

[illegible]

Borehole Log

[illegible]

Borehole Log

[illegible]

Borehole Log

[illegible]

Borehole Log



Drilled Logged EP Checked DB Approved SW		Start 05/12/2015 End 05/12/2015		Equipment, Methods and Remarks Hand excavated inspection pit from GL to 1.20m. Window sampling from 1.20m to 7.00m.		Depth from (m)		to (m)		Diameter (mm)		Casing Depth (m)		Ground Level 20.19 mOD	
														Coordinates (m) E 529749.45	
														National Grid N 183194.12	

Samples and Tests					Strata Description				
Depth	Type & No	Records	Date Casing	Time Water	Main	Detail	Depth, Level (Thickness)	Legend	Backfill
0.30	ES 1	4 samples taken			(MADE GROUND) MACADAM.		0.10 (0.10) +20.09		
0.50	ES 2	4 samples taken			(MADE GROUND) Brown sandy GRAVEL with high cobble content. Gravel is angular to subangular, fine to coarse of brick, macadam and concrete. Sand is fine to coarse.		(1.40)		
1.00	ES 3	4 samples taken							
1.20	D 4								
2.00	D 5				(MADE GROUND) Soft brown sandy gravelly CLAY. Gravel is angular to subangular, fine to coarse of brick and concrete. Sand is fine to coarse.		1.50 +18.69		
2.50	ES 6	4 samples taken					(1.60)		
3.00	D 7								
3.50	ES 8	4 samples taken			Firm becoming stiff brown mottled grey CLAY. (LONDON CLAY FORMATION)		3.10 +17.09		
3.70	D 9								
4.00	D 10								
5.00	D 11						(3.90)		
6.00	D 12								
6.50 - 7.00	B 13								
7.00	D 14				END OF EXPLORATORY HOLE		7.00 +13.19		

Groundwater Entries No. Depth Strike (m) Remarks			Depth Sealed (m)			Depth Related Remarks Depths (m) Remarks			Hard Boring Depths (m) Duration (mins) Tools used		

Notes: For explanation of symbols and abbreviations see Key to Exploratory Hole Records. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.		Project Central Somers Town, London		Borehole WS18	
Scale 1:50 (c) ESG www.esg.co.uk 03/05/2016 11:47:29		Project No. D5061-15		Sheet 1 of 1	
		Carried out for London Borough of Camden			

Borehole Log



Drilled Logged EP Checked DB Approved SW		Start 05/12/2015 End 05/12/2015	Equipment, Methods and Remarks Hand excavated inspection pit from GL to 1.20m. Window sampling from 1.20m to 7.00m.		Depth from (m)	to (m)	Diameter (mm)	Casing Depth (m)	Ground Level 20.14 mOD Coordinates (m) E 529772.47 National Grid N 183184.66
Samples and Tests					Strata Description				
Depth	Type & No	Records	Date Casing	Time Water	Main	Detail	Depth, Level (Thickness)	Legend	Backfill
0.50	ES 1	4 samples taken			(TOPSOIL) Dark brown clayey SAND. Sand is fine to coarse.		(0.20) +19.94		
0.80	ES 2	4 samples taken			(MADE GROUND) Dark brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of brick, concrete and flint.		(0.40) +19.55		
1.20	D 3				(MADE GROUND) Light grey sandy GRAVEL. Gravel is angular to subrounded, fine to coarse of brick and flint. Sand is fine to coarse.		(0.40) +19.14		
1.50	ES 4	4 samples taken			(MADE GROUND) Firm brown slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded, fine to coarse of flint and brick. Sand is fine to coarse.		(1.50)		
2.00	D 5								
2.50	D 6				Firm to stiff brown mottled bluish grey CLAY. (LONDON CLAY FORMATION)		2.50 +17.64		
3.00	D 7								
3.50	D 8								
4.00	D 9								
5.00	D 10						(4.50)		
6.00	D 11								
6.50	D 12								
7.00	D 13				END OF EXPLORATORY HOLE		7.00 +13.14		
Groundwater Entries No. Depth Strike (m) Remarks					Depth Related Remarks Depths (m) Remarks		Hard Boring Depths (m) Duration (mins) Tools used		
Notes: For explanation of symbols and abbreviations see Key to Exploratory Hole Records. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Central Somers Town, London		Borehole WS19		
Scale 1:50 (c) ESG www.esg.co.uk 03/05/2016 11:47:29					Project No. D5061-15 Carried out for London Borough of Camden		Sheet 1 of 1		

Borehole Log

[illegible]

Borehole Log



Drilled	GW	Start	Equipment, Methods and Remarks			Depth from	to	Diameter	Casing Depth	Ground Level	18.47 mOD
Logged	TO	30/11/2015	Hand excavated inspection pit from GL to 1.20m. Window sampling from 1.20m to 1.90m. Terminated at 1.90m due to refusal			(m)	(m)	(mm)	(m)	Coordinates (m)	E 529792.17
Checked	MM	End						National Grid	N 183217.52		
Approved	SW	30/11/2015									
Samples and Tests						Strata Description					
Depth	Type & No	Records	Date	Time	Main	Detail	Depth, Level	Legend	Backfill		
			Casing	Water			(Thickness)				
0.30	ES 1	4 samples taken 4 samples taken			Grass over TOPSOIL. (MADE GROUND) Brown slightly gravelly fine to coarse SAND with occasional rootlets. Gravel is angular to subangular, fine to coarse of brick and flint. (MADE GROUND) Brown gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular, fine to coarse brick, concrete and flint. Cobbles are angular of brick and concrete.		0.10 (0.10) +18.37				
0.30 - 1.20	B 4						0.20 (0.10) +18.27				
0.50	ES 2										
1.00	ES 3	4 samples taken			END OF EXPLORATORY HOLE		(1.70)				
1.20	D 5										
1.60	D 6										
1.80	ES 7	4 samples taken									
							1.90 +16.57				
Groundwater Entries						Hard Boring					
No.	Depth	Strike (m)	Remarks	Depth Sealed (m)	Depth Related Remarks	Depths (m)		Remarks		Depths (m)	Duration (mins) Tools used
					1.20 - 1.90	0.70m recovery					
Notes: For explanation of symbols and abbreviations see Key to Exploratory Hole Records. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.						Project Central Somers Town, London					
Scale 1:50 (c) ESG www.esg.co.uk 03/05/2016 11:48:26						Project No. D5061-15					
Carried out for London Borough of Camden						Borehole WS20A					
						Sheet 1 of 1					

Borehole Log

[illegible]

Borehole Log

[illegible]

Borehole Log



Drilled GW Logged TO Checked MM Approved SW	Start 20/11/2015 End 20/11/2015	Equipment, Methods and Remarks Hand dug inspection pit from GL to 1.20m. Window sampling from 1.20m to 3.65m. Hole terminated at 3.65m during SPT due to refusal.	Depth from (m) 1.20 2.20	to (m) 2.20 3.20	Diameter (mm) 101 87	Casing Depth (m)	Ground Level 17.83 mOD Coordinates (m) E 529824.34 National Grid N 183207.90													
Samples and Tests			Strata Description																	
Depth 0.30 0.30 - 1.20 0.50 1.00 1.20 - 1.65 1.20 1.60 2.00 2.20 - 2.65 2.40 2.40 3.00 3.20 - 3.65	Type & No ES 1 B 5 ES 2 ES 3 SPTS D 6 D 7 D 8 SPTS ES 4 D 9 D 10 SPTS	Records 4 samples taken 4 samples taken N=8 (0,1/2,2,2,2) N=1 (0,0/0,1,0,0) N=12 (20,7/4,3,3,2)	Date Casing Time Water	Main (MADE GROUND) MACADAM. (MADE GROUND) Brown gravelly fine to coarse SAND with low cobble content and occasional rootlets. Gravel is angular to subangular, fine to coarse of brick and concrete. Cobbles are angular of brick, flint and concrete. (MADE GROUND) Soft to firm brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular, fine to coarse of brick, flint and sandstone. END OF EXPLORATORY HOLE	Detail	Depth, Level (Thickness) 0.20 +17.63 (0.60) 0.80 +17.03 (2.85) 3.65 +14.18	Legend 	Backfill 												
Groundwater Entries <table border="1"> <thead> <tr> <th>No.</th> <th>Depth Strike (m)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.50</td> <td>Rose to 1.60 m after 20 minutes.</td> </tr> </tbody> </table>			No.	Depth Strike (m)	Remarks	1	2.50	Rose to 1.60 m after 20 minutes.	Depth Sealed (m)	Depth Related Remarks <table border="1"> <thead> <tr> <th>Depths (m)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1.20 - 2.00</td> <td>0.70m recovery.</td> </tr> <tr> <td>2.00 - 3.20</td> <td>0.60m recovery.</td> </tr> </tbody> </table>	Depths (m)	Remarks	1.20 - 2.00	0.70m recovery.	2.00 - 3.20	0.60m recovery.	Hard Boring <table border="1"> <thead> <tr> <th>Depths (m)</th> <th>Duration (mins)</th> <th>Tools used</th> </tr> </thead> <tbody> </tbody> </table>	Depths (m)	Duration (mins)	Tools used
No.	Depth Strike (m)	Remarks																		
1	2.50	Rose to 1.60 m after 20 minutes.																		
Depths (m)	Remarks																			
1.20 - 2.00	0.70m recovery.																			
2.00 - 3.20	0.60m recovery.																			
Depths (m)	Duration (mins)	Tools used																		
Notes: For explanation of symbols and abbreviations see Key to Exploratory Hole Records. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.			Project Central Somers Town, London Project No. D5061-15 Carried out for London Borough of Camden	Borehole WS22 Sheet 1 of 1																



Borehole Log

[illegible]

Borehole Log

[illegible]

Borehole Log

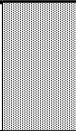
[illegible]

Borehole Log

[illegible]

Borehole Log



Drilled	BW/AM	Start	Equipment, Methods and Remarks		Depth from	to	Diameter	Casing Depth	Ground Level	17.72 mOD	
Logged	EP	18/11/2015	Hand Tools Hand dug inspection pit from GL to 0.85m. Pit terminated at 0.85m due to concrete obstruction.		(m)	(m)	(mm)	(m)	Coordinates (m)	E 529853.72	
Checked	SW	End							National Grid	N 183180.96	
Approved	SW	18/11/2015									
Samples and Tests					Strata Description						
Depth	Type & No	Records	Date Casing	Time Water	Main	Detail	Depth, Level (Thickness)	Legend	Backfill		
					(TOPSOIL) Brown organic silty SAND with rootlets. (MADE GROUND) Brown sandy GRAVEL with high cobble content. Gravel and cobbles are of brick and concrete. Occasional boulder sized concrete fragments.		0.10 (0.10) +17.62 (0.75) 0.85 +16.87				
					END OF EXPLORATORY HOLE						
Groundwater Entries					Depth Related Remarks			Hard Boring			
No.	Depth	Strike (m)	Remarks	Depth Sealed (m)	Depths (m)	Remarks	Depths (m)	Duration (mins)	Tools used		
Notes: For explanation of symbols and abbreviations see Key to Exploratory Hole Records. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project			Borehole			
Scale 1:50					Project No.			WS25			
(c) ESG www.esg.co.uk 03/05/2016 11:49:26					Carried out for			Sheet 1 of 1			
AGS					Central Somers Town, London						
					D5061-15						
					London Borough of Camden						

[illegible]

Borehole Log

[illegible]

Borehole Log

[illegible]

Borehole Log



Drilled	GW	Start	Equipment, Methods and Remarks			Depth from	to	Diameter	Casing Depth	Ground Level	20.19 mOD
Logged	TO	17/11/2015	Hand dug inspection pit from GL to 1.20m. Window sampling from 1.20m to 7.20m.			1.20	2.20	101	(m)	Coordinates (m)	E 529823.67
Checked	MM	End				2.20	5.20	87		National Grid	N 183146.01
Approved	SW	17/11/2015				5.20	7.20	77			
Samples and Tests						Strata Description					
Depth	Type & No	Records	Date	Time	Main	Detail	Depth, Level (Thickness)	Legend	Backfill		
			Casing	Water							
0.30 0.30 - 1.20 0.50	ES 1 B 4 ES 2	4 samples taken 4 samples taken			(MADE GROUND) Grass over brown slightly clayey fine to coarse SAND with occasional rootlets.		0.20 +19.99				
1.00 1.20 - 1.65 1.20 1.40	ES 3 SPTS D 5 D 6	4 samples taken 1.20-2.00 0.58m recovery. N=11 (1,2/5,3,2,1)			(MADE GROUND) Brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is angular to subangular, fine to coarse of brick and concrete.		(1.00) 1.20 +18.99				
2.00 2.20 - 2.65	D 7 SPTS	2.00-3.00 0.80m recovery N=15 (3,3/3,3,4,5)			(MADE GROUND) Medium dense brown gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular, fine to coarse of brick and flint. Cobbles are angular of brick.		(1.30) 2.50 +17.69				
2.50 3.00 3.20 - 3.65	D 8 D 9 SPTS	3.00-4.00 0.80m recovery. N=10 (1,2/2,2,3,3)			(MADE GROUND) Brown slightly gravelly silty CLAY. Gravel is angular to subangular, fine to coarse of brick and flint.		(0.50) 3.00 +17.19				
3.50 4.00 4.20 - 4.65 4.20	D 10 D 11 SPTS ES 4	4.00-5.00 0.90m recovery. N=34 (6,7/7,9,10,8) 4 samples taken			(MADE GROUND) Medium dense brown gravelly fine to coarse SAND. Gravel is angular to subangular, fine to coarse of brick and flint.		(1.20) 4.20 +15.99				
4.60 5.00 5.20 - 5.65	D 12 D 13 SPTS	5.00-6.00 0.90m recovery. N=33 (8,7/8,9,7,9)			Stiff brown mottled grey silty CLAY. (LONDON CLAY FORMATION)		(3.45) 5.50 7.65 +12.54				
5.50 6.00 6.20 - 6.65	D 14 D 15 SPTS	6.00-7.00 0.90m recovery. N=33 (8,6/9,8,9,7)									
6.60 7.00 7.20 - 7.65	D 16 D 17 SPTS	N=34 (8,7/8,9,8,9)									
END OF EXPLORATORY HOLE											
Groundwater Entries			Depth Related Remarks			Hard Boring					
No.	Depth	Strike (m)	Remarks	Depth Sealed (m)	Depths (m)	Remarks	Depths (m)	Duration (mins)	Tools used		
Notes: For explanation of symbols and abbreviations see Key to Exploratory Hole Records. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.						Project					
Scale 1:50						Central Somers Town, London					
(c) ESG www.esg.co.uk 03/05/2016 11:49:27						Project No.					
AGS						D5061-15					
						Carried out for					
						London Borough of Camden					
						Borehole					
						WS27					
						Sheet 1 of 1					

Borehole Log

[illegible]

Borehole Log

[illegible]

APPENDIX C

INSTRUMENTATION AND MONITORING

Installation Details

Table C1

Gas and Groundwater Monitoring

Table C2

Groundwater Installation Details



Instrument reference	Instrument type (see Notes)	Installation date	Pipe diameter (mm)	Instrument base (mbgl)	Response zone range (mbgl)	Pipe top details	Headworks	Remarks
BH1 (1)	SP	04/12/2015	50	24.20	21.20 to 24.20	Gas tap	Flush Cover	
BH1 (2)	SP	04/12/2015	50	15.50	6.50 to 15.50	Gas tap	Flush Cover	
BH10	SP	06/01/2016	50	30.30	21.00 to 30.00	Gas tap	Flush Cover	
BH4	SP	24/11/2015	50	16.00	7.00 to 16.00	Gas tap	Flush Cover	
BH7	SP	15/12/2015	50	30.36	20.00 to 30.36	Gas tap	Flush Cover	
BH9	SP	22/12/2015	50	7.50	4.50 to 7.50	Gas tap	Flush Cover	

Notes:



Project Central Somers Town, London
Project No. D5061-15
Carried out for London Borough of Camden

Table

C1

[illegible]

ESG

Gas Monitoring Record

[illegible]

ESG

Gas Monitoring Record

[illegible]

[illegible]

[illegible]

[illegible]

ESG

Gas Monitoring Record

[illegible]

Project No						D5061-15					Project						Central Somers Town, London						Sheet No													
Date						17/02/2016					State of Ground						Dry						C2-2/4													
Operator						AG					Wind						Light																			
											Wind Direction						N/A																			
											Cloud Cover						Overcast																			
Equipment Used						LMSx (1463) / Dip Meter (32482)					Precipitation						None																			
											Detection Limits							<0.1		<0.1		<0.1		<0.1		<1		<1		<0.1						
Borehole ID		Inst ID	Depth of Installation (m BGL)		Time of Reading hh:mm:ss		Barometric Pressure (mbars)		Air temp (°C)		Reading Depth (mBGL)		Dip to Base of Pipe		Depth to Groundwater (m BGL)		Differential Pressure (Pa)		FlowRate (l/hr)		CH4 (% vol)		CH4 (% LEL)		O2 (% vol)		CO2 (% vol)		CO (ppm)		H2S (ppm)		Nitrogen (%vol)		Remarks	
BH10		1	30.30		12:10:00		1020		7		0.00		30.32		15.31		0.2		0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH10		1	30.30		12:10:30		1020		7		0.00						0.1		<0.1		<0.1		<0.1		19.9		<0.1		<1		<1					
BH10		1	30.30		12:11:00		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.8		<0.1		<1		<1					
BH10		1	30.30		12:11:30		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.7		<0.1		<1		<1					
BH10		1	30.30		12:12:00		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.7		<0.1		<1		<1					
BH10		1	30.30		12:12:30		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.7		<0.1		<1		<1					
BH10		1	30.30		12:13:00		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.7		<0.1		<1		<1					
BH10		1	30.30		12:14:00		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.7		<0.1		<1		<1					
BH10		1	30.30		12:15:00		1020		7		0.00						0.0		<0.1		<0.1		<0.1		19.7		<0.1		<1		<1					
BH9		1	7.50		11:55:00		1021		7		0.00		7.33		2.75		0.1		<0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH9		1	7.50		11:55:30		1021		7		0.00						0.1		<0.1		<0.1		<0.1		20.6		<0.1		<1		<1					
BH9		1	7.50		11:56:00		1021		7		0.00						0.1		<0.1		<0.1		<0.1		20.6		<0.1		<1		<1					
BH9		1	7.50		11:56:30		1021		7		0.00						0.1		<0.1		<0.1		<0.1		20.6		<0.1		<1		<1					
BH9		1	7.50		11:57:00		1021		7		0.00						0.1		<0.1		<0.1		<0.1		20.6		<0.1		<1		<1					
BH9		1	7.50		11:57:30		1021		7		0.00						0.1		<0.1		<0.1		<0.1		20.6		<0.1		<1		<1					
BH9		1	7.50		11:58:00		1021		7		0.00																									

[illegible]

ESG

Gas Monitoring Record

[illegible]

ESG

Gas Monitoring Record

[illegible]

[illegible]

Project No						D5061-15					Project						Central Somers Town, London						Sheet No													
Date						12/04/2016					State of Ground						Dry						C2-4/1													
Operator						AG					Wind						Light																			
											Wind Direction						N/A																			
											Cloud Cover						Slight																			
Equipment Used						LMSx (1463) / Dip Meter (5303)					Precipitation						None																			
											Detection Limits							<0.1		<0.1		<0.1		<0.1		<1		<1		<0.1						
Borehole ID		Inst ID	Depth of Installation (m BGL)		Time of Reading hh:mm:ss		Barometric Pressure (mbars)		Air temp (°C)		Reading Depth (mBGL)		Dip to Base of Pipe		Depth to Groundwater (m BGL)		Differential Pressure (Pa)		FlowRate (l/hr)		CH4 (% vol)		CH4 (% LEL)		O2 (% vol)		CO2 (% vol)		CO (ppm)		H2S (ppm)		Nitrogen (%vol)		Remarks	
BH1		1	24.20		11:15:00		1010		14		0.00		24.64		4.64		-0.3		-0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH1		1	24.20		11:15:30		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.7		1.1		<1		<1					
BH1		1	24.20		11:16:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		1	24.20		11:16:30		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		1	24.20		11:17:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		1	24.20		11:17:30		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		1	24.20		11:18:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		1	24.20		11:19:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		1	24.20		11:20:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		2	15.50		11:25:00		1010		14		0.00		15.33		4.61		-0.2		-0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH1		2	15.50		11:25:30		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		17.1		2.1		<1		<1					
BH1		2	15.50		11:26:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		17.8		1.8		<1		<1					
BH1		2	15.50		11:26:30		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		18.2		1.5		<1		<1					
BH1		2	15.50		11:27:00		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		18.8		1.0		<1		<1					
BH1		2	15.50		11:27:30		1010		14		0.00						-0.2		-0.1		<0.1		<0.1		19.1		0.9		<1		<1					
BH1		2	15.50		11:28:00		1010		14		0.00																									

Project No						D5061-15					Project						Central Somers Town, London						Sheet No													
Date						12/04/2016					State of Ground						Dry						C2-4/2													
Operator						AG					Wind						Light																			
											Wind Direction						N/A																			
											Cloud Cover						Slight																			
Equipment Used						LMSx (1463) / Dip Meter (5303)					Precipitation						None																			
											Detection Limits							<0.1		<0.1		<0.1		<0.1		<1		<1		<0.1						
Borehole ID		Inst ID	Depth of Installation (m BGL)		Time of Reading hh:mm:ss		Barometric Pressure (mbars)		Air temp (°C)		Reading Depth (mBGL)		Dip to Base of Pipe		Depth to Groundwater (m BGL)		Differential Pressure (Pa)		FlowRate (l/hr)		CH4 (% vol)		CH4 (% LEL)		O2 (% vol)		CO2 (% vol)		CO (ppm)		H2S (ppm)		Nitrogen (%vol)		Remarks	
BH4		1	16.00		10:45:00		1012		14		0.00		16.15		9.94		0.2		0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH4		1	16.00		10:45:30		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:46:00		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:46:30		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:47:00		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:47:30		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:48:00		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:49:00		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH4		1	16.00		10:50:00		1012		14		0.00						0.1		0.1		<0.1		<0.1		20.7		<0.1		<1		<1					
BH7		1	30.36		11:45:00		1009		14		0.00		29.28		19.56		0.0		<0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH7		1	30.36		11:45:30		1009		14		0.00						0.0		<0.1		<0.1		<0.1		20.6		<0.1		<1		<1					
BH7		1	30.36		11:46:00		1009		14		0.00						0.0		<0.1		<0.1		<0.1		20.5		<0.1		<1		<1					
BH7		1	30.36		11:46:30		1009		14		0.00						0.0		<0.1		<0.1		<0.1		20.5		<0.1		<1		<1					
BH7		1	30.36		11:47:00		1009		14		0.00						0.0		<0.1		<0.1		<0.1		20.5		<0.1		<1		<1					
BH7		1	30.36		11:47:30		1009		14		0.00						0.0		<0.1		<0.1		<0.1		20.5		<0.1		<1		<1					
BH7		1	30.36		11:48:00		1009		14		0.00																									

[illegible]

[illegible]

ESG

Gas Monitoring Record

Project No						D5061-15					Project						Central Somers Town, London						Sheet No													
Date						23/05/2016					State of Ground						Dry						C2-5/2													
Operator						AG					Wind						Light																			
											Wind Direction						N/A																			
											Cloud Cover						Slight																			
Equipment Used						LMSx (1463) / Dip Meter (5303)					Precipitation						None																			
											Detection Limits								<0.1		<0.1		<0.1		<0.1		<1		<1		<0.1					
Borehole ID		Inst ID	Depth of Installation (m BGL)		Time of Reading hh:mm:ss		Barometric Pressure (mbars)		Air temp (°C)		Reading Depth (mBGL)		Dip to Base of Pipe		Depth to Groundwater (m BGL)		Differential Pressure (Pa)		FlowRate (l/hr)		CH4 (% vol)		CH4 (% LEL)		O2 (% vol)		CO2 (% vol)		CO (ppm)		H2S (ppm)		Nitrogen (%vol)		Remarks	
BH4		1	16.00		14:00:00		1019		20		0.00		16.15		9.96		0.0		0.1		<0.1		<0.1		20.9		<0.1		<1		<1					
BH4		1	16.00		14:00:30		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.5		0.1		<1		<1					
BH4		1	16.00		14:01:00		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					
BH4		1	16.00		14:01:30		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					
BH4		1	16.00		14:02:00		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					
BH4		1	16.00		14:02:30		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					
BH4		1	16.00		14:03:00		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					
BH4		1	16.00		14:04:00		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					
BH4		1	16.00		14:05:00		1019		20		0.00						0.0		0.1		<0.1		<0.1		20.4		0.1		<1		<1					

[illegible]

Project No						D5061-15					Project						Central Somers Town, London						Sheet No													
Date						20/06/2016					State of Ground						Damp						C2-6/1													
Operator						AG					Wind						Light																			
											Wind Direction						N/A																			
											Cloud Cover						Overcast																			
Equipment Used						LMSx 1463					Precipitation						Slight																			
											Detection Limits								<0.1		<0.1		<0.1		<0.1		<1		<1							
Borehole ID		Inst ID	Depth of Installation (m BGL)		Time of Reading hh:mm:ss		Barometric Pressure (mbars)		Air temp (°C)		Reading Depth (mBGL)		Dip to Base of Pipe		Depth to Groundwater (m BGL)		Differential Pressure (Pa)		FlowRate (l/hr)		CH4 (% vol)		CH4 (% LEL)		O2 (% vol)		CO2 (% vol)		CO (ppm)		H2S (ppm)		VOCs (ppm)		Remarks	
BH1		1	24.20		15:10:00		1011		18		0.00		24.64		4.74		0.0		0.00		<0.1		<0.1		20.9		<0.1		<1		<1					
BH1		1	24.20		15:10:30														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:11:00														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:11:30														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:12:00														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:12:30														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:13:00														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:14:00														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		1	24.20		15:15:00														0.00		<0.1		<0.1		20.5		0.2		<1		<1					
BH1		2	15.50		15:20:00		1011		18		0.00		16.33		4.74		-0.2		-0.10		<0.1		<0.1		20.9		<0.1		<1		<1					
BH1		2	15.50		15:20:30												-0.1		0.00		<0.1		<0.1		19.6		1.2		<1		<1					
BH1		2	15.50		15:21:00												0.0		0.00		<0.1		<0.1		19.4		1.6		<1		<1					
BH1		2	15.50		15:21:30												0.0		0.00		<0.1		<0.1		19.1		1.9		<1		<1					
BH1		2	15.50		15:22:00												0.0		0.00		<0.1		<0.1		19.1		1.9		<1		<1					
BH1		2	15.50		15:22:30												0.0		0.00		<0.1		<0.1		19.1		1.9		<1		<1					
BH1		2	15.50		15:23:00												0.0		0.00		<0.1		<0.1		19.1		1.9		<1		<1					
BH1		2	15.50		15:24:00												0.0		0.00		<0.1		<0.													

