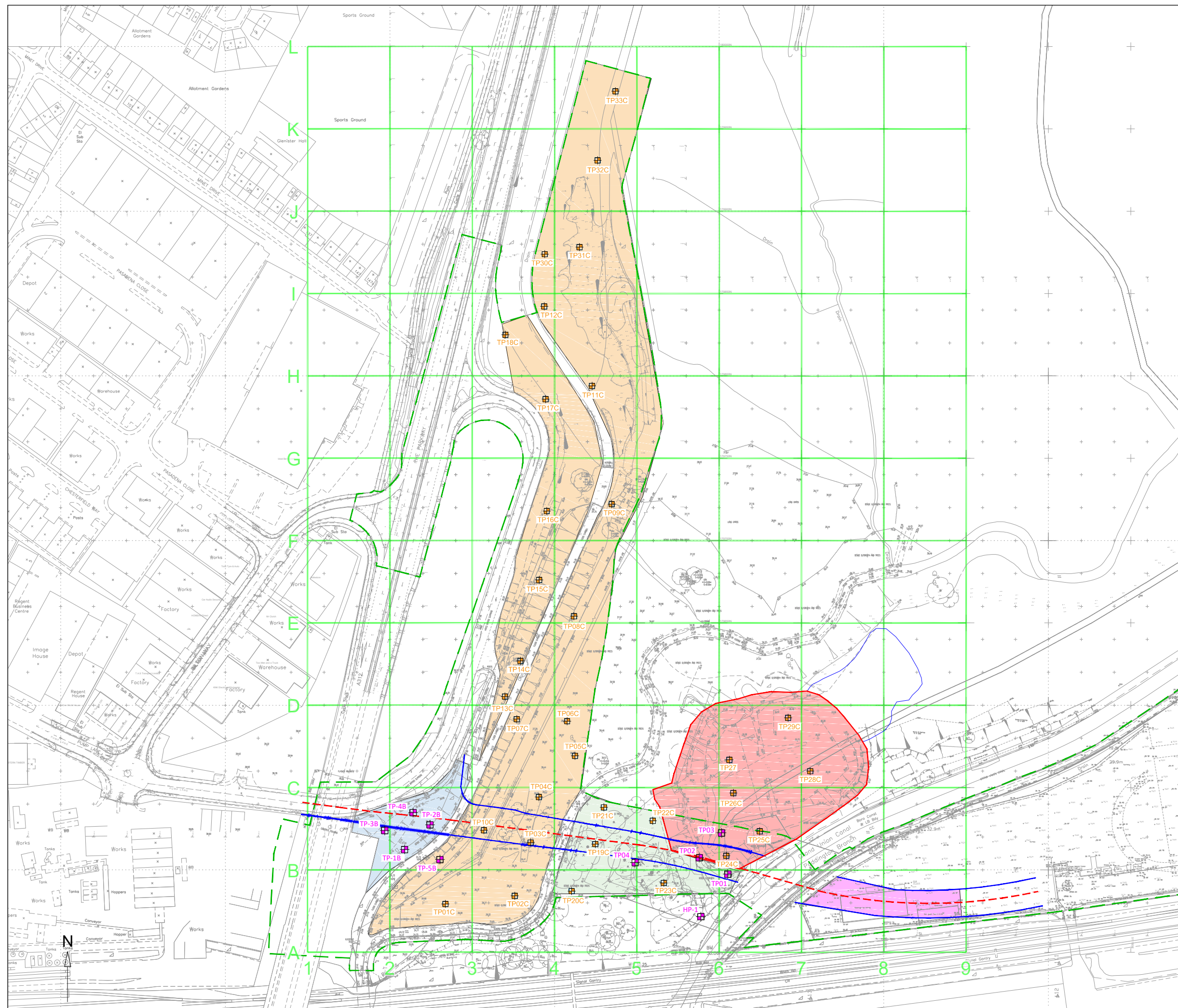




Completed trial pits (CGL 24th Feb 2017)

Completed trial pits (CGL 27th March 2017)

Western Access Site boundary

Western Access Road Alignment

Indicative embankment extents

Extent of existing Lagoon Bund

'Bridge Bund' relating to investigation undertaken 24th February 2017

Area 1 - River Crane incorporating Western Embankment & Flood Alleviation Zone

Area 2 - Central Embankment

Area 3 - 'Lagoon Bund'

Area 4 - Eastern Embankment

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Project

Southall Western Access Advanced Works

Client

FM Conway Limited

Drawing title

Figure 2 - Site Layout & Exploratory Hole Location Plan

Scale(s)

NTS

Job No.

CGN/03732E

Drawn

TSB

15/05/17

Checked

Approved

Dwg No.

A720-E05-IW-CGL-GEO-DR-0001

Rev.

0

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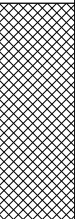
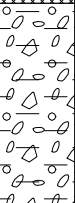
APPENDIX A

