		CONC	
						89.47	0.12	MADE GROUND: Reddish brown coarse SAND.		MG	
1.00-1.45	D (S)	5,6,3 3,3,3 N=12.	30			88.69	0.90	MADE GROUND: Brown clayey ashy SAND and fine to coarse angular GRAVEL. Gravel is limestone, brick, concrete and rare ceramics.		MG	
							(0.78)				
1.00-1.30	ES (S)	5,6,3 3,3,3 N=12.				88.09	1.50	MADE GROUND: Black gravelly ashy SAND with a faint hydrocarbon odour. Gravel is fine and medium of clinker.		MG	
2.00-2.45	D (S)	1,2,2 1,2,2 N=7.		72		87.99	1.60	MADE GROUND: Sandy reddish brown fine to coarse angular GRAVEL of broken brick.		MG	
2.01-2.20	ES		0	60				Firm medium strength dark greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS) 1.60 - 1.90 m bgl; possible hydrocarbon staining		GDU	
3.00-3.45	D (S)	2,3,3 2,3,3 N=11.				86.79	2.80	Greyish brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,2,1 2,2,2 N=7.				86.29	3.30	Loose reddish brown slightly clayey medium SAND. (GLACIAL DEPOSITS)		GDU	
5.00-5.45	D (S)	2,2,1 2,2,3 N=8.				84.14	5.45	5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.70			
								3.10			
General Remarks Windowless sample hole complete at 5.45m bgl. Olfactory evidence of hydrocarbon contamination observed between 0.9 to 1.5m bgl. No radiological readings above background recorded. Groundwater encountered at 1.7 and 3.1m bgl. Hole installed upon completion. Response zone 0.5 to 1.5m bgl.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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150-182 The Quays
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WINDOW SAMPLE LOG

Hole No.
WS124

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389321.850 N 382586.290	Ground Level (m AOD) 90.480
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.50	ES	.					90.18	(0.30) 0.30	MADE GROUND: Reinforced CONCRETE.		CONC	
							89.88	(0.30) 0.60	MADE GROUND: Brown sandy fine and medium angular GRAVEL of sandstone and brick.		MG	
0.70-0.90	ES	.		46					MADE GROUND: Firm locally soft low and medium strength brown sandy slightly gravelly CLAY. Gravel is fine and coarse angular of brick.		MG	
1.00-1.45	D (S)	1,0,1 0,1,0 N=2.		50				(1.10)			MG	
				30			88.78	1.70	Soft low strength dark brown sandy organic CLAY (POSSIBLE RELICT TOPSOIL)		SUPD	
2.00-2.45	D (S)	1,2,1 1,2,2 N=6.		70			88.58	1.90	Firm medium strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)		SUPD	
				74				(1.30)			GDU	
3.00-3.45	D (S)	2,3,3 4,5,5 N=17.		102			87.28	3.20	Medium dense orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
				110			86.98	(0.30) 3.50	Firm high strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00-4.45	D (S)	3,4,4 5,5,6 N=20.		100			86.03	(0.95) 4.45	m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.1m bgl. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS125

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389334.500 N 382573.630	Ground Level (m AOD) 90.420
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
						90.26	0.16	MADE GROUND: Reinforced CONCRETE.		CONC	
0.50-0.60	ES		0			89.92	0.50	MADE GROUND: Brown sandy fine and medium angular GRAVEL of sandstone.		MG	
						89.82	0.60				
						89.72	0.70	MADE GOUND: Dark grey and black very sandy fine angular GRAVEL with ash. Gravel is clinker and coal.		MG	
						89.57	0.85	CONCRETE.		CONC	
						89.42	1.00	MADE GROUND: Gravelly orange brown medium and coarse SAND. Gravel is fine and medium angular of sandstone.		MG	
1.00-1.45	D (S)	2,2,2 3,2,2 N=9.				89.22	1.20	MADE GROUND: Firm locally soft grey sandy slightly gravelly CLAY. Gravel is fine and medium of brick and various lithologies.		MG	
1.00-1.20	ES (S)	2,2,2 3,2,2 N=9.	1			89.02	1.40	MADE GROUND: Loose sandy fine and medium GRAVEL with a slight hydrocarbon odour. Gravel is brick and various lithologies.		SUPD	
1.40-1.60	ES		0				(0.60)	Firm dark brown sandy organic CLAY (POSSIBLE RELICT TOPSOIL). Firm medium strength brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00-2.45	D (S)	1,2,1 1,1,1 N=4.				88.42	2.00	Loose slightly clayey orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(0.50)				
						87.92	2.50	2.40 - 2.50 m bgl; becoming clayey sand.		GDU	
							(0.90)				
3.00-3.45	D (S)	2,2,3 3,4,5 N=15.				87.02	3.40	Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(0.90)				
4.00	(S)	2,3,4 4,5,6 N=19.				86.12	4.30	Stiff locally firm medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(0.60)				
						85.52	4.90	Medium dense orangish brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
5.00-5.45	D (S)	2,2,3 2,3,2 N=10.				84.97	5.45	Firm medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.00			
						General Remarks Windowless sample hole complete at 5.45m bgl. Slight hydrocarbon odour noted 1.0m to 1.2m bgl. No radiological readings above background recorded. Groundwater encountered at 2.0m bgl. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS126

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389391.800 N 382514.520	Ground Level (m AOD) 90.270
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.25	ES						90.12	0.15	MADE GROUND: ASPHALT.		TARMAC	
							89.77	0.50	MADE GROUND: Dark brown mottled black slightly clayey gravelly SAND with occasional fragments of metal. Gravel is fine to coarse very angular to rounded of brick and various lithologies.		GMG	
1.00	D (C)	Sw,Sw,0 1.0,1 N=2.						(1.70)	Very soft reddish brown slightly sandy CLAY. (PROBABLE MADE GROUND)		CMG	
2.00	D (C)	1.1,2 2.3,7 N=14.				↓	88.07	2.20	Firm dark grey slightly sandy gravelly CLAY. Gravel is fine to coarse angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.20	ES							(1.20)				
3.00	D (S)	2.3,3 4.4,4 N=15.		60			86.87	3.40	Firm high strength light reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	D (S)	2.3,3 3.5,5 N=16.		98			86.17	4.10	Stiff locally firm dark reddish brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
5.00	(S)	6.5,6 6.6,7 N=25.					85.27	5.00	m bgl; window sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.20			
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.2m bgl. Hole installed upon completion. Response zone 1.0 to 5m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS127

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389434.780 N 382543.730	Ground Level (m AOD) 90.410
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							90.01	0.40	CONCRETE.		CONC	
									0.40 m bgl; windowless sample hole refused			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole unable to be drilled due to unable to penetrate Made Ground below concrete core. Location could not be moved due to services in area.											

Scale 1:37.5 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS128

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389444.710 N 382538.380	Ground Level (m AOD) 90.380
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10			0				90.13	0.25	MADE GROUND: ASPHALT.		TARMAC	
							89.78	(0.35) 0.60	MADE GROUND: Dark brown mottled black sandy fine to coarse angular to subrounded GRAVEL of predominantly sandstone.		GMG	
0.70			0					(0.75)	MADE GROUND: Light orangish white sandy GRAVEL with occasional cobbles. Gravel is fine to coarse subrounded to rounded of predominantly sandstone.		GMG	
1.00	(C)	9,7,8 5,3,2 N=18.					89.03	1.35				
1.35	ES		0				88.93	1.45	MADE GROUND: Black sandy fine angular to subrounded GRAVEL of brick and various lithologies.		GMG	
1.50	ES		0									
2.00	D (S)	2,1,2 3,3,3 N=11.	0	62					Firm and stiff reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium very angular subrounded of various lithologies. (GLACIAL DEPOSITS)			
3.00	(C)	3,3,3 4,4,6 N=17.		100				(3.55)			GDU	
4.00	D (S)	2,3,4 6,9,9 N=28.	0	140+								
				78			85.38	5.00	5.0m bgl; window sample hole complete			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.30			
General Remarks Windowless sample hole complete at 5.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.5 to 5.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS129

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389543.940 N 382625.480	Ground Level (m AOD) 90.730
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10			0				90.53	0.20	MADE GROUND: ASPHALT.		TARMAC	
							90.23	(0.30) 0.50	MADE GROUND: Light grey sandy GRAVEL. Gravel is fine and medium subangular to rounded of predominantly limestone.		GMG	
0.50	ES		0				90.08	0.65	Medium dense orangish brown medium SAND. (GLACIAL DEPOSITS)		GDU	
0.80	ES								Stiff medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to well rounded of various lithologies. (GLACIAL DEPOSITS)			
1.00	D (S)	1,1,1 1,1,1 N=4.										
2.00	D (S)	1,2,1 2,2,3 N=8.		68								
3.00	(S)	3,3,3 3,4,5 N=15.		50				(4.35)			GDU	
4.00	D (S)	1,2,2 3,3,5 N=13.										
5.00	(S)	4,5,6 7,7,10 N=30.					85.73	5.00	5.0m bgl; window sample hole complete			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.80m bgl. Hole installed. Response zone 1.0 to 5.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS130