ESG

Gas Monitoring Record

[illegible]

Project No						D5061-15					Project						Central Somers Town, London						Sheet No													
Date						20/06/2016					State of Ground						Damp						C2-6/3													
Operator						AG					Wind						Light																			
											Wind Direction						N/A																			
											Cloud Cover						Overcast																			
Equipment Used						LMSx 1463					Precipitation						None																			
											Detection Limits								<0.1		<0.1		<0.1		<0.1		<1		<1							
Borehole ID		Inst ID	Depth of Installation (m BGL)		Time of Reading hh:mm:ss		Barometric Pressure (mbars)		Air temp (°C)		Reading Depth (mBGL)		Dip to Base of Pipe		Depth to Groundwater (m BGL)		Differential Pressure (Pa)		FlowRate (l/hr)		CH4 (% vol)		CH4 (% LEL)		O2 (% vol)		CO2 (% vol)		CO (ppm)		H2S (ppm)		VOCs (ppm)		Remarks	
BH7		1	30.36		14:40:00		1010		18		0.00		29.28		19.54		0.1		0.00		<0.1		<0.1		20.9		<0.1		<1		<1					
BH7		1	30.36		14:40:30												0.0		0.00		<0.1		<0.1		16.5		1.2		<1		<1					
BH7		1	30.36		14:41:00												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH7		1	30.36		14:41:30												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH7		1	30.36		14:42:00												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH7		1	30.36		14:42:30												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH7		1	30.36		14:43:00												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH7		1	30.36		14:44:00												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH7		1	30.36		14:45:00												0.0		0.00		<0.1		<0.1		16.4		1.3		<1		<1					
BH9		1	7.50		14:55:00		1010		18		0.00		7.33		2.67		0.1		0.00		<0.1		<0.1		20.9		<0.1		<1		<1					
BH9		1	7.50		14:55:30												0.0		0.00		<0.1		<0.1		20.6		<0.1		<1		<1					
BH9		1	7.50		14:56:00												0.0		0.00		<0.1		<0.1		20.5		<0.1		<1		<1					
BH9		1	7.50		14:56:30												0.0		0.00		<0.1		<0.1		20.5		<0.1		<1		<1					
BH9		1	7.50		14:57:00												0.0		0.00		<0.1		<0.1		20.5		<0.1		<1		<1					
BH9		1	7.50		14:57:30												0.0		0.00		<0.1		<0.1		20.5		<0.1		<1		<1					
BH9		1	7.50		14:58:00												0.0		0.00		<0.1		<0.1		20.5		<0.1		<1		<1					
BH9		1	7.50		14:59:00												0.0																			

APPENDIX D

IN SITU TESTING

Dynamic Cone Penetrometer Tests

TRL1, 2, 5 to 10

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

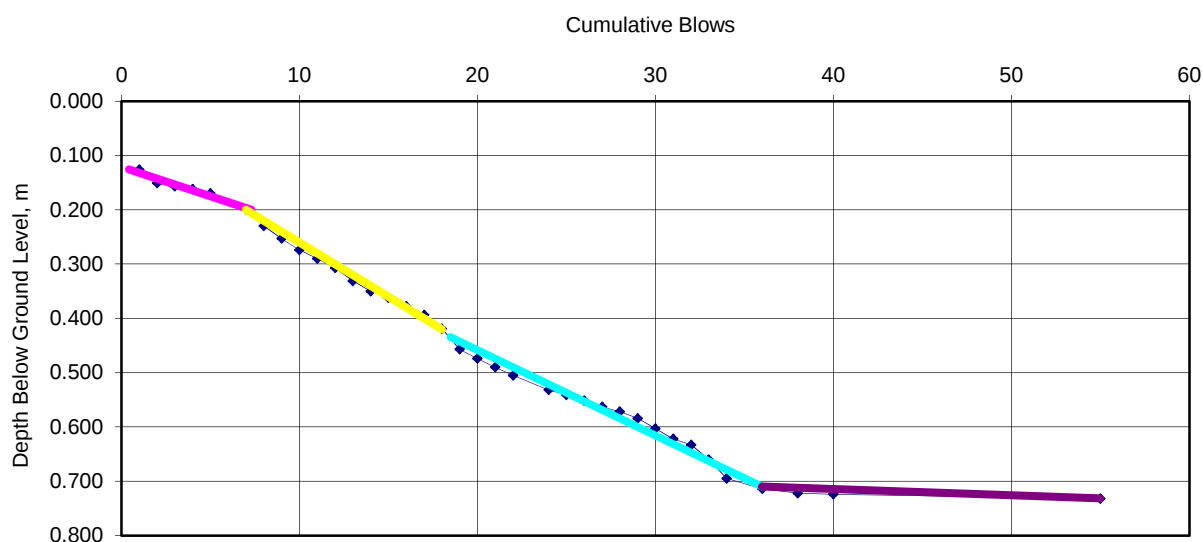
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.126	1	0.584	29						
0.151	2	0.603	30						
0.157	3	0.622	31						
0.162	4	0.633	32						
0.170	5	0.660	33						
0.199	7	0.695	34						
0.230	8	0.714	36						
0.253	9	0.722	38						
0.274	10	0.724	40						
0.290	11	0.732	55						
0.307	12								
0.331	13								
0.350	14								
0.362	15								
0.378	16								
0.394	17								
0.419	18								
0.457	19								
0.474	20								
0.490	21								
0.505	22								
0.532	24								
0.541	25								
0.552	26								
0.563	27								
0.572	28								



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.13	0.20	24
0.20	0.42	14
0.44	0.71	18
0.71	0.73	390

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL1

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

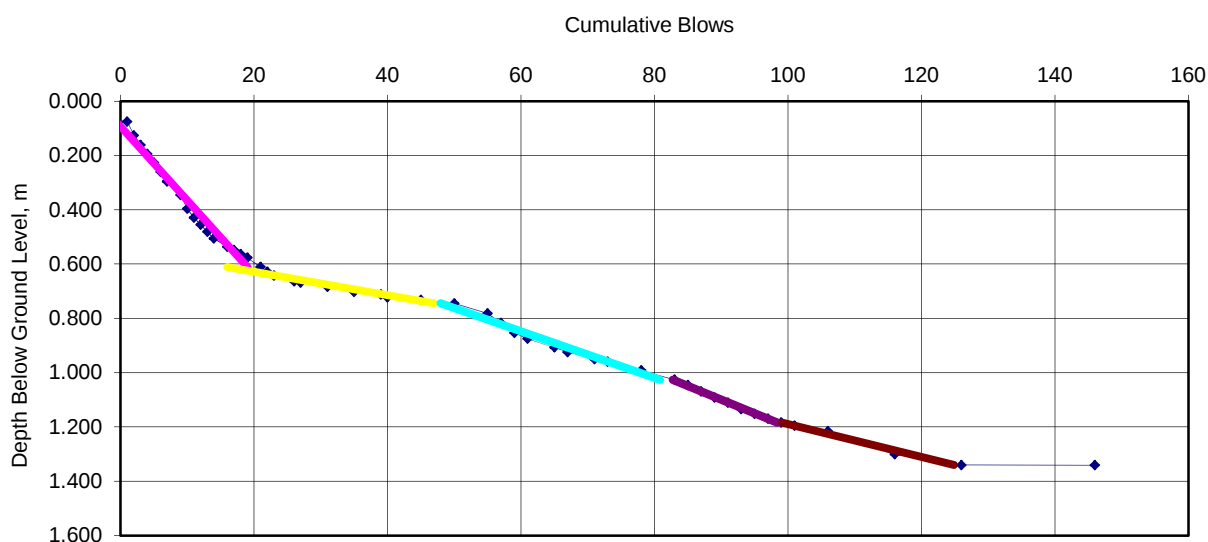
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.075	1	0.732	45						
0.126	2	0.745	50						
0.161	3	0.782	55						
0.194	4	0.817	57						
0.226	5	0.853	59						
0.260	6	0.875	61						
0.296	7	0.907	65						
0.345	9	0.924	67						
0.396	10	0.950	71						
0.429	11	0.960	73						
0.455	12	0.992	78						
0.481	13	1.026	83						
0.506	14	1.046	85						
0.536	16	1.069	87						
0.548	17	1.092	89						
0.564	18	1.111	91						
0.577	19	1.134	93						
0.611	21	1.152	95						
0.628	22	1.169	97						
0.643	23	1.184	99						
0.664	26	1.196	101						
0.668	27	1.216	106						
0.684	31	1.301	116						
0.703	35	1.340	126						
0.712	39	1.341	146						
0.723	40								



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.08	0.61	9.2
0.61	0.75	64
0.75	1.03	31
1.03	1.18	26
1.18	1.34	44

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL2

Dynamic Cone Penetrometer Test

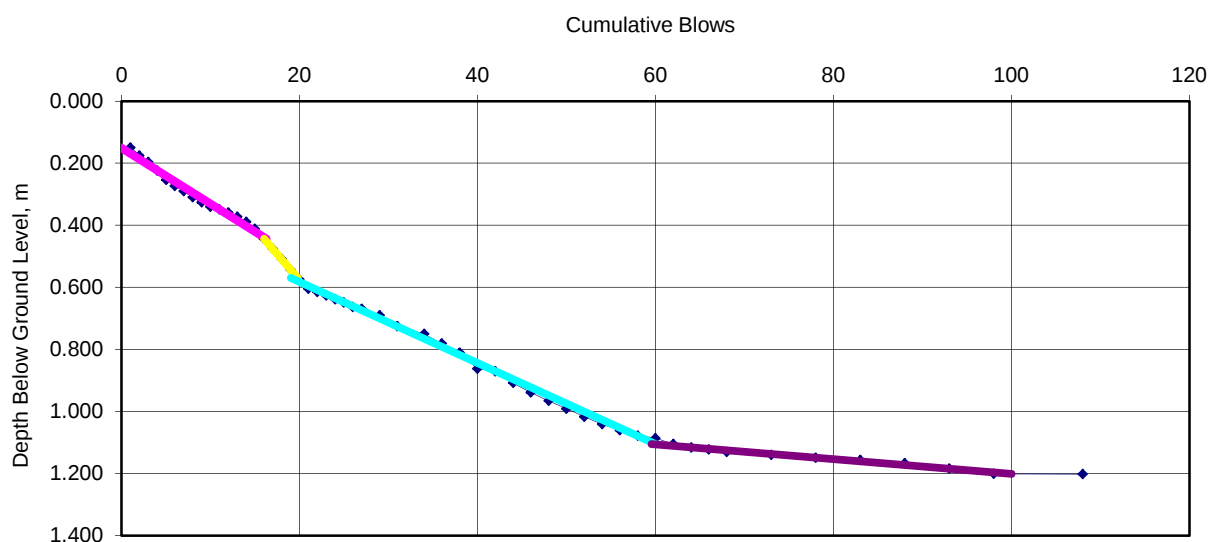


Date of Test: 06/01/2016 Test Depth: 0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.149	1	0.669	27	1.201	98				
0.175	2	0.690	29	1.202	108				
0.196	3	0.725	31						
0.224	4	0.750	34						
0.254	5	0.781	36						
0.273	6	0.811	38						
0.290	7	0.862	40						
0.309	8	0.871	42						
0.326	9	0.908	44						
0.340	10	0.939	46						
0.349	11	0.966	48						
0.359	12	0.991	50						
0.372	13	1.017	52						
0.389	14	1.041	54						
0.412	15	1.061	56						
0.444	16	1.078	58						
0.475	17	1.086	60						
0.509	18	1.105	62						
0.544	19	1.116	64						
0.575	20	1.122	66						
0.604	21	1.131	68						
0.615	22	1.140	73						
0.626	23	1.149	78						
0.639	24	1.156	83						
0.649	25	1.167	88						
0.663	26	1.184	93						



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.15	0.44	14
0.44	0.57	7.4
0.57	1.11	19
1.11	1.20	120

Notes:

Calculated using DMRB Vol 7, Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL5

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

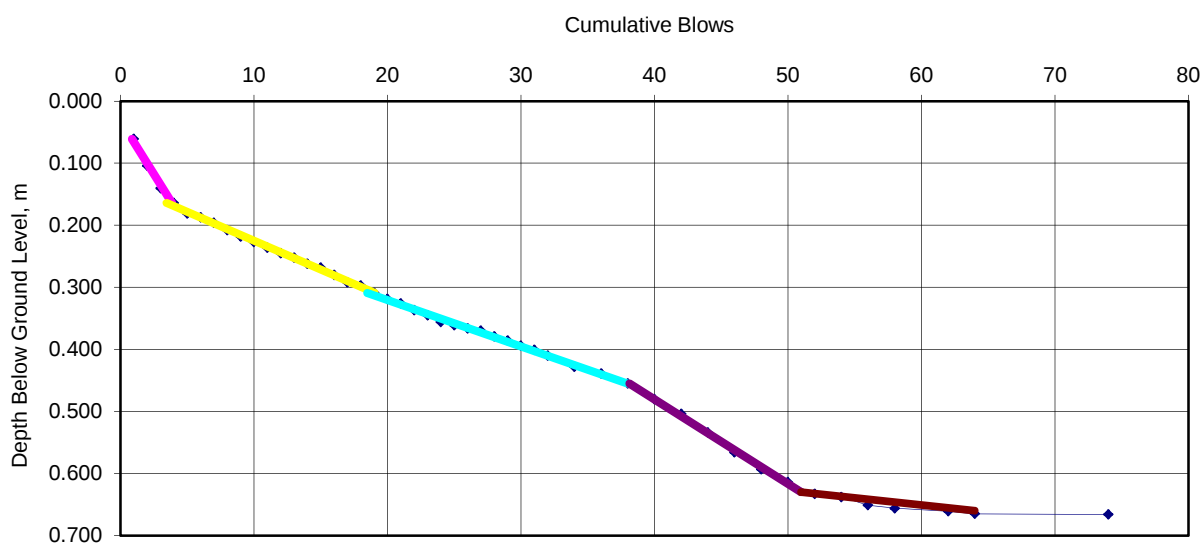
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.061	1	0.370	27						
0.104	2	0.379	28						
0.140	3	0.386	29						
0.164	4	0.394	30						
0.181	5	0.401	31						
0.187	6	0.410	32						
0.196	7	0.428	34						
0.208	8	0.439	36						
0.218	9	0.455	38						
0.227	10	0.480	40						
0.236	11	0.504	42						
0.245	12	0.534	44						
0.252	13	0.566	46						
0.262	14	0.593	48						
0.268	15	0.614	50						
0.280	16	0.633	52						
0.292	17	0.638	54						
0.297	18	0.651	56						
0.309	19	0.656	58						
0.319	20	0.661	62						
0.326	21	0.665	64						
0.337	22	0.666	74						
0.345	23								
0.356	24								
0.361	25								
0.366	26								



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.06	0.16	7.1
0.16	0.31	28
0.31	0.46	35
0.46	0.63	19
0.63	0.66	67

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL6

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

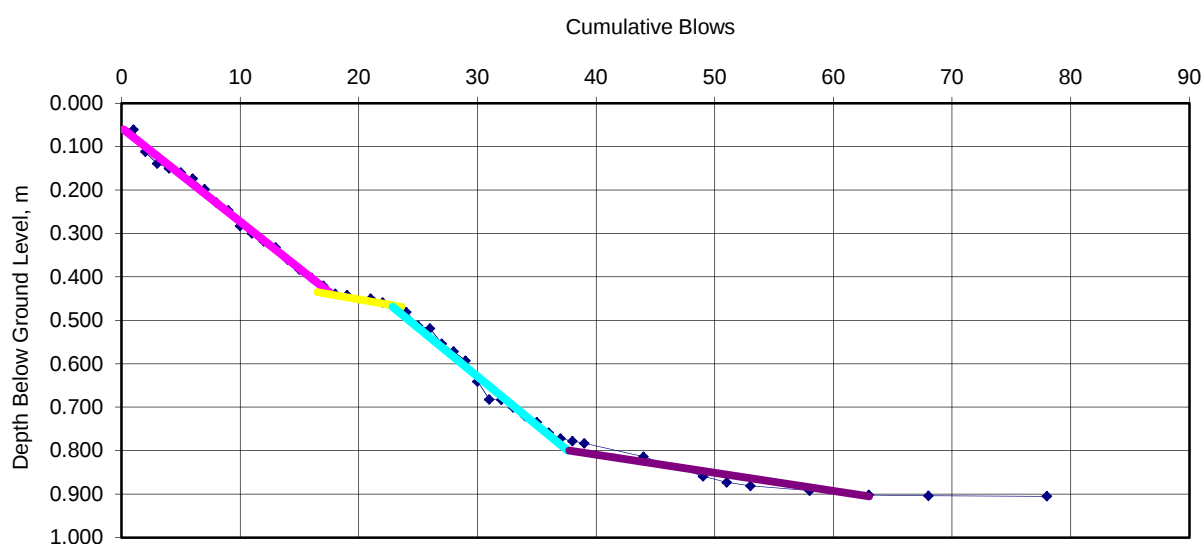
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.061	1	0.572	28						
0.112	2	0.593	29						
0.139	3	0.641	30						
0.150	4	0.682	31						
0.160	5	0.683	32						
0.174	6	0.701	33						
0.198	7	0.721	34						
0.229	8	0.735	35						
0.247	9	0.759	36						
0.283	10	0.772	37						
0.300	11	0.778	38						
0.318	12	0.783	39						
0.332	13	0.814	44						
0.360	14	0.859	49						
0.383	15	0.873	51						
0.402	16	0.881	53						
0.421	17	0.892	58						
0.439	18	0.902	63						
0.442	19	0.904	68						
0.450	21	0.905	78						
0.459	22								
0.469	23								
0.481	24								
0.513	25								
0.519	26								
0.554	27								



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.06	0.44	11
0.44	0.47	47
0.47	0.80	11
0.80	0.91	120

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL7

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

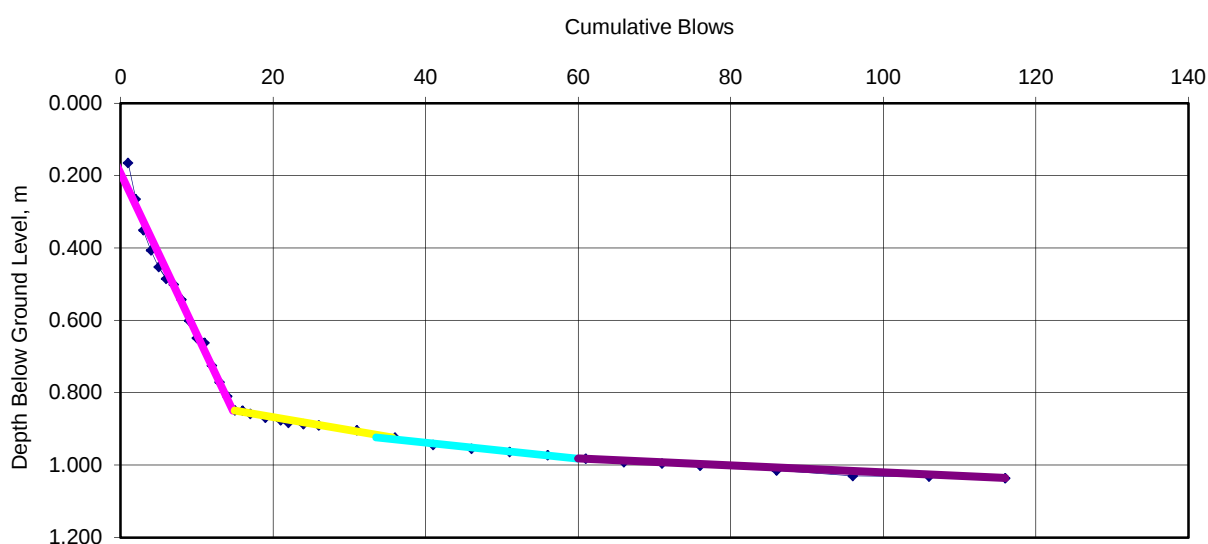
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.165	1	0.964	51						
0.265	2	0.973	56						
0.351	3	0.982	61						
0.407	4	0.992	66						
0.453	5	0.996	71						
0.485	6	1.002	76						
0.501	7	1.015	86						
0.543	8	1.030	96						
0.601	9	1.032	106						
0.649	10	1.036	116						
0.662	11								
0.725	12								
0.771	13								
0.810	14								
0.849	15								
0.850	16								
0.859	17								
0.869	19								
0.876	21								
0.883	22								
0.887	24								
0.890	26								
0.904	31								
0.924	36								
0.944	41								
0.955	46								



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.17	0.85	5.4
0.85	0.92	80
0.92	0.98	130
0.98	1.04	290

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL8

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

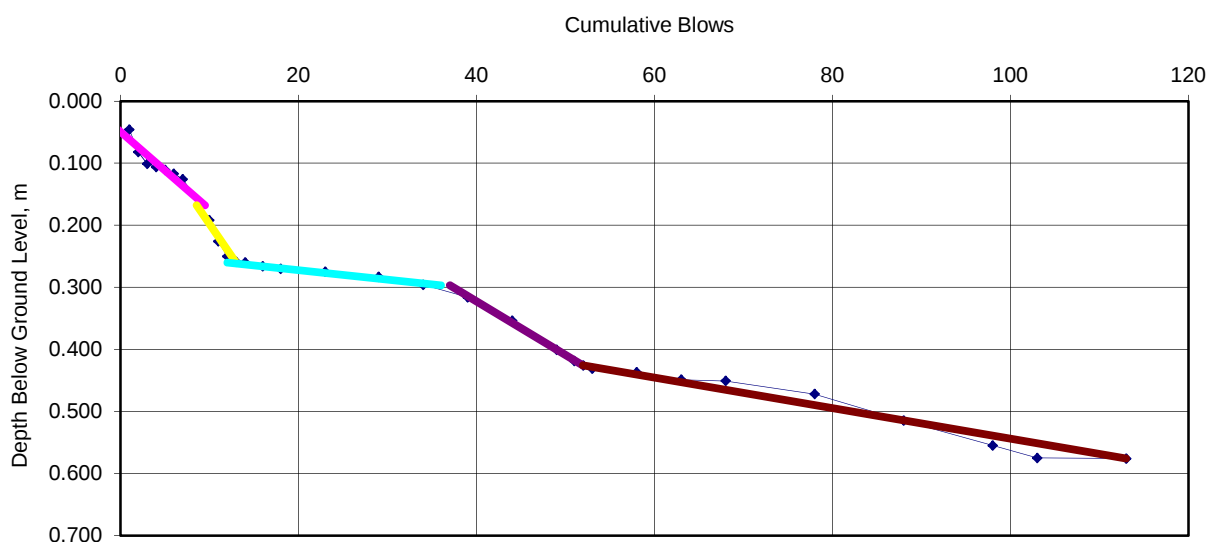
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.046	1	0.451	68						
0.082	2	0.472	78						
0.101	3	0.515	88						
0.106	4	0.555	98						
0.111	5	0.575	103						
0.117	6	0.576	113						
0.126	7								
0.168	9								
0.192	10								
0.226	11								
0.250	12								
0.259	13								
0.260	14								
0.266	16								
0.270	18								
0.275	23								
0.283	29								
0.296	34								
0.316	39								
0.354	44								
0.401	49								
0.419	51								
0.426	52								
0.431	53								
0.437	58								
0.449	63								