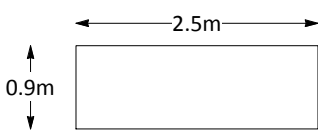
Trial Pit Logs

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP01C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.47	Co-Ordinates (m) E 510,733.7 N 179,479.4	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.50	ES1/D1			25.57		MADE GROUND. Bark over firm light brown mottled brown sandy gravelly clay with occasional roots. Gravel is angular to rounded, fine to coarse of flint, brick and ceramic.
1.00	B1					Orangish brown mottled brown clayey GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.70	D2			24.67		
						(Pit terminated at 1.8m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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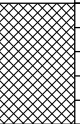
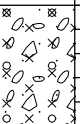
Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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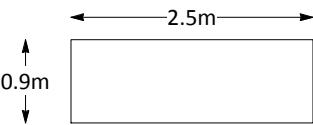
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL GPJ GINT STD AGS 3.1 GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP02C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.40	Co-Ordinates (m) E 510,775.8 N 179,484.3	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1			25.90		TOPSOIL. Dark brown clayey sand with frequent roots and rootlets. 0.30 Large tree roots.
1.20	D2			25.00		Firm brown slightly sandy silty CLAY with occasional roots and rootlets. [RIVER TERRACE DEPOSITS]
1.60	B1			24.50		Greyish brown slightly silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
						(Pit terminated at 1.9m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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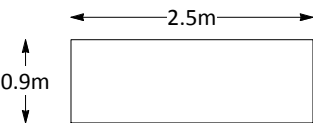
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP03C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.50	Co-Ordinates (m) E 510,785.5 N 179,516.6	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1	47,45,43		26.00	(0.50)	TOPSOIL. Dark brown clayey sand with occasional roots and frequent rootlets.
0.70 0.70 1.00	D2 HSV B1			25.20	(0.80)	Firm brown slightly sandy silty CLAY with occasional roots and rootlets. [RIVER TERRACE DEPOSITS]
1.70	B2			24.40	(0.80)	Orangish brown mottled brown clayey GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS] 1.70 Occasional grey layers.
						(Pit terminated at 2.1m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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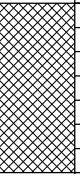
Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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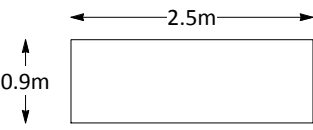
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP04C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.54	Co-Ordinates (m) E 510,790.5 N 179,544.3	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1/B1			25.84		MADE GROUND. Dark brown clayey gravelly sand with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and plastic.
0.80	HSV	60,62,58				Firm brown CLAY. [RIVER TERRACE DEPOSITS]
1.00	D2					
1.00	HSV	60,55,661				
1.40	HSV	60,60,61		24.84		
2.00	B2			24.24		Greyish brown slightly silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
2.30	D3					(Pit terminated at 2.3m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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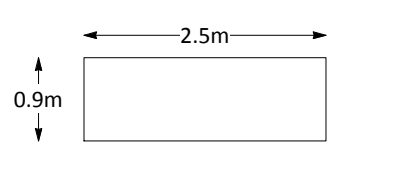
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP05C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.56	Co-Ordinates (m) E 510,812.4 N 179,569.3	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30	ES1/D1/B1	90,92,91		26.16	(0.40)	MADE GROUND. Dark brown clayey gravelly SAND with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and plastic.
0.50	B2				(0.70)	MADE GROUND. Firm brown slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium of brick and ceramic.
0.60	D2			25.46	1.10	
1.20	D3			24.81	(0.65)	Brown to orangish brown clayey sandy GRAVEL. Gravel is subrounded to wellrounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.50	B3				1.75	
2.00	D4			24.46	(0.35)	Brownish grey very clayey GRAVEL with occasional pockets of clay. Gravel is subrounded to wellrounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
2.00	HSV			24.26	2.30	Very stiff brown to greyish brown CLAY. [LONDON CLAY FORMATION]
						(Pit terminated at 2.3m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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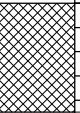
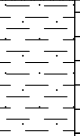
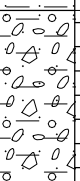
Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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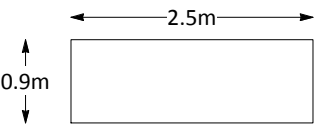
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP06C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.52	Co-Ordinates (m) E 510,807.6 N 179,590.3	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.50	B1	50,52,660		26.07		MADE GROUND. Dark brown clayey gravelly SAND with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and plastic.
0.80	HSV			25.47		Firm to stiff brown sandy CLAY with occasional roots and rootlets. [RIVER TERRACE DEPOSITS]
1.30	B2			24.72		Grey clayey sandy GRAVEL. Gravel is well rounded to rounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.80	B3/D1			24.62		Very stiff brown CLAY. [LONDON CLAY FORMATION]
1.85	D2					(Pit terminated at 1.9m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP07C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.41	Co-Ordinates (m) E 510,777.1 N 179,591.6	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.20	ES1/D1			26.11		MADE GROUND. Dark brown clayey gravelly SAND with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and plastic.
0.40	BB1					Grey clayey sandy GRAVEL. Gravel is well rounded to rounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.30	DD2			25.01		
1.60	DD3			24.81		Very stiff brown CLAY. [LONDON CLAY FORMATION] (Pit terminated at 1.6m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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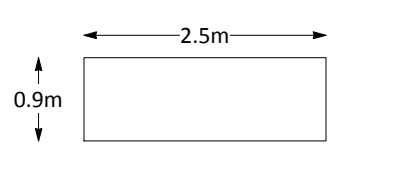
Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP08C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 28.10	Co-Ordinates (m) E 510,811.8 N 179,654.0	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30	ES1/D1/B1			27.60	(0.50)	MADE GROUND. Dark brown clayey gravelly SAND with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and fabric.
0.45	B2					
0.80	B3				(1.00)	Orangish brown to brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears dense. [RIVER TERRACE DEPOSITS]
1.50	D2			26.60	1.50	(Pit terminated at 1.5m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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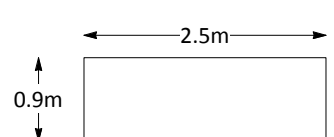
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP09C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 29.77	Co-Ordinates (m) E 510,834.7 N 179,722.1	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30	ES1/D1/B1			29.67		MADE GROUND. Soft dark brown gravelly clay. Gravel is angular to subangular, fine to coarse of concrete and metal.
0.50	B2			29.07		MADE GROUND. Soft dark brown sandy gravelly clay. Gravel is angular to subangular, fine to coarse of wire, rebar, metal, brick and fabric.
				29.07		0.70
						(0.40)
				28.67		MADE GROUND. Orangish brown silty sandy GRAVEL. Gravel is angular to well rounded, fine to coarse of flint with occasional metal and fabric. Appears loose.
1.20	D2/ES2					1.10
						(1.20)
				27.47		2.30
						(Pit terminated at 2.3m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP10C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.68	Co-Ordinates (m) E 510,757.1 N 179,524.1	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.20	B1			26.28		TOPSOIL. Brown clayey gravelly sand. Gravel is well rounded to subrounded, fine to medium of flint.
0.60	D1					Orangish brown very clayey GRAVEL. Gravel is rounded to well rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.30	B2			25.28		
						(Pit terminated at 1.4m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP11C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 25.56	Co-Ordinates (m) E 510,822.8 N 179,793.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.20	ES1/D1/B1			25.26		MADE GROUND. Dark brown clayey gravelly sand with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and plastic.
0.40	B2			24.86		Orangish brown to brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
0.90	D2					Very stiff grey to brown CLAY. [LONDON CLAY FORMATION]
1.50	B3			23.86		
1.60	HSV	80,82,78				
						(Pit terminated at 1.7m)

Plan	General Remarks
Stability: Stable	1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.

Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
Tracked Excavator			

CGL TP LOG CGN3732D TRIAL PIT SOUTHALL GPJ GINT STD AGS 3.1 GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP12C
Job No CGN/03732E	Date 23-03-17	Ground Level (m) 26.05	Co-Ordinates (m) E 510,793.7 N 179,842.2	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.20	ES1/D1/B1	80,82,80		25.75		MADE GROUND. Dark brown clayey gravelly sand with occasional roots and frequent rootlets. Gravel is subangular to rounded, fine to coarse of clinker, ceramics and plastic.
0.50	B1					Orangish brown to brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.00	D2			24.95		Very stiff grey to brown CLAY. [LONDON CLAY FORMATION]
1.40	D3					
1.70				24.25		
						(Pit terminated at 1.8m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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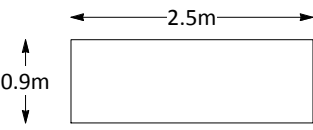
Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP13C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 25.90	Co-Ordinates (m) E 510,769.8 N 179,605.3	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30	ES1/D1/B1			25.50	(0.40)	MADE GROUND. Dark brown clayey sandy gravel. Gravel is angular to subangular, fine to coarse of frequent metal, brick, concrete with rare rubber and glass.
0.50	B2				(1.10)	Orangish brown to brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.40	B3			24.40	1.50	(Pit terminated at 1.5m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP14C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 25.49	Co-Ordinates (m) E 510,779.2 N 179,626.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30 0.40	ES1/D1 B1			25.29		MADE GROUND. Dark brown clayey sandy gravel. Gravel is angular to subangular, fine to coarse of frequent metal, brick, concrete with rare rubber and glass.
						Dark grey to blueish grey silty sandy GRAVEL with frequent rootlets. Gravel is well rounded to rounded, fine to medium of flint. [RIVER TERRACE DEPOSITS]
				24.59		
				24.49		
1.10 1.20	HSV D2	65,60,62				Orangish brown to brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
						Stiff brownish grey CLAY. [LONDON CLAY FORMATION]
				23.99		
						(Pit terminated at 1.5m)

Plan	General Remarks
Stability: Stable	1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.

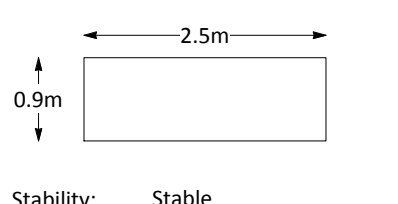
Method/ Plant Used	Field Crew	Logged By	Checked By
Tracked Excavator		ARA	DRAFT

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP15C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 28.36	Co-Ordinates (m) E 510,790.6 N 179,676.1	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.20	B1			28.06	(0.30) 0.30	MADE GROUND. Brown to dark brown clayey sandy gravel.
0.50 0.60	B2 ES1/D1			26.96	(1.10) 1.40	MADE GROUND. Dark orangish brown to grey silty sandy gravel with occasional roots and rootlets. Gravel is well rounded to rounded, fine to medium of flint. Appears loose.
2.00	B3			25.86	(1.10) 2.50	Orangish brown to brown silty SAND and GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
						(Pit terminated at 2.5m)