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389633.360 N 382620.340	Ground Level (m AOD) 92.060
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	.						(0.37)	Dark brown slightly gravelly silty fine SAND with rootlets (TOPSOIL)		TS	
0.40		.	0				91.69	0.37	Light whitish orangish brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
1.00	D (S)	1,2,3 3,5,5 N=16.	0	132					Firm to stiff high strength reddish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine and medium angular to rounded of sandstone, mudstone and various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	4,4,5 6,5,6 N=22.	0	80				(2.20)			GDU	
3.00	D (C)	3,3,4 5,4,5 N=18.					88.96	3.10			GDU	
3.50		.	0						Medium dense light reddish brown fine to coarse SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	4,4,4 4,6,5 N=19.						(1.90)			GDU	
4.80	ES	.										
5.00	(C)	4,4,5 3,6,6 N=20.					87.06	5.00	5.0m bgl: Windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS131

Project
Woodford Aerodrome

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1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389736.550 N 382506.760	Ground Level (m AOD) 89.740
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50			0	130		89.66	0.08	MADE GROUND: Brown slightly clayey slightly gravelly SAND with rootlets. Gravel is fine angular to rounded of various lithologies. (TOPSOIL)		TS		
						89.59	0.15	MADE GROUND: Black gravelly SAND. Gravel is fine very angular of predominantly coal.		GDU		
1.00	(C)	3,5,6 6,5,6 N=23.	0	130		89.29	0.45	Firm dark brown CLAY. (GLACIAL DEPOSITS)		GDU		
							(0.75)	Medium dense brownish orange SAND. (GLACIAL DEPOSITS)		GDU		
2.00	D (C)	1,1,2 3,5,6 N=16.	0	130		88.54	1.20	Medium dense light yellowish brown SAND. (GLACIAL DEPOSITS)		GDU		
							(1.60)					
3.00	ES	3,4,3 3,2,3 N=11.	0	130		86.94	2.80	Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
							(2.20)					
4.00	D (C)	2,3,2 3,3,3 N=11.	0	130		84.74	5.00	5.0m bgl; Window sample hole complete				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.80			
General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.8m bgl. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS132

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389422.910 N 382347.770	Ground Level (m AOD) 87.450
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	.	0				87.22	0.23	MADE GROUND: Dark brown slightly gravelly slightly clayey SAND with rootlets. Gravel is fine and medium very angular to rounded of various lithologies. (TOPSOIL)		GMG	
				46			86.90	0.55	MADE GROUND: Firm brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium very angular to rounded of brick, coal and various lithologies.		CMG	
0.60	ES	.	0	28				(0.32)	MADE GROUND: Soft and firm light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium very angular to rounded of coal, brick and various lithologies.		CMG	
1.00	D (S)	1,1,1 2,1,2 N=6.	0				86.10	1.35				
				98					Firm to stiff high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine very angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D (C)	2,2,3 4,4,7 N=18.		122				(1.55)				
				130			84.55	2.90				
3.00	D (C)	2,2,3 3,4,4 N=14.							Medium dense light orangish brown coarse SAND and fine and medium GRAVEL of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.30	ES	.	0				83.70	3.75				
									Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	3,3,3 4,5,5 N=17.						(1.25)				
							82.45	5.00	5.0 mbgl: Windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. No groundwater encountered. Windowless Sample Hole installed upon completion. Response zone 1.50 to 5.00m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389405.110 N 382314.600	Ground Level (m AOD) 87.530
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.55	ES	.	0	65			87.32	0.21	MADE GROUND: CONCRETE.		CONC	
							87.03	0.50	MADE GROUND: Yellowish brown very sandy fine and medium very angular to well rounded GRAVEL of predominantly sandstone (SUBBASE).		GMG	
1.00	D (S)	1,1,1 1,1,1 N=4.	0			↓	86.33	1.20	MADE GROUND: Dark brown mottled black slightly sandy gravelly CLAY. Gravel is fine and medium very angular to subrounded of brick, mudstone, sandstone and various lithologies.		CMG	
1.40	ES	.	0	30					Soft greyish brown slightly sandy slightly gravelly CLAY with occasional organic material. Gravel is fine and medium very angular to subrounded of various lithologies. (SUPERFICIAL DEPOSITS)			
2.00	D (S)	Sw, Sw, 0 1,1,1 N=3.	0	20				(2.50)			SUPD	
3.00	D (S)	1,1,1 1,2,1 N=5.	0	75			83.83	3.70	Medium dense light orangish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.50	(C)	3,4,5 7,7,9 N=28.					83.03	4.50	4.5m bgl; Windowless sample hole refusal			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.20			
						General Remarks Windowless sample hole complete at 4.50m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. No groundwater strike encountered, seepage and wet clay encountered at 1.2m bgl. Windowless sample hole not installed.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Job No
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Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389956.270 N 381557.400	Ground Level (m AOD) 82.980
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.80	ES		102				82.83	0.15	MADE GROUND: CONCRETE.		GMG	
1.00	D (C)	Sw,Sw 1,1,1 N=4.		50			82.33	0.65	MADE GROUND: Light greyish yellowish brown slightly clayey sandy GRAVEL. Gravel is fine to coarse very angular to subrounded of predominantly limestone		GMG	
2.00	D (C)	2,3 3,3,2 N=9.		52			81.98	1.00	MADE GROUND: Black slightly clayey slightly sandy fine and course, very angular to rounded GRAVEL of ash, asphalt, slag and clinker. 0.70 m bgl; Strong hydrocarbon odour.		GMG	
2.10	ES								Firm to stiff medium strength greyish brown slightly gravelly slightly sandy CLAY.		ALV	
3.00	(C)	1,2 2,3,4 N=14.					80.88	2.10	Medium dense reddish brown slightly clayey SAND		ALV	
4.00	(C)	3,3 3,4,5 N=19.							2.50 m bgl; relict organic matter.			
5.00	(C)	4,4 5,4,5 N=20.					77.98	5.00	2.90 - 3.10 Band of sand and fine and medium, subrounded to well rounded gravel of various lithologies.		ALV	
									5.0m bgl; Windowless sample hole complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.10			
General Remarks Windowless sample hole complete at 5.00m bgl. Olfactory evidence of hydrocarbon contamination observed at 0.65m to 1m bgl. No radiological readings above background recorded. Groundwater encountered at 2.1m bgl. Hole installed upon completion. Response zone from 1.5m to 4m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Hole No.
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Job No
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Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389963.560 N 381525.670	Ground Level (m AOD) 82.910
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
							82.72	0.19	MADE GROUND: ASPHALT.		CONC	
							(0.36)	MADE GROUND: Light brown slightly clayey sandy GRAVEL. Gravel is fine and medium subangular to rounded of various lithologies.		GMG		
						82.36	0.55	MADE GROUND: Black slightly gravelly slightly sandy CLAY with frequent ash. Gravel is fine very angular to subrounded of various lithologies. 0.60 m bgl; Strong hydrocarbon odour and sheen.		GMG		
1.00	D (C)	Sw,Sw,Sw 1,0,0 N=0.					(0.95)					
1.30	ES	.	125	24								
1.60	ES	.		65		81.41	1.50	Firm locally soft dark grey slightly sandy slightly gravelly CLAY with occasional organic matter. (SUPERFICIAL DEPOSITS)		SUPD		
2.00	D (C)	1,1,1 1,2,1 N=5.	1				(1.00)	Soft brown slightly sandy CLAY with organic matter. (SUPERFICIAL DEPOSITS)		SUPD		
3.00	(C)	1,0,1 0,1,1 N=3.				80.01	2.90	Loose becoming medium dense brown coarse SAND and fine and medium well rounded GRAVEL of various lithologies. (GLACIAL DEPOSITS)		GDU		
4.00	(C)	2,2,2 2,3,2 N=9.					(2.10)					
4.50	ES	.	0									
5.00	(C)	2,3,2 3,4,4 N=13.				77.91	5.00	Windowless sample hole complete at 5.0m bgl.				

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
						General Remarks Windowless sample hole complete at 5.00m bgl. Strong olfactory evidence of hydrocarbon contamination observed from 0.55m to 2m bgl. No radiological readings above background recorded. Groundwater encountered at 3m bgl. Hole installed upon completion. Response zone from 3.0 to 4.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

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Job No
70004430

Client
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Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389802.500 N 381552.720	Ground Level (m AOD) 82.900
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.30	ES					82.85	0.05	MADE GROUND: ASPHALT.		TARMAC		
							(0.45)	MADE GROUND: Reinforced CONCRETE.		CONC		
0.50-0.60	ES					82.40	0.50	MADE GROUND: Black sandy fine and medium angular GRAVEL of ash and clinker.		MG GDU		
						82.30	0.60					
0.70-0.80	ES					82.20	0.70	Soft medium strength dark greenish grey sandy CLAY. (GLACIAL DEPOSITS)		GDU		
1.00	(S)	1,0,1 1,1,1 N=4.					(0.90)					Loose orange brown and greenish grey slightly clayey silty fine SAND. (GLACIAL DEPOSITS)
						81.30	1.60	Firm red brown sandy CLAY. (GLACIAL DEPOSITS)		GDU		
						81.20	1.70					
						81.10	1.80	Red brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU		
2.00-2.45	D (S)	1,0,1 1,1,1 N=4.						Soft and firm low strength brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium, subrounded to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
								2.80 m bgl; becoming high strength		GDU		
3.00-3.45	D (S)	2,3,3 4,3,4 N=14.					(2.65)	3.45 - 3.46 m bgl; lense of coarse sand				
4.00-4.45	D (S)	3,4,4 4,5,5 N=18.						Window sample terminated at 4.45m bgl		GDU		
						78.45	4.45					

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.80			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.80m bgl. Hole installed upon completion. Response zone 1-4m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389873.280 N 381403.440	Ground Level (m AOD) 82.360
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.15	ES					82.21	0.15	MADE GROUND: CONCRETE		CONC		
						82.14	0.22	MADE GROUND: Reddish brown very gravelly sandy CLAY. Gravel is fine to coarse very angular to subrounded of predominantly brick and coal.		GMG		
				84				Firm to stiff medium strength reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.00	D (C)	2,1,2 1,2,2 N=7.		98			(1.43)	1.20 m bgl; Cobble of subrounded sandstone.		GDU		
				60						GDU		
				48		80.71	1.65	Brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
							(0.30)	Firm to stiff medium strength reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
2.00	D (S)	2,2,3 1,2,2 N=8.				80.41	1.95	Loose reddish brown fine to coarse SAND. (GLACIAL DEPOSITS)		GDU		
2.60	ES									GDU		
3.00	(C)	1,2,1 0,1,1 N=3.					(2.05)			GDU		
						78.36	4.00	4.00 4.0m bgl; Windowless sample hole complete at 4.00m bgl.				