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.05	0.17	20
0.17	0.26	13
0.26	0.30	180
0.30	0.43	30
0.43	0.58	100

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL9

Dynamic Cone Penetrometer Test



Date of Test: 06/01/2016

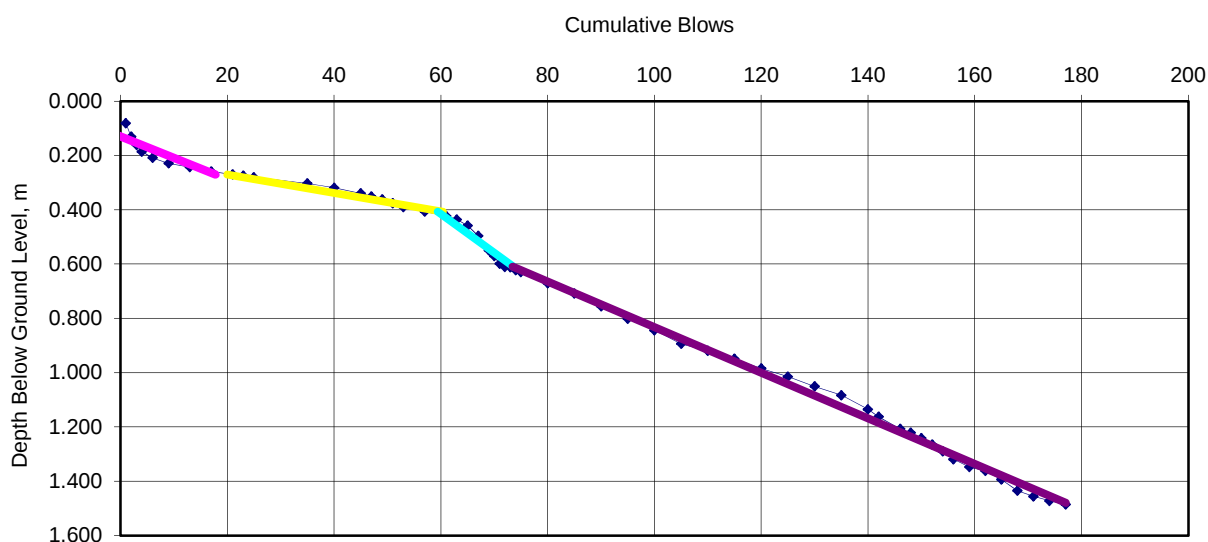
Test Depth:

0.000 mBGL

Method: TRRL Probe

Remarks:

Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows	Depth, mBGL	Cumulative Blows
0.081	1	0.611	72	1.394	165				
0.131	2	0.612	73	1.435	168				
0.161	3	0.622	74	1.456	171				
0.186	4	0.630	75	1.472	174				
0.209	6	0.671	80	1.486	177				
0.229	9	0.709	85						
0.243	13	0.756	90						
0.259	17	0.802	95						
0.270	21	0.844	100						
0.275	23	0.894	105						
0.280	25	0.920	110						
0.303	35	0.949	115						
0.319	40	0.985	120						
0.340	45	1.015	125						
0.351	47	1.051	130						
0.362	49	1.083	135						
0.376	51	1.135	140						
0.390	53	1.163	142						
0.407	57	1.207	146						
0.423	61	1.222	148						
0.436	63	1.241	150						
0.458	65	1.265	152						
0.496	67	1.290	154						
0.549	69	1.319	156						
0.571	70	1.348	159						
0.599	71	1.362	162						



CBR Values

Top, mBGL	Base, mBGL	CBR, % ¹
0.08	0.27	34
0.27	0.41	75
0.41	0.61	18
0.61	1.48	31

Notes:

Calculated using DMRB Vol 7,
Section 3, Part 2, HD29/08 (2008)

Project

Central Somers Town, London

Project No.

D5061-15

Carried out for

AKT II

Hole

TRL10

APPENDIX E

GEOTECHNICAL LABORATORY TEST RESULTS

Index Properties – Summary of Results	INDX1 and 2
Particle Size Distribution Analyses	PSD1 to 4
One Dimensional Consolidation Test	OED1 to 6
Unconsolidated Undrained Triaxial Compression Tests – Summary of Results	UUSUM1 to 3
Consolidated undrained triaxial compression with measurement of pore pressure (Multistage)	CUTXLM1 and 2
Soil Sample Analysis Test Reports (Chemical Tests)	EFS/160970, 80 and 81

INDEX PROPERTIES - SUMMARY OF RESULTS

Project No	Project Name													
D5061-15	Central Somers Town, London													
Hole No.	Sample				Soil Description	ρ	ρ_d	W	< 425 μ m sieve	W_L	W_P	I_p	ρ_s	Remarks
	No.	Depth (m)		type		Mg/m ³	%						%	
		from	to											
BH1	16	4.20	4.65	UT	Stiff brown CLAY.								2.79-p	
BH1	17	4.70		D	Light brown slightly sandy CLAY.			30	100 n	73 a	32	41		
BH1	29	12.50	12.95	UT	Very stiff to firm greyish brown slightly sandy silty CLAY			22					2.68-p	
BH1	30	13.00		D	Dark brown slightly sandy CLAY.			24	100 n	70 a	26	44		
BH1	39	20.00		D	Brown slightly sandy slightly gravelly CLAY.			17	98 s	48 a	23	25		
BH1	43	21.80		D	Greyish brown slightly sandy CLAY.			13	100 n	42 a	20	22		
BH1	46	24.00		D	Reddish brown slightly sandy CLAY.			23	100 n	81 a	31	50		
BH2	10	1.20		D	Brown slightly sandy slightly gravelly CLAY.			34	95 s	64 a	30	34		
BH2	12	2.20	2.65	UT	Firm brown CLAY.								2.70-p	
BH2	16	4.70		D	Brown slightly sandy slightly gravelly CLAY.			31	100 n	76 a	32	44		
BH2	23	9.00		D	Brown slightly sandy CLAY.			26	100 n	77 a	31	46		
BH2	24	9.50	9.95	UT	Stiff to very stiff laminated greyish brown slightly sandy CLAY.			25					2.74-p	
BH2	29	13.00		D	Brown slightly sandy CLAY.			23	100 n	75 a	31	44		
BH2	37	19.00		D	Brown slightly sandy silty CLAY.			20	100 n	58 a	24	34		
BH3	10	1.20		D	Dark brown slightly sandy slightly gravelly CLAY.			31	90 s	53 a	34	19		
BH3	12	2.20	2.65	UT	Stiff brown mottled grey slightly gravelly CLAY with mudstone.								2.77-p	
BH3	21	7.70		D	Dark brown slightly sandy slightly gravelly CLAY.			32	96 n	77 a	34	43		
BH3	32	15.50	15.95	UT	Very stiff greyish brown slightly sandy CLAY becoming SILT towards base.			21					2.69-p	
BH3	33	16.00		D	Dark brown slightly sandy CLAY.			23	100 n	64 a	27	37		
BH3	41	21.35		D	Brown and grey slightly sandy CLAY.			20	100 n	65 a	30	35		
BH4	20	6.20		D	Brown slightly sandy CLAY.			29	100 n	76 a	30	46		
BH4	27	9.90		D	Brown slightly sandy CLAY.			27	100 n	76 a	35	41		
BH4	33	15.00		D	Brown slightly sandy silty CLAY.			19	100 n	51 a	21	30		
BH4	39	19.00		D	Brown slightly sandy CLAY.			26	100 n	70 a	30	40		
BH5	28	13.00		D	Dark brown slightly sandy CLAY.			25	100 n	78 a	29	49		
BH5	36	19.00		D	Brown slightly sandy CLAY.			26	100 n	78 a	29	49		
BH7	5	1.50	1.95	D	Brown slightly sandy CLAY.			29	100 s	78 a	32	46		
BH7	13	5.00		D	Brown slightly sandy CLAY.			32	100 n	74 a	30	44		
BH7	19	8.50		D	Brown slightly sandy CLAY.			21	100 n	64 a	25	39		
BH7	28	14.00		D	Brown slightly sandy slightly gravelly CLAY.			24	100 n	68 a	28	40		
BH7	36	19.00		D	Greyish brown slightly sandy silty CLAY.			12	100 n	44 a	17	27		
BH7	45	24.00	24.45	D	Brownish grey slightly sandy CLAY.			26	100 s	89 a	35	54		

General notes: All above tests carried out to BS1377 : 1990 unless annotated otherwise. See individual test reports for further details.									
Key :	ρ	bulk density, linear	W_L	Liquid limit	W_P	Plastic limit	<425um preparation	ρ_s	particle density
	ρ_d	dry density	a	4 point cone test	NP	non - plastic	n from natural soil	-g	= gas jar
	w	moisture content	b	1 point cone test	I_p	Plasticity Index	s sieved specimen	-p	= small pyknometer
QA Ref						Printed:29/02/2016 11:13		Table	INDX
SLR 1									
Rev 91									
Mar 12									

INDEX PROPERTIES - SUMMARY OF RESULTS

Project No	Project Name													
D5061-15	Central Somers Town, London													
Hole No.	Sample				Soil Description	ρ	ρ_d	W	< 425 μm sieve	W_L	W_P	I_P	ρ_s	Remarks
	No.	Depth (m)		type										
		from	to			Mg/m ³	%	%	%	%	Mg/m ³			
BH7	51	28.00		D	Greyish brown slightly sandy silty CLAY.			21	100 n	72 a	30	42		
BH9	12	4.00		D	Brown slightly gravelly silty CLAY.			31	100 n	76 a	34	42		
BH9	20	8.50		D	Brown slightly sandy slightly gravelly CLAY.			25	98 n	71 a	28	43		
BH9	33	16.00		D	Brown slightly sandy CLAY.			25	100 n	73 a	31	42		
BH9	47	24.40		D	Brown slightly sandy CLAY.			15	100 n	44 a	20	24		
BH10	9	3.00		D	Brown slightly sandy slightly gravelly CLAY.			26	90 n	72 a	29	43		
BH10	17	7.00		D	Brown CLAY.			31	100 n	78 a	30	48		
BH10	29	14.00		D	Brown slightly sandy CLAY.			20	100 n	55 a	21	34		
BH10	40	20.50		D	Brown slightly sandy CLAY.			23	100 n	79 a	31	48		
BH10	54	29.00		D	Red mottled grey slightly sandy CLAY.			22	100 n	75 a	30	45		

General notes: All above tests carried out to BS1377 : 1990 unless annotated otherwise. See individual test reports for further details.

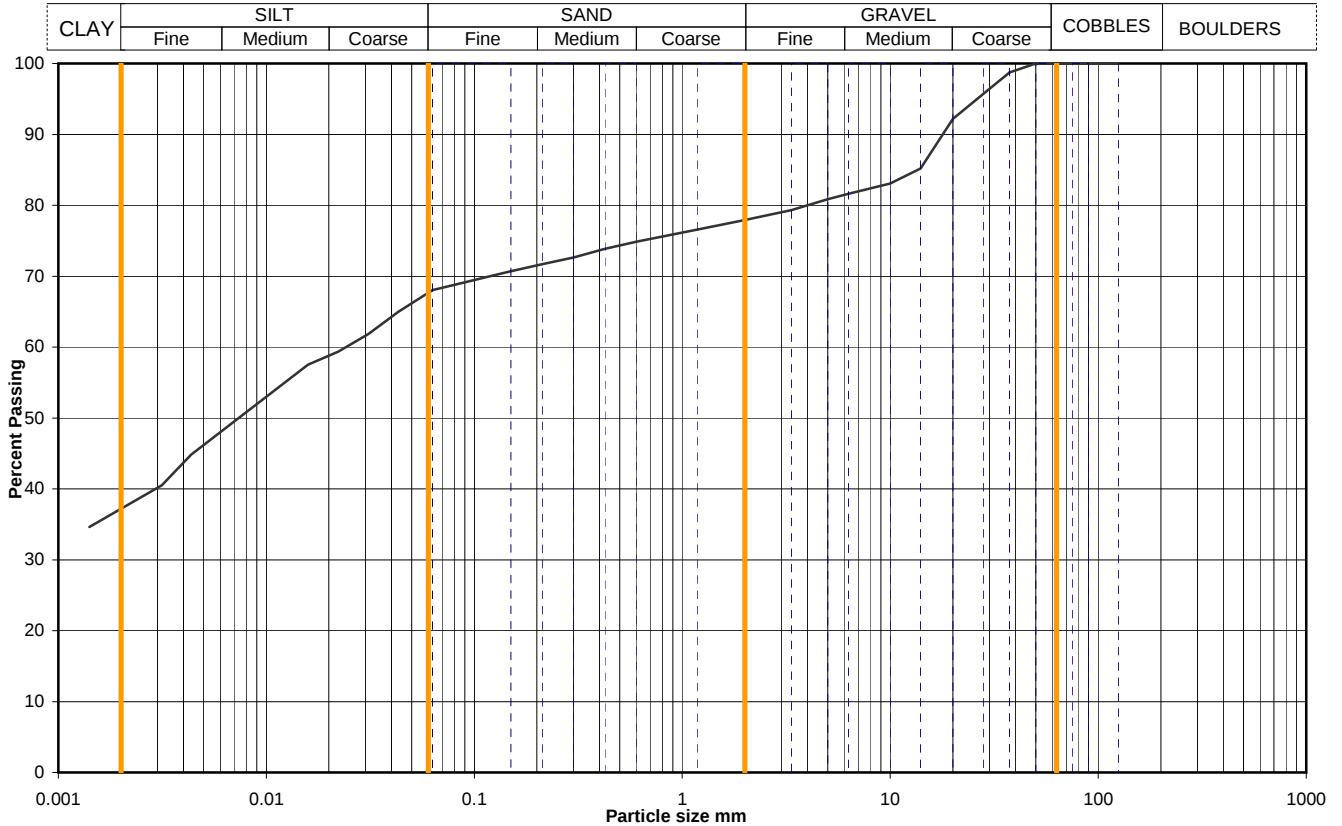
Key :

ρ bulk density, linear	W_L Liquid limit	W_P Plastic limit	<425um preparation	ρ_s particle density
ρ_d dry density	a 4 point cone test	NP non - plastic	n from natural soil	-g = gas jar
w moisture content	b 1 point cone test	I_P Plasticity Index	s sieved specimen	-p = small pyknometer

QA Ref SLR 1 Rev 91 Mar 12		Printed:29/02/2016 11:13	Table INDX
--	---	--------------------------	---------------------------------

Particle Size Distribution Analysis

Project No	D5061-15	Sample Details:	Hole No		BH1	
Project Name	Central Somers Town, London		Depth (m BGL)		3.20	
			Samp No	15	Type	B
			ID	D5061-1520160115104357		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	68
90	100	0.0431	65
75	100	0.0310	62
63	100	0.0222	59
50	100	0.0159	58
37.5	99	0.0084	51
28	96	0.0044	45
20	92	0.0031	41
14	85	0.0014	35
10	83		
6.3	82		
5.0	81		
3.35	79		
2.00	78		
1.18	77		
0.600	75	Particle density, Mg/m3 2.65 assumed	
0.425	74		
0.300	73	Dry mass of sample, kg 9.4	
0.212	72		
0.150	71		
0.063	68		

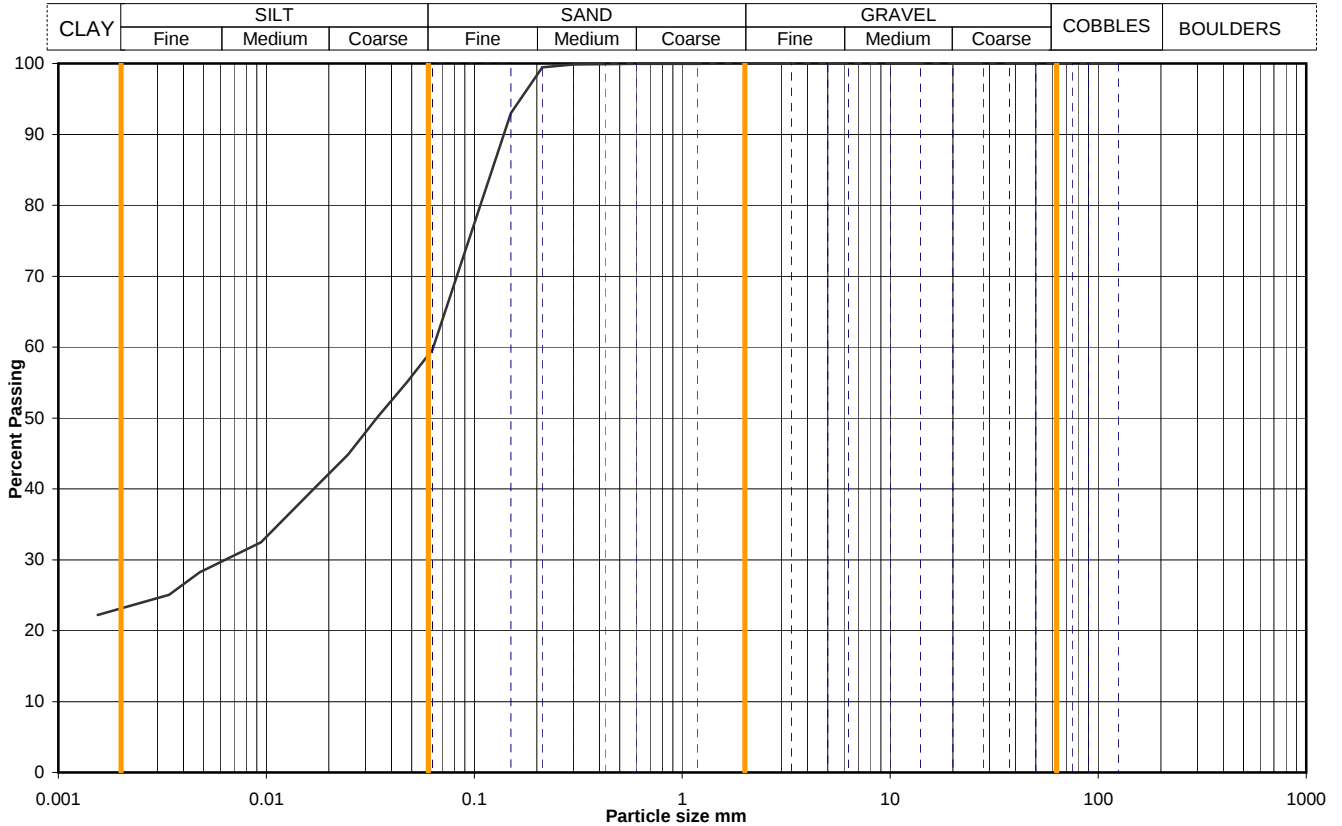
Soil description	Grey and brown slightly sandy slightly gravelly CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions * <60mm values to aid description only	Cobbles / boulders	Whole	* <63mm
	Gravel	0	0
	Sand	22	22
	Silt	10	10
	Clay	31	31

Uniformity Coefficient	D_{60} / D_{10}	Not applicable
------------------------	-------------------	----------------

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	D5061-15	Sample Details:	Hole No	BH3
Project Name	Central Somers Town, London		Depth (m BGL)	22.00
			Samp No	42
			Type	B
			ID	D5061-1520160115024348
			Spec Ref	



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	60
90	100	0.0474	55
75	100	0.0342	50
63	100	0.0247	45
50	100	0.0177	41
37.5	100	0.0094	32
28	100	0.0048	28
20	100	0.0034	25
14	100	0.0015	22
10	100		
6.3	100		
5.0	100		
3.35	100		
2.00	100		
1.18	100		
0.600	100	Particle density, Mg/m3	
0.425	100	2.65 assumed	
0.300	100	Dry mass of sample, kg	
0.212	99	6.5	
0.150	93		
0.063	60		

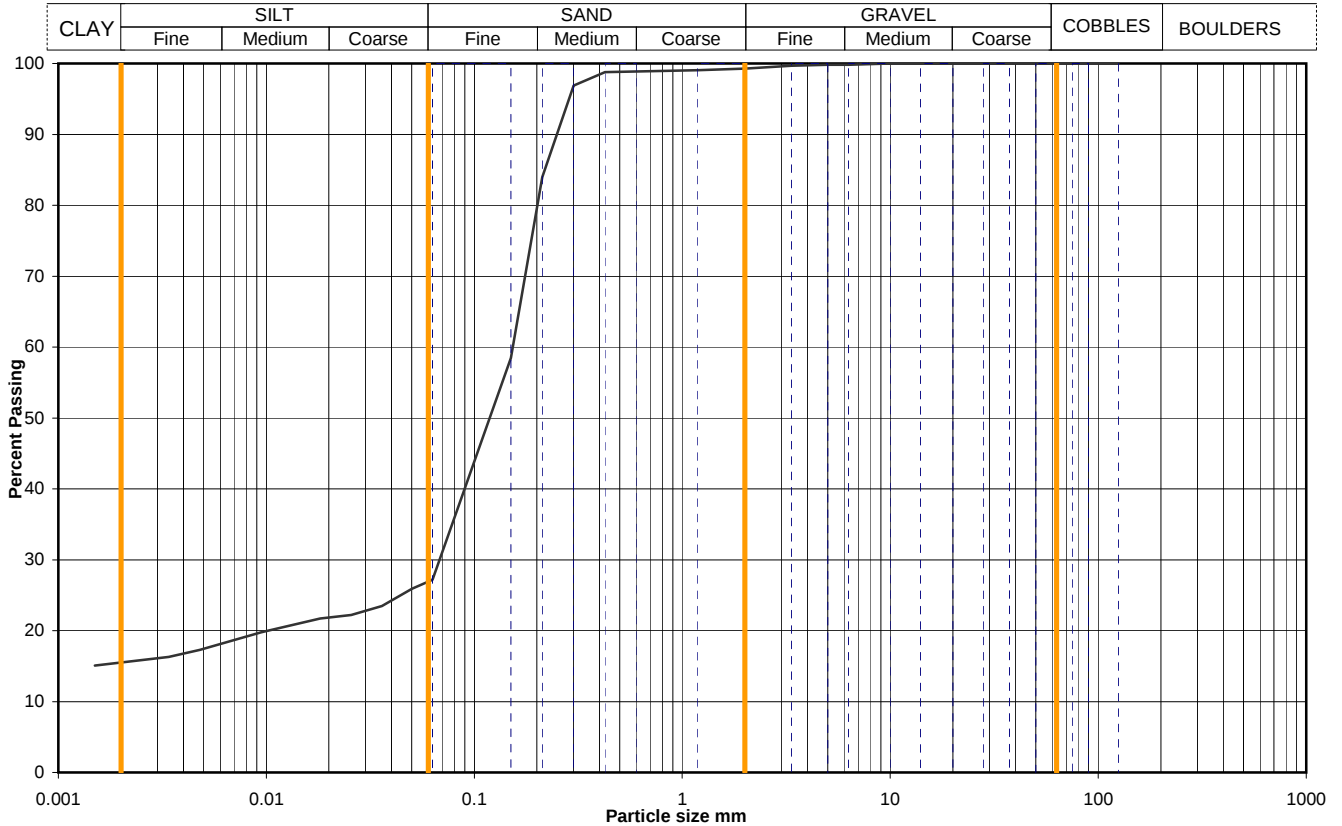
Soil description	Light greenish grey sandy CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions * <60mm values to aid description only	Cobbles / boulders	Whole	* <63mm
	Gravel	0	0
	Sand	0	0
	Silt	41	41
	Clay	36	36
		23	23