Plan 	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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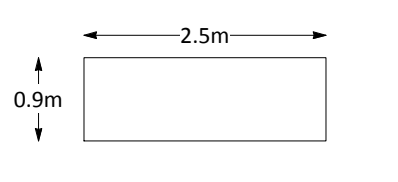
Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP16C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 32.20	Co-Ordinates (m) E 510,795.3 N 179,717.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.50	ES1/D1			31.70		MADE GROUND. Brown to dark brown clayey sandy gravel. Gravel is angular to subangular, fine to coarse of brick, plastic and concrete. Appears loose.
						(0.50)
						0.50
						MADE GROUND. Soft brown to dark grey sandy gravelly clay. Gravel is of rare fragments of plastic, brick, concrete and metal. Appears medium dense.
						(1.00)
						1.50
1.50	B1			30.70		
1.50	ES2/D2					(Pit terminated at 1.5m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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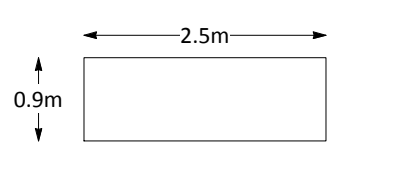
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP17C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 30.58	Co-Ordinates (m) E 510,794.6 N 179,785.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30	B1					MADE GROUND. Dark brown clayey gravelly sand with occasional roots. Gravel is angular to rounded, fine to coarse of flint with rare plastic.
0.50	ES1/ D1			29.88		
0.80	B2					MADE GROUND. Dark brown to orangish brown sand and gravel with occasional roots and rootlets. Gravel is well rounded to rounded, fine to medium of flint.
1.50	ES2/D2			28.48		
2.20	B3			27.58		Orangish brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears dense. [RIVER TERRACE DEPOSITS]
						(Pit terminated at 3m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CCGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3 1.GDT 17/5/17CCGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3 1.GDT 17/5/17CCGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3 1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP19C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 26.27	Co-Ordinates (m) E 510,824.7 N 179,515.7	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1/B1			25.57		TOPSOIL. Soft dark brown slightly sandy clayey SILT with occasional roots and rootlets.
1.00	HSV	44,47,42		25.07		Soft to firm brown to greyish brown CLAY with rare roots and rootlets. [RIVER TERRACE DEPOSITS]
				24.07		Orangish brown silty sandy GRAVEL. Gravel is well rounded to rounded, fine to medium of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
						(Pit terminated at 2.2m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL GPJ GINT STD AGS 3.1 GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP20C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 26.12	Co-Ordinates (m) E 510,810.4 N 179,487.1	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1/B1			25.52		TOPSOIL. Soft dark brown slightly sandy clayey SILT with occasional roots and rootlets. (0.60)
1.00	HSV	44,48,45				Firm becoming stiff dark brown to greyish brown silty CLAY. [RIVER TERRACE DEPOSITS]
1.40	B2					1.40 Occasional layers of gravel.
1.50	HSV	70,72,74				
1.60	D2					
2.00	HSV	80,75,80		23.92		2.20 (Pit terminated at 2.2m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP21C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 26.42	Co-Ordinates (m) E 510,830.0 N 179,538.0	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
				26.02	(0.40)	TOPSOIL. Soft dark brown slightly sandy clayey SILT with occasional roots and rootlets.
1.00	HSV	40,45,52			(1.70)	Firm becoming stiff dark brown to greyish brown silty CLAY. [RIVER TERRACE DEPOSITS]
1.50	HSV	60,62,65		24.32	2.10	(Pit terminated at 2.1m)

Plan	General Remarks
Stability: Stable	1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.

Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP22C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 26.40	Co-Ordinates (m) E 510,859.7 N 179,529.8	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1/B1			26.10		TOPSOIL. Soft dark brown slightly sandy clayey SILT with occasional roots and rootlets.
						Firm becoming stiff dark brown to greyish brown silty CLAY with occasional roots and rootlets. [RIVER TERRACE DEPOSITS]
				25.60		
1.20	HSV D2	60,55,60				Firm orangish brown gravelly CLAY. Gravel is well rounded to rounded, fine to coarse of flint. [RIVER TERRACE DEPOSITS]
1.30						
1.70	B2					
2.00	HSV	80,80,82		24.30		
						(Pit terminated at 2.1m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP23C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 27.87	Co-Ordinates (m) E 510,866.4 N 179,492.1	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.20	ES1/D1			27.47		TOPSOIL. Soft dark brown slightly sandy clayey SILT with occasional roots and rootlets.
0.40	B1					Firm becoming stiff dark brown to greyish brown silty CLAY with occasional roots and rootlets. [RIVER TERRACE DEPOSITS]
0.80	ES2/D2					
1.00	HSV	35,40,40		26.67		
1.30	HSV	40,40,45				Stiff brown to greyish brown silty CLAY. [LONDON CLAY FORMATION]
1.50	B2					
1.50	HSV	60,65		26.07		
2.00	HSV	80,82,80		25.77		Stiff brown silty CLAY. [LONDON CLAY FORMATION]
						(Pit terminated at 2.1m)

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP24C
Job No CGN/03732E	Date 24-03-17	Ground Level (m) 32.22	Co-Ordinates (m) E 510,904.3 N 179,508.6	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.70	ES1/D1					MADE GROUND. Dark brown slightly gravelly clayey sand. Gravel is angular to subangular, fine to coarse of metal, concrete glass and brick. Appears loose.
1.00	B1					
				30.72	1.50	(Pit terminated at 1.5m)

Plan	General Remarks
Stability: Stable	1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.

Method/ Plant Used	Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGI TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP25C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 32.84	Co-Ordinates (m) E 510,924.6 N 179,523.5	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
1.00	ES1/D1					MADE GROUND. Dark brown slightly gravelly clayey sand. Gravel is angular to subangular, fine to coarse of metal, glass, plastic and concrete with rare hard-cement type asbestos containing material and tins. Appears loose. 0.50 Single ACM fragment identified.
1.50	B1					
				30.54	2.30	
						(Pit terminated at 2.3m)

Plan	General Remarks
Stability: Stable	1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.

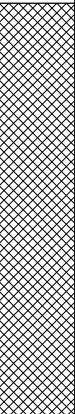
Method/ Plant Used	Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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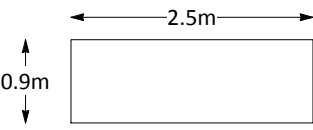
CGI TP LOG CGN3732D TRIAL PIT SOUTHALL GPJ GINT STD AGS 3.1 GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP26C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 30.36	Co-Ordinates (m) E 510,908.6 N 179,546.7	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
2.50	ES1/D1			28.66		MADE GROUND. Dark brown slightly gravelly clayey sand. Gravel is angular to subangular, fine to coarse of some glass and occasional brick, metal and ceramic. Appears loose.
				26.86		MADE GROUND. Stiff black sandy gravelly clay. Gravel is angular to subangular, fine to coarse of ceramic and glass. Strong hydrocarbon odour.
						(Pit terminated at 3.5m)

Plan  Stability: Unstable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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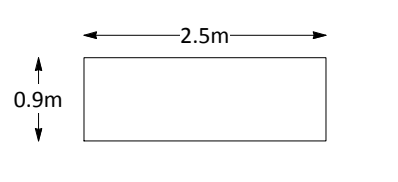
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP27C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 29.93	Co-Ordinates (m) E 510,906.2 N 179,566.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
2.50	ES1/D1/B1			27.93	(2.00)	MADE GROUND. Dark brown slightly gravelly clayey sand. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic, glass and tile. Appears loose.
					(1.60)	MADE GROUND. Stiff black sandy gravelly clay. Gravel is angular to subangular, fine to coarse of ceramic and glass. Very strong hydrocarbon odour.
				26.33	3.60	(Pit terminated at 3.6m)

Plan  Stability: Unstable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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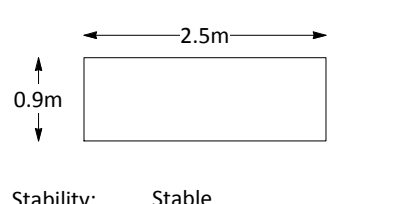
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL GPJ GINT STD AGS 3.1 GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP28C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 29.24	Co-Ordinates (m) E 510,955.3 N 179,560.0	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.50	B1					MADE GROUND. Dark brown slightly gravelly clayey sand. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic, glass and tile. Appears loose.
1.80	ES1/D1			27.54		MADE GROUND. Stiff black sandy gravelly clay. Gravel is angular to subangular, fine to coarse of ceramic and glass. Very strong hydrocarbon odour.
				26.24		(Pit terminated at 3m)