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
General Remarks Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater seepage encountered at 3.0m bgl. Hole installed upon completion. Response zone from 1.0 to 4.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389926.820 N 381372.650	Ground Level (m AOD) 82.200
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.30	ES	.					82.14	0.06	MADE GROUND: ASPHALT.		TARMA	
0.10-0.30								(0.59)	MADE GROUND: Dark grey brown and black sandy GRAVEL with fragments of ash. Gravel is fine to coarse angular of clinker, limestone and sandstone.		MG	
0.70-0.90	ES	.		58			81.55	0.65	Firm locally soft medium strength dark greenish grey to greenish brown CLAY. (SUPERFICIAL DEPOSITS)			
1.00-1.45	D (S)	1,1,2 2,3,4 N=11.		60			80.70	1.50	Loose brown medium to coarse SAND. (SUPERFICIAL DEPOSITS)		SUPD	
2.00-2.45	D (S)	0,0,1 0,1,0 N=2.		32			79.80	2.40	Soft low strength reddish brown very sandy CLAY. (GLACIAL DEPOSITS) 2.50 m bgl; becoming medium strength		GDU	
3.00-3.45	D (S)	1,1,2 2,2,2 N=8.					78.75	3.45	Windowless sample hole complete at 3.45m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.80			
						General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.80m bgl. Hole backfilled upon completion.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389801.800 N 381340.020	Ground Level (m AOD) 82.130
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES		0			81.93	0.20	MADE GROUND: ASPHALT.		TARMAO	
						81.68	0.45	MADE GROUND: Loose black sandy GRAVEL with frequent ash. Gravel is fine and medium angular to subrounded of asphalt and various lithologies.		GMG	
						81.58	0.55	MADE GROUND: Cobble of brick.		GMG	
1.00	(S)	2,3,4 2,3,3 N=12.				(0.45)		Firm brown gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies.		GDU	
						81.13	1.00	Loose whitish brown fine and medium SAND.		GDU	
1.70	ES		0			80.53	1.60	Loose grey fine to coarse gravelly SAND. Gravel is fine subrounded to well rounded of various lithologies. Blowing conditions.		GDU	
2.00	(S)	1,1,1 2,1,2 N=6.				(0.60)					
3.00	(S)	1,2,2 3,3,4 N=12.				(3.40)		3.00 m bgl; becoming medium dense.		GDU	
4.00	(S)										
5.00	(S)					77.13	5.00	Windowless sample hole complete at 5.00m bgl.			



08 WSP WINDOW SAMPLE LOG - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.60			
						General Remarks Windowless sample hole complete at 5.00m bgl. No olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.6m bgl. Unable to install windowless sample hole due to blowing conditions.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

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Job No
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Client
Harrow Estates Plc

Date
**30-07-14
30-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389852.330 N 381250.200	Ground Level (m AOD) 82.440
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10	ES						82.39	0.05	MADE GROUND: Dark grey mottled black fine and medium very angular to subrounded GRAVEL of asphalt.		GMG	
								(0.40)	MADE GROUND: Light grey sandy GRAVEL. Gravel is fine to coarse angular to rounded of predominantly limestone (SUBBASE).		GMG	
							81.99	0.45	MADE GROUND: Dark brown mottled black clayey SAND.		GMG	
0.60	ES							(0.75)	0.45 - 1.20 m bgl m bgl; Hydrocarbon Odour		GMG	
1.00	(C)	Sw,Sw,Sw Sw,1,0 N=0.					81.24	1.20			GMG	
								(0.90)	Very soft and firm brown mottled yellow brown and black slightly gravelly sandy CLAY. Gravel is fine to coarse subangular to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
2.00	D (C)	3,2,3 3,2,2 N=10.					80.34	2.10	Firm locally stiff reddish brown sandy gravelly CLAY. (GLACIAL DEPOSITS)			
									2.40 - 2.60 m bgl; band of sand			
2.60	ES			110					2.90 - 3.00 m bgl; Cobble of sandstone			
3.00	D (S)	3,2,4 3,5,5 N=17.						(2.90)			GDU	
4.00	D (S)	5,5,6 7,8,10 N=31.		70								
							77.44	5.00	Windowless sample hole complete at 5.00m bgl.			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
Scale 1:37.5						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					

General Remarks
Window sample complete at 5.00m bgl.
Strong olfactory evidence of hydrocarbon contamination observed from 0.45m to 2.0 m bgl.
No radiological readings above background recorded.
Groundwater not encountered.
Hole installed upon completion. Response zone 2.0 to 5.0m bgl.



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Job No
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Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389827.320 N 381259.670	Ground Level (m AOD) 82.590
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							82.54	0.05	MADE GROUND: Dark grey mottled black fine and medium GRAVEL of asphalt.		GMG	
						82.39	0.20				GMG	
								(0.35)	MADE GROUND: Light greyish brown gravelly SAND. Gravel is fine to coarse angular to rounded of predominantly sandstone (SUBBASE).		GMG	
						82.04	0.55					
0.80	ES							(0.65)	MADE GROUND: Black slightly clayey gravelly SAND with frequent ash. Gravel is fine and medium very angular to subrounded of mudstone, coal and various lithologies.		SUPD	
1.00	(C)	1,2,1 2,1,3 N=7.					81.39	1.20				
									Firm brown slightly gravelly sandy CLAY with rootlets. Gravel is fine and medium very angular to subrounded of coal, sandstone and various lithologies. (SUPERFICIAL DEPOSITS)		GDU	
2.00	(S)	4,3,4 4,5,5 N=18.						(2.70)				
									Firm and stiff reddish brown gravelly CLAY. Gravel is fine and medium angular well rounded of various lithologies. (GLACIAL DEPOSITS) - slightly organic or sulphurous odour 1.40 - 1.50 m bgl; bands of sand and gravel		GDU	
3.00	(S)	4,5,4 7,8,8 N=27.										
									Medium dense reddish brown clayey gravelly fine to coarse SAND. Gravel is fine subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	3,4,4 5,7,8 N=24.					78.69	3.90				
4.70	ES							(1.10)				
5.00	(S)	4,4,4 3,4,2 N=13.					77.59	5.00	Windowless sample hole complete at 5.00m bgl.			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.20			
Scale 1:37.5						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					

General Remarks
 Windowless sample hole complete at 5.00m bgl.
 Slightly organic or sulphurous odour 0.55-1.2m bgl.
 No radiological readings above background recorded.
 Groundwater encountered at 4.2m bgl.
 Windowless sample hole installed upon completion. Response zone from 1.0 to 5.0m bgl.



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WINDOW SAMPLE LOG

Hole No.
WS143

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389730.140 N 381410.720	Ground Level (m AOD) 82.410
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.40-0.50	ES						82.36	0.05	MADE GROUND: ASPHALT		TARMA	
							82.22	0.19	MADE GORUND: CONCRETE		CONC	
							82.16	0.25	MADE GROUND: Reddish brown sandy fine to coarse angular GRAVEL of broken brick.		GMG	
							82.01	0.40	MADE GROUND: Firm brown sandy CLAY.		GMG	
							81.81	0.60	MADE GROUND: Dark brown silty clayey fine SAND.		GMG	
1.00-1.45	D (S)	1,1,1 0,1,1 N=3.					81.71	0.70	MADE GROUND: Brown slightly clayey medium SAND.		GMG	
							(0.50)	MADE GROUND: Soft brown mottled grey sandy CLAY.		CMG		
2.00-2.45	D (S)	1,2,1 2,2,1 N=6.					81.21	1.20	Loose reddish brown clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(1.10)					
3.00-3.45	D (S)	1,1,3 4,4,5 N=16.					80.11	2.30	Firm low and medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded. of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(1.15)					
							78.96	3.45	Window sample terminated at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.30			
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.3m bgl. Hole backfilled upon completion.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389661.190 N 381327.200	Ground Level (m AOD) 82.040
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30			0				81.79	0.25	MADE GROUND: ASPHALT.		GMG	
1.00	D (C)	6,10,8 7,7,6 N=28.					(1.25)		MADE GROUND: Medium dense light grey very gravelly SAND. Gravel is fine and medium angular to rounded of predominantly limestone		GMG	
2.00	(C)	2,2,1 1,1,2 N=5.	0				80.54	1.50	MADE GROUND: Light greyish red very sandy GRAVEL with occasional cobbles. Gravel is fine to medium subangular to subrounded of predominantly brick and limestone. Slight hydrocarbon odour at 2.6m bgl.		GMG	
2.70	ES						79.44	2.60	MADE GROUND: Brown mottled black very gravelly sandy CLAY. Gravel is fine to coarse subangular to rounded of brick and various lithologies.		GMG	
3.20	ES	2,1,1 0,3,4 N=8.		20			78.94	3.10	Soft very low and low strength reddish brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
4.00	D (C)	1,1,2 2,4,4 N=12.					78.39	3.65	Medium dense dark brown mottled black fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	1,2,1 2,4,5 N=12.		130			77.54	4.50	Stiff high strength brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							77.04	5.00	5.0m bgl; Windowless sample hole complete at 5.0m bgl.			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 5.00m bgl. Slight hydrocarbon odour encountered at 2.60m bgl. No radiological readings above background recorded. Groundwater encountered at 3.1m bgl. Hole installed upon completion. Response zone from 3.0 to 5.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS145