Uniformity Coefficient	D_{60} / D_{10}	Not applicable
------------------------	-------------------	----------------

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	D5061-15	Sample Details:	Hole No	BH7
Project Name	Central Somers Town, London		Depth (m BGL)	22.75
			Samp No	44
			Type	B
			ID	D5061-1520160118093814
			Spec Ref	



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	27
90	100	0.0502	26
75	100	0.0360	23
63	100	0.0256	22
50	100	0.0181	22
37.5	100	0.0095	20
28	100	0.0048	17
20	100	0.0034	16
14	100	0.0015	15
10	100		
6.3	100		
5.0	100		
3.35	100		
2.00	99		
1.18	99		
0.600	99	Particle density, Mg/m3	
0.425	99	2.65 assumed	
0.300	97	Dry mass of sample, kg	
0.212	84	17.2	
0.150	58		
0.063	27		

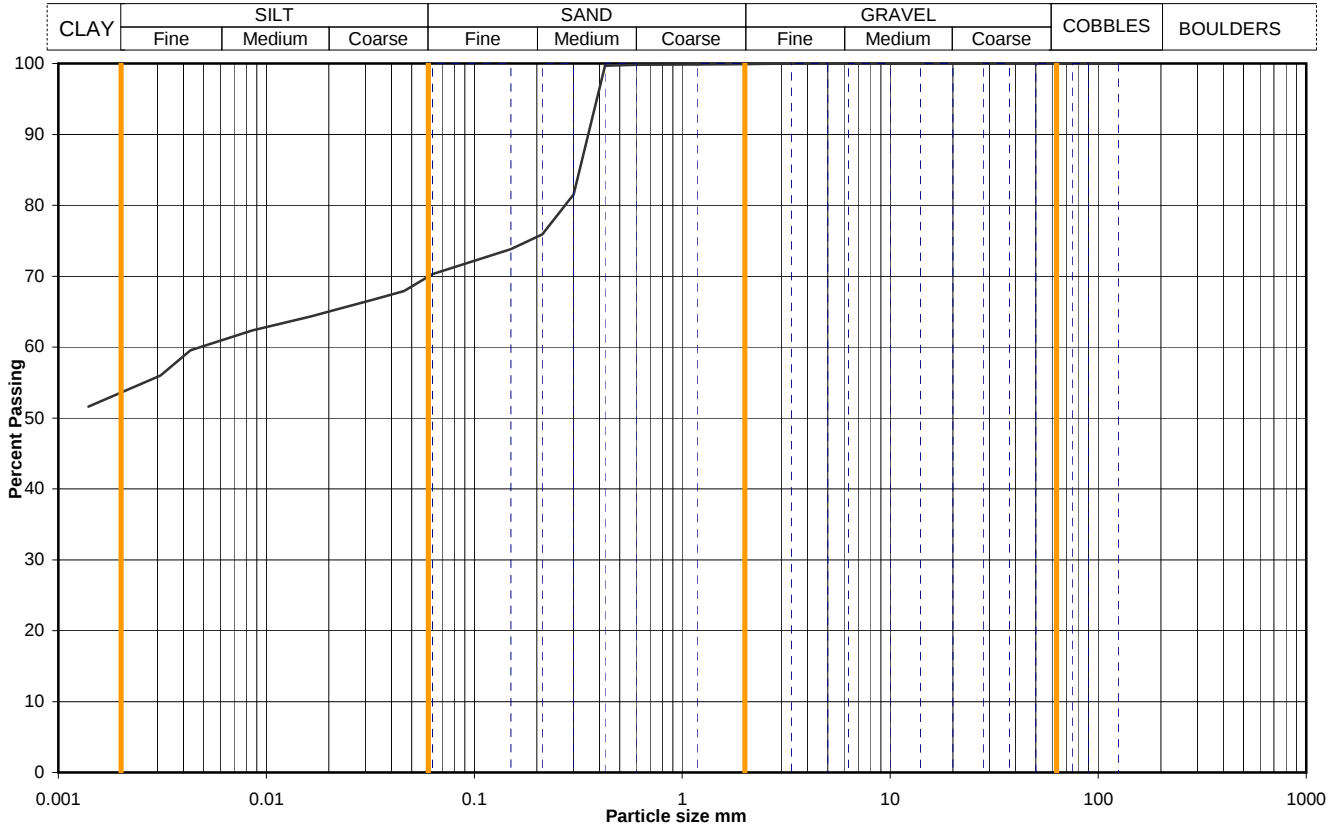
Soil description	Yellowish brown slightly gravelly very sandy CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions * <60mm values to aid description only	Cobbles / boulders	Whole	* <63mm
	Gravel	0	0
	Sand	1	1
	Silt	72	72
	Clay	11	11

Uniformity Coefficient	D_{60} / D_{10}	Not applicable
------------------------	-------------------	----------------

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	D5061-15	Sample Details:	Hole No		BH7	
Project Name	Central Somers Town, London		Depth (m BGL)		25.30	
			Samp No	47	Type	D
			ID	D5061-1520160118094020		
			Spec Ref			



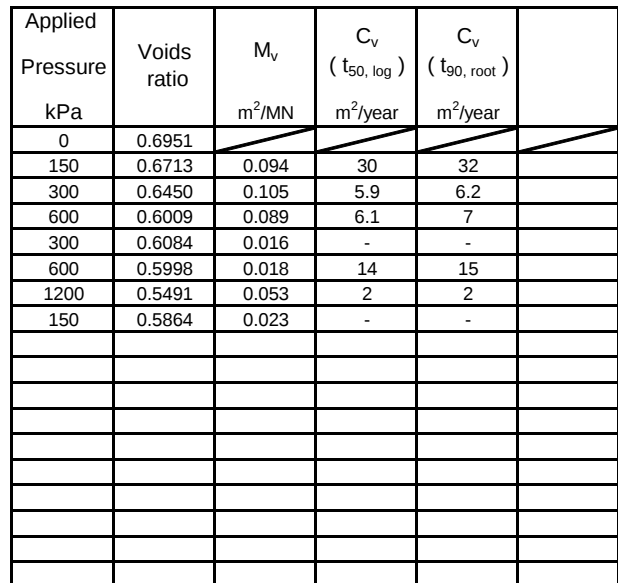
Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	70
90	100	0.0458	68
75	100	0.0326	67
63	100	0.0231	66
50	100	0.0164	64
37.5	100	0.0085	62
28	100	0.0043	60
20	100	0.0031	56
14	100	0.0014	52
10	100		
6.3	100		
5.0	100		
3.35	100		
2.00	100		
1.18	100		
0.600	100		
0.425	100		
0.300	82		
0.212	76		
0.150	74		
0.063	70		

Soil description	Green and grey slightly sandy CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions * <60mm values to aid description only	Cobbles / boulders	Whole	* <63mm
	Gravel	0	0
	Sand	0	0
	Silt	30	30
	Clay	16	16

Uniformity Coefficient	D_{60} / D_{10}	Not applicable
------------------------	-------------------	----------------

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

ONE DIMENSIONAL CONSOLIDATION TEST						
BS 1377 : Part 5 : 1990 : clause 3						
Project No	D5061-15	Sample Details:	Hole No		BH1	
Project Name	Central Somers Town, London		Depth (m BGL)		12.50	
			Samp No	29	Type	UT
			ID	D5061-1520160115104800		
			Spec Ref			



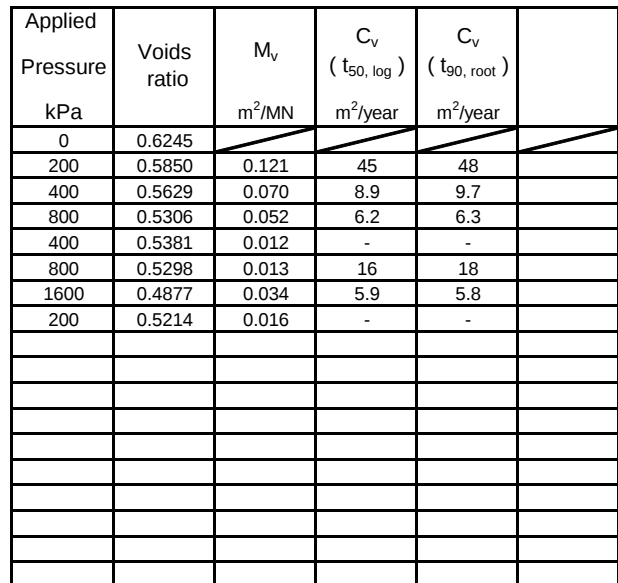
OED

[illegible]

ONE DIMENSIONAL CONSOLIDATION TEST						
BS 1377 : Part 5 : 1990 : clause 3						
Project No	D5061-15	Sample Details:	Hole No	BH2		
Project Name	Central Somers Town, London		Depth (m BGL)	9.50		
			Samp No	24	Type	UT
			ID	D5061-1520151215022854		
			Spec Ref			
Voids ratio Applied pressure kPa Log pressure / voids ratio Cv m²/year (log t) Applied pressure kPa Log pressure / Cv						
Soil description		Stiff to very stiff laminated greyish brown slightly sandy CLAY.				
Preparation		Undisturbed				
Index properties (if available)		Liquid limit %		Plastic limit %		
Specimen details		Initial	Final			
Particle density		2.74	measured	Mg/m³		
Diameter		75.02		mm		
Height		19.01	17.97	mm		
Voids ratio		0.797	0.699			
Moisture content		25	26	%		
Bulk density		1.91	2.03	Mg/m³		
Dry density		1.52	1.61	Mg/m³		
Saturation		87	101	%		
Average temperature for test		20		°C		
Swelling pressure		>100		kPa		
Notes :						
Specimen taken 10 mm from base of sample						
QA Ref		ESG		Figure		
SLR 5.3 Rev 146 Nov 14		Environmental Scientifics Group		OED		
		UKAS TESTING 1157		Printed:29/02/2016 11:15		

ONE DIMENSIONAL CONSOLIDATION TEST																																																																																																																																																																																																																																																																																	
BS 1377 : Part 5 : 1990 : clause 3																																																																																																																																																																																																																																																																																	
Project No	D5061-15	Sample Details:	Hole No	BH3																																																																																																																																																																																																																																																																													
Project Name	Central Somers Town, London		Depth (m BGL)	2.20																																																																																																																																																																																																																																																																													
			Samp No	12	Type	UT																																																																																																																																																																																																																																																																											
			ID	D5061-1520160115023654																																																																																																																																																																																																																																																																													
			Spec Ref																																																																																																																																																																																																																																																																														
Voids ratio Applied pressure kPa Log pressure / voids ratio Cv m²/year (log t) Applied pressure kPa Log pressure / Cv <table><tr><td>Soil description</td><td colspan="7">Stiff brown mottled grey slightly gravelly CLAY with mudstone.</td></tr><tr><td>Preparation</td><td colspan="7">Undisturbed</td></tr><tr><td>Index properties (if available)</td><td>Liquid limit %</td><td></td><td>Plastic limit %</td><td></td><td></td><td></td><td></td></tr><tr><td>Specimen details</td><td>Initial</td><td>Final</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Particle density</td><td>2.77</td><td>measured</td><td>Mg/m³</td><td></td><td></td><td></td><td></td></tr><tr><td>Diameter</td><td>74.99</td><td></td><td>mm</td><td></td><td></td><td></td><td></td></tr><tr><td>Height</td><td>19.06</td><td>18.33</td><td>mm</td><td></td><td></td><td></td><td></td></tr><tr><td>Voids ratio</td><td>0.860</td><td>0.789</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Moisture content</td><td>31</td><td>30</td><td>%</td><td></td><td></td><td></td><td></td></tr><tr><td>Bulk density</td><td>1.95</td><td>2.01</td><td>Mg/m³</td><td></td><td></td><td></td><td></td></tr><tr><td>Dry density</td><td>1.49</td><td>1.55</td><td>Mg/m³</td><td></td><td></td><td></td><td></td></tr><tr><td>Saturation</td><td>99</td><td>104</td><td>%</td><td></td><td></td><td></td><td></td></tr><tr><td>Average temperature for test</td><td colspan="2">20</td><td>°C</td><td></td><td></td><td></td><td></td></tr><tr><td>Swelling pressure</td><td colspan="2">>40</td><td>kPa</td><td></td><td></td><td></td><td></td></tr><tr><td>Notes :</td><td colspan="7"></td></tr><tr><td>Specimen taken</td><td>10</td><td colspan="6">mm from base of sample</td></tr></table> <table><tr><th>Applied Pressure kPa</th><th>Voids ratio</th><th>M_v m²/MN</th><th>C_v (t_{50, log}) m²/year</th><th>C_v (t_{90, root}) m²/year</th><th></th></tr><tr><td>40</td><td>0.8604</td><td></td><td></td><td></td><td></td></tr><tr><td>80</td><td>0.8494</td><td>0.148</td><td>1.4</td><td>1.4</td><td></td></tr><tr><td>160</td><td>0.8207</td><td>0.194</td><td>0.54</td><td>0.6</td><td></td></tr><tr><td>320</td><td>0.7767</td><td>0.151</td><td>0.44</td><td>0.47</td><td></td></tr><tr><td>160</td><td>0.7934</td><td>0.059</td><td>-</td><td>-</td><td></td></tr><tr><td>320</td><td>0.7739</td><td>0.068</td><td>0.77</td><td>0.84</td><td></td></tr><tr><td>640</td><td>0.7164</td><td>0.101</td><td>0.44</td><td>0.48</td><td></td></tr><tr><td>80</td><td>0.7891</td><td>0.076</td><td>-</td><td>-</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <table><tr><td>QA Ref</td><td>SLR 5.3 Rev 146 Nov 14</td><td></td><td></td><td>Printed:29/02/2016 11:15</td><td>Figure OED</td></tr></table>								Soil description	Stiff brown mottled grey slightly gravelly CLAY with mudstone.							Preparation	Undisturbed							Index properties (if available)	Liquid limit %		Plastic limit %					Specimen details	Initial	Final						Particle density	2.77	measured	Mg/m ³					Diameter	74.99		mm					Height	19.06	18.33	mm					Voids ratio	0.860	0.789						Moisture content	31	30	%					Bulk density	1.95	2.01	Mg/m ³					Dry density	1.49	1.55	Mg/m ³					Saturation	99	104	%					Average temperature for test	20		°C					Swelling pressure	>40		kPa					Notes :								Specimen taken	10	mm from base of sample						Applied Pressure kPa	Voids ratio	M _v m ² /MN	C _v (t _{50, log}) m ² /year	C _v (t _{90, root}) m ² /year		40	0.8604					80	0.8494	0.148	1.4	1.4		160	0.8207	0.194	0.54	0.6		320	0.7767	0.151	0.44	0.47		160	0.7934	0.059	-	-		320	0.7739	0.068	0.77	0.84		640	0.7164	0.101	0.44	0.48		80	0.7891	0.076	-	-																																																																																QA Ref	SLR 5.3 Rev 146 Nov 14			Printed:29/02/2016 11:15	Figure OED
Soil description	Stiff brown mottled grey slightly gravelly CLAY with mudstone.																																																																																																																																																																																																																																																																																
Preparation	Undisturbed																																																																																																																																																																																																																																																																																
Index properties (if available)	Liquid limit %		Plastic limit %																																																																																																																																																																																																																																																																														
Specimen details	Initial	Final																																																																																																																																																																																																																																																																															
Particle density	2.77	measured	Mg/m ³																																																																																																																																																																																																																																																																														
Diameter	74.99		mm																																																																																																																																																																																																																																																																														
Height	19.06	18.33	mm																																																																																																																																																																																																																																																																														
Voids ratio	0.860	0.789																																																																																																																																																																																																																																																																															
Moisture content	31	30	%																																																																																																																																																																																																																																																																														
Bulk density	1.95	2.01	Mg/m ³																																																																																																																																																																																																																																																																														
Dry density	1.49	1.55	Mg/m ³																																																																																																																																																																																																																																																																														
Saturation	99	104	%																																																																																																																																																																																																																																																																														
Average temperature for test	20		°C																																																																																																																																																																																																																																																																														
Swelling pressure	>40		kPa																																																																																																																																																																																																																																																																														
Notes :																																																																																																																																																																																																																																																																																	
Specimen taken	10	mm from base of sample																																																																																																																																																																																																																																																																															
Applied Pressure kPa	Voids ratio	M _v m ² /MN	C _v (t _{50, log}) m ² /year	C _v (t _{90, root}) m ² /year																																																																																																																																																																																																																																																																													
40	0.8604																																																																																																																																																																																																																																																																																
80	0.8494	0.148	1.4	1.4																																																																																																																																																																																																																																																																													
160	0.8207	0.194	0.54	0.6																																																																																																																																																																																																																																																																													
320	0.7767	0.151	0.44	0.47																																																																																																																																																																																																																																																																													
160	0.7934	0.059	-	-																																																																																																																																																																																																																																																																													
320	0.7739	0.068	0.77	0.84																																																																																																																																																																																																																																																																													
640	0.7164	0.101	0.44	0.48																																																																																																																																																																																																																																																																													
80	0.7891	0.076	-	-																																																																																																																																																																																																																																																																													
QA Ref	SLR 5.3 Rev 146 Nov 14			Printed:29/02/2016 11:15	Figure OED																																																																																																																																																																																																																																																																												

ONE DIMENSIONAL CONSOLIDATION TEST						
BS 1377 : Part 5 : 1990 : clause 3						
Project No	D5061-15	Sample Details:	Hole No	BH3		
Project Name	Central Somers Town, London		Depth (m BGL)	15.50		
			Samp No	32	Type	UT
			ID	D5061-1520160115024129		
			Spec Ref			



OED

UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TESTS WITHOUT MEASUREMENT OF PORE PRESSURE - SUMMARY OF RESULTS																	
Project No		Project Name															
D5061-15		Central Somers Town, London															
Hole No.	Sample				Soil Description	Density		w	Test type	Dia.	σ ₃	At failure / end of stage					Remarks
	No.	Depth (m)		type		bulk	dry					Axial strain	σ ₁ - σ ₃	C _u	M O D E		
		from	to													Mg/m ³	
BH1	20	6.50	6.95	UT	Very stiff laminated brown slightly sandy slightly gravelly CLAY.	1.92	1.45	33	UU	103.7	130	5.4	236	118	B		
BH1	25	9.50	9.95	UT	Very stiff to hard laminated greyish brown slightly sandy CLAY.	2.01	1.60	26	UU	104.3	190	6.0	438	219	B		
BH1	29	12.50	12.95	UT	Very stiff to firm greyish brown slightly sandy silty CLAY	2.07	1.70	22	UU	103.5	250	7.9	475	238	B		
BH1	33	15.50	15.95	UT	Very stiff greyish brown slightly sandy CLAY.	2.06	1.70	22	UU	104.1	310	5.4	603	301	B		
BH1	37	18.50	18.95	UT	Stiff to very stiff greyish brown slightly sandy CLAY.	2.03	1.64	24	UU	103.8	370	6.4	608	304	B		
BH1	42	21.50	21.75	UT	Hard brown mottled grey CLAY.	2.25	1.99	13	UU	103.6	430	8.4	1,563	781	B		
BH2	15	4.20	4.65	UT	Stiff to very stiff laminated brown slightly sandy CLAY.	1.96	1.49	31	UU	103.8	90	3.0	206	103	B		
BH2	19	6.50	6.95	UT	Very stiff laminated brown slightly sandy CLAY.	1.92	1.47	31	UU	103.3	130	4.5	277	139	B		
BH2	24	9.50	9.95	UT	Stiff to very stiff laminated greyish brown slightly sandy CLAY.	2.03	1.62	25	UU	102.1	190	3.0	233	116	B		
BH2	28	12.50	12.95	UT	Very stiff greyish brown slightly sandy CLAY.	2.01	1.60	26	UU	103.8	250	3.0	289	144	B		
BH2	32	15.50	15.95	UT	Very stiff to hard laminated greyish brown slightly sandy CLAY.	2.01	1.61	25	UU	103.2	310	5.5	432	216	B		
BH2	36	18.50	18.95	UT	Very stiff greyish brown slightly sandy CLAY.	2.08	1.73	20	UU	103.6	370	5.9	767	383	B		
BH3	15	4.20	4.65	UT	Stiff to very stiff laminated greyish brown slightly sandy CLAY with occasional gypsum.	2.03	1.57	29	UU	101.9	85	4.5	272	136	B		
BH3	19	6.50	6.95	UT	Stiff to very stiff laminated brown slightly sandy CLAY.	1.89	1.43	32	UU	103.7	130	3.5	196	98	B		
BH3	24	9.50	9.95	UT	Very stiff laminated greyish brown slightly sandy CLAY.	2.00	1.59	26	UU	103.4	200	2.5	258	129	B		
BH3	28	12.50	12.95	UT	Very stiff greyish brown slightly sandy CLAY.	2.04	1.67	22	UU	102.4	250	12.4	565	283	C		
BH3	32	15.50	15.95	UT	Very stiff greyish brown slightly sandy CLAY becoming SILT towards base.	2.08	1.72	21	UU	101.9	310	6.4	645	322	B		
BH3	36	18.50	18.85	UT	Very stiff to hard laminated greyish brown slightly sandy CLAY.	1.97	1.57	25	UU	104.7	370	5.5	534	267	B		
BH3	40	21.00	21.30	UT	Hard brown and grey slightly sandy CLAY.	2.10	1.76	19	UU	104.2	420	4.5	773	387	B		
BH4	13	2.20	2.65	UT	Firm brown slightly sandy CLAY.	1.94	1.47	32	UU	103.6	45	17.3	99	49	P		
BH4	17	4.20	4.60	UT	Stiff to very stiff brown slightly sandy slightly gravelly CLAY. Gravel is gypsum.	1.91	1.45	32	UU	102.0	85	6.4	220	110	B		
BH4	21	6.50	6.95	UT	Stiff to very stiff greyish brown slightly sandy CLAY.	1.96	1.50	30	UU	103.2	130	4.0	180	90	B		
General notes: Tests carried out in accordance with BS1377: Part 7: 1990, clause 8 for single stage, clause 9 for multistage tests. Specimens nominally 2:1 height diameter ratio and tested at a rate of strain of 2%/minute, unless annotated otherwise. See individual test reports for further details.																	
Legend UU - single stage test (may be in sets of specimens) σ ₃ cell pressure Mode of failure P plastic UUM - multistage test on a single specimen σ ₁ - σ ₃ deviator stress B brittle suffix R - remoulded or recompactd C _u undrained shear strength C compound																	
QA Ref SLR 2 Rev 71 Mar 12									Printed:29/02/2016 11:14					Table UUSUM			

UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TESTS WITHOUT MEASUREMENT OF PORE PRESSURE - SUMMARY OF RESULTS																
Project No		Project Name														
D5061-15		Central Somers Town, London														
Hole No.	Sample				Soil Description	Density		w	Test type	Dia.	σ ₃	At failure / end of stage				Remarks
	No.	Depth (m)		type		bulk	dry					Axial strain	σ ₁ - σ ₃	C _u	M O D E	
		from	to													
BH4	26	9.50	9.85	UT	Very stiff greyish brown slightly sandy CLAY.	1.98	1.55	28	UU	103.5	190	4.5	316	158	B	
BH4	34	15.50	15.95	UT	Very stiff laminated greyish brown slightly sandy CLAY.	1.99	1.59	25	UU	103.7	310	4.5	410	205	B	
BH4	38	18.00	18.95	UT	Very stiff laminated greyish brown slightly sandy CLAY.	2.02	1.60	27	UU	103.4	370	4.5	503	252	B	
BH5	12	2.20	2.65	UT	Firm to stiff brown slightly sandy CLAY.	1.97	1.50	31	UU	102.8	45	7.4	176	88	B	
BH5	15	4.20	4.65	UT	Very stiff laminated brown slightly sandy CLAY.	1.98	1.51	31	UU	102.8	85	5.4	279	140	B	
BH5	19	6.50	6.95	UT	Firm to stiff laminated greyish brown silty CLAY with gypsum.	1.97	1.49	32	UU	102.8	130	4.5	253	126	B	
BH5	23	9.50	9.95	UT	Stiff laminated brownish grey slightly sandy CLAY.	1.98	1.55	27	UU	103.4	190	5.9	379	189	B	
BH5	27	12.50	12.95	UT	Very stiff greyish brown slightly sandy CLAY.	2.04	1.66	22	UU	103.0	250	7.4	425	213	B	
BH5	31	15.50	15.95	UT	Very stiff greyish brown slightly sandy CLAY.	2.06	1.70	21	UU	103.0	310	5.9	524	262	B	
BH5	35	18.50	18.95	UT	Very stiff to hard laminated greyish brown slightly sandy CLAY.	2.00	1.58	27	UU	103.5	370	5.0	582	291	B	
BH7	7	2.50	2.95	U	Very still laminated brown slightly sandy CLAY.	1.95	1.51	29	UU	104.0	50	3.0	309	154	B	
BH7	12	4.50	4.95	U	Stiff to very stiff laminated slightly sandy CLAY	1.90	1.44	32	UU	103.7	90	7.4	160	80	B	
BH7	17	7.50	7.95	U	Very stiff laminated greyish brown slightly sandy CLAY.	1.98	1.57	26	UU	103.8	150	3.5	376	188	B	
BH7	22	10.50	10.95	U	Very stiff greyish brown slightly sandy CLAY.	2.06	1.69	22	UU	103.6	210	7.9	446	223	B	
BH7	27	13.50	13.95	U	Very stiff greyish brown slightly sandy CLAY.	2.05	1.67	23	UU	103.9	270	5.4	608	304	B	
BH7	32	16.50	16.95	U	Very stiff greyish brown slightly sandy CLAY.	2.06	1.69	22	UU	103.9	330	19.8	372	186	C	
BH7	37	19.50	19.95	U	Hard grey mottled reddish brown slightly sandy CLAY.	2.06	1.67	23	UU	104.1	390	19.3	303	151	B	
BH8	8	2.50	2.95	U	Stiff laminated brown slightly sandy CLAY.	1.92	1.46	31	UU	103.3	50	4.9	162	81	B	
BH8	13	4.50	4.95	U	Stiff to very stiff brown slightly sandy CLAY with rare gypsum.	1.93	1.46	32	UU	103.6	90	3.5	160	80	B	
BH8	28	13.50	13.95	U	Very stiff greyish brown slightly sandy CLAY.	2.06	1.69	22	UU	103.9	270	7.9	499	250	B	
BH8	43	22.50	22.95	U	Hard brown mottled grey slightly sandy CLAY.	2.15	1.88	15	UU	103.8	450	4.9	1,441	720	B	
BH9	16	6.00	6.45	U	Very stiff greyish brown slightly sandy CLAY.	1.93	1.47	31	UU	103.7	120	3.5	167	83	B	
General notes: Tests carried out in accordance with BS1377: Part 7: 1990, clause 8 for single stage, clause 9 for multistage tests. Specimens nominally 2:1 height diameter ratio and tested at a rate of strain of 2%/minute, unless annotated otherwise. See individual test reports for further details.																
Legend UU - single stage test (may be in sets of specimens) σ ₃ cell pressure Mode of failure P plastic UUM - multistage test on a single specimen σ ₁ - σ ₃ deviator stress B brittle suffix R - remoulded or recompactd C _u undrained shear strength C compound																
QA Ref									Printed:29/02/2016 11:14					Table UUSUM		
SLR 2 Rev 71 Mar 12																

UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TESTS WITHOUT MEASUREMENT OF PORE PRESSURE - SUMMARY OF RESULTS																
Project No		Project Name														
D5061-15		Central Somers Town, London														
Hole No.	Sample				Soil Description	Density		w	Test type	Dia.	σ ₃	At failure / end of stage				Remarks
	No.	Depth (m)		type		bulk	dry					Axial strain	σ ₁ - σ ₃	C _u	M O D E	
		from	to													
BH9	21	9.00	9.45	U	Very stiff laminated greyish brown slightly sandy CLAY.	1.96	1.53	28	UU	103.7	180	5.4	203	102	B	
BH9	26	12.00	12.45	U	Very stiff to hard laminated greyish brown slightly sandy CLAY.	2.00	1.57	27	UU	103.6	240	3.0	362	181	B	
BH9	36	18.00	18.45	U	Very stiff greyish brown slightly sandy CLAY.	2.10	1.75	19	UU	103.9	360	8.4	711	356	P	
BH9	41	21.00	21.45	U	Hard reddish brown mottled grey slightly sandy CLAY.	2.09	1.69	23	UU	103.8	420	2.0	226	113	B	
BH9	46	24.00	24.35	U	Very stiff light brown and grey slightly sandy slightly gravelly CLAY.	2.15	1.87	15	UU	104.8	480	10.4	730	365	B	
BH10	8	2.50	2.95	U	Very stiff laminated brown CLAY.	1.96	1.50	31	UU	103.3	50	4.0	227	113	B	
BH10	13	4.50	4.95	U	Very stiff laminated brown and light brown slightly sandy CLAY.	1.93	1.47	32	UU	103.5	90	3.5	197	99	B	
BH10	18	7.50	7.95	U	Very stiff laminated greyish brown slightly sandy CLAY.	1.96	1.50	31	UU	103.3	150	3.0	185	92	B	
BH10	23	10.50	10.95	U	Very stiff greyish brown slightly sandy CLAY.	2.02	1.62	25	UU	103.3	210	5.9	380	190	B	
BH10	28	13.50	13.95	U	Stiff to very stiff greyish brown slightly sandy CLAY.	2.02	1.74	16	UU	103.7	270	4.4	463	231	B	
BH10	33	16.50	16.95	U	Very stiff laminated greyish brown slightly sandy CLAY.	2.04	1.59	29	UU	103.8	330	6.0	613	307	B	
BH10	38	19.50	19.95	U	Very stiff dark brown slightly sandy CLAY.	2.08	1.72	21	UU	103.2	390	5.4	565	283	B	
BH10	43	22.50	22.95	U	Hard reddish brown mottled grey CLAY.	2.15	1.79	20	UU	103.3	450	1.5	374	187	B	
BH10	48	25.50	25.95	U	Hard dark grey CLAY.	1.93	1.47	32	UU	103.4	310	3.0	341	170	B	
General notes:		Tests carried out in accordance with BS1377: Part 7: 1990, clause 8 for single stage, clause 9 for multistage tests. Specimens nominally 2:1 height diameter ratio and tested at a rate of strain of 2%/minute, unless annotated otherwise. See individual test reports for further details.														
Legend		UU - single stage test (may be in sets of specimens) σ ₃ cell pressure Mode of failure P plastic UUM - multistage test on a single specimen σ ₁ - σ ₃ deviator stress B brittle suffix R - remoulded or recompactd C _u undrained shear strength C compound														
QA Ref		SLR 2 Rev 71 Mar 12								Printed:29/02/2016 11:14				Table UUSUM		
		ESG Environmental Scientifics Group														

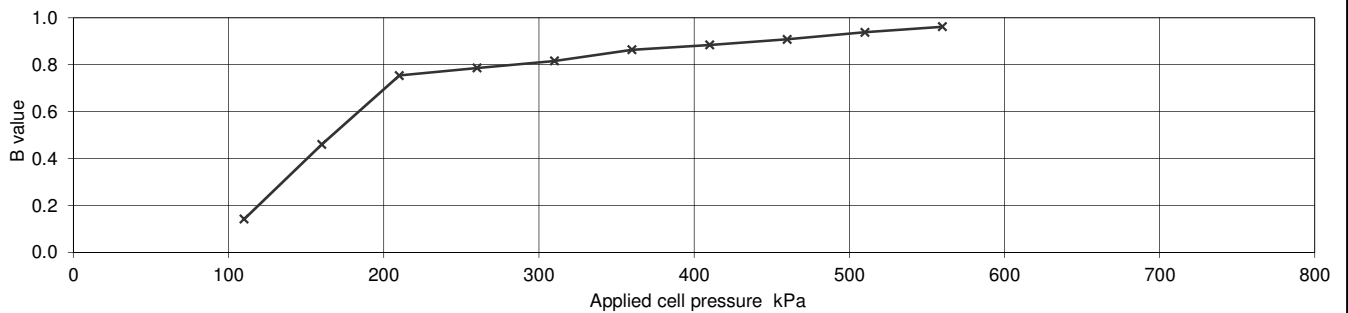
**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No	BH1
Project Name	Central Somers Town, London		Depth (m BGL)	4.20 - 4.65
			No	16
			Type	UT
			ID	
			Spec Ref	

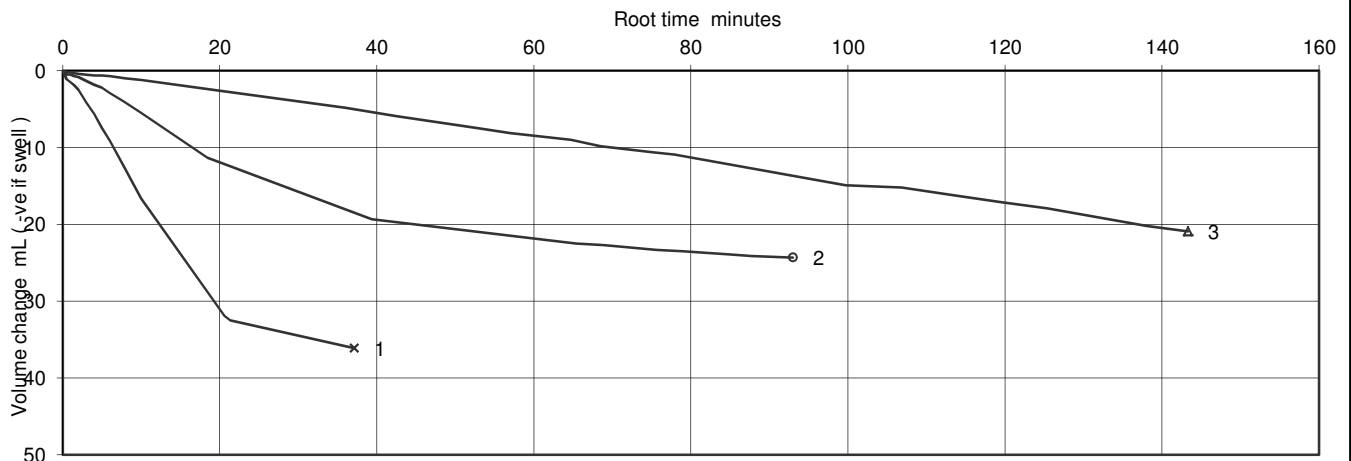
Specimen Details		
Initial		
Length	mm	203.11
Diameter	mm	103.62
Bulk Density	Mg/m³	1.99
Water Content	%	32
Dry density	Mg/m³	1.50
After test		
Bulk Density	Mg/m³	2.01
Water Content	%	31
Dry density	Mg/m³	1.53

Soil Description	Stiff brown CLAY
Specimen Type /Preparation	UNDISTURBED

Saturation Details		Method of Saturation
Cell pressure increments	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	560
Final pore water pressure	kPa	548.9
Final B Value		0.96



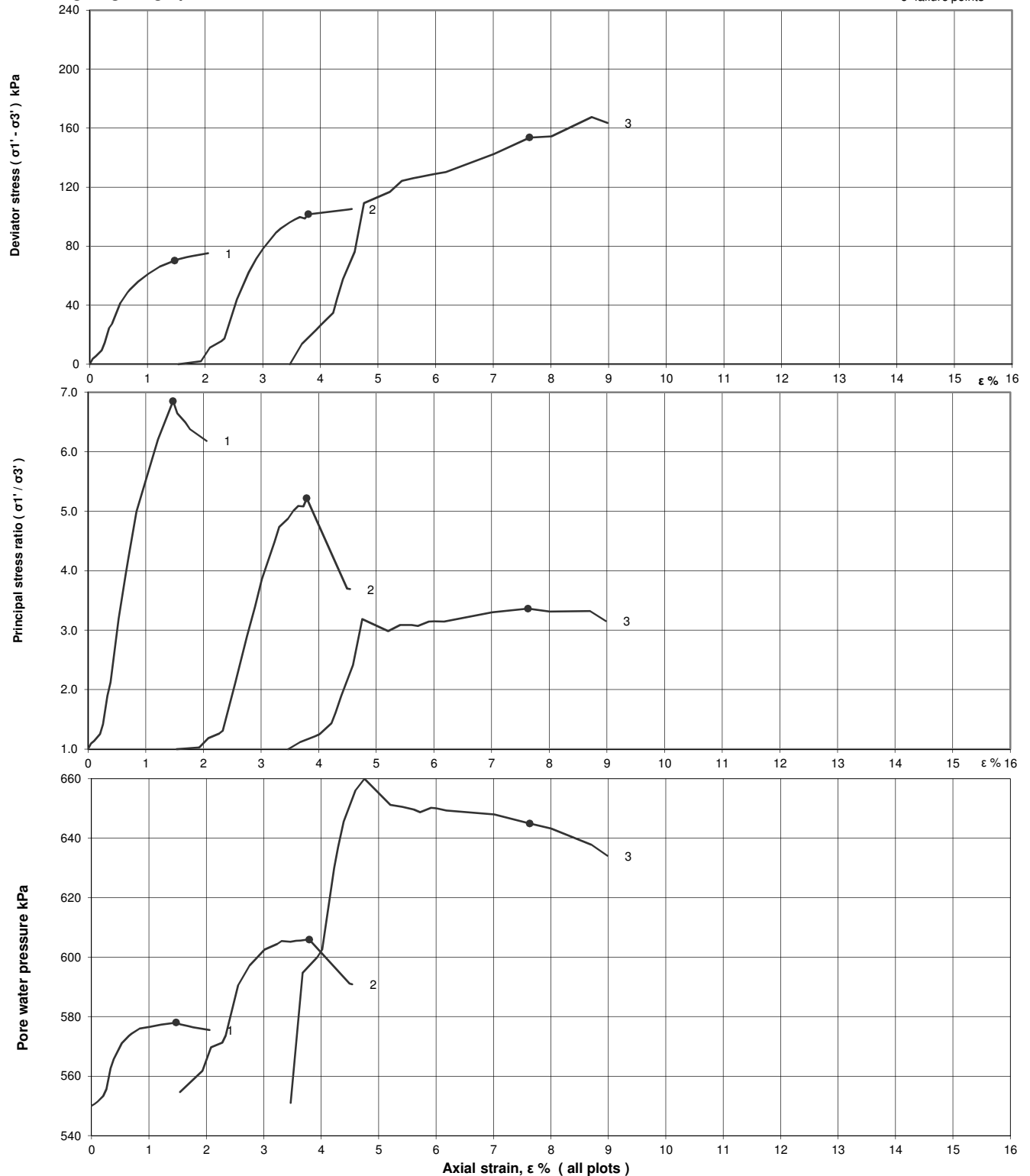
Consolidation Details	Drainage Conditions		From radial boundary and one end			
	Stage No.		1	2	3	
	Cell Pressure applied		590	630	710	kPa
	Back Pressure applied		550	550	550	kPa
	Effective Pressure		40	80	160	kPa
	Pore pressure at start of consolidation		584	593	638	kPa
	Pore pressure at end of consolidation		551	552	605	kPa
	Pore pressure dissipation at end of consolidation		96	95	38	%
Consolidation parameters (see note to BS1377 : pt 8, clause 6.3.4)	Coefficient of Consolidation	C_{vi}	0.55	0.15	0.01	m²/year
	Coefficient of Compressibility	M_{vi}	0.62	0.34	0.37	m²/MN
	Coefficient of Permeability (calculated)	k_{vi}	1.1E-10	1.6E-11	1.5E-12	m/s



**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No	BH1
Project Name	Central Somers Town, London		Depth (m BGL)	4.20 - 4.65
			No	16
			Type	UT
			ID	
			Spec Ref	

Shearing stages - graphical data



Ref

SLR8.1
Rev 85
May 09



Printed:18/03/2016 12:13

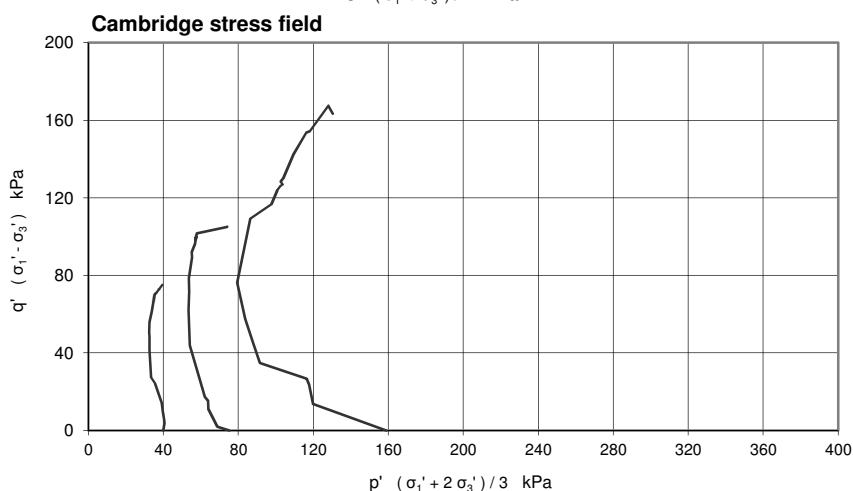
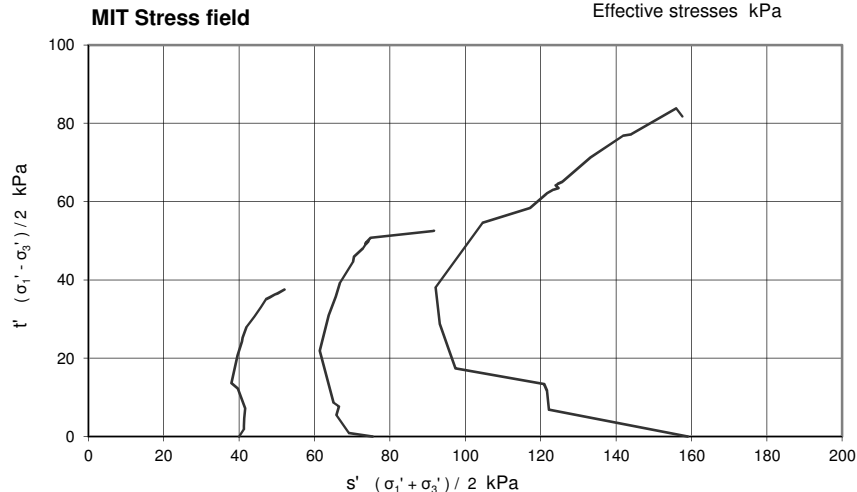
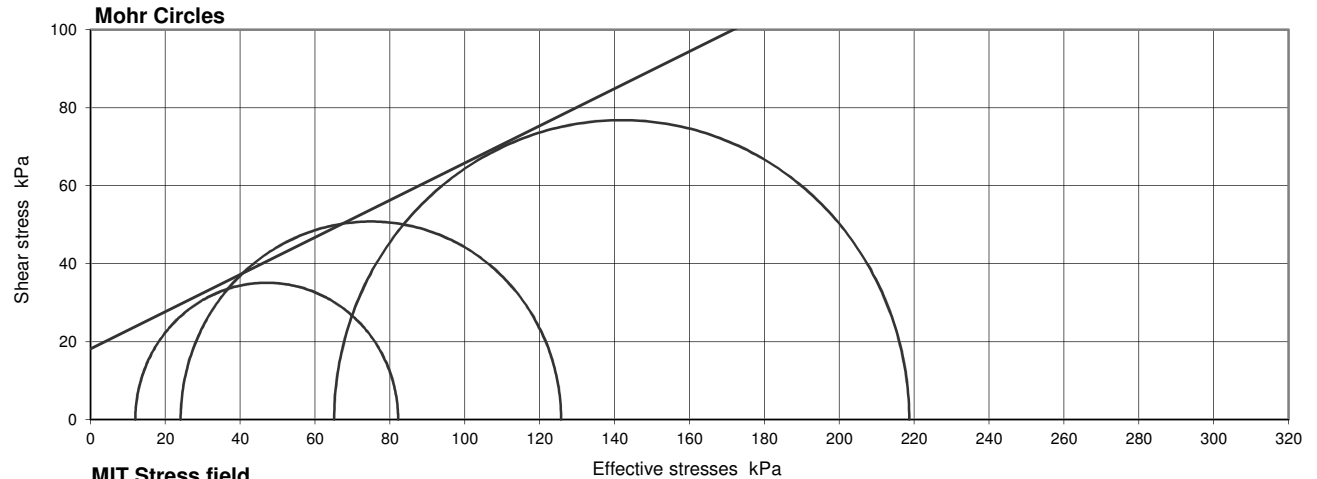
Figure

CUM

sheet 2 of 3

**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No	BH1
Project Name	Central Somers Town, London		Depth (m BGL)	4.20 - 4.65
			No	16
			Type	UT
			ID	
			Spec Ref	



Compression stages

Stage	1	2	3	
Cell pressure	590	630	710	kPa
Initial pwp	550	555	551	kPa
Initial σ_3'	40	75	159	kPa
Rate of strain	0.39	0.39	0.39	%/hr

Failure conditions

Criterion	Maximum effective principal stress ratio			
Axial strain	1.47	3.79	7.63	%
$(\sigma_1' / \sigma_3')_f$	6.850	5.216	3.360	
$(\sigma_1' - \sigma_3')_f$	70.2	101.6	153.6	kPa
u_f	578	606	645	kPa
$\sigma_3'_f$	12	24	65	kPa
$\sigma_1'_f$	82	126	219	kPa
A_f	0.40	0.50	0.61	
Time to failure	3.8	9.7	19.4	hrs

Shear Strength Parameters

at peak stress ratio

		Linear regression
c'	kPa	18.1
ϕ'	degrees	25.5
		Manual re-assessment
c'	kPa	-
ϕ'	degrees	-

Mode of failure



Notes : Deviator stresses corrected for area change, vertical side drains and 0.616 mm thick rubber membrane(s)

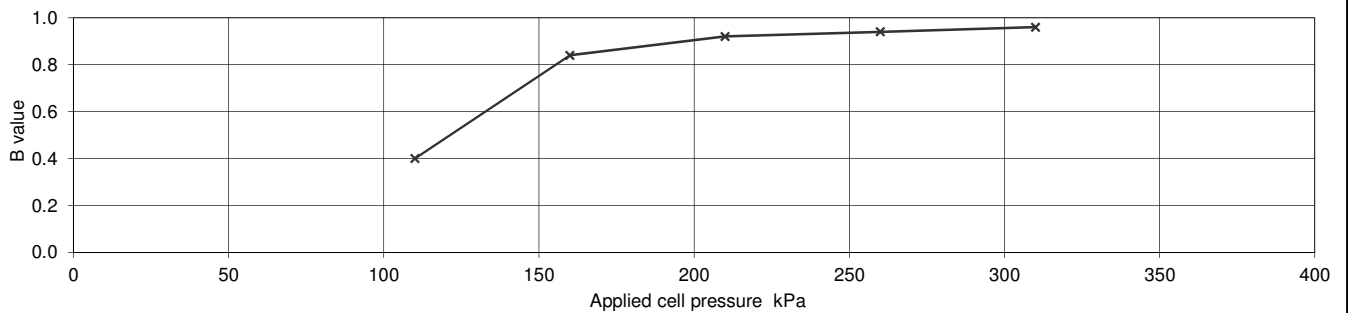
**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No	BH2
Project Name	Central Somers Town, London		Depth (m BGL)	2.20 - 2.65
			No	12
			Type	UT
			ID	
			Spec Ref	

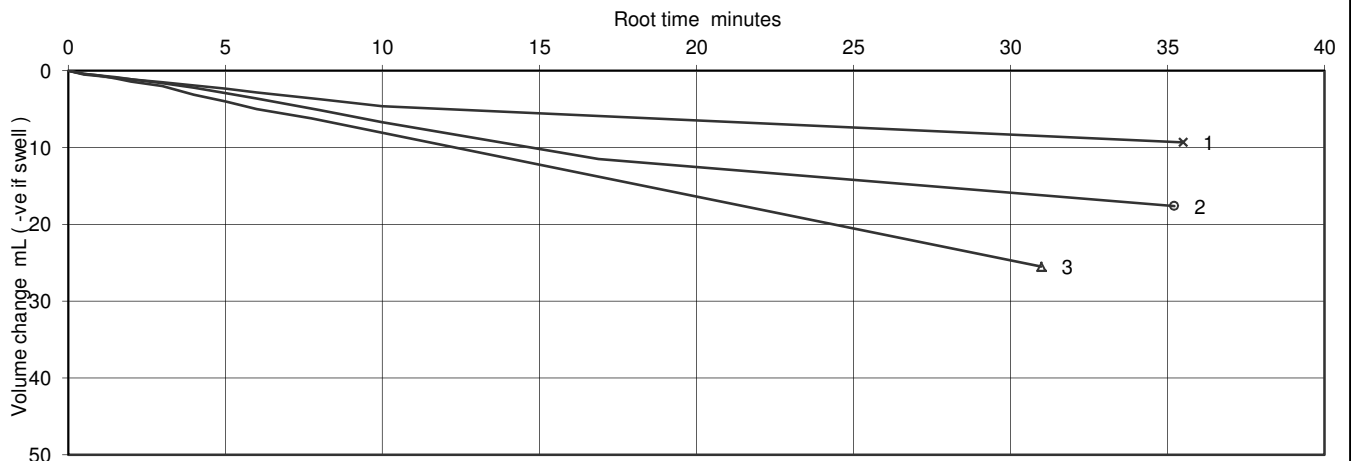
Specimen Details		
Initial		
Length	mm	203.90
Diameter	mm	103.25
Bulk Density	Mg/m³	1.93
Water Content	%	32
Dry density	Mg/m³	1.47
After test		
Bulk Density	Mg/m³	1.94
Water Content	%	32
Dry density	Mg/m³	1.47