Plan 	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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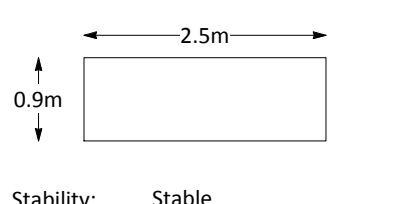
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP29C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 30.30	Co-Ordinates (m) E 510,941.9 N 17,592.4	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
1.30	ES1/D1			29.20	(1.10)	MADE GROUND. Dark brown slightly gravelly clayey sand. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic, glass and tile. Appears loose.
					(1.10)	Soft black silty clay with lenses and pockets of blue silty sand. Very strong hydrocarbon and cyanide-type odour. 1.30 - 1.35 Layer of blue billy.
				28.10	2.20	(Pit terminated at 2.2m)

Plan 	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP30C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 26.28	Co-Ordinates (m) E 510,794.1 N 179,873.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.50	ES1/D1			25.88		TOPSOIL. Brown clayey gravelly sand. Gravel is well rounded to subrounded, fine to medium of flint.
				24.88		Orangish brown SAND & GRAVEL. Gravel is well rounded to rounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.60	B1					Very stiff dark grey CLAY. [LONDON CLAY FORMATION]
1.80	B2					
1.90	D2			24.18		
(Pit terminated at 2.1m)						

Plan Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
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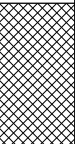
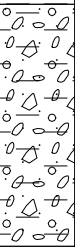
Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
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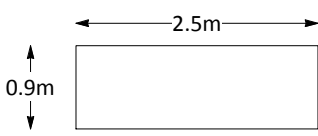
CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP31C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 29.74	Co-Ordinates (m) E 510,815.2 N 179,878.2	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.40	ES1/D1			29.14		MADE GROUND. Brown clayey gravelly sand. Gravel is angular to well rounded, fine to coarse of flint with frequent brick, concrete and asbestos containing material.
0.80	D2			28.74		Soft brown very gravelly CLAY with occasional roots and rootlets. Gravel is well rounded to rounded, fine to coarse of flint. [RIVER TERRACE DEPOSITS]
1.40	B1			27.74		Orangish brown mottled grey clayey sandy GRAVEL. Gravel is well rounded to rounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
(Pit terminated at 2m)						

Plan	General Remarks
 Stability: Stable	- Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. - No visual or olfactory evidence of contamination observed. - Pit sides were stable. - No groundwater encountered during excavation. - Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. - Trial pit backfilled with arisings upon completion. - Trial pit logged in accordance with BS5930:2015.

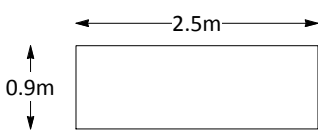
Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
Tracked Excavator			

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP32C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 29.08	Co-Ordinates (m) E 510,826.2 N 179,930.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.50	ES1/D1			28.68	(0.40)	MADE GROUND. Brown clayey gravelly sand. Gravel is angular to well rounded, fine to coarse of flint with frequent brick and concrete.
1.00	B1			27.58	(1.10)	MADE GROUND. Brown very clayey gravel with occasional roots and rootlets. Gravel is subangular to rounded, fine to coarse of flint and rare brick. Appears loose.
2.00	B2			26.88	(0.70)	Pale greyish brown SAND & GRAVEL. Gravel is well rounded to rounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
						(Pit terminated at 2.2m)

Plan  Stability: Stable	General Remarks 1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.
---	--

Method/ Plant Used Tracked Excavator	Field Crew	Logged By ARA	Checked By DRAFT
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CGL TP LOG CGN3732D TRIAL PIT SOUTHALL.GPJ GINT STD AGS 3.1.GDT 17/5/17

TRIAL PIT LOG



Project Southall Western Access Advanced Works				TRIAL PIT No TP33C
Job No CGN/03732E	Date 27-03-17	Ground Level (m) 28.85	Co-Ordinates (m) E 510,837.0 N 179,972.9	
Client CSPL				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA		
Depth (m)	Type No	Test Result (N/kPa/ppm)		Reduced Level	Legend	DESCRIPTION
0.30	ES1/D1			28.35		TOPSOIL. Brown clayey gravelly sand. Gravel is well rounded to subrounded, fine to medium of flint.
				28.05		Soft to firm orangish brown gravelly dessicated CLAY with frequent roots and rootlets. Gravel is well rounded to subrounded, fine to coarse of flint. [RIVER TERRACE DEPOSITS]
				27.25		Greyish brown SAND & GRAVEL. Gravel is well rounded to subrounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
1.70	B1					Orangish brown to pale greyish brown SAND & GRAVEL. Gravel is well rounded to subrounded, fine to coarse of flint. Appears medium dense. [RIVER TERRACE DEPOSITS]
2.00	D2			26.75		
2.20	B2			26.45		Stiff brown to orangish brown silty CLAY. [LONDON CLAY FORMATION]
2.30	D3					(Pit terminated at 2.4m)

Plan	General Remarks
Stability: Stable	1. Samples: B - Bulk, D - Disturbed, ES - Environmental Sample. 2. No visual or olfactory evidence of contamination observed. 3. Pit sides were stable. 4. No groundwater encountered during excavation. 5. Pit terminated as a competent stratum was reached and to avoid breaching groundwater table. 6. Trial pit backfilled with arisings upon completion. 7. Trial pit logged in accordance with BS5930:2015.

Method/ Plant Used	Field Crew	Logged By ARA	Checked By DRAFT
Tracked Excavator			

APPENDIX B

Geotechnical Test Results



TEST CERTIFICATE

Determination of Moisture Content

Tested in Accordance with BS 1377-2:1990: Clause 3.2

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Card Geotechnics Ltd
Client Address: 4 Godalming Business Centre
Woolsack Way
Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

Test results

Laboratory Reference	Sample Reference	Location	Depth Top [m]	Depth Base [m]	Sample Type	Description	Moisture Content [%]
729302	3	TP11C	1.5	Not Given	B	Brownish grey CLAY	31
729303	1	TP12C	0.5	Not Given	B	Brown slightly clayey very sandy GRAVEL	5.0
729304	3	TP12C	1.4	Not Given	B	Grey slightly gravelly slightly sandy CLAY	29
729305	1	TP13C	0.3	Not Given	D	Greyish brown slightly sandy silty CLAY	22
729306	3	TP13C	1.4	Not Given	B	Yellowish brown clayey very sandy GRAVEL	7.6
729307	2	TP14C	1.2	Not Given	D	Brown slightly gravelly CLAY	32
729308	1	TP16C	1.5	Not Given	B	Brown slightly gravelly slightly sandy CLAY	30
729290	1	TP1C	1	Not Given	B	Yellowish brown clayey sandy GRAVEL	14
729309	2	TP20C	1.4	Not Given	B	Yellowish brown slightly gravelly slightly sandy CLAY	44
729320	Not Given	TP21C	0.7	Not Given	B	Brown slightly sandy CLAY	29

Remarks

Approved:

Mirosława Pytlik
PL Snr Quality Specialist
Geotechnical Section

Signed:

Sushil Sharda
Technical Manager
(Geotechnical Division)

Date Reported: 20/04/2017

for and on behalf of i2 Analytical Ltd

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Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

Test results

Laboratory Reference	Sample Reference	Location	Depth Top [m]	Depth Base [m]	Sample Type	Description	Moisture Content [%]
729310	1	TP22C	0.4	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY	26
729311	1	TP23C	0.4	Not Given	B	Brown slightly gravelly slightly sandy CLAY	37
729312	1	TP24C	1	Not Given	B	Brownish grey slightly gravelly slightly sandy CLAY	29
729313	1	TP25C	1.5	Not Given	B	Dark brown slightly gravelly slightly sandy CLAY	38
729321	Not Given	TP27	0.5	Not Given	B	Dark brown clayey very gravelly SAND	43 *
729314	1	TP27C	2.5	Not Given	D	Dark brown slightly gravelly organic CLAY	65
729315	1	TP30C	1	Not Given	B	Brown slightly clayey sandy GRAVEL	4.1
729316	1	TP31C	1.4	Not Given	B	Brown sandy clayey GRAVEL	12
729317	1	TP32C	1	Not Given	B	Yellowish brown slightly sandy gravelly CLAY	17
729318	2	TP32C	2	Not Given	B	Brown clayey very sandy GRAVEL	6.5

Remarks * - sample is very wet

Approved:

Mirosława Pytlik
PL Snr Quality Specialist
Geotechnical Section

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Technical Manager
(Geotechnical Division)

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Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04 - 11/04/2017
Sampled By: Not Given

Test results

Laboratory Reference	Sample Reference	Location	Depth Top [m]	Depth Base [m]	Sample Type	Description	Moisture Content [%]
729319	2	TP33C	2.2	Not Given	B	Brown slightly sandy CLAY	21
729291	1	TP3C	1	Not Given	B	Yellowish brown slightly gravelly slightly sandy CLAY	28
729292	2	TP3C	1.7	Not Given	B	Brown sandy clayey GRAVEL	11
729293	1	TP4C	0.4	Not Given	D	Dark brown sandy clayey SILT	29
729294	2	TP4C	2	Not Given	B	Grey slightly sandy clayey GRAVEL	9.4
729295	2	TP5C	0.5	Not Given	B	Brown slightly sandy silty CLAY	22
729298	1	TP6C	0.4	Not Given	B	Grey slightly sandy clayey GRAVEL	9.8
729296	1	TP6C	0.5	Not Given	B	Brown gravelly silty CLAY	18
729297	2	TP6C	1.85	Not Given	D	Brown slightly gravelly CLAY	28
729299	3	TP7C	1.6	Not Given	D	Brown CLAY	23

Remarks

Approved:

Mirosława Pytlik
PL Snr Quality Specialist
Geotechnical Section

Signed:

Sushil Sharda
Technical Manager
(Geotechnical Division)

Date Reported: 20/04/2017

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TEST CERTIFICATE

Determination of Moisture Content

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Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 11/04/2017
Sampled By: Not Given

Test results

Laboratory Reference	Sample Reference	Location	Depth Top [m]	Depth Base [m]	Sample Type	Description	Moisture Content [%]
729300	2	TP8C	0.45	Not Given	B	Dark brown sandy silty CLAY	22
729301	3	TP8C	0.8	Not Given	B	Brown clayey very sandy GRAVEL	6.8

Remarks

Approved:

Mirosława Pytlik
PL Snr Quality Specialist
Geotechnical Section

Signed:

Sushil Sharda
Technical Manager
(Geotechnical Division)

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Card Geotechnics Ltd
Client Address: 4 Godalming Business Centre
Woolsack Way
Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

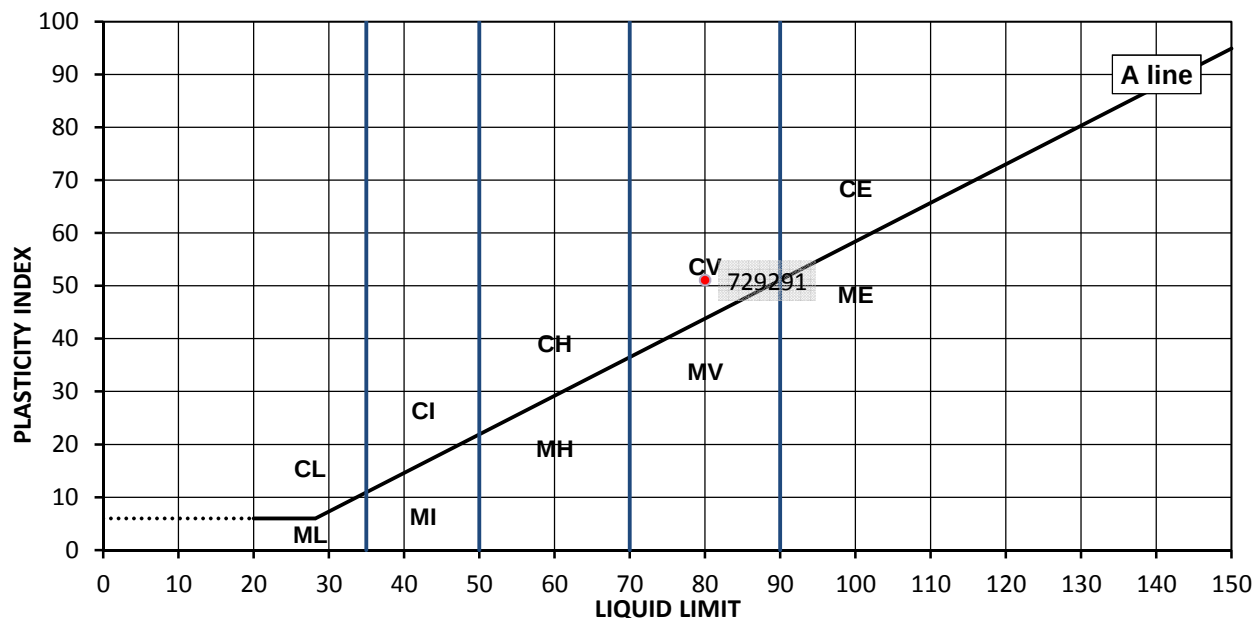
TEST RESULTS

Laboratory Reference: 729291
Sample Reference: 1

Description: Yellowish brown slightly gravelly slightly sandy CLAY
Location: TP3C
Sample Preparation: Tested after >425um removed by hand

Sample Type: B
Depth Top [m]: 1
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
28	80	29	51	70



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
	O	append to classification for organic material (eg CHO)
	Organic	

Remarks

Approved:

Mirosława Pytlík
PL Snr Quality Specialist
Geotechnical Section

Date Reported: 20/04/2017

Signed:

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Technical Manager
(Geotechnical Division)

for and on behalf of i2 Analytical Ltd

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Determination of Liquid and Plastic Limits

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Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 11/04/2017
Sampled By: Not Given

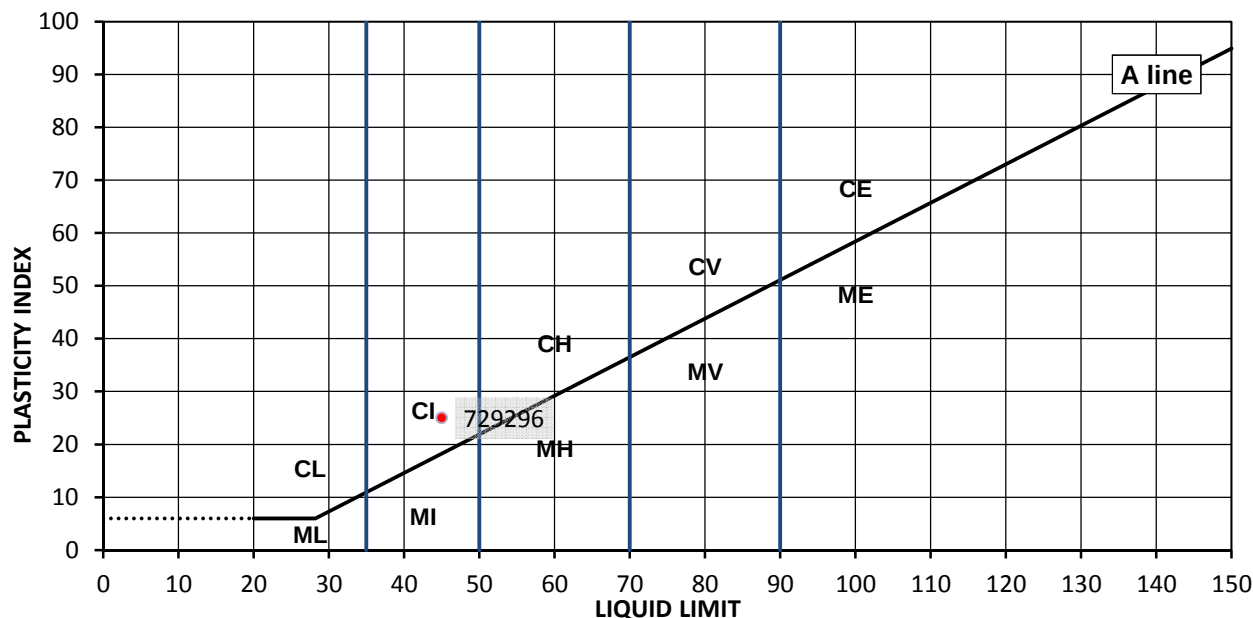
TEST RESULTS

Laboratory Reference: 729296
Sample Reference: 1

Description: Brown gravelly silty CLAY
Location: TP6C
Sample Preparation: Tested after >425um removed by hand