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389688.380 N 381303.740	Ground Level (m AOD) 81.970
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES		0	56		81.92	0.05	MADE GROUND: Loose GRAVEL of asphalt.		TARMAC	
						81.77	0.20	MADE GROUND: Light grey medium very angular GRAVEL of predominantly limestone		GMG	
						81.52	0.45	MADE GROUND: Black gravelly SAND with abundant ash. Gravel is fine and medium very angular to subangular of predominantly burnt shale and coal.		GMG	
1.00	(S)	0,1,1 0,1,1 N=3.		25		(0.75)		MADE GROUND: Firm dark greyish brown slightly sandy gravelly CLAY. Gravel is fine to coarse very angular to subrounded of sandstone, brick and various lithologies.		CMG	
						80.77	1.20	Soft greyish brown slightly sandy gravelly CLAY with occasional organic matter. Gravel is fine and medium subangular to rounded of various lithologies. (SUPERFICIAL DEPOSITS)			
2.00	D (S)	1,1,1 1,1,1 N=4.		26		(2.70)				SUPD	
3.00	D (C)	Sw,1,1 1,1,1 N=4.									
3.40	ES		0	10				3.45 m bgl; organic matter. 3.65 m bgl; wood fragment.			
4.00	(C)	2,2,1 0,1,3 N=5.		20		78.07	3.90	Loose brown slightly gravelly coarse SAND. Gravel is fine and medium subangular to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
						77.50	4.47	Soft very low strength very soft brownish grey slightly sandy gravelly CLAY with occasional relict organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
5.00	(C)	2,3,4 5,6,7 N=22.				76.97	5.00	5.00 5.0m bgl; Windowless sample hole complete at 5.00m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.20 3.90			
Scale 1:37.5						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. Damp at 2.1m, wet at 3.9m bgl. Window Sample Hole installed upon completion. Response zone 1.50 to 5.00m bgl.					
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.											



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389724.130 N 381303.430	Ground Level (m AOD) 82.180
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES						82.08	0.10	MADE GROUND: ASPHALT.		TARMAC	
								(0.60)	MADE GROUND: Black sandy fine and medium angular to subrounded GRAVEL of predominantly asphalt and brick with occasional cobbles of brick.		GMG	
							81.48	0.70	MADE GROUND: Dark greyish brown mottled black slightly sandy CLAY with occasional organic matter.		CMG	
1.00	D (C)	1,1,1 0,1,2 N=4.					80.78	1.40	Brown slightly gravelly coarse SAND. Gravel is fine to coarse subrounded to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
							80.28	1.90	Soft locally firm brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
2.00	D (S)	1,1,0 1,1,0 N=2.					79.88	2.30	Soft to firm dark brownish grey slightly sandy silty CLAY with organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
							79.18	3.00	Loose brown clayey sandy fine and medium, subrounded to well rounded GRAVEL. Gravel is fine and medium subrounded to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
3.00	(C)	Sw,1,0 0,1,0 N=1.					78.73	3.45	Medium dense brown slightly gravelly sandy CLAY. Gravel is fine and medium subangular to well rounded subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.20	ES											
4.00	D (C)	2,2,3 2,4,5 N=14.						(1.55)				
5.00	(C)	2,4,5 6,6,6 N=23.					77.18	5.00	Windowless sample hole complete at 5.0m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
						General Remarks Window Sample complete at 5.00m bgl. No olfactory evidence of hydrocarbon contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.0m bgl. Hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389562.640 N 381465.600	Ground Level (m AOD) 86.560
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.25	ES		0			86.41	0.15	MADE GROUND: ASPHALT.		TARMAC	
						86.26	0.30	MADE GROUND: Black slightly gravelly SAND with frequent ash. Gravel is fine and medium angular to subrounded of various lithologies.			
						86.16	0.40				
1.00	(C)	2,2,2 2,2,3 N=9.					(0.80)	MADE GROUND: Light grey cobble of sandstone. Loose orange fine SAND. (GLACIAL DEPOSITS)		GDU	
						85.36	1.20	Loose light whitish orange medium SAND. (GLACIAL DEPOSITS)			
2.00	D (C)	1,2,2 2,2,2 N=8.					(1.20)	Loose brownish grey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
						84.16	2.40				
3.00	D (C)	1,2,1 2,2,2 N=7.					(0.90)	Medium dense reddish brown medium and coarse SAND. (GLACIAL DEPOSITS). Blowing conditions.		GDU	
						83.26	3.30				
4.00	D (C)	5,6,6 4,5,11 N=26.					(1.70)	5.00 Windowless sample hole complete at 5.00m bgl.		GDU	
4.50	(C)	9,11,13 12,12,12 N=49.				81.56	5.00				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. Groundwater encountered at approximately 3.10m bgl. Unable to install windowless sample hole due to blowing conditions.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389508.660 N 381512.410	Ground Level (m AOD) 87.040
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							86.84	0.20	MADE GROUND: ASPHALT.		TARMAC	
							86.54	0.30	MADE GROUND: Light grey sandy fine to coarse, very angular to subrounded GRAVEL of predominantly limestone		GMG	
							86.44	0.50				
							86.44	0.60	MADE GROUND: Dark brown slightly gravelly sandy CLAY. Gravel is fine and medium very angular to rounded of various lithologies. Loose grey fine and medium SAND. (GLACIAL DEPOSITS)		CMG	
0.80			0									
1.00	(C)	1,1,1 1,1,1 N=4.					85.74	1.30	Soft reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.40	ES		0									
1.50											GDU	
2.00	D (S)	1,1,1 3,3,4 N=11.						(1.40)				
							84.34	2.70	Medium dense light orangish reddish brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
3.00	D (C)	4,6,6 7,7,11 N=31.	0					(1.15)			GDU	
4.00	D (C)	3,4,4 3,3,3 N=13.					83.19	3.85	Medium dense yellowish greenish brown mottled dark red and black slightly clayey SAND. (GLACIAL DEPOSITS)		GDU	
4.20	ES							(0.70)			GDU	
							82.49	4.55	Medium dense whitish reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
								(0.45)			GDU	
5.00	(C)	3,4,5 5,5,6 N=21.					82.04	5.00				
									5.00 5.0m bgl; Windowless sample hole complete at 5.00m bgl.			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.70			
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater strike encountered, seepage and wet strata from approximately 0.60m bgl. Hole installed to 5.00m bgl. Response zone from 1.0 to 5.0m bgl					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS149

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389778.530 N 381337.140	Ground Level (m AOD) 82.390
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50			0				82.14	0.25	MADE GROUND: CONCRETE.		CONC	
							81.99	0.40	MADE GROUND: Fine and medium dark grey mottled black GRAVEL of asphalt		GMG	
							81.74	0.65	Soft to firm dark brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.00	D (S)	3,3,2 2,6,4 N=14.										
1.40	ES		1				(1.55)		1.40 - 1.60 m bgl; Slight hydrocarbon odour at 1.4m to 1.6m.		GDU	
2.00	D (S)	3,4,3 4,4,5 N=16.					80.19	2.20	Medium dense light reddish brown medium SAND. (GLACIAL DEPOSITS)			
3.00	D (S)	3,2,5 4,6,7 N=22.						(2.80)				
3.90	ES											
4.00	D (S)	3,4,5 5,6,6 N=22.										
5.00	(S)	3,3,4 3,4,5 N=16.					77.39	5.00	Windowless sample hole complete at 5.0m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.20			
General Remarks Window Sample complete at 5.00m bgl. Olfactory evidence of hydrocarbon contamination observed at 1.4m to 1.6m. No radiological readings above background recorded. Groundwater seepage at 2.2m bgl. Hole backfilled upon completion.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389594.760 N 382472.200	Ground Level (m AOD) 91.970
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.50	ES			86			91.77	0.20	MADE GROUND: Grass over brown SILT with many rootlets. (TOPSOIL)		CMG	
							91.72	0.25	(MADE GROUND) Stiff brown CLAY		MG	
							91.61	0.36	Grass over brown slightly clayey SILT with abundant rootlets. (POSSIBLE RELICT TOPSOIL)		GDU	
1.00	ES (S)	2,2,3 2,3,3 N=11.		66			(0.54)		Firm to stiff brown speckled black slightly silty slightly gravelly clay with rootlets. Occasional grey mottling in places and rare sandy partings. (GLACIAL DEPOSITS)		GDU	
							91.07	0.90	Stiff medium strength brown CLAY with rare light grey mottling and rare black smearing. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	2,3,3 4,5,4 N=16.		76			(1.70)		1.50 m bgl; becoming stiff high strength		GDU	
							102					
3.00	(S)	3,4,4 5,5,6 N=20.		114			89.37	2.60	Medium dense light brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
							108					
4.00	(S)	4,4,5 5,6,6 N=22.		114			62				GDU	
							87.97	4.00	4.00 Windowless sample complete at 4m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion. NOTE: WS153 NOT COMPLETED</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS151