Soil Description	Firm brown CLAY
Specimen Type /Preparation	UNDISTURBED

Saturation Details		Method of Saturation
		Increments of cell and back pressure
Cell pressure increments	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	310
Final pore water pressure	kPa	292
Final B Value		0.96



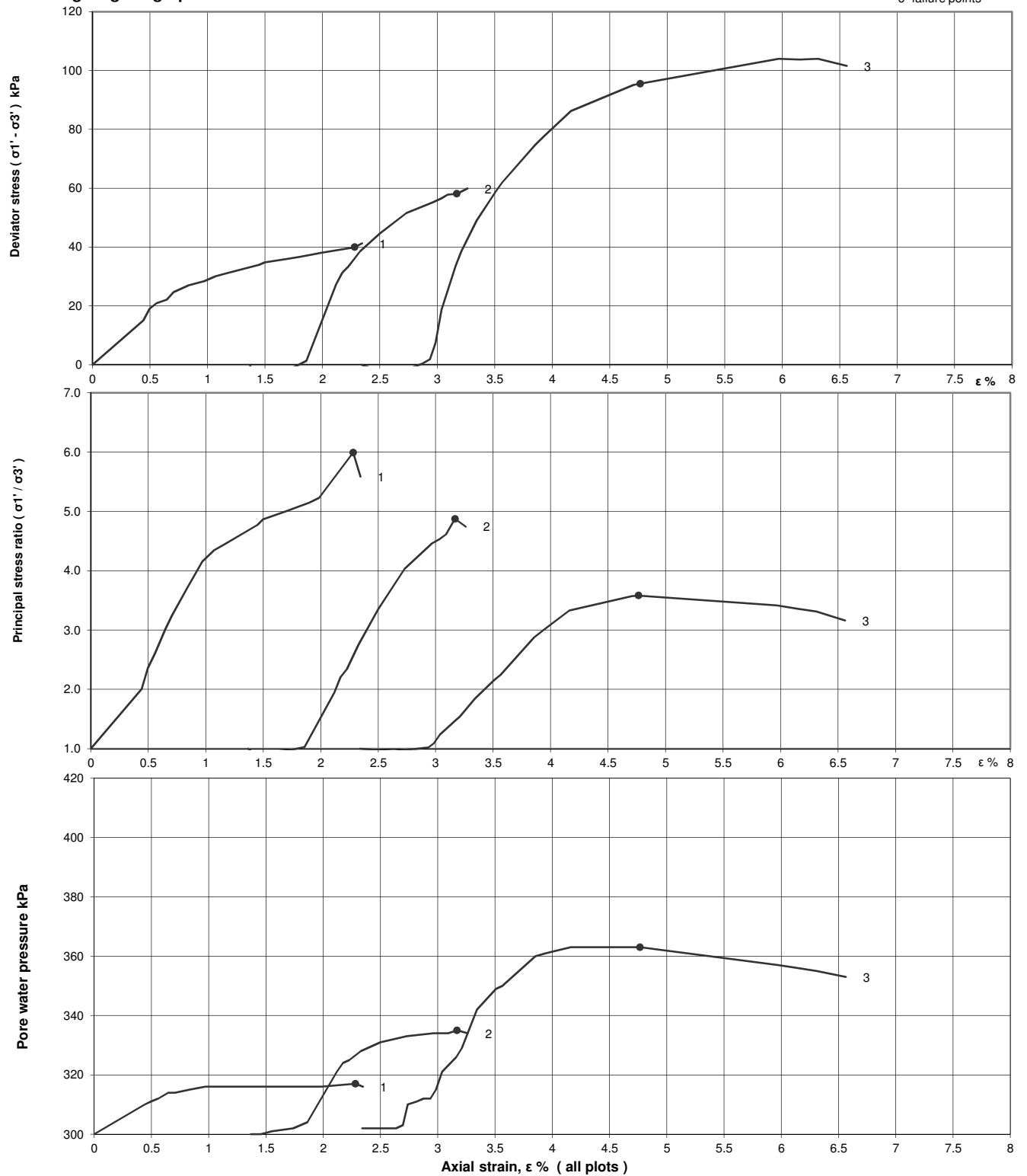
Consolidation Details		Drainage Conditions			
		Stage No.	1	2	3
	Cell Pressure applied		325	350	400
	Back Pressure applied		300	300	300
	Effective Pressure		25	50	100
	Pore pressure at start of consolidation		313	326	352
	Pore pressure at end of consolidation		300	300	302
	Pore pressure dissipation at end of consolidation		100	100	96
					%
Consolidation parameters (see note to BS1377 : pt 8, clause 6.3.4)	Coefficient of Consolidation	C _{vi}	0.52	0.52	0.33
	Coefficient of Compressibility	M _{vi}	0.41	0.39	0.29
	Coefficient of Permeability (calculated)	k _{vi}	6.5E-11	6.2E-11	3.0E-11



**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No		BH2	
Project Name	Central Somers Town, London		Depth (m BGL)		2.20 - 2.65	
			No	12	Type	UT
			ID			
			Spec Ref			

Shearing stages - graphical data



Ref

SLR8.1
Rev 85
May 09



Printed:29/02/2016 11:16

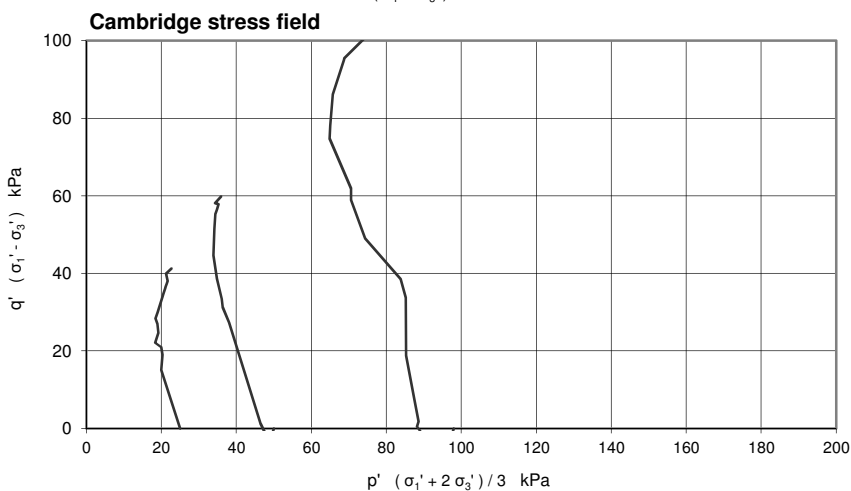
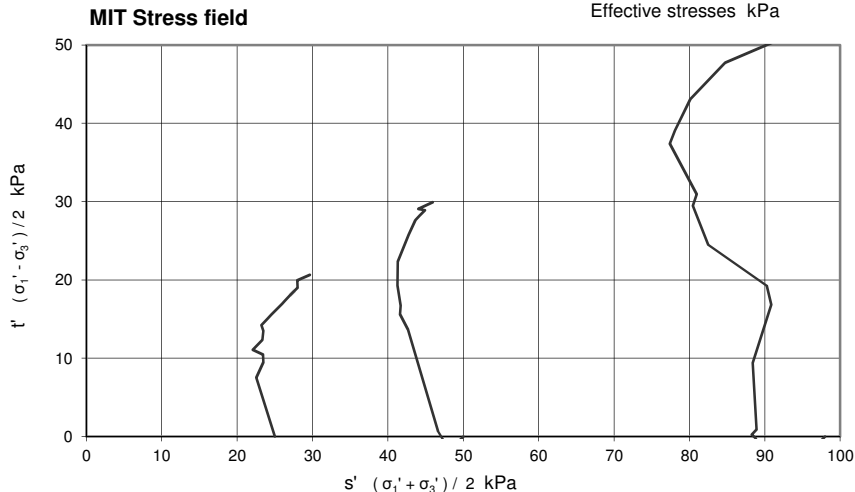
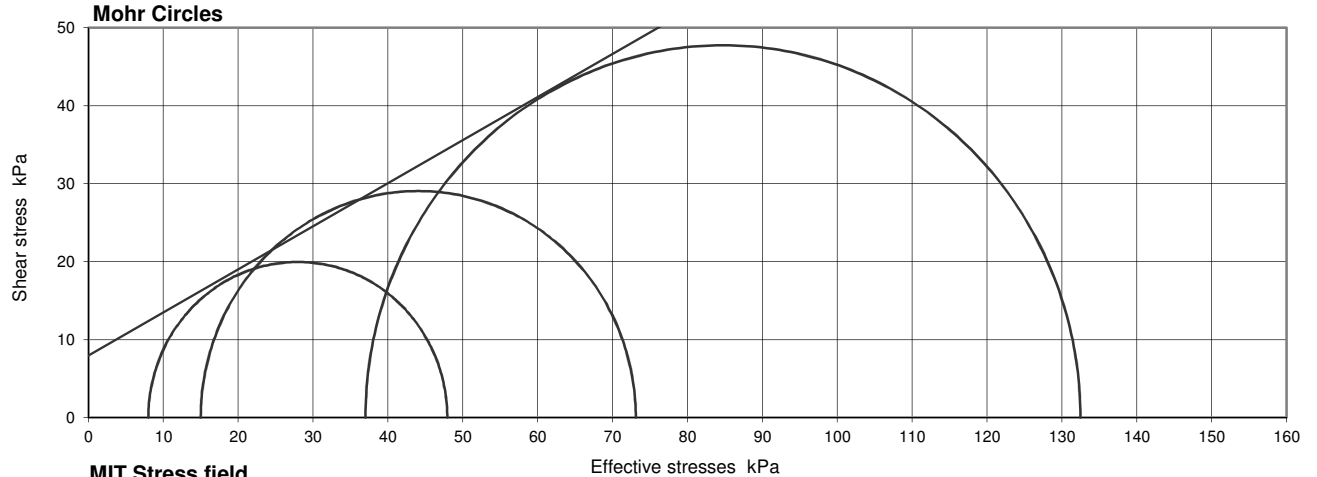
Figure

CUM

sheet 2 of 3

**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No	BH2
Project Name	Central Somers Town, London		Depth (m BGL)	2.20 - 2.65
			No	12
			ID	
			Spec Ref	
			Type	UT



Compression stages

Stage	1	2	3	
Cell pressure	325	350	400	kPa
Initial pwp	300	300	302	kPa
Initial σ_3'	25	50	98	kPa
Rate of strain	0.38	0.38	0.38	%/hr

Failure conditions

Criterion	Maximum effective principal stress ratio			
Axial strain	2.28	3.17	4.77	%
$(\sigma_1' / \sigma_3')_f$	5.991	4.873	3.581	
$(\sigma_1' - \sigma_3')_f$	39.9	58.1	95.5	kPa
u_f	317	335	363	kPa
$\sigma_3'_f$	8	15	37	kPa
$\sigma_1'_f$	48	73	132	kPa
A_f	0.43	0.60	0.64	
Time to failure	6.0	8.4	12.6	hrs

Shear Strength Parameters

at peak stress ratio

		Linear regression
c'	kPa	8.0
ϕ'	degrees	28.9
		Manual re-assessment
c'	kPa	-
ϕ'	degrees	-

Mode of failure



Notes : Deviator stresses corrected for area change, vertical side drains and 0.308 mm thick rubber membrane(s)

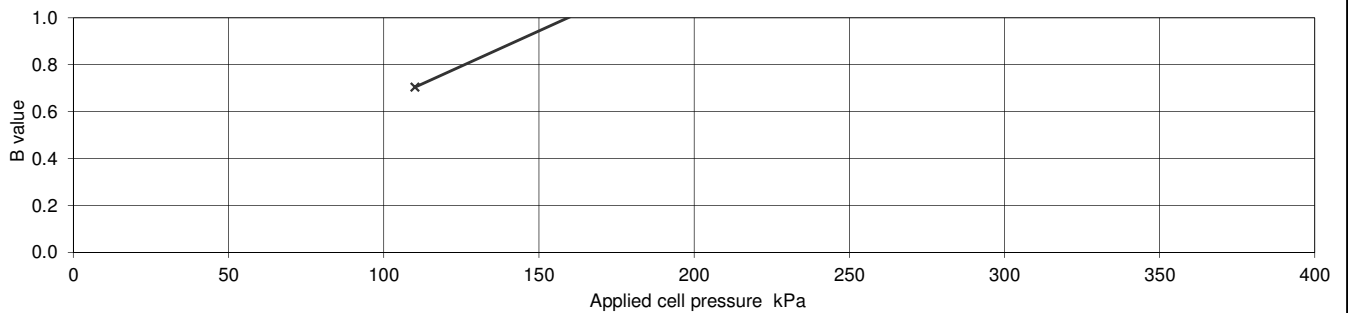
**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No		BH3	
Project Name	Central Somers Town, London		Depth (m BGL)		2.20 - 2.65	
			No	12	Type	UT
			ID			
			Spec Ref			

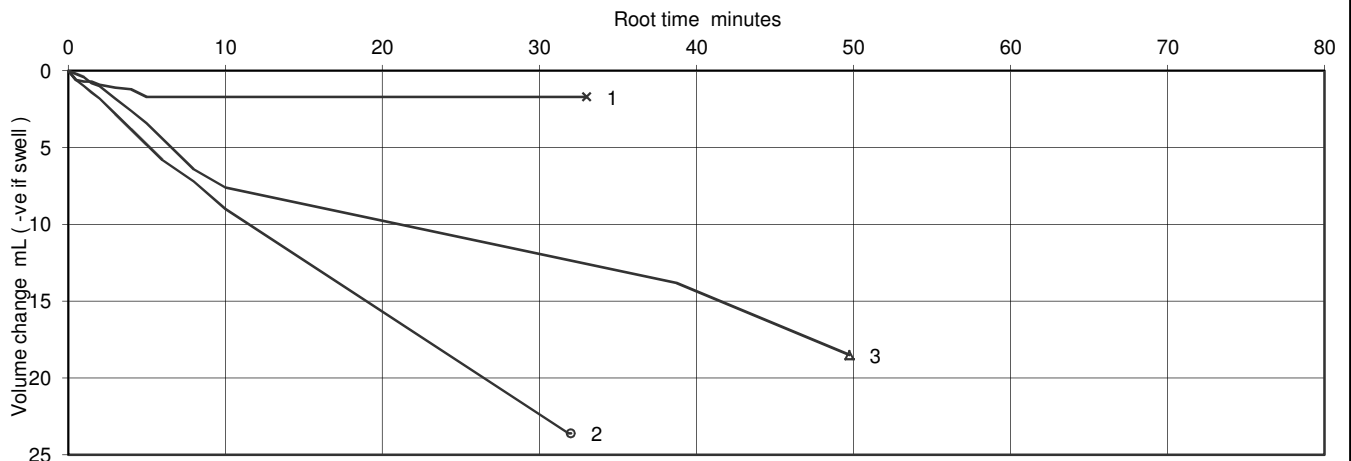
Specimen Details		
Initial		
Length	mm	203.75
Diameter	mm	103.21
Bulk Density	Mg/m³	1.93
Water Content	%	30
Dry density	Mg/m³	1.49
After test		
Bulk Density	Mg/m³	1.92
Water Content	%	30
Dry density	Mg/m³	1.47

Soil Description	Soft brown mottled grey CLAY.
Specimen Type /Preparation	UNDISTURBED

Saturation Details		Method of Saturation
Cell pressure increments	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	160
Final pore water pressure	kPa	151.6
Final B Value		1



Consolidation Details	Drainage Conditions		From radial boundary and one end			
	Stage No.		1	2	3	
	Cell Pressure applied		325	350	400	kPa
	Back Pressure applied		300	300	300	kPa
	Effective Pressure		25	50	100	kPa
	Pore pressure at start of consolidation		310	332	361	kPa
	Pore pressure at end of consolidation		300	300	303	kPa
	Pore pressure dissipation at end of consolidation		100	100	95	%
Consolidation parameters (see note to BS1377 : pt 8, clause 6.3.4)	Coefficient of Consolidation	C_{vi}	8.88	0.33	0.43	m²/year
	Coefficient of Compressibility	M_{vi}	0.10	0.42	0.18	m²/MN
	Coefficient of Permeability (calculated)	k_{vi}	2.7E-10	4.3E-11	2.5E-11	m/s

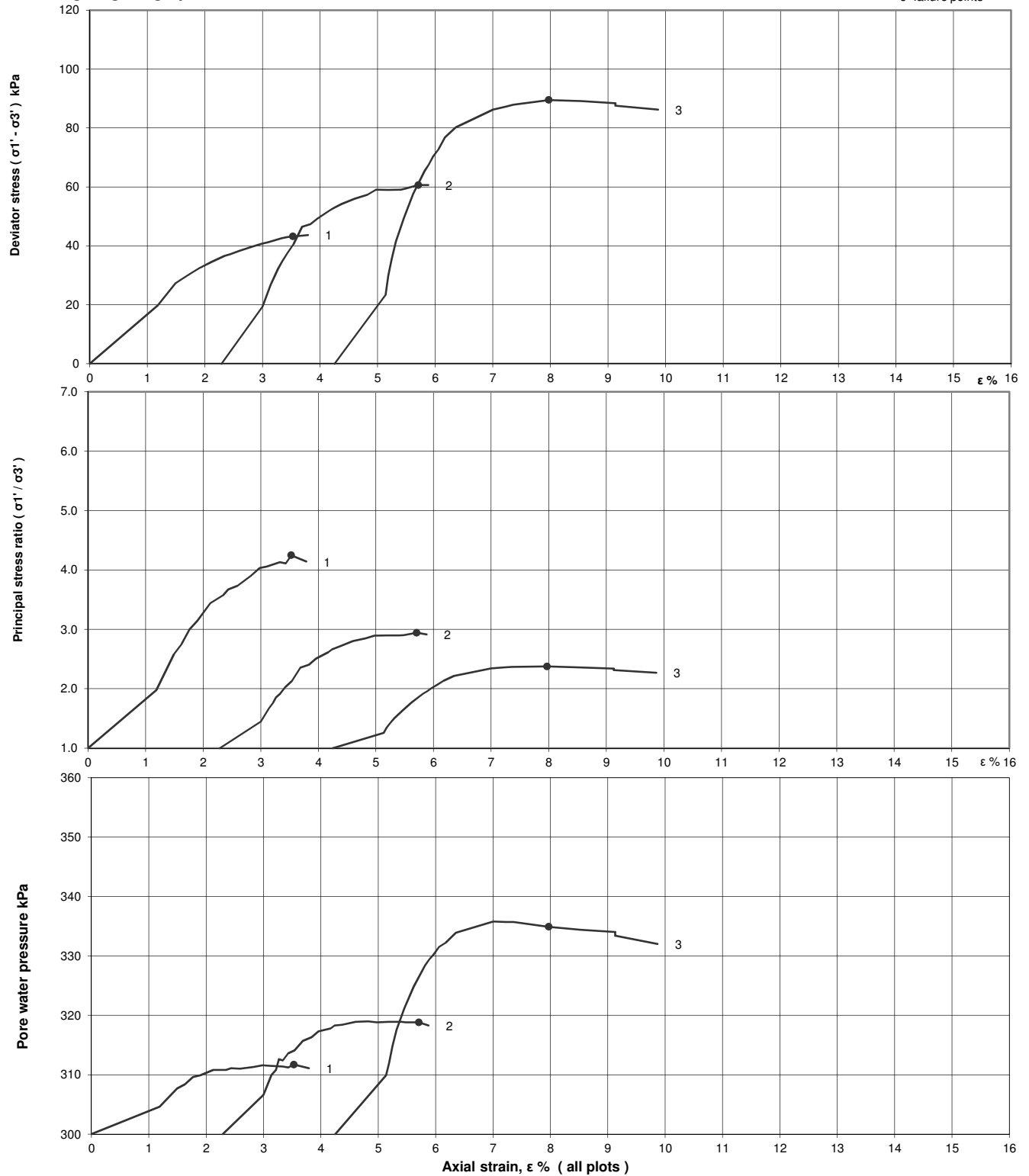


**Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990) - Multistage test on a single specimen**

Project No	D5061-15	Sample Details:	Hole No		BH3	
Project Name	Central Somers Town, London		Depth (m BGL)		2.20 - 2.65	
			No	12	Type	UT
			ID			
			Spec Ref			

Shearing stages - graphical data

o failure points



Ref

SLR8.1
Rev 85
May 09



Printed:29/02/2016 11:18

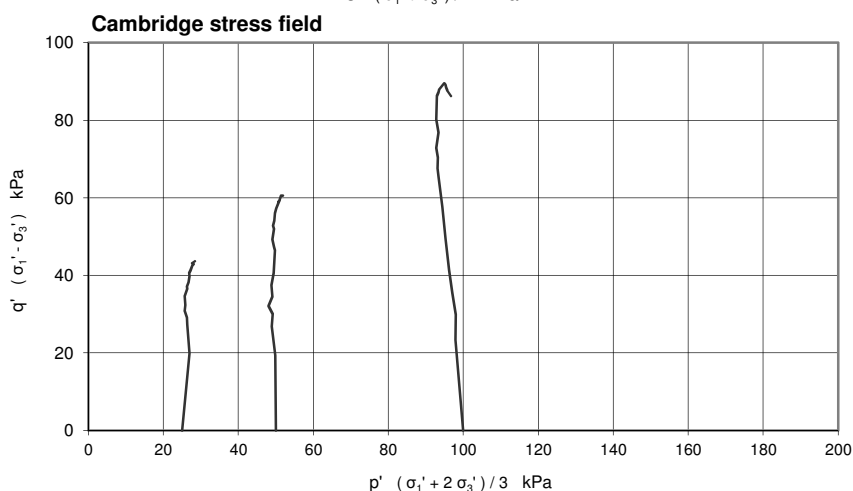
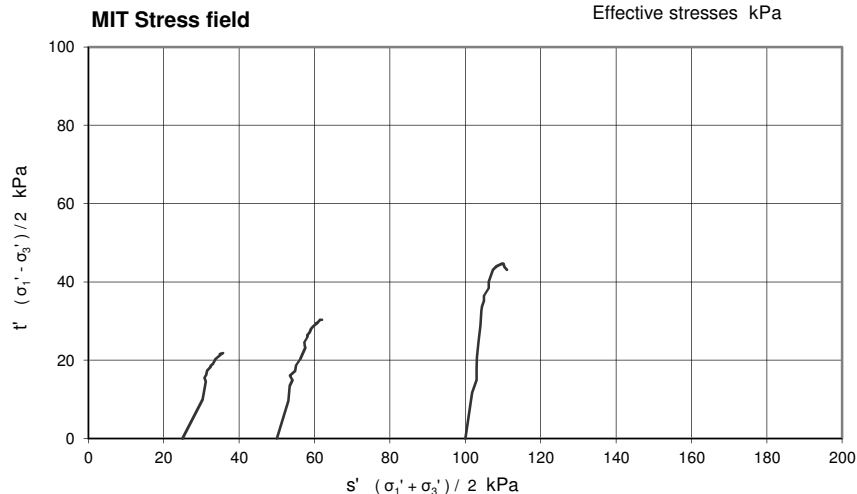
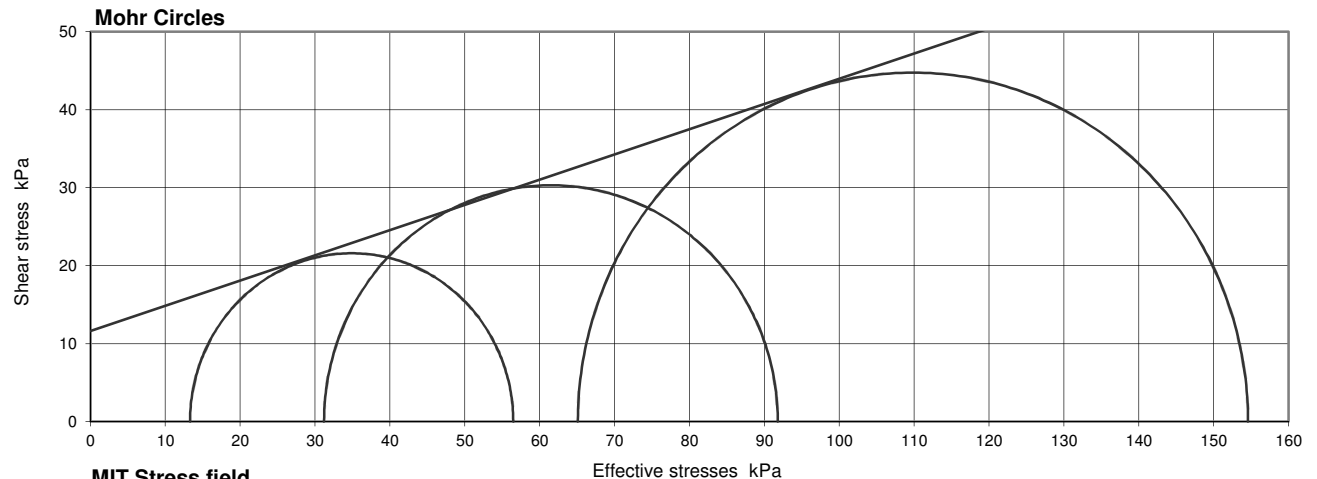
Figure

CUM

sheet 2 of 3

Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure (BS1377 : Part 8 : 1990) - Multistage test on a single specimen

Project No	D5061-15	Sample Details:	Hole No		BH3	
Project Name	Central Somers Town, London		Depth (m BGL)		2.20 - 2.65	
			No	12	Type	UT
			ID			
			Spec Ref			



Compression stages

Stage	1	2	3	
Cell pressure	325	350	400	kPa
Initial pwp	300	300	300	kPa
Initial σ_3'	25	50	100	kPa
Rate of strain	2.00	2.00	2.00	%/hr

Failure conditions

Criterion	Maximum effective principal stress ratio			
Axial strain	3.53	5.71	7.97	%
$(\sigma_1' / \sigma_3')_f$	4.246	2.942	2.375	
$(\sigma_1' - \sigma_3')_f$	43.2	60.6	89.5	kPa
u_f	312	319	335	kPa
$\sigma_3' f$	13	31	65	kPa
$\sigma_1' f$	56	92	155	kPa
A_f	0.27	0.31	0.39	
Time to failure	1.8	2.9	4.0	hrs

Shear Strength Parameters

at peak stress ratio

		Linear regression
c'	kPa	11.6
ϕ'	degrees	17.9
		Manual re-assessment
c'	kPa	-
ϕ'	degrees	-

Mode of failure



Notes : Deviator stresses corrected for area change, vertical side drains and 0.616 mm thick rubber membrane(s)

Ref

SLR8.1
Rev 85
May 09



Printed:29/02/2016 11:18

Figure

CUM

sheet 3 of 3

TEST REPORT



Report No. EFS/160979 (Ver. 1)

ESG Wokingham
Glossop House
Hogwood Lane Industrial Estate
Finchamstead
Wokingham
Berkshire
RG40 4QW

Site: Central Somers Town, London

The 19 samples described in this report were registered for analysis by ESG on 08-Feb-2016. This report supersedes any versions previously issued by the laboratory.