Sample Type: B
Depth Top [m]: 0.5
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
18	45	20	25	71



Remarks

Approved:

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TEST CERTIFICATE

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Client: Card Geotechnics Ltd
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Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 729297
Sample Reference: 2

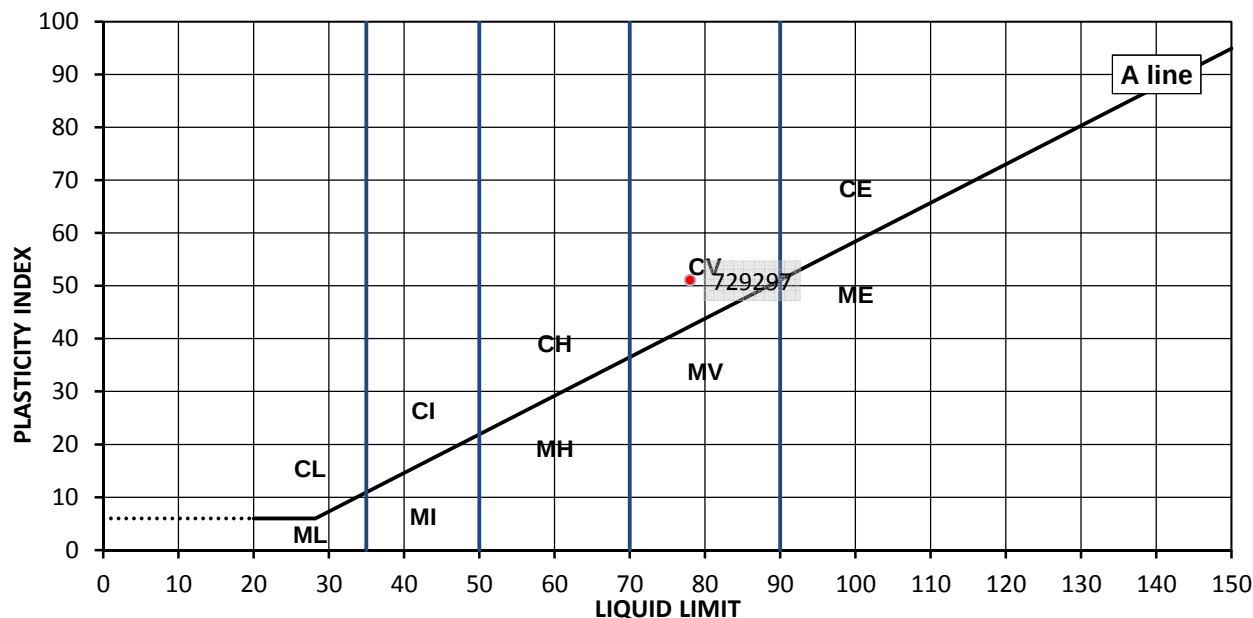
Description: Brown slightly gravelly CLAY

Location: TP6C

Sample Preparation: Tested after >425um removed by hand

Sample Type: D
Depth Top [m]: 1.85
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
28	78	27	51	98



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
	O	append to classification for organic material (eg CHO)
	Organic	

Remarks

Approved:

Mirosława Pytlík
PL Snr Quality Specialist
Geotechnical Section

Date Reported: 20/04/2017

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Technical Manager
(Geotechnical Division)

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Card Geotechnics Ltd
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Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

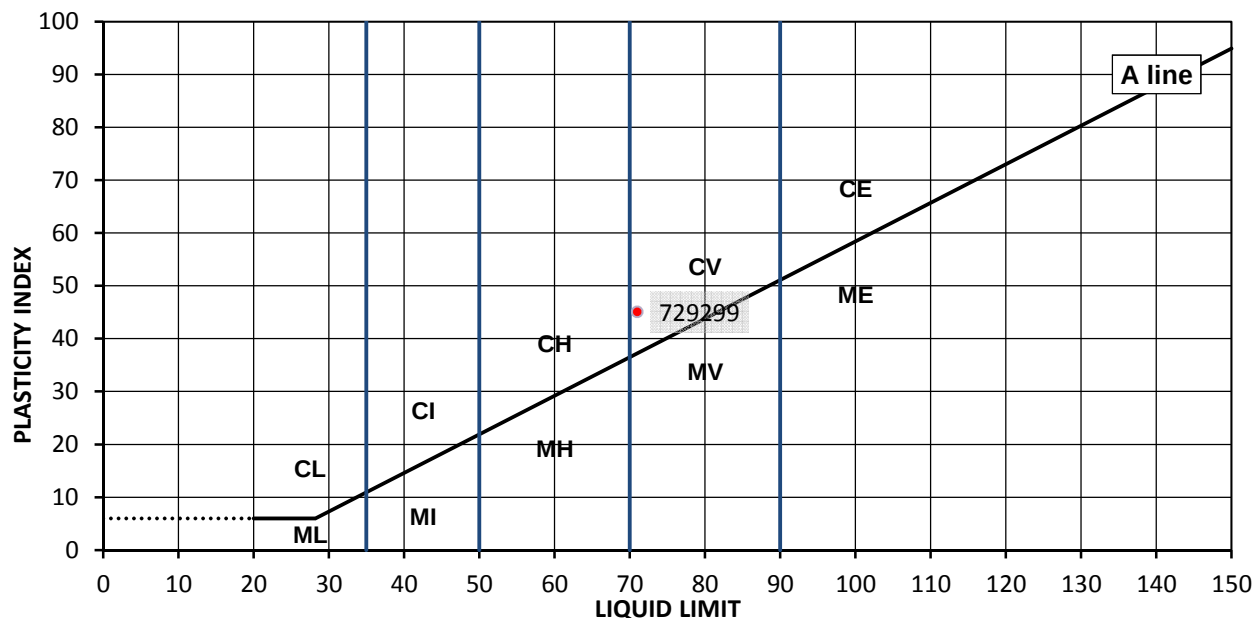
TEST RESULTS

Laboratory Reference: 729299
Sample Reference: 3

Description: Brown CLAY
Location: TP7C
Sample Preparation: Tested in natural condition

Sample Type: D
Depth Top [m]: 1.6
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	71	26	45	100



Remarks

Approved:

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Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

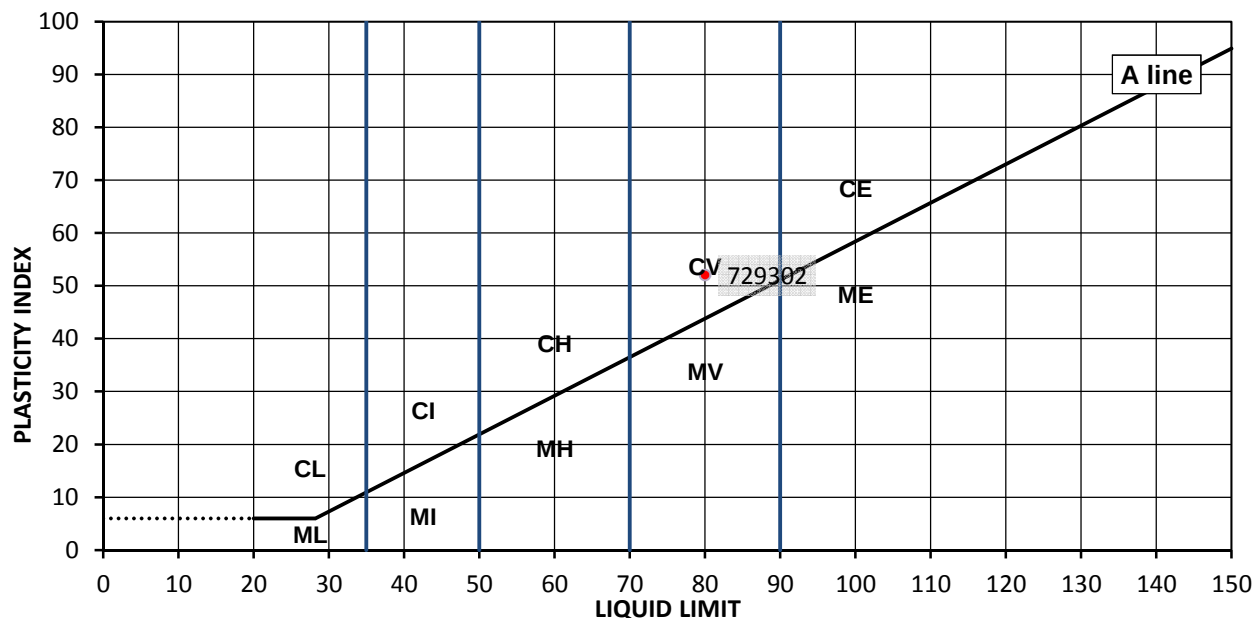
TEST RESULTS

Laboratory Reference: 729302
Sample Reference: 3

Description: Brownish grey CLAY
Location: TP11C
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.5
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
31	80	28	52	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
	O	append to classification for organic material (eg CHO)
	Organic	