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389535.000 N 382420.560	Ground Level (m AOD) 88.530
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES			82		88.33	0.20	MADE GROUND: Grass over brown slightly clayey SILT with abundant rootlets. Rare subrounded fine gravel (TOPSOIL)		CMG	
						88.18	0.35	MADE GROUND: Firm brown slightly sandy CLAY with abundant rootlets and rare sandy pockets (<20mm)		CMG	
1.00	(S)	0,0,0 0,1,0 N=1.		20 30 16		87.83	0.70	MADE GROUND: Firm to stiff high strength brown CLAY		CMG	
						87.43	1.10	MADE GROUND: Pinkish grey very sandy angular fine to coarse GRAVEL of limestone		GMG	
1.50	ES			36 26		87.13	1.40	MADE GROUND: Soft low strength brown mottled grey CLAY with rare angular fine gravel.		CMG	
						86.53	2.00	Soft low strength dark grey organic CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
2.00	(S)	1,1,1 1,1,1 N=4.		21 32		86.13	2.40	Loose light brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
						85.70	2.83	Soft locally firm low strength brown CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	2,3,3 3,3,4 N=13.				84.88	3.65	Medium dense light brown fine SAND. (GLACIAL DEPOSITS)		GDU	
						84.08	4.45	Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	3,3,4 4,3,4 N=15.				84.08	4.45	Windowless sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.90			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.9m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS152

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389467.210 N 382186.550	Ground Level (m AOD) 87.060
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50	ES					86.86	0.20	MADE GROUND: Grass over brown slightly sandy CLAY with many rootlets. (TOPSOIL)		CMG		
						86.71	0.35	MADE GROUND: Brown slightly sandy slightly gravelly CLAY. Gravel is coarse angular of brick.		GMG		
							(0.55)	MADE GROUND: Stiff brown slightly gravelly CLAY. Gravel is angular medium to coarse limestone and subrounded fine various lithologies.		MG		
1.00	ES (S)	1,1,1 1,1,1 N=4.		82 74								
2.00	(S)	2,3,3 4,4,4 N=15.		98 114			(1.70)	Stiff medium to high strength brown mottled grey slightly sandy slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU		
3.00	(S)	1,1,1 1,2,2 N=6.		122 70			84.46	2.60 3.00 - 4.00 No Recovery				
							83.06	4.00				
4.00 Window sample complete at 4.0m bgl												

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.0m bgl. Hole installed upon completion. Response zone 1.0 to 3.0m bgl.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS154

Project
Woodford Aerodrome

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1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389691.010 N 382276.050	Ground Level (m AOD) 87.210
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES		0				86.81	0.40	Grass over brown gravelly fine SAND with rootlets. Gravel is fine and medium subangular to rounded of various lithologies. (TOPSOIL)		TS	
0.60	ES		0						Medium dense orange and light brown fine and medium SAND. (GLACIAL DEPOSITS)			
1.00	(S)	3,3,4 4,5,5 N=18.						(2.10)			GDU	
2.00	D (S)	4,4,4 4,3,4 N=15.					84.71	2.50	1.80 m bgl; becoming grey 2.00 m bgl; becoming orange brown			
							84.51	2.70	Firm brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							84.41	2.80	Loose brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
3.00	D (S)	1,1,1 2,1,1 N=5.						(1.20)	Soft becoming firm brown slightly silty slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
									3.60 m bgl; becoming damp			
4.00	D (S)	2,2,2 3,3,4 N=12.					83.21	4.00	Window Sample complete at 4.0m bgl.			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.60			
General Remarks Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Slightly damp at 3.60m bgl. Hole installed upon completion. Response zone from 1.0 to 4.0m.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS155

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389723.890 N 382426.770	Ground Level (m AOD) 88.860
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES	.				88.66	0.20	MADE GROUND: Grass over brown gravelly fine SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies (TOPSOIL).		GMG	
0.40	ES	.				88.46	0.40	MADE GROUND: Light grey fine to coarse SAND and fine to coarse angular to subrounded GRAVEL of various lithologies.		GMG	
0.70	ES	.				88.16	0.70	MADE GROUND: Black fine and medium angular and subangular GRAVEL of ash.		GMG	
1.00	(S)	3,4,4 5,5,6 N=20.					(0.30)	Medium dense brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	4,4,5 6,6,6 N=23.				87.36	1.50	Medium dense brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
3.00	D (S)	2,2,2 1,2,2 N=7.					(2.50)	3.00 m bgl; loose		GDU	
4.00	(S)	3,4,4 5,6,6 N=21.				84.86	4.00	3.80 m bgl; medium dense		GDU	
								Window sample complete at 4.00m bgl.			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater encountered. Hole installed upon completion. Response zone 1.0 to 4.0m.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS156

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389899.160 N 382412.410	Ground Level (m AOD) 86.000
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30	ES						85.50	0.50	MADE GROUND: Grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse subangular to subrounded of various lithologies. (TOPSOIL)		GMG	
0.80	ES						85.30	0.70	Dark brown slightly gravelly clayey SAND with organic matter including rootlets. Gravel is fine to coarse angular to subrounded of various lithologies.		SUPD	
1.00	D (S)	2,1,1 1,2,1 N=5.					85.00	1.00	Light grey and brown fine to coarse SAND. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	1,0,1 1,1,1 N=4.					83.20	2.80	Firm locally soft light brown sandy CLAY. (GLACIAL DEPOSITS) 2.50 m bgl; becoming brown and grey		GDU	
3.00	D (S)	1,1,0 1,1,1 N=3.					82.00	4.00	Loose brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,2,1 2,2,2 N=7.							Window sample complete at 4.0m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
General Remarks Windowless sample hole complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.00m bgl. Hole installed upon completion. Reponse zone 1.0m to 4.0m.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS157

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 390029.450 N 382352.740	Ground Level (m AOD) 85.560
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES						85.36	0.20	MADE GROUND: Crops over brown slightly gravelly SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL)		GMG	
							85.06	0.50	MADE GROUND: Light grey and brown sandy fine to coarse angular GRAVEL of various lithologies.		GMG	
							84.96	0.60	MADE GROUND: Black angular fine and medium GRAVEL of ash.		GMG	
0.70	ES								Loose orange brown slightly gravelly fine and medium SAND. Gravel is fine to coarse rounded and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00	D (S)	1,1,1 1,2,1 N=5.						1.50 m bgl; gravel becoming coarse.				
2.00	D (S)	1,0,1 1,0,1 N=3.										
3.00	D (S)	1,2,1 1,1,1 N=4.							Soft brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
									Window sample complete at 3.0m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.50			
General Remarks Windowless sample hole complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.50m bgl. Hole backfilled upon completion.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS158

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**04-07-14
04-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389900.850 N 382540.590	Ground Level (m AOD) 87.410
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20-0.50	ES					87.21	0.20	MADE GROUND: Hay over brown silty clay with rootlets (TOPSOIL)		CMG		
						87.01	0.40	MADE GROUND: Brown fine and medium sand with rare brick fragments		GMG		
						86.91	0.50	MADE GROUND: Brown and light brown fine sand with rare angular fine and medium brick gravel		GMG		
0.50-0.90	ES					(0.40)		Firm brown CLAY (GLACIAL DEPOSITS)		ALV		
						86.51	0.90					
1.00-1.45	D (S)	2,2,1 1,0,1 N=3.				(0.50)		Light brown fine and medium SAND (GLACIAL DEPOSITS)		ALV		
						86.01	1.40					
						(0.30)		Firm reddish brown CLAY (GLACIAL DEPOSITS)		ALV		
2.00-2.45	D (S)	SW,SW,1 0,0,1 N=2.				(0.30)		Reddish brown slightly silty fine SAND. Becoming saturated (GLACIAL DEPOSITS)		ALV		
						85.41	2.00					
						(0.50)		Reddish brown sandy SILT (GLACIAL DEPOSITS)		ALV		
3.00-3.45	D (S)	SW,SW,1 0,0,0 N=1.				(0.40)		Reddish brown fine SAND with localised pockets of clay. (GLACIAL DEPOSITS)		ALV		
						84.51	2.90					
						84.31	3.10					
4.00-4.45	D (S)	1,2,1 2,2,2 N=7.				(0.50)		Reddish brown slightly silty fine SAND. (GLACIAL DEPOSITS)		ALV		
						83.81	3.60					
						83.61	3.80					
						(0.65)		Reddish brown fine occasionally medium SAND. (GLACIAL DEPOSITS)		ALV		
						82.96	4.45	Window sample complete at 4.45m bgl				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.70			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.70m bgl. Hole installed upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS159