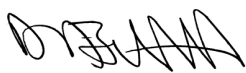
The analysis was completed by: 12-Feb-2016

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Pages 3 to 4)
Table of Method Descriptions (Page 5)
Table of Report Notes (Page 6)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
ESG :
Declan Burns


Managing Director
Multi-Sector Services

Date of Issue: 12-Feb-2016

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

ESG accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

Units : Method Codes : Method Reporting Limits : UKAS Accredited :			mg/kg ICPACIDS 20 Yes	mg/l ICPWSS 10 Yes	% TSBRE1 0.005 No	pH Units WSLM50 No											
LAB ID Number CL/	Client Sample Description	Sample Date	SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)											
1604388	BH1 D 5 0.50		1620	77	0.085	8.2											
1604389	BH1 D 19 6.20		15700	2440	0.631	7.6											
1604390	BH1 D 32 15.00		1890	753	0.418	8.3											
1604391	BH1 D 40 21.00		2500	720	0.743	8.0											
1604392	BH1 D 44 22.50		688	267	0.082	8.8											
1604393	BH10 D 5 1.40		1290	525	0.076	8.1											
1604394	BH10 D 12 4.25		10800	2440	0.366	7.8											
1604395	BH10 D 30 14.50		1440	638	0.556	8.3											
1604396	BH10 D 42 22.00		430	146	0.071	9.2											
1604397	BH10 D 52 28.00		238	99	0.045	9.6											
1604398	BH2 D 2 0.20		7100	1490	0.299	8.0											
1604399	BH2 D 13 2.70		35500	1760	1.05	7.8											
1604400	BH2 D 18 6.00		17500	2730	0.799	7.9											
1604401	BH2 D 27 12.00		3530	1510	0.565	7.6											
1604402	BH2 D 35 18.00		1350	511	0.564	8.7											
1604403	BH3 D 5 0.50		1610	157	0.152	8.4											
1604404	BH3 D 13 2.70		1800	543	0.169	7.6											
1604405	BH3 D 18 6.20		11000	2380	0.522	7.9											
1604406	BH3 D 29 13.00		2470	938	0.583	8.5											
 Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422			Client Name		ESG Wokingham						Sample Analysis						
			Contact		Andrea Capon						Date Printed		12-Feb-2016				
			Central Somers Town, London								Report Number		EFS/160979				
											Table Number		1				

Customer ESG Wokingham
 Site Central Somers Town, London
 Report No S160979

Consignment No S53458

Date Logged 08-Feb-2016

Report Due 15-Feb-2016

ID Number	Description	MethodID	Sampled	CustServ	Dep Opt			ICP ACIDS	ICP BRE	ICP WSS	KONECL	KoneNO3	TSBRE1	WISLM50
		DO Cl if pH<5.5			DO Mg if SO4(W)>3000	DO NO3 if pH<5.5	SO4-- (acid sol)							
								✓		✓				
CL/1604388	BH1 0.50	D		D	D	D	D	D	D	D	D	D	D	D
CL/1604389	BH1 6.20	D		D				D	D	D	D	D	D	D
CL/1604390	BH1 15.00	D		D				D	D	D	D	D	D	D
CL/1604391	BH1 21.00	D		D				D	D	D	D	D	D	D
CL/1604392	BH1 22.50	D		D				D	D	D	D	D	D	D
CL/1604393	BH10 1.40	D		D				D	D	D	D	D	D	D
CL/1604394	BH10 4.25	D		D				D	D	D	D	D	D	D
CL/1604395	BH10 14.50	D		D				D	D	D	D	D	D	D
CL/1604396	BH10 22.00	D		D				D	D	D	D	D	D	D
CL/1604397	BH10 28.00	D		D				D	D	D	D	D	D	D
CL/1604398	BH2 0.20	D		D				D	D	D	D	D	D	D
CL/1604399	BH2 2.70	D		D				D	D	D	D	D	D	D
CL/1604400	BH2 6.00	D		D				D	D	D	D	D	D	D
CL/1604401	BH2 12.00	D		D				D	D	D	D	D	D	D
CL/1604402	BH2 18.00	D		D				D	D	D	D	D	D	D

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

- A The sample was received in an inappropriate container for this analysis
- B The sample was received without the correct preservation for this analysis
- C Headspace present in the sample container
- D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
- E Sample processing did not commence within the appropriate holding time
- F Sample processing did not commence within the appropriate handling time

Requested Analysis Key

- Analysis Required
- Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
- No analysis scheduled
- ^ Analysis Subcontracted - **Note: due date may vary**

Where individual results are flagged see report notes for status.

Customer ESG Wokingham
 Site Central Somers Town, London
 Report No S160979

Consignment No S53458

Date Logged 08-Feb-2016

Report Due 15-Feb-2016

WLSLM50	pH (BS1377)											
TSBRE1	Total Sulphur.											
KoneNO3	Nitrate (BRE 2:1): mg/l											
KONECL	Chloride:(2:1)											
ICPWSS	SO4-- (H2O sol) mg/l	✓										
ICPBRE	Magnesium (BRE)	D	D	D	D	D	D	D	D	D	D	D
ICPACIDS	SO4-- (acid sol)	✓	D	D	D	D	D	D	D	D	D	D
Dep.Opt	DO NO3 if pH<5.5											
	DO Mg if SO4(W)>3000											
	DO Cl if pH<5.5											
CustServ	REPORT A	D	D	D	D	D	D	D	D	D	D	D
MethodID	Sampled											
ID Number	Description											
		CL/1604403	BH3 0.50	D	D	D	D	D	D	D	D	D
		CL/1604404	BH3 2.70	D	D	D	D	D	D	D	D	D
		CL/1604405	BH3 6.20	D	D	D	D	D	D	D	D	D
		CL/1604406	BH3 13.00	D	D	D	D	D	D	D	D	D

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

- A The sample was received in an inappropriate container for this analysis
- B The sample was received without the correct preservation for this analysis
- C Headspace present in the sample container
- D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
- E Sample processing did not commence within the appropriate holding time
- F Sample processing did not commence within the appropriate handling time

Requested Analysis Key

- Analysis Required
- Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
- No analysis scheduled
- ^ Analysis Subcontracted - **Note: due date may vary**

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : ESG Wokingham
Site : Central Somers Town, London
Report Number : S16_0979

Note: major constituent in upper case

[illegible]

TEST REPORT



Report No. EFS/160980 (Ver. 1)

ESG Wokingham
Glossop House
Hogwood Lane Industrial Estate
Finchamstead
Wokingham
Berkshire
RG40 4QW

Site: Central Somers Town, London

The 19 samples described in this report were registered for analysis by ESG on 08-Feb-2016. This report supersedes any versions previously issued by the laboratory.

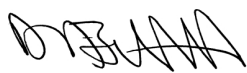
The analysis was completed by: 15-Feb-2016

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Pages 3 to 4)
Table of Method Descriptions (Page 5)
Table of Report Notes (Page 6)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
ESG :
Declan Burns


Managing Director
Multi-Sector Services

Date of Issue: 15-Feb-2016

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

ESG accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

		Units :	mg/kg	mg/l	%	pH Units																				
		Method Codes :	ICPACIDS	ICPWSS	TSBRE1	WSLM50																				
		Method Reporting Limits :	20	10	0.005																					
		UKAS Accredited :	Yes	Yes	No	No																				
LAB ID Number CL/	Client Sample Description	Sample Date	SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)																				
1604407	BH3 D 37 18.90		1760	416	0.611	8.6																				
1604408	BH3 D 39 20.80		1280	463	0.248	8.7																				
1604409	BH4 D 10 1.20		633	226	0.090	8.0																				
1604410	BH4 D 14 2.70		572	233	0.052	8.2																				
1604411	BH4 D 22 7.00		1910	721	0.385	8.2																				
1604412	BH4 D 31 13.00		2200	1050	0.515	8.3																				
1604413	BH4 D 40 20.00		1680	514	0.903	8.5																				
1604414	BH5 D 4 0.50		1850	208	0.162	8.8																				
1604415	BH5 D 14 3.20		22100	1990	0.631	7.9																				
1604416	BH5 D 18 6.20		9810	2540	0.429	8.0																				
1604417	BH5 D 26 12.00		3310	1070	0.588	7.9																				
1604418	BH5 D 34 18.00		1280	550	0.565	8.7																				
1604419	BH7 D 6 2.25		5990	2310	0.303	8.0																				
1604420	BH7 D 14 5.50		5770	2780	0.300	8.0																				
1604421	BH7 D 23 11.00		2820	1070	0.490	7.6																				
1604422	BH7 D 33 17.00		2250	630	0.704	8.0																				
1604423	BH7 D 40 21.00		342	99	0.082	9.1																				
1604424	BH7 D 46 25.00		830	66	0.212	8.8																				
1604425	BH7 D 53 29.50		228	317	0.055	9.4																				
 Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422			Client Name		ESG Wokingham						Sample Analysis															
			Contact		Andrea Capon																					
			Central Somers Town, London									Date Printed	15-Feb-2016													
												Report Number	EFS/160980													
												Table Number	1													

Customer ESG Wokingham
 Site Central Somers Town, London
 Report No S160980

Consignment No S53458

Date Logged 08-Feb-2016

Report Due 15-Feb-2016

ID Number	Description	MethodID	CustServ	Dep. Opt				ICP ACIDS	ICP BRE	ICP WSS	KONECL	KoneNO3	TSBRE1	WISLM50
		Sampled	REPORT A	DO Cl if pH<5.5	DO Mg if SO4(W)>3000	DO NO3 if pH<5.5	SO4-- (acid sol)	Magnesium (BRE)	SO4-- (H2O sol) mg/l	Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)	
							✓		✓					
CL/1604407	BH3 18.90	D	D	D	D	D	D	D	D	D	D	D	D	
CL/1604408	BH3 20.80	D	D				D	D	D	D	D	D	D	
CL/1604409	BH4 1.20	D	D				D	D	D	D	D	D	D	
CL/1604410	BH4 2.70	D	D				D	D	D	D	D	D	D	
CL/1604411	BH4 7.00	D	D				D	D	D	D	D	D	D	
CL/1604412	BH4 13.00	D	D				D	D	D	D	D	D	D	
CL/1604413	BH4 20.00	D	D				D	D	D	D	D	D	D	
CL/1604414	BH5 0.50	D	D				D	D	D	D	D	D	D	
CL/1604415	BH5 3.20	D	D				D	D	D	D	D	D	D	
CL/1604416	BH5 6.20	D	D				D	D	D	D	D	D	D	
CL/1604417	BH5 12.00	D	D				D	D	D	D	D	D	D	
CL/1604418	BH5 18.00	D	D				D	D	D	D	D	D	D	
CL/1604419	BH7 2.25	D	D				D	D	D	D	D	D	D	
CL/1604420	BH7 5.50	D	D				D	D	D	D	D	D	D	
CL/1604421	BH7 11.00	D	D				D	D	D	D	D	D	D	

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

- A The sample was received in an inappropriate container for this analysis
- B The sample was received without the correct preservation for this analysis
- C Headspace present in the sample container
- D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
- E Sample processing did not commence within the appropriate holding time
- F Sample processing did not commence within the appropriate handling time

Requested Analysis Key

- Analysis Required
- Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
- No analysis scheduled
- ^ Analysis Subcontracted - **Note: due date may vary**

Where individual results are flagged see report notes for status.

CustomerESG Wokingham
SiteCentral Somers Town, London
Report NoS160980

Consignment No S53458
Date Logged 08-Feb-2016

Report Due 15-Feb-2016

ID Number	Description	MethodID	CustServ	Dep. Opt	DO Mg if SO4(W)>3000	DO NO3 if pH<5.5	DO Cl if pH<5.5	ICP ACIDS	ICP BRE	ICP WSS	KONECL	KoneNO3	TSBRE1	WISLM50
		Sampled	REPORT A					SO4-- (acid sol)	Magnesium (BRE)	SO4-- (H2O sol) mg/l	Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)
								✓		✓				
CL/1604422	BH7 17.00	D	D					D	D	D	D	D	D	D
CL/1604423	BH7 21.00	D	D					D	D	D	D	D	D	D
CL/1604424	BH7 25.00	D	D					D	D	D	D	D	D	D
CL/1604425	BH7 29.50	D	D					D	D	D	D	D	D	D

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

AThe sample was received in an inappropriate container for this analysis
BThe sample was received without the correct preservation for this analysis
CHeadspace present in the sample container
DThe sampling date was not supplied so holding time may be compromised - applicable to all analysis
ESample processing did not commence within the appropriate holding time
FSample processing did not commence within the appropriate handling time

Requested Analysis Key

Analysis Required

Analysis dependant upon trigger result - Note: due date may be affected if triggered

No analysis scheduled

^Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : ESG Wokingham
Site : Central Somers Town, London
Report Number : S16_0980

Note: major constituent in upper case

[illegible]

TEST REPORT



Report No. EFS/160981 (Ver. 1)

ESG Wokingham
Glossop House
Hogwood Lane Industrial Estate
Finchamstead
Wokingham
Berkshire
RG40 4QW

Site: Central Somers Town, London

The 5 samples described in this report were registered for analysis by ESG on 08-Feb-2016. This report supersedes any versions previously issued by the laboratory.

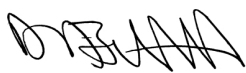
The analysis was completed by: 15-Feb-2016

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
ESG :
Declan Burns


Managing Director
Multi-Sector Services

Date of Issue: 15-Feb-2016

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

ESG accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

Customer
Site
Report No

ESG Wokingham
Central Somers Town, London
S160981

Consignment No S53458.01
Date Logged 08-Feb-2016

Report Due 15-Feb-2016

ID Number	Description	MethodID	CustServ	Dep. Opt				ICP ACIDS	ICP BRE	ICP WSS	KONECL	KoneNO3	TSBRE1	WISLM50
		Sampled	REPORT A	DO Cl if pH<5.5	DO Mg if SO4(W)>3000	DO NO3 if pH<5.5	SO4-- (acid sol)		Magnesium (BRE)	SO4-- (H2O sol) mg/l	Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)
								✓		✓				
CL/1604426	BH9 1.50	D	D	D	D	D	D	D	D	D	D	D	D	D
CL/1604427	BH9 2.70	D	D				D	D	D	D	D	D	D	D
CL/1604428	BH9 9.50	D	D				D	D	D	D	D	D	D	D
CL/1604429	BH9 15.50	D	D				D	D	D	D	D	D	D	D
CL/1604430	BH9 25.00	D	D				D	D	D	D	D	D	D	D

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A The sample was received in an inappropriate container for this analysis
B The sample was received without the correct preservation for this analysis
C Headspace present in the sample container
D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E Sample processing did not commence within the appropriate holding time
F Sample processing did not commence within the appropriate handling time

Requested Analysis Key

Analysis Required

Analysis dependant upon trigger result - Note: due date may be affected if triggered

No analysis scheduled

^ Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : ESG Wokingham
Site : Central Somers Town, London
Report Number : S16_0981

Note: major constituent in upper case

APPENDIX F
GEOENVIRONMENTAL LABORATORY TEST RESULTS

Soil Sample Analysis Test Report

EFS/160820 v.2

TEST REPORT



Report No. EFS/160820 (Ver. 2)

ESG Wokingham
Glossop House
Hogwood Lane Industrial Estate
Finchamstead
Wokingham
Berkshire
RG40 4QW

Site: Central Somers Town, London

The 15 samples described in this report were registered for analysis by ESG on 03-Feb-2016. This report supersedes any versions previously issued by the laboratory.

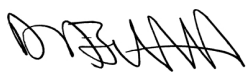
The analysis was completed by: 22-Feb-2016

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 3)
Table of PAH (MS-SIM) (80) Results (Pages 4 to 18)
Table of PCB Congener Results (Page 19)
Table of TPH Texas banding (std) (Page 20)
GC-FID Chromatograms (Pages 21 to 35)
Table of Asbestos Results (Pages 36 to 37)
Analytical and Deviating Sample Overview (Pages 38 to 39)
Table of Method Descriptions (Page 40)
Table of Report Notes (Page 41)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
ESG :
Declan Burns


Managing Director
Multi-Sector Services

Date of Issue: 22-Feb-2016

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

ESG accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

Units : Method Codes : Method Reporting Limits : UKAS Accredited :			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units	mg/kg	mg/kg	%					
			ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	PHSOIL	SFAPI	SFAPI	Sub002	Sub002a			
			0.3	0.1	0.5	0.5	0.5	0.1	0.5	0.5	3	1	0.1		0.5	0.5						
			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
LAB ID Number	CL/	Client Sample Description	Sample Date	Arsenic (MS)	Cadmium (MS)	Chromium (MS)	Copper (MS)	Lead (MS)	Mercury (MS)	Nickel (MS)	Selenium (MS)	Zinc (MS)	Barium.	Beryllium.	pH units (AR)	Cyanide(Total) (AR)	Phenol Index (AR)	Asbestos ID and Quantification	Asbestos Screen			
1603723		BH1A ES 4 0.50		32.8	0.36	24	36.4	33.3	0.2	28.1	<0.5	97.5	953	0.781	8.2	<0.5	<0.5		NAIIS			
1603724		BH4 ES 8 1.00		17	0.32	32.4	29.9	72	0.4	24.4	0.5	77.2	163	1.05	7.5	<0.5	<0.5		NAIIS			
1603725		BH5 ES 5 0.50		16.6	0.25	26.4	51.6	276.8	0.86	29.5	<0.5	92.8	157	0.882	9.0	<0.5	<0.5		NAIIS			
1603726		BH6 ES 6 1.00		15.5	0.43	26.7	50	319.6	0.63	24.3	<0.5	167.7	162	0.805	8.2	<0.5	<0.5		NAIIS			
1603727		BH7 ES 1 0.30		7.9	0.48	21.5	58	89.8	0.21	29.4	0.8	106.6	231	1.06	7.9	<0.5	<0.5		NAIIS			
1603728		WS3 ES 10 3.00		11.4	0.32	43.9	27.4	79.6	0.24	41.2	0.8	75.1	77	1.07	8.4	<0.5	<0.5		NAIIS			
1603729		WS5 ES 2 1.50		11.8	0.18	48.1	31.1	32.5	0.11	43.7	0.6	86.4	62.5	1.3	7.9	<0.5	<0.5		NAIIS			
1603730		WS8 ES 9 2.60		19.5	0.21	43.7	45.8	98.2	0.18	45.4	0.9	105.8	110	1.24	7.9	<0.5	<0.5		NAIIS			
1603731		WS16 ES 2 0.30		7	0.43	39.8	25.9	50.4	0.13	15.4	0.8	59.4	71	0.328	8.7	<0.5	<0.5		NAIIS			
1603732		WS26A ES 4 0.90		12	0.23	35.6	29.4	142.8	0.37	28.9	0.7	69.2	102	0.817	8.4	<0.5	<0.5		NAIIS			
1603733		WS27 ES 3 1.00		13.6	10.64	78.5	115.1	121	1.52	38.3	6	270.9	547	1.5	8.0	<0.5	<0.5		NAIIS			
1603734		WS28 ES 3 1.00		11.7	0.62	33	37.6	178.6	0.44	25.3	0.6	112.7	144	0.797	8.5	<0.5	<0.5		NAIIS			
1603735		WS29 ES 1 0.30		12.3	0.2	26.7	22.2	123.6	0.48	24.4	0.5	65	94.7	0.631	8.7	<0.5	<0.5	0.005	AM			
1603736		TP2 ES 1 0.30		15.6	3.04	38.8	68.5	221.9	1.4	26.3	1.1	239.6	229	0.904	8.0	<0.5	<0.5	NADIS	CH			
1603737		HP5 ES 3 1.00		10.9	0.24	44.9	28.9	157.1	0.22	29	1.1	101.7	229	2.41	8.7	<0.5	<0.5	0.047	CH AM			
 Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422				Client Name		ESG Wokingham							Sample Analysis									
				Contact		Sean Wheeliker																
				Central Somers Town, London												Date Printed				22-Feb-2016		
																Report Number				EFS/160820		
																Table Number				1		