Remarks

Approved:

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Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

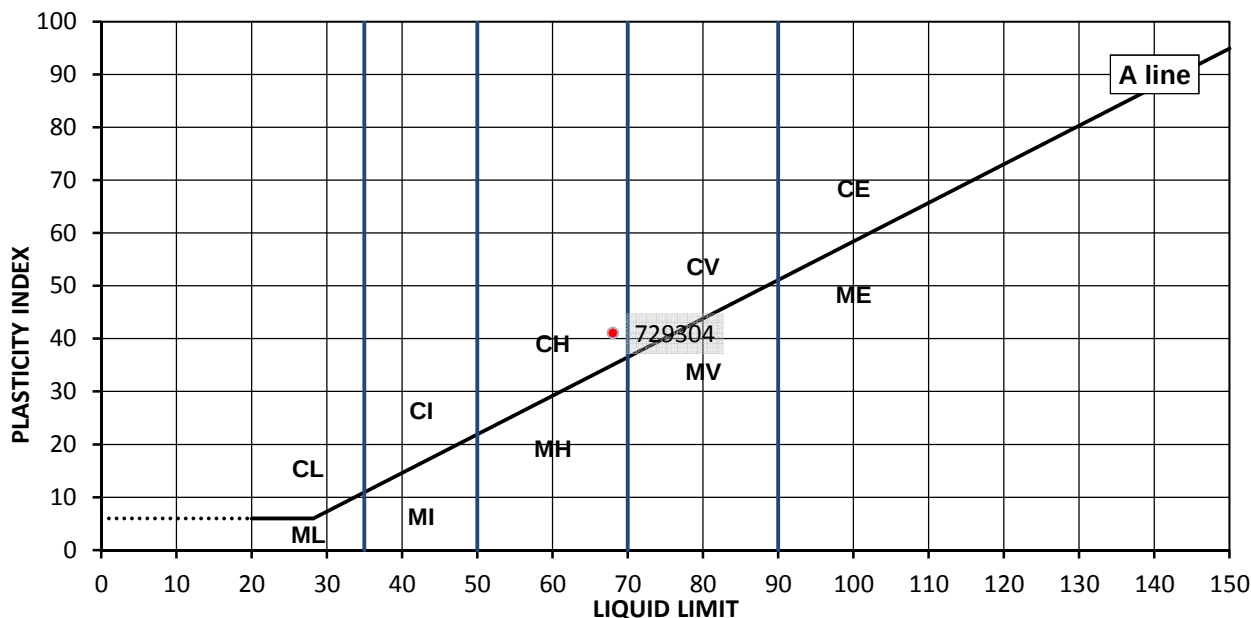
TEST RESULTS

Laboratory Reference: 729304
Sample Reference: 3

Description: Grey slightly gravelly slightly sandy CLAY
Location: TP12C
Sample Preparation: Tested after >425um removed by hand

Sample Type: B
Depth Top [m]: 1.4
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
29	68	27	41	94



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C Clay	L Low	below 35
M Silt	I Medium	35 to 50
	H High	50 to 70
	V Very high	70 to 90
	E Extremely high	exceeding 90
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Mirosława Pytlík
PL Snr Quality Specialist
Geotechnical Section

Date Reported: 20/04/2017

Signed:

Sushil Sharda
Technical Manager
(Geotechnical Division)

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Card Geotechnics Ltd
Client Address: 4 Godalming Business Centre
Woolsack Way
Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 729307
Sample Reference: 2

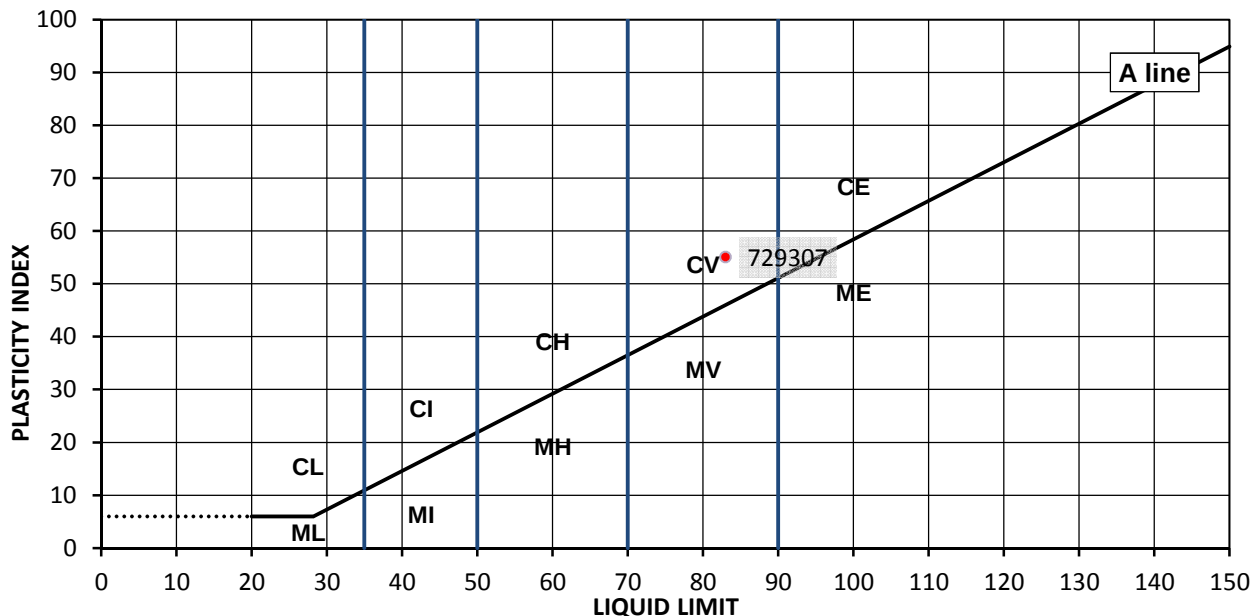
Description: Brown slightly gravelly CLAY

Location: TP14C

Sample Preparation: Tested after >425um removed by hand

Sample Type: D
Depth Top [m]: 1.2
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
32	83	28	55	98



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L Low	50 to 70
	I Medium	70 to 90
	H High	exceeding 90
	V Very high	
	E Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

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Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