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 390096.920 N 382459.160	Ground Level (m AOD) 85.940
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.30	ES	.				85.64	(0.30)	Brown sandy SILT with rootlets. (TOPSOIL)		GDU	
0.30-0.50	ES	.				85.44	0.30	Light grey sandy SILT. (GLACIAL DEPOSIT)		GDU	
1.00-1.45	D (S)	1,1,1 1,1,1 N=4.				84.04	(1.40)	Firm light brown mottled grey CLAY. (GLACIAL DEPOSIT)		GDU	
2.00-2.45	D (S)	1,0,0 1,0,0 N=1.				83.54	(0.50)	Light brown SILT. (GLACIAL DEPOSIT)		GDU	
3.00	(S)	1,0,1 0,1,0 N=2.				83.34	2.60	Brown and grey coarse SAND and fine subangular GRAVEL. (GLACIAL DEPOSIT)		GDU	
4.00-4.45	D (S)	1,2,2 3,2,2 N=9.				82.14	(1.20)	Soft to firm brown slightly silty CLAY. (GLACIAL DEPOSIT)		GDU	
						81.49	3.80	Brown fine and medium SAND. (GLACIAL DEPOSIT)		GDU	
							4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.90			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.90m bgl. Hole backfilled upon completion.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS160

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389843.200 N 382247.550	Ground Level (m AOD) 85.460
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10	ES	.					85.26	0.20	MADE GROUND: Crops over brown gravelly fine to coarse SAND. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL).		GMG	
							85.06	0.40	MADE GROUND: Orange brown gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded of various lithologies.		GMG	
							84.96	0.50	MADE GROUND: Black fine and medium angular GRAVEL of ash.		GMG	
0.50	ES	.					84.86	0.60	MADE GROUND: Brown and orange fine to coarse SAND.		GMG	
1.00	D (S)	1,0,1 0,1,1 N=3.						(0.90)	Soft brown and grey slightly gravelly sandy CLAY. Gravel is fine to coarse subangular to rounded of various lithologies. (GLACIAL DEPOSIT)		GDU	
1.01	ES	.						1.20 m bgl; no gravel				
							83.96	1.50	Loose brown and light grey slightly gravelly fine and medium SAND. Gravel is rounded and subrounded of various lithologies. (GLACIAL DEPOSIT).		GDU	
2.00	D (S)	2,2,2 2,1,1 N=6.					83.46	2.00	Loose reddish brown silty fine SAND (GLACIAL DEPOSIT).		GDU	
3.00	D (S)	1,1,1 0,1,0 N=2.						(2.00)	3.00 m bgl; becoming clayey.		GDU	
4.00	D (S)	1,1,1 1,1,1 N=4.					81.46	4.00	Window sample complete at 4.0m bgl.		GDU	

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater encountered. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS161

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389802.760 N 382140.400	Ground Level (m AOD) 85.400
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.30	ES					85.05	0.35	Hay over brown slightly clayey slightly gravelly fine SAND. Gravel is fine and medium rounded of various lithologies. (TOPSOIL)		TS	
						84.75	0.65	Orange brown medium and coarse SAND. (SUPERFICIAL DEPOSITS)		SUPD	
0.70-0.80	ES					84.50	0.90	Stiff dark reddish brown sandy slightly gravelly organic CLAY. Gravel is angular of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
1.00-1.45	D (S)	2,1,2 3,3,4 N=12.		50		84.30	1.10	Light brown medium to coarse SAND. (GLACIAL DEPOSITS)		GDU	
				70							
				78							
				110							
				106							
2.00-2.45	D (S)	2,2,2 2,2,2 N=8.				83.00	2.40	Stiff medium and high strength orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
						82.70	2.70	Reddish brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
3.00	(C)	1,1,1 0,1,2 N=4.					(0.90)	Soft reddish brown CLAY. (GLACIAL DEPOSITS)		GDU	
						81.80	3.60				
4.00	(C)	1,1,2 1,2,3 N=8.					(1.40)	Loose brown slightly fine SAND. (GLACIAL DEPOSITS)		GDU	
						80.40	5.00				
								Window sample complete at 5.0m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.40			
						General Remarks Window Sample complete at 5.0m bgl. No olfactory or visual evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.4m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS162

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389564.110 N 381982.630	Ground Level (m AOD) 85.990
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.20	ES	.				85.89	0.10	MADE GROUND: Grass over brown slightly sandy SILT with rootlets.		CMG	
						85.79	0.20	(TOPSOIL)		GMG	
0.35-0.95	ES	.				85.64	0.35	MADE GROUND: Dark grey gravelly ash. Gravel is fine angular of coal.		SUPD	
0.75-0.95	ES	.					(0.95)	Firm dark brown organic CLAY. (SUPERFICIAL DEPOSITS)		GDU	
1.00	(S)	1,0,1 0,1,0 N=2.						Very loose light brown fine SAND. (GLACIAL DEPOSIT)		GDU	
1.30-1.50	ES	.				84.69	1.30	Very soft to firm brown slightly gravelly CLAY with localised pockets of fine and medium sand (<10mm). Gravel is fine to coarse subrounded of limestone and sandstone. (GLACIAL DEPOSIT)		GDU	
2.00	(S)	1,0,0 1,0,0 N=1.					(1.80)			GDU	
3.00	(S)	1,2,1 2,1,2 N=6.				82.89	3.10	Loose silty fine SAND. Blowing conditions from 3.1m bgl. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,2,1 1,1,1 N=4.					(1.35)			GDU	
						81.54	4.45	Window sample complete at 4.45m bgl			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 4.0m.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS163

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389355.530 N 381969.190	Ground Level (m AOD) 86.160
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES			66		85.96	0.20	MADE GROUND: Brown silty slightly gravelly CLAY with occasional ash. Gravel is fine of coal. (TOPSOIL)		CMG	
0.50	ES			70		85.76	0.40	MADE GROUND: Firm and stiff brown silty slightly gravelly CLAY. Gravel is fine angular of brick.		MG	
1.00	(S)	1,2,2 2,3,3 N=10.		46 36			(0.60)	Firm medium strength grey slightly sandy CLAY (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,2,2 2,2,2 N=8.					(2.45)			GDU	
3.00	(S)	1,2,1 2,1,2 N=6.									
						82.71	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.00			
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.0m bgl. Hole backfilled upon completion.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389160.030 N 381965.380	Ground Level (m AOD) 85.410
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						85.21	0.20	MADE GROUND: Grass over brown slightly sandy clay with many rootlets. (TOPSOIL)		CMG	
						84.96	0.45	MADE GROUND: Grey very sandy fine to coarse angular GRAVEL of limestone.		MG	
0.60	ES							Firm low and medium strength grey very silty CLAY. (GLACIAL DEPOSITS)		GDU	
1.00	(S)	1,1,1 1,1,1 N=4.					(1.15)				
2.00	ES (S)	1,1,1 1,1,1 N=4.				83.81	1.60	Firm to stiff brown and light grey mottled CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,1,2 1,2,1 N=6.				82.71	2.70	Soft and firm brown slightly silty CLAY. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	3,4,4 5,5,6 N=20.				81.71	3.70	Light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						80.96	4.45	Windowless sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.70			
<p>General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.7m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389278.880 N 381811.100	Ground Level (m AOD) 87.490
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.30-0.40	ES	.				87.29	0.20	Grey silt with rootlets. (TOPSOIL)		TS		
							(0.34)	Firm and stiff brown mottled grey slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU		
0.55-0.65	ES	.				86.95	0.54	Grey fine to medium SAND with black staining at base. (GLACIAL DEPOSITS)		GDU		
1.00	(S)	1,2,2 2,3,4 N=11.						Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
2.00	(S)	2,2,3 4,4,4 N=15.					(3.80)			GDU		
3.00	(S)	3,2,3 3,3,4 N=13.										
4.00	(S)	3,3,3 4,2,4 N=13.										
						83.04	4.45	Window sample complete at 4.45m bgl				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS166

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389471.740 N 381848.570	Ground Level (m AOD) 85.570
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.50	ES					85.32	0.25	MADE GROUND: Brown slightly sandy slightly gravelly SILT with rootlets. Gravel is fine to medium angular of ash and clinker.		TS	
							(0.85)	Soft to firm organic CLAY with localised lenses of fibrous peat. (SUPERFICIAL DEPOSITS)		SUPD	
1.00	(S)	Sw,Sw,1 0,0,0 N=1.				84.47	1.10	Light brown medium to coarse SAND. Becoming wet. (GLACIAL DEPOSITS)		GDU	
1.10-1.30	ES					84.07	1.50	Light brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
						83.77	1.80	Light brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,1,1 0,1,2 N=4.				83.07	2.50	Soft and very soft light grey CLAY (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,2,1 2,1,2 N=6.					(1.95)	Loose light brown fine and medium SAND. Blowing conditions experienced from 2.5m bgl. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,1,2 1,2,1 N=6.				81.12	4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.50			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered below 1.5m bgl. Hole installed upon completion. Response zone from 0.5 to 3.0m bgl.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS167

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389530.660 N 381787.190	Ground Level (m AOD) 85.260
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.20	ES	.					84.96	(0.30) 0.30	MADE GROUND: Brown slightly sandy slightly gravelly SILT with rootlets. Gravel is fine and medium angular of ash and clinker. (TOPSOIL)		CMG	
							84.76	0.50	MADE GROUND: Firm brown CLAY with rare ash		CMG	
0.50-0.85	ES	.					84.41	(0.35) 0.85	Light brown clayey fibrous PEAT. (SUPERFICIAL DEPOSITS)		PEAT	
							84.26	1.00	Firm brown CLAY with rootlets. (SUPERFICIAL DEPOSITS)		SUPD	
1.00	(S)	1,0,0 0,1,0 N=1.						(0.70)	Brown fibrous PEAT.		PEAT	
							83.56	1.70				
2.00	(S)	1,0,0 1,0,0 N=1.							Soft light grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,2,1 2,1,1 N=5.						(2.75)				
4.00	(S)	1,1,1 1,1,2 N=5.										
							80.81	4.45	Window sample complete at 4.45m bgl			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone from 1 to 3m bgl.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS168

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389597.380 N 381833.900	Ground Level (m AOD) 85.370
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.40	ES	.				85.17	0.20	MADE GROUND: Brown occasional black sandy SILT with rootlets. (TOPSOIL)		CMG	
0.40-0.70	ES	.				84.97	0.40	MADE GROUND: Black fine and medium subangular and subrounded GRAVEL with frequent ash. Gravel of clinker.		GMG	
0.70-1.10	ES	.				84.67	0.70	MADE GROUND: Grey silty slightly gravelly CLAY. Gravel is medium and coarse angular to subrounded of coal and sandstone		CMG	
1.00	(S)	SW,SW,SW SW,1,0 N=0.					(1.20)	Brown fibrous PEAT.		PEAT	
2.00	(S)	1,0,0 0,0,0 N=0.				83.47	1.90	Very soft light grey CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
3.00	(S)	1,0,1 1,2,3 N=7.				82.37	3.00	Light greyish brown fine to medium SAND. (GLACIAL DEPOSIT)		GDU	
						81.92	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole not installed.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS169

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389691.350 N 381902.370	Ground Level (m AOD) 85.430
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.50	ES	.				85.23	0.20	Grass over clayey silt with rootlets. (TOPSOIL)		TS	
							(0.30)	Light brown fine and medium SAND. (SUPERFICIAL DEPOSITS)		SUPD	
0.50-0.80	ES	.				84.93	0.50	Very soft grey slightly sandy silty CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
							(0.30)	Very soft brown CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
1.00	(S)	SW,SW,1 0,0,0 N=1.									
2.00	(S)	SW,SW,1 0,0,0 N=1.					(2.65)			SUPD	
3.00	(S)	1,0,1 0,1,0 N=2.									
						81.98	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole not installed.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS170

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389653.420 N 381828.670	Ground Level (m AOD) 85.660
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.00-0.20	ES	.				85.46	0.20	Grass over brown slightly clayey slightly sandy SILT. (TOPSOIL)		TS		
0.20-0.60	ES	.				85.06	(0.40) 0.60	Firm and stiff greyish brown silty CLAY. (GLACIAL DEPOSIT)		GDU		
							(0.50)	Stiff reddish brown slightly sandy CLAY. (GLACIAL DEPOSIT)		GDU		
1.00	(S)	1,2,1 2,1,2 N=6.				84.56	1.10	Loose reddish brown fine and medium SAND. (GLACIAL DEPOSIT)		GDU		
2.00	(S)	1,1,1 1,1,1 N=4.					(3.35)			GDU		
3.00	(S)	1,1,1 1,1,1 N=4.								GDU		
4.00	(S)	1,1,2 1,2,1 N=6.				81.21	4.45	Window sample complete at 4.45m bgl				

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone from 0.8 to 3.8m bgl.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS171

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389612.240 N 381696.670	Ground Level (m AOD) 85.320
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.20	ES	.				85.12	0.20	Firm brown slightly sandy slightly gravelly CLAY with rootlets. Gravel is sub rounded fine sandstone and coal (TOPSOIL)		TS	
0.20-0.70	ES	.				84.92	0.40	Brown organic CLAY. (SUPERFICIAL DEPOSITS)		GDU	
						84.62	(0.30) 0.70	Firm brown slightly silty CLAY. (GLACIAL DEPOSIT)		GDU	
1.00	(S)	2,2,2 1,0,1 N=4.					(1.90)	Loose brownish grey fine and medium SAND. (GLACIAL DEPOSIT)		GDU	
2.00	(S)	1,0,1 1,2,1 N=5.									
3.00	(S)	1,0,1 1,1,1 N=4.				82.72	2.60	Firm brown mottled grey CLAY. (GLACIAL DEPOSIT)		GDU	
						81.87	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole not installed.</p>											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389607.410 N 381602.920	Ground Level (m AOD) 87.360
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.00-0.20	ES	.				87.16	0.20	MADE GROUND: Brown sandy CLAY with rootlets and occasional ash. (TOPSOIL)		CMG	
0.20-0.40	ES	.				86.96	0.40	Brown clayey silty fine SAND. (GLACIAL DEPOSITS)		GDU	
0.40-0.60	ES	.	0				(0.55)	Medium dense orange brown fine SAND. (GLACIAL DEPOSITS)		GDU	
0.50						86.41	0.95				
1.00	(S)	2,2,3 3,4,3 N=13.	0				(2.05)	Orange brown fine and medium SAND. Blowing conditions encountered from 1.8m bgl. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,0,1 1,1,2 N=5.									
						84.36	3.00	3.00 Window sample complete at 3.0m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.80			
						General Remarks Windowless sample hole complete at 3.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Windowless sample hole installed upon completion. Response zone from 1.0 to 3.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS173

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389815.780 N 381608.570	Ground Level (m AOD) 84.340
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES		0			84.24	0.10	MADE GROUND: Brown sandy CLAY with rootlets. (TOPSOIL)		TS	
						84.04	0.30	MADE GROUND: Brown mottled black gravelly SAND. Gravel is fine very angular to rounded of predominantly coal, clinker and slag.		GMG	
1.00	D (S)	1,1,1 0,1,2 N=4.	0			(0.80)		Firm and stiff brown slightly sandy gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies.		GDU	
						83.24	1.10	Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies.		GDU	
2.00	D (S)	1,1,2 2,2,2 N=8.				(2.30)				GDU	
3.00	D (S)	8,7,8 10,14,14 N=46.								GDU	
3.50	ES		0			80.94	3.40	3.20 m bgl; becoming stiff.		GDU	
4.00	(S)	10,10,12 13,14,11 N=50/ 0.285.					(1.60)	Medium dense reddish brown fine to coarse clayey/silty SAND.		GDU	
						79.34	5.00	Window sample complete at 5.0m bgl			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.40			
						General Remarks Windowless sample hole complete at 4.0m bgl. No olfactory evidence of hydrocarbon contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.40m bgl. Windowless sample hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389872.140 N 381685.920	Ground Level (m AOD) 84.750
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.30	ES	.							Grass over slightly clayey silty dark brown fine SAND with rootlets. (TOPSOIL)		TS	
0.30	ES	.					84.30	0.45				
0.50-0.70	ES	.		50					Firm medium strength slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSITS)			
0.70	D	.		52								
1.00	(C)	1,1,2 1,2,3 N=8.		40				(1.35)			GDU	
1.70	D	.		70		↓	82.95	1.80	Very loose reddish brown clayey fine SAND with localised lenses very soft sandy clay. (GLACIAL DEPOSITS)			
2.00	(C)	0,1,0 0,1,0 N=1.						(2.00)			GDU	
3.00	(C)	0,0,1 0,0,1 N=2.										
4.00	(C)	1,0,1 0,1,1 N=3.					80.95	3.80	Red brown fine SAND. (GLACIAL DEPOSITS)		GDU	
							80.75	4.00				
								(0.80)	Very loose gravelly coarse SAND. Gravel is fine angular to rounded of various lithologies. (GLACIAL DEPOSITS) 4.00 - 5.00 50% Recovery		GDU	
							79.95	4.80				
							79.85	4.90	Soft very sandy red brown CLAY. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	3,4,5 4,4,3 N=16.						(0.55)	Medium dense gravelly coarse SAND. Gravel is fine angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							79.30	5.45	Windowless sample complete at 5.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.80			
General Remarks Windowless sample hole complete at 5.45m bgl. No odour or visual evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.8m bgl. Hole installed upon completion. Response zone 0.8 to 4.8m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389862.080 N 381770.810	Ground Level (m AOD) 85.280
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50-0.60	ES	.		100			84.83	0.45	Grass over slightly gravelly organic CLAY. Gravel is fine and medium angular of sandstone. (TOPSOIL)		TS	
1.00-1.00	D (C)	1,1,1 0,1,2 N=4.		78			83.78	1.05	Stiff high strength reddish brown mottled green grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies.		GDU	
1.50-1.60	ES	.		40					Firm locally soft medium strength very sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	(C)	1,1,2 2,2,2 N=8.		48					2.50 m bgl; becoming stiff		GDU	
2.60	D	.		50							GDU	
3.00	(C)	8,7,8 10,14,14 N=46.		42			81.78	3.50	Orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	10,10,12 13,14,11 N=50/ 0.285.		68			81.43	3.85	Dense orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
							80.83	4.45	Window sample hole complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.50			
General Remarks Window Sample borehole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.5m bgl as seepage. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS176

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-13
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389916.060 N 382067.750	Ground Level (m AOD) 85.240
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.20	ES		0				84.79	0.45	Grass over soft brown slightly gravelly organic CLAY . Gravel is fine and medium angular of sandstone. (TOPSOIL)		TS	
0.50 0.50-0.60	D ES		0	110			84.79	0.45	Stiff high strength orange brown mottled grey slightly sandy slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
1.00-3.00	B (C)	3,4,4 4,4,3 N=15.		100			84.14	1.10	Medium dense brown fine SAND. (GLACIAL DEPOSITS)		GDU	
							83.54	1.70	Soft greenish grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							83.34	1.90	Reddish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
2.00	(C)	1,2,2 3,3,4 N=12.					83.14	2.10	Soft low strength reddish brown very sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							82.94	2.30	Reddish brown slightly clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
							82.44	2.80	Light brown medium SAND. (GLACIAL DEPOSITS)		GDU	
							82.34	2.90	Medium dense orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
3.00	(C)	2,2,3 2,2,3 N=10.					81.24	4.00	Window sample complete at 4.0m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.95 3.00			
Scale 1:37.5						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					
General Remarks						Window Sample borehole terminated at 4.0m bgl with sampler stuck in casing. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.95 and 3.0m bgl as seepage. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.					