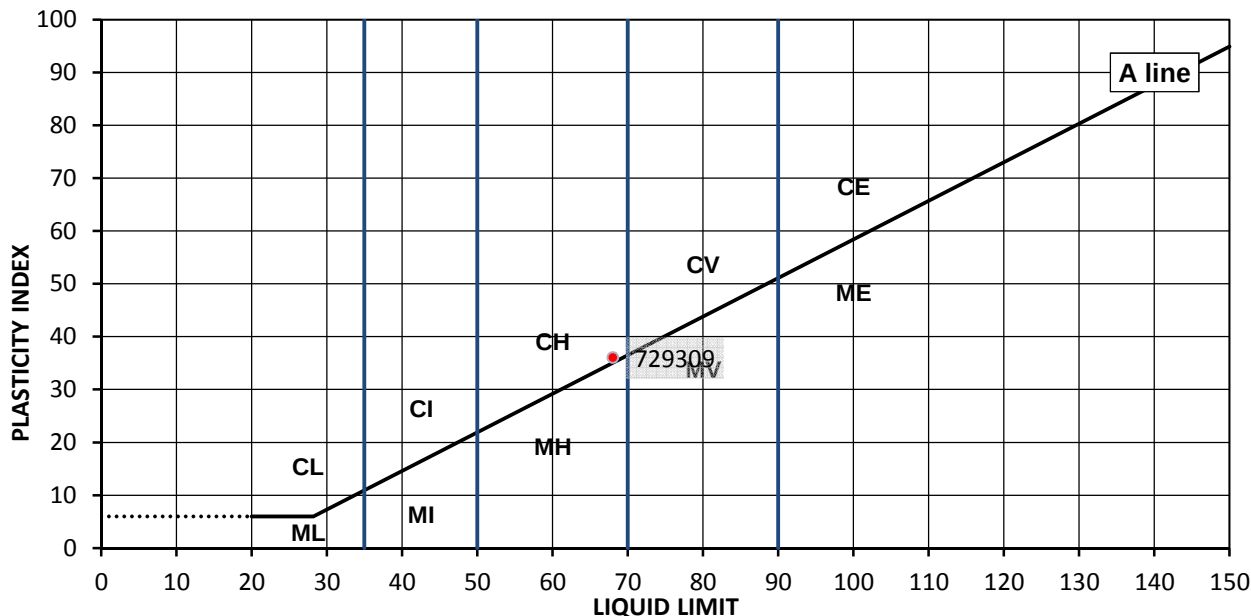
TEST RESULTS

Laboratory Reference: 729309
Sample Reference: 2

Description: Yellowish brown slightly gravelly slightly sandy CLAY
Location: TP20C
Sample Preparation: Tested after washing to remove >425um

Sample Type: B
Depth Top [m]: 1.4
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
44	68	32	36	85



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Mirosława Pytlík
PL Snr Quality Specialist
Geotechnical Section

Signed:

Sushil Sharda
Technical Manager
(Geotechnical Division)

Date Reported: 20/04/2017

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Client: Card Geotechnics Ltd
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Woolsack Way
Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
Site Address: Not Given

Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

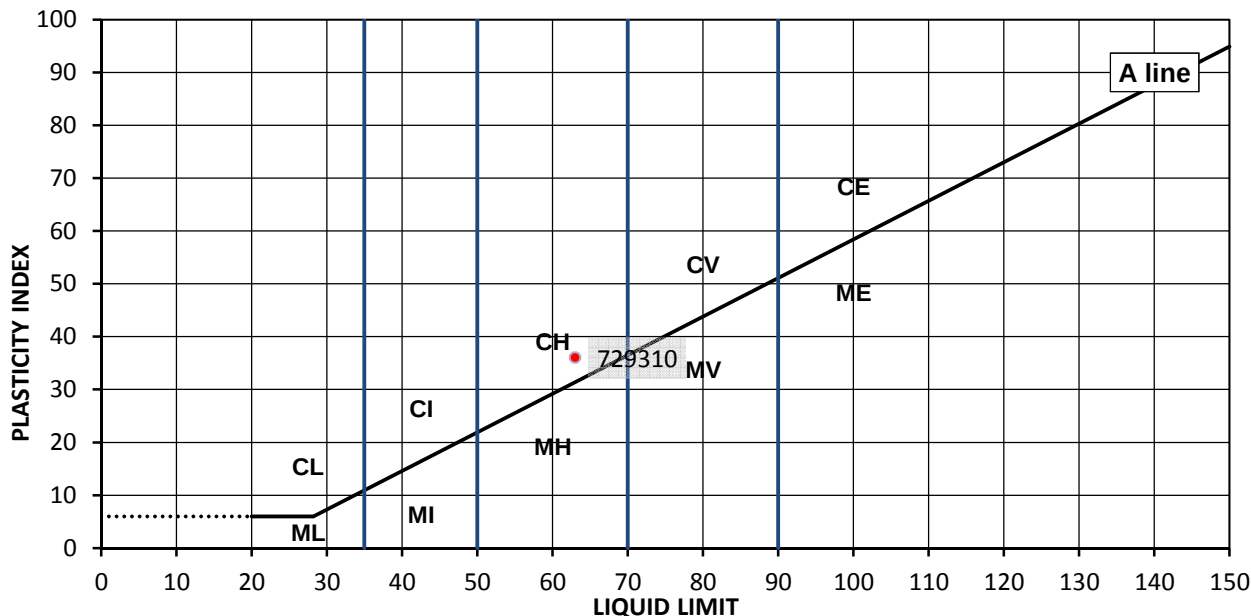
TEST RESULTS

Laboratory Reference: 729310
Sample Reference: 1

Description: Yellowish brown slightly gravelly slightly sandy CLAY
Location: TP22C
Sample Preparation: Tested after washing to remove >425um

Sample Type: D
Depth Top [m]: 0.4
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	63	27	36	68



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Mirosława Pytlík
PL Snr Quality Specialist
Geotechnical Section

Signed:

Sushil Sharda
Technical Manager
(Geotechnical Division)

Date Reported: 20/04/2017

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Watford Herts WD18 8YS



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Client: Card Geotechnics Ltd
Client Address: 4 Godalming Business Centre
Woolsack Way
Godalming
Surrey GU7 1XW
Contact: Amir Abbasi
Site Name: Southall
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Client Reference: CGN-3732D
Job Number: 17-44724
Date Sampled: Not Given
Date Received: 28/03/2017
Date Tested: 10/04/2017
Sampled By: Not Given

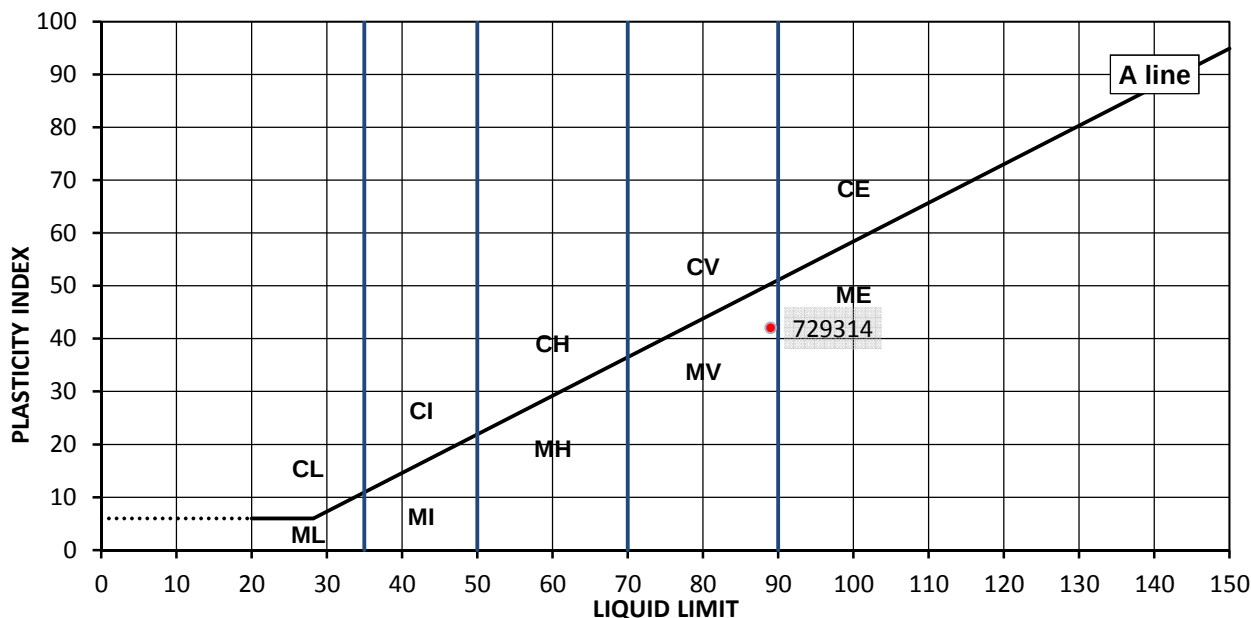
TEST RESULTS

Laboratory Reference: 729314
Sample Reference: 1

Description: Dark brown slightly gravelly organic CLAY
Location: TP27C
Sample Preparation: Tested after >425um removed by hand

Sample Type: D
Depth Top [m]: 2.5
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
65	89	47	42	99



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Mirosława Pytlík
PL Snr Quality Specialist
Geotechnical Section

Date Reported: 20/04/2017

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