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WINDOW SAMPLE LOG

Hole No.
WS177

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389997.460 N 382157.000	Ground Level (m AOD) 83.970
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50-0.60	ES	.	0	76			83.52	0.45	Grass over soft brown slightly gravelly organic CLAY . Gravel is fine and medium angular of sandstone. (TOPSOIL)		TS	
1.00	D (C)	4,5,4 3,4,4 N=15.		70			82.97	1.00	Stiff medium strength brown mottled grey slightly sandy slightly gravelly fissured CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D (C)	2,3,3 3,3,4 N=13.		70				(2.10)	Stiff high strength brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00	D (C)	1,1,1 1,1,1 N=4.		68							GDU	
3.20-3.40	ES	.	0	60			80.87	3.10	Loose brown gravelly medium and coarse SAND. Gravel is fine subangular and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	1,0,1 2,1,2 N=6.		76				(2.35)			GDU	
5.00	(C)	1,2,2 3,2,2 N=9.		82							GDU	
				70			78.52	5.45	5.45m bgl; Window sample hole complete at 5.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.10m bgl. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS178

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389319.080 N 381699.290	Ground Level (m AOD) 88.580
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.00-0.20	ES	.						88.38	0.20	Brown silty fine SAND. (TOPSOIL)		
0.20-0.30	ES	.					88.03	(0.35)	Brown slightly clayey slightly sandy SILT. (GLACIAL DEPOSITS)		GDU	
0.50-0.70	ES	.				↓		0.55	Medium dense light brownish grey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.00	(S)	1,0,2 3,3,4 N=12.					(1.00)					
						↓	87.03	1.55	Loose becoming medium dense light pinkish grey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,1,1 1,1,1 N=4.					(1.90)					
3.00	(S)	3,4,4 4,4,5 N=17.					85.13	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.70 1.80			
General Remarks Windowless sample hole complete at 3m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered 0.70m - 1.80m bgl. Windowless sample hole installed upon completion. Response zone 1.0-3.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS179

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389687.430 N 382085.290	Ground Level (m AOD) 85.230
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.40	ES					85.08	0.15	Soft dark brown slightly clayey organic fine SAND. (TOPSOIL)		TS	
							(1.05)	Orangish brown medium to coarse slightly gravelly SAND. Gravel is fine subrounded to rounded of various lithologies.		ALV	
1.00-1.45	D (S)	1,1,1 1,2,1 N=5.				84.03	1.20	Soft to firm low strength sandy clayey amorphous PEAT.		SUPD	
1.20-1.40	ES						(0.40)				
2.00-2.45	D (S)	3,4,5 5,4,5 N=19.					(1.30)	Medium dense greenish grey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
3.00-3.45	D (S)	1,1,1 1,1,1 N=4.				82.33 82.23	2.90 3.00	Soft greenish grey silty sandy CLAY. (GLACIAL DEPOSITS) Very loose to loose brown sandy SILT. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,1,1 1,1,1 N=4.					(1.45)			GDU	
						80.78	4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.80 3.00			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.80 and 3.00m bgl. Hole installed upon completion. Response zone 0.50m to 4m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



WSP
150-182 The Quays
M50 3SP
Telephone: 0161 886 2400
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WINDOW SAMPLE LOG

Hole No.
WS180

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 390024.390 N 382420.700	Ground Level (m AOD) 87.080
--	--	-----------------------	--	--------------------------------

SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.60	ES	.				86.78	(0.30) 0.30	MADE GROUND: Brown slightly clayey slightly sandy SILT. (TOPSOIL)		GMG	
							(0.70) 0.70	MADE GROUND: Firm brown slightly gravelly CLAY with occasional ash.		CMG	
1.00-1.45	D (S)	1,2,1 2,2,2 N=7.				86.08	1.00	MADE GROUND: Soft and firm grey slightly gravelly silty CLAY. Gravel is fine to coarse angular of concrete.		CMG	
1.00-1.30	ES	.				85.78	(0.30) 1.30				
1.50-1.80	ES	.					(1.20) 1.20	Firm grey mottled brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
2.00-2.45	D (S)	1,1,1 1,2,2 N=6.				84.58	2.50	Brown SILT. Becoming wet. (GLACIAL DEPOSITS)		GDU	
3.00-3.45	D (S)	1,0,0 1,0,0 N=1.				83.63	(0.95) 3.45				
Window sample complete at 3.45m bgl											

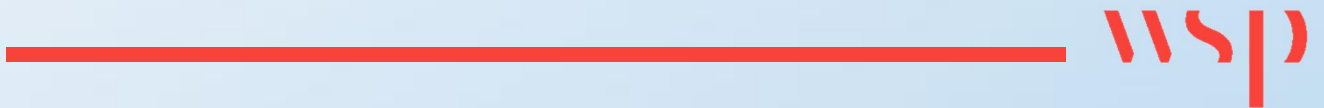
08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.70			
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.70m bgl. Hole backfilled upon completion.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

Appendix D

REMEDIATION / VALIDATION CRITERIA



Woodford Aerodrome DP4 North Remediation Strategy - Appendix D

Soil Remediation / Validation Criteria - WSP, June 2021

Attribute	Remediation / Validation Qualitative Criteria
Chemical / hydrocarbon odour	No odours for soils within 0.6m of finished levels. Mild odours may be acceptable for deeper soils if associated risks sufficiently characterised and concentrations comply with those presented below
Colouration	No unnatural colouration for soils within 0.6m of finished levels. Certain colouration may be acceptable for deeper soils if associated risks sufficiently characterised and concentrations comply with below
Asbestos fibres in soils	No asbestos detected in soil to be placed within 0.6m of finished level in areas of soft landscaping. Low level asbestos content could be acceptable beneath buildings / roads / hardstanding - to be confirmed by Environmental Consultant
Pieces of asbestos containing materials	Not acceptable to remain on site without detailed assessment based on proposed use
Radiological	Consult radiological advisor

Concentrations based on WSP Residential (with Home Grown Veg) GAC 2.5% SOM

Group	Chemical / TPH Fraction	Soil Remediation / Validation Criteria (mg/kg)
Aliphatics and Aromatics (TPH CWG)	Aliphatic C05-C06	78
	Aliphatic C06-C08	231
	Aliphatic C08-C10	65
	Aliphatic C10-C12	324
	Aliphatic C12-C16	2220
	Aliphatic C16-C35	69500
	Aliphatic C35-C44	69500
	Aromatic C05-C07	145
	Aromatic C07-C08	296
	Aromatic C08-C10	83
	Aromatic C10-C12	174
	Aromatic C12-C16	314
	Aromatic C16-C21	484
	Aromatic C21-C35	1100
	Aromatic C35-C44	1100
	BTEX and Fuel Additives	1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene		12
1,3,5-Trimethylbenzene		12
Benzene		0.18
Ethylbenzene		111
Methyl t-butylether (MTBE)		108
Toluene		296
Chlorinated Aliphatics	Xylene	133
	1,1,1,2-Tetrachloroethane	2.8
	1,1,1-Trichloroethane	42
	1,1,2,2-Tetrachloroethane	3.5
	1,1,2-Trichloroethane	1.6
	1,1-Dichloroethane	5.5
	1,1-Dichloroethene	0.57
	1,2-Dichloroethane	0.011
	Cis 1,2-Dichloroethene	0.27
	1,2-Dichloropropane	0.06
	Chloroethane	16
	Chloroform	1.7
	Chloromethane	0.014
	Carbon tetrachloride	0.79
	Dichloromethane	1.1
	Hexachloroethane	0.65
	Hexachlorobutadiene	0.75
	Trans-1,2-Dichloroethene	0.48
	Tetrachloroethene (PCE)	0.39
	Tetrachloromethane	0.79
Trichloroethene (TCE)	0.034	
Vinyl chloride	0.00087	
Metals	Arsenic	32
	Cadmium	12
	Chromium III	1590
	Hexavalent Chromium	4.5
	Copper	2490
	Mercury	39
	Mercury - Elemental	0.55
	Methyl Mercury	7.5
	Nickel	126
	Lead	134
	Selenium	258
	Zinc	3860
	PAH	Benzo (a) pyrene #
Naphthalene		5.6
VOC	iso-Propylbenzene	37
	n-Propylbenzene	111
	iso-Propylbenzene	37
	n-Propylbenzene	111
PCB	Sum of 7 congeners	0.29

Bap used as surrogate marker for other PAHs (apart from naphthalene)- only applicable when concentration profile of PAH16 compounds complies with that defined in the 'surrogate marker' methodology in DEFRA SP1010 BaP appendix - likely to be applicable for hydrocarbons identified previously on the Woodford Aerodrome site.

Appendix E

GENERAL LIMITATIONS



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
28. The data is presented and will be compared with assessment criteria.



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