			Units :	mg/kg	mg/kg	% M/M	mg/kg	mg/kg	µg/kg	% M/M	mg/kg										
			Method Codes :	TPHFIDUS	TPHFIDUS	FOCS	ICPMSS	KONECR	PCBUSECDAR	WSLM59	PAHMSUS										
			Method Reporting Limits :	10	10	0.04	0.6	0.1		0.04											
			UKAS Accredited :	Yes	Yes	No	No	No	No	No	Yes										
LAB ID Number CL/	Client Sample Description	Sample Date	TPH by GC/FID (AR)	TPH Carbon Banding.	S.O.M. % (Calc)	Vanadium (MS)	Chromium vi:	PCB-7 Congeners Analysis	Total Organic Carbon	PAH (16) by GCMS											
1603723	BH1A ES 4 0.50		55	Req	0.66	42.9	<0.1	Req	0.38	Req											
1603724	BH4 ES 8 1.00		23	Req	2.43	57.4	<0.1	Req	1.41	Req											
1603725	BH5 ES 5 0.50		135	Req	2.64	50.4	<0.1	Req	1.53	Req											
1603726	BH6 ES 6 1.00		36	Req	4.29	41.9	0.2	Req	2.49	Req											
1603727	BH7 ES 1 0.30		122	Req	6.50	34.8	<0.1	Req	3.77	Req											
1603728	WS3 ES 10 3.00		23	Req	0.64	69.4	<0.1	Req	0.37	Req											
1603729	WS5 ES 2 1.50		54	Req	0.67	75.5	<0.1	Req	0.39	Req											
1603730	WS8 ES 9 2.60		196	Req	0.71	71.4	<0.1	Req	0.41	Req											
1603731	WS16 ES 2 0.30		2160	Req	6.88	51.7	0.1	Req	3.99	Req											
1603732	WS26A ES 4 0.90		76	Req	2.31	46.1	<0.1	Req	1.34	Req											
1603733	WS27 ES 3 1.00		219	Req	4.29	48.9	<0.1	Req	2.49	Req											
1603734	WS28 ES 3 1.00		427	Req	2.05	38.6	<0.1	Req	1.19	Req											
1603735	WS29 ES 1 0.30		57	Req	0.98	37	<0.1	Req	0.57	Req											
1603736	TP2 ES 1 0.30		90	Req	4.69	47.8	<0.1	Req	2.72	Req											
1603737	HP5 ES 3 1.00		111	Req	1.55	95.9	<0.1	Req	0.90	Req											
 Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422			Client Name		ESG Wokingham						Sample Analysis										
			Contact		Sean Wheeliker																
			Central Somers Town, London									Date Printed		22-Feb-2016							
												Report Number		EFS/160820							
												Table Number		1							

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	BH1A ES 4 0.50	Job Number:	S16_0820
LIMS ID Number:	CL1603723	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	4.15	0.12	96
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	-	< 0.08	-
Anthracene	120-12-7	5.51	0.12	100
Fluoranthene	206-44-0	6.76	0.21	94
Pyrene	129-00-0	7.04	0.23	95
Benzo[a]anthracene	56-55-3	8.71	0.13	83
Chrysene	218-01-9	8.76	0.22	87
Benzo[b]fluoranthene	205-99-2	10.24	0.31	74
Benzo[k]fluoranthene	207-08-9	10.28	0.15	74
Benzo[a]pyrene	50-32-8	10.67	0.27	97
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	0.24	91
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	12.33	0.24	95
Total (USEPA16) PAHs	-	-	< 2.64	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	95
Phenanthrene-d10	94
Chrysene-d12	98
Perylene-d12	101

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	87
Terphenyl-d14	77

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	BH4 ES 8 1.00	Job Number:	S16_0820
LIMS ID Number:	CL1603724	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	-	< 0.08	-
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	-	< 0.08	-
Anthracene	120-12-7	-	< 0.08	-
Fluoranthene	206-44-0	-	< 0.08	-
Pyrene	129-00-0	-	< 0.08	-
Benzo[a]anthracene	56-55-3	-	< 0.08	-
Chrysene	218-01-9	-	< 0.08	-
Benzo[b]fluoranthene	205-99-2	-	< 0.08	-
Benzo[k]fluoranthene	207-08-9	-	< 0.08	-
Benzo[a]pyrene	50-32-8	-	< 0.08	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.08	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.08	-
Total (USEPA16) PAHs	-	-	< 1.28	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	94
Acenaphthene-d10	93
Phenanthrene-d10	93
Chrysene-d12	94
Perylene-d12	95

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	102
Terphenyl-d14	88

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	BH5 ES 5 0.50	Job Number:	S16_0820
LIMS ID Number:	CL1603725	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	3.11	0.09	94
Acenaphthylene	208-96-8	4.16	0.20	96
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	0.75	98
Anthracene	120-12-7	5.50	0.31	94
Fluoranthene	206-44-0	6.76	2.50	95
Pyrene	129-00-0	7.04	2.19	96
Benzo[a]anthracene	56-55-3	8.71	1.52	91
Chrysene	218-01-9	8.76	1.70	97
Benzo[b]fluoranthene	205-99-2	10.24	2.62	99
Benzo[k]fluoranthene	207-08-9	10.27	0.84	99
Benzo[a]pyrene	50-32-8	10.66	1.93	96
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	1.76	100
Dibenzo[a,h]anthracene	53-70-3	12.08	0.29	92
Benzo[g,h,i]perylene	191-24-2	12.33	1.55	96
Total (USEPA16) PAHs	-	-	< 18.41	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	95
Phenanthrene-d10	97
Chrysene-d12	103
Perylene-d12	115

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	100
Terphenyl-d14	86

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	BH6 ES 6 1.00	Job Number:	S16_0820
LIMS ID Number:	CL1603726	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	-	< 0.08	-
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	-	< 0.08	-
Anthracene	120-12-7	-	< 0.08	-
Fluoranthene	206-44-0	-	< 0.08	-
Pyrene	129-00-0	-	< 0.08	-
Benzo[a]anthracene	56-55-3	-	< 0.08	-
Chrysene	218-01-9	-	< 0.08	-
Benzo[b]fluoranthene	205-99-2	-	< 0.08	-
Benzo[k]fluoranthene	207-08-9	-	< 0.08	-
Benzo[a]pyrene	50-32-8	-	< 0.08	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.08	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.08	-
Total (USEPA16) PAHs	-	-	< 1.28	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	98
Acenaphthene-d10	97
Phenanthrene-d10	98
Chrysene-d12	101
Perylene-d12	102

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	82

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	BH7 ES 1 0.30	Job Number:	S16_0820
LIMS ID Number:	CL1603727	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	3.11	0.09	94
Acenaphthylene	208-96-8	4.15	0.12	94
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	0.30	98
Anthracene	120-12-7	5.50	0.14	91
Fluoranthene	206-44-0	6.76	0.67	79
Pyrene	129-00-0	7.04	0.62	96
Benzo[a]anthracene	56-55-3	8.71	0.37	92
Chrysene	218-01-9	8.76	0.40	96
Benzo[b]fluoranthene	205-99-2	10.24	0.48	95
Benzo[k]fluoranthene	207-08-9	10.27	0.24	95
Benzo[a]pyrene	50-32-8	10.66	0.38	98
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	0.39	90
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	12.33	0.37	94
Total (USEPA16) PAHs	-	-	< 4.81	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	98
Phenanthrene-d10	99
Chrysene-d12	106
Perylene-d12	113

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	81

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS3 ES 10 3.00	Job Number:	S16_0820
LIMS ID Number:	CL1603728	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	-	< 0.08	-
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	-	< 0.08	-
Anthracene	120-12-7	-	< 0.08	-
Fluoranthene	206-44-0	6.77	0.09	98
Pyrene	129-00-0	7.05	0.09	77
Benzo[a]anthracene	56-55-3	-	< 0.08	-
Chrysene	218-01-9	-	< 0.08	-
Benzo[b]fluoranthene	205-99-2	-	< 0.08	-
Benzo[k]fluoranthene	207-08-9	-	< 0.08	-
Benzo[a]pyrene	50-32-8	-	< 0.08	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.08	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.08	-
Total (USEPA16) PAHs	-	-	< 1.30	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	99
Phenanthrene-d10	101
Chrysene-d12	105
Perylene-d12	105

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	101
Terphenyl-d14	88

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS5 ES 2 1.50	Job Number:	S16_0820
LIMS ID Number:	CL1603729	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	-	< 0.08	-
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	-	< 0.08	-
Anthracene	120-12-7	-	< 0.08	-
Fluoranthene	206-44-0	6.76	0.38	92
Pyrene	129-00-0	7.04	0.41	96
Benzo[a]anthracene	56-55-3	8.71	0.31	93
Chrysene	218-01-9	8.77	0.30	96
Benzo[b]fluoranthene	205-99-2	10.24	0.48	71
Benzo[k]fluoranthene	207-08-9	10.27	0.20	71
Benzo[a]pyrene	50-32-8	10.67	0.38	98
Indeno[1,2,3-cd]pyrene	193-39-5	12.05	0.27	95
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	12.33	0.25	96
Total (USEPA16) PAHs	-	-	< 3.54	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	102
Acenaphthene-d10	99
Phenanthrene-d10	99
Chrysene-d12	106
Perylene-d12	109

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	91
Terphenyl-d14	81

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS8 ES 9 2.60	Job Number:	S16_0820
LIMS ID Number:	CL1603730	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	3.11	0.33	91
Acenaphthylene	208-96-8	4.15	0.26	97
Acenaphthene	83-32-9	4.26	0.26	95
Fluorene	86-73-7	4.64	0.16	99
Phenanthrene	85-01-8	5.45	2.33	99
Anthracene	120-12-7	5.50	0.62	95
Fluoranthene	206-44-0	6.76	4.62	95
Pyrene	129-00-0	7.04	3.96	96
Benzo[a]anthracene	56-55-3	8.71	2.20	93
Chrysene	218-01-9	8.76	2.30	96
Benzo[b]fluoranthene	205-99-2	10.24	2.51	100
Benzo[k]fluoranthene	207-08-9	10.27	1.08	100
Benzo[a]pyrene	50-32-8	10.66	2.05	98
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	1.45	99
Dibenzo[a,h]anthracene	53-70-3	12.08	0.26	95
Benzo[g,h,i]perylene	191-24-2	12.33	1.31	97
Total (USEPA16) PAHs	-	-	25.70	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	95
Acenaphthene-d10	94
Phenanthrene-d10	97
Chrysene-d12	103
Perylene-d12	113

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	92
Terphenyl-d14	79

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS16 ES 2 0.30	Job Number:	S16_0820
LIMS ID Number:	CL1603731	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	4.15	0.41	97
Acenaphthene	83-32-9	4.26	0.25	88
Fluorene	86-73-7	4.64	0.20	95
Phenanthrene	85-01-8	5.45	2.20	99
Anthracene	120-12-7	5.50	0.83	95
Fluoranthene	206-44-0	6.76	4.57	95
Pyrene	129-00-0	7.04	3.96	97
Benzo[a]anthracene	56-55-3	8.71	2.14	92
Chrysene	218-01-9	8.76	2.04	94
Benzo[b]fluoranthene	205-99-2	10.24	2.93	86
Benzo[k]fluoranthene	207-08-9	10.27	1.01	86
Benzo[a]pyrene	50-32-8	10.66	3.01	95
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	2.61	95
Dibenzo[a,h]anthracene	53-70-3	12.07	0.47	92
Benzo[g,h,i]perylene	191-24-2	12.33	2.34	95
Total (USEPA16) PAHs	-	-	< 29.05	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	101
Phenanthrene-d10	104
Chrysene-d12	117
Perylene-d12	138

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	86
Terphenyl-d14	80

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS26A ES 4 0.90	Job Number:	S16_0820
LIMS ID Number:	CL1603732	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	3.11	0.10	96
Acenaphthylene	208-96-8	-	< 0.08	-
Acenaphthene	83-32-9	4.26	0.12	91
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	0.78	100
Anthracene	120-12-7	5.50	0.22	96
Fluoranthene	206-44-0	6.76	1.49	80
Pyrene	129-00-0	7.04	1.29	97
Benzo[a]anthracene	56-55-3	8.71	0.88	95
Chrysene	218-01-9	8.76	0.90	97
Benzo[b]fluoranthene	205-99-2	10.24	1.18	99
Benzo[k]fluoranthene	207-08-9	10.27	0.40	99
Benzo[a]pyrene	50-32-8	10.66	0.88	97
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	0.70	95
Dibenzo[a,h]anthracene	53-70-3	12.07	0.13	81
Benzo[g,h,i]perylene	191-24-2	12.33	0.60	97
Total (USEPA16) PAHs	-	-	< 9.83	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	96
Acenaphthene-d10	96
Phenanthrene-d10	96
Chrysene-d12	104
Perylene-d12	121

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	98
Terphenyl-d14	84

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS27 ES 3 1.00	Job Number:	S16_0820
LIMS ID Number:	CL1603733	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	4.15	0.09	96
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	0.31	97
Anthracene	120-12-7	5.50	0.11	97
Fluoranthene	206-44-0	6.76	0.95	95
Pyrene	129-00-0	7.04	0.91	97
Benzo[a]anthracene	56-55-3	8.71	0.59	90
Chrysene	218-01-9	8.76	0.63	91
Benzo[b]fluoranthene	205-99-2	10.24	0.77	96
Benzo[k]fluoranthene	207-08-9	10.27	0.32	96
Benzo[a]pyrene	50-32-8	10.67	0.59	96
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	0.49	93
Dibenzo[a,h]anthracene	53-70-3	12.08	0.09	35
Benzo[g,h,i]perylene	191-24-2	12.33	0.41	95
Total (USEPA16) PAHs	-	-	< 6.50	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	100
Acenaphthene-d10	99
Phenanthrene-d10	101
Chrysene-d12	108
Perylene-d12	122

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	99
Terphenyl-d14	84

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS28 ES 3 1.00	Job Number:	S16_0820
LIMS ID Number:	CL1603734	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	3.11	0.32	94
Acenaphthylene	208-96-8	4.15	1.72	99
Acenaphthene	83-32-9	4.26	0.29	85
Fluorene	86-73-7	4.64	0.20	97
Phenanthrene	85-01-8	5.45	3.23	99
Anthracene	120-12-7	5.50	1.88	95
Fluoranthene	206-44-0	6.76	12.30	95
Pyrene	129-00-0	7.04	11.90	96
Benzo[a]anthracene	56-55-3	8.71	7.74	93
Chrysene	218-01-9	8.76	7.05	97
Benzo[b]fluoranthene	205-99-2	10.24	9.29	100
Benzo[k]fluoranthene	207-08-9	10.27	3.67	100
Benzo[a]pyrene	50-32-8	10.66	8.31	96
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	6.36	94
Dibenzo[a,h]anthracene	53-70-3	12.07	1.09	94
Benzo[g,h,i]perylene	191-24-2	12.33	5.25	96
Total (USEPA16) PAHs	-	-	80.60	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	95
Acenaphthene-d10	96
Phenanthrene-d10	98
Chrysene-d12	113
Perylene-d12	133

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	100
Terphenyl-d14	87

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	WS29 ES 1 0.30	Job Number:	S16_0820
LIMS ID Number:	CL1603735	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	-	< 0.08	-
Acenaphthene	83-32-9	-	< 0.08	-
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	0.22	98
Anthracene	120-12-7	-	< 0.08	-
Fluoranthene	206-44-0	6.76	0.45	95
Pyrene	129-00-0	7.04	0.41	97
Benzo[a]anthracene	56-55-3	8.71	0.25	96
Chrysene	218-01-9	8.76	0.26	96
Benzo[b]fluoranthene	205-99-2	10.24	0.30	94
Benzo[k]fluoranthene	207-08-9	10.28	0.15	95
Benzo[a]pyrene	50-32-8	10.66	0.26	98
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	0.23	95
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	12.33	0.20	98
Total (USEPA16) PAHs	-	-	< 3.21	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	99
Phenanthrene-d10	99
Chrysene-d12	108
Perylene-d12	120

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	91
Terphenyl-d14	81

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	TP2 ES 1 0.30	Job Number:	S16_0820
LIMS ID Number:	CL1603736	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	4.15	0.09	95
Acenaphthene	83-32-9	4.26	0.09	87
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	0.74	99
Anthracene	120-12-7	5.50	0.22	93
Fluoranthene	206-44-0	6.76	1.51	96
Pyrene	129-00-0	7.04	1.32	97
Benzo[a]anthracene	56-55-3	8.71	0.75	91
Chrysene	218-01-9	8.76	0.73	95
Benzo[b]fluoranthene	205-99-2	10.24	0.90	99
Benzo[k]fluoranthene	207-08-9	10.27	0.39	98
Benzo[a]pyrene	50-32-8	10.67	0.74	92
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	0.60	99
Dibenzo[a,h]anthracene	53-70-3	12.08	0.10	93
Benzo[g,h,i]perylene	191-24-2	12.33	0.54	96
Total (USEPA16) PAHs	-	-	< 8.88	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	96
Acenaphthene-d10	98
Phenanthrene-d10	100
Chrysene-d12	107
Perylene-d12	122

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	98
Terphenyl-d14	85

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:	ESG Wokingham: Central Somers Town, London		
Sample Details:	HP5 ES 3 1.00	Job Number:	S16_0820
LIMS ID Number:	CL1603737	Date Booked in:	03-Feb-16
QC Batch Number:	160140B	Date Extracted:	05-Feb-16
Quantitation File:	Initial Calibration	Date Analysed:	06-Feb-16
Directory:	6\020516GC5\	Matrix:	Soil
Dilution:	1.0	Ext Method:	Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Naphthalene	91-20-3	-	< 0.08	-
Acenaphthylene	208-96-8	4.15	0.33	98
Acenaphthene	83-32-9	4.26	0.10	89
Fluorene	86-73-7	-	< 0.08	-
Phenanthrene	85-01-8	5.45	1.06	99
Anthracene	120-12-7	5.50	0.46	95
Fluoranthene	206-44-0	6.76	3.52	95
Pyrene	129-00-0	7.04	3.24	96
Benzo[a]anthracene	56-55-3	8.71	2.00	93
Chrysene	218-01-9	8.76	1.77	97
Benzo[b]fluoranthene	205-99-2	10.24	2.31	100
Benzo[k]fluoranthene	207-08-9	10.27	1.12	100
Benzo[a]pyrene	50-32-8	10.66	2.07	96
Indeno[1,2,3-cd]pyrene	193-39-5	12.04	1.58	100
Dibenzo[a,h]anthracene	53-70-3	12.07	0.26	92
Benzo[g,h,i]perylene	191-24-2	12.33	1.39	96
Total (USEPA16) PAHs	-	-	< 21.37	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	100
Phenanthrene-d10	101
Chrysene-d12	109
Perylene-d12	129

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	95
Terphenyl-d14	84

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polychlorinated Biphenyls (congeners)

Customer and Site Details: ESG Wokingham: Central Somers Town, London
Job Number: S16_0820
QC Batch Number: 160141A
Directory: 0205PCB.GC8
Method: Ultrasonic

Matrix: SOIL
Date Booked in: 03-Feb-16
Date Extracted: 05-Feb-16
Date Analysed: 10-Feb-16

* This sample data is not UKAS accredited.

		Concentration, (µg/kg)						
Sample ID	Customer ID	PCB28	PCB52	PCB101	PCB118	PCB153	PCB138	PCB180
* CL1603723	BH1A ES 4 0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603724	BH4 ES 8 1.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603725	BH5 ES 5 0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603726	BH6 ES 6 1.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603727	BH7 ES 1 0.30	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603728	WS3 ES 10 3.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603729	WS5 ES 2 1.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603730	WS8 ES 9 2.60	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603731	WS16 ES 2 0.30	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603732	WS26A ES 4 0.90	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603733	WS27 ES 3 1.00	<5.0	24.4	26.6	10.0	9.3	10.6	<5.0
* CL1603734	WS28 ES 3 1.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603735	WS29 ES 1 0.30	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603736	TP2 ES 1 0.30	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
* CL1603737	HP5 ES 3 1.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Total Petroleum Hydrocarbons (TPH) Carbon Ranges

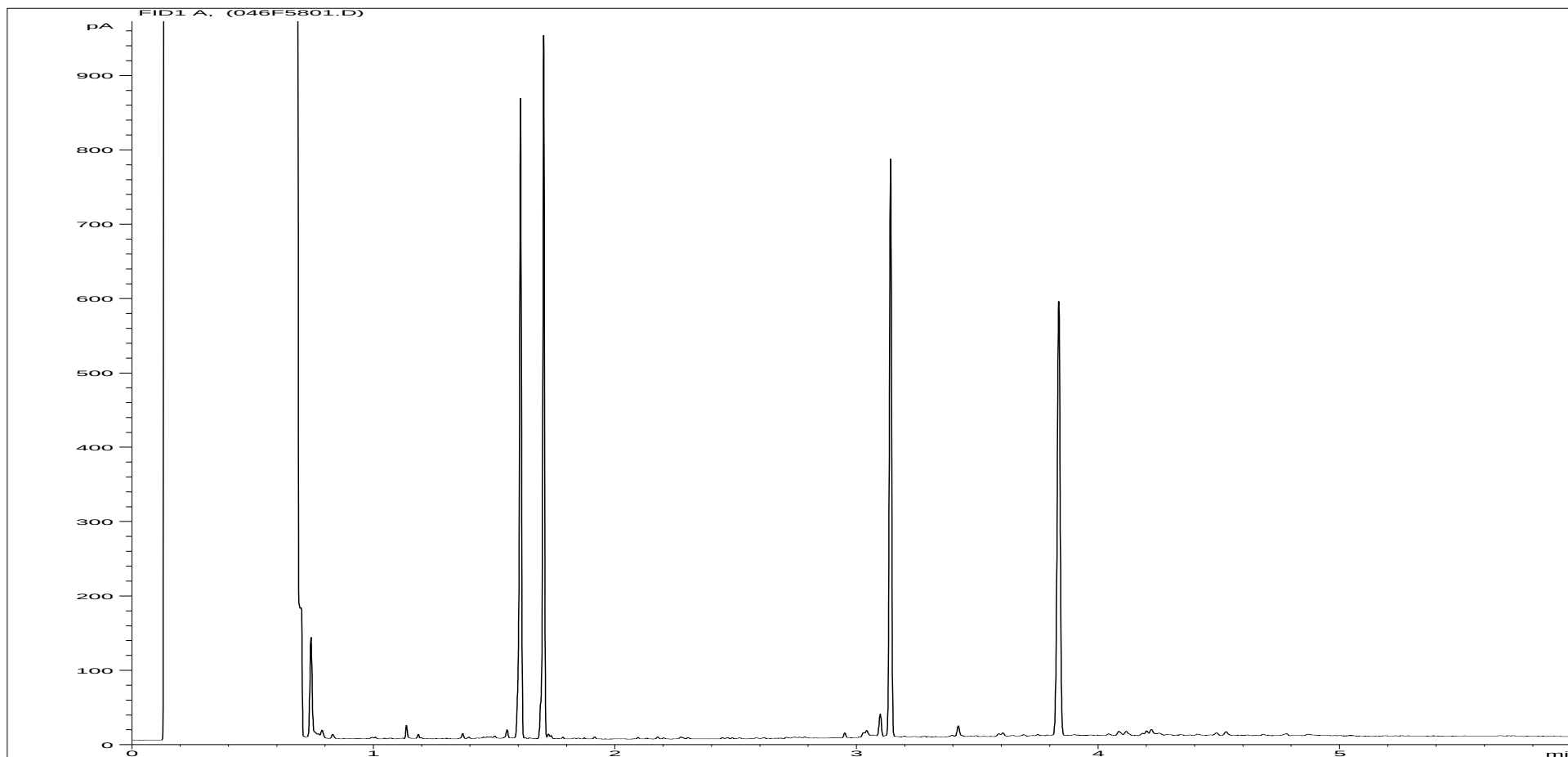
Customer and Site Details: ESG Wokingham : Central Somers Town, London
Job Number: S16_0820
QC Batch Number: 160141
Directory: D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\026F7201.D
Method: Ultra Sonic

Matrix: Soil
Date Booked in: 03-Feb-16
Date Extracted: 05-Feb-16
Date Analysed: 06-Feb-16, 02:57:57

* Sample data with an asterisk are not UKAS accredited.

Sample ID	Client ID	Concentration, (mg/kg) - as wet weight				
		>C8 - C10	>C10 - C12	>C12 - C16	>C16 - C21	>C21 - C35
CL1603723	BH1A ES 4 0.50	<2	<2	<2	4.88	43
CL1603724	BH4 ES 8 1.00	<2	<2	<2	3.2	16.5
CL1603725	BH5 ES 5 0.50	<2	<2	2.07	19.9	106
CL1603726	BH6 ES 6 1.00	<2	<2	<2	4.81	25.9
CL1603727	BH7 ES 1 0.30	<2	<2	2.64	19	91.7
CL1603728	WS3 ES 10 3.00	<2	<2	<2	2.96	16.9
CL1603729	WS5 ES 2 1.50	<2	<2	<2	6.83	42.1
CL1603730	WS8 ES 9 2.60	<2	2.19	4.74	39.5	142
CL1603731	WS16 ES 2 0.30	<2	8.54	5.8	85	1660
CL1603732	WS26A ES 4 0.90	<2	<2	<2	13.3	49.6
CL1603733	WS27 ES 3 1.00	<2	<2	<2	25.2	169
CL1603734	WS28 ES 3 1.00	<2	<2	7.72	91.3	306
CL1603735	WS29 ES 1 0.30	<2	<2	<2	8.65	37
CL1603736	TP2 ES 1 0.30	<2	<2	<2	13	67.4
CL1603737	HP5 ES 3 1.00	<2	<2	<2	21.8	79.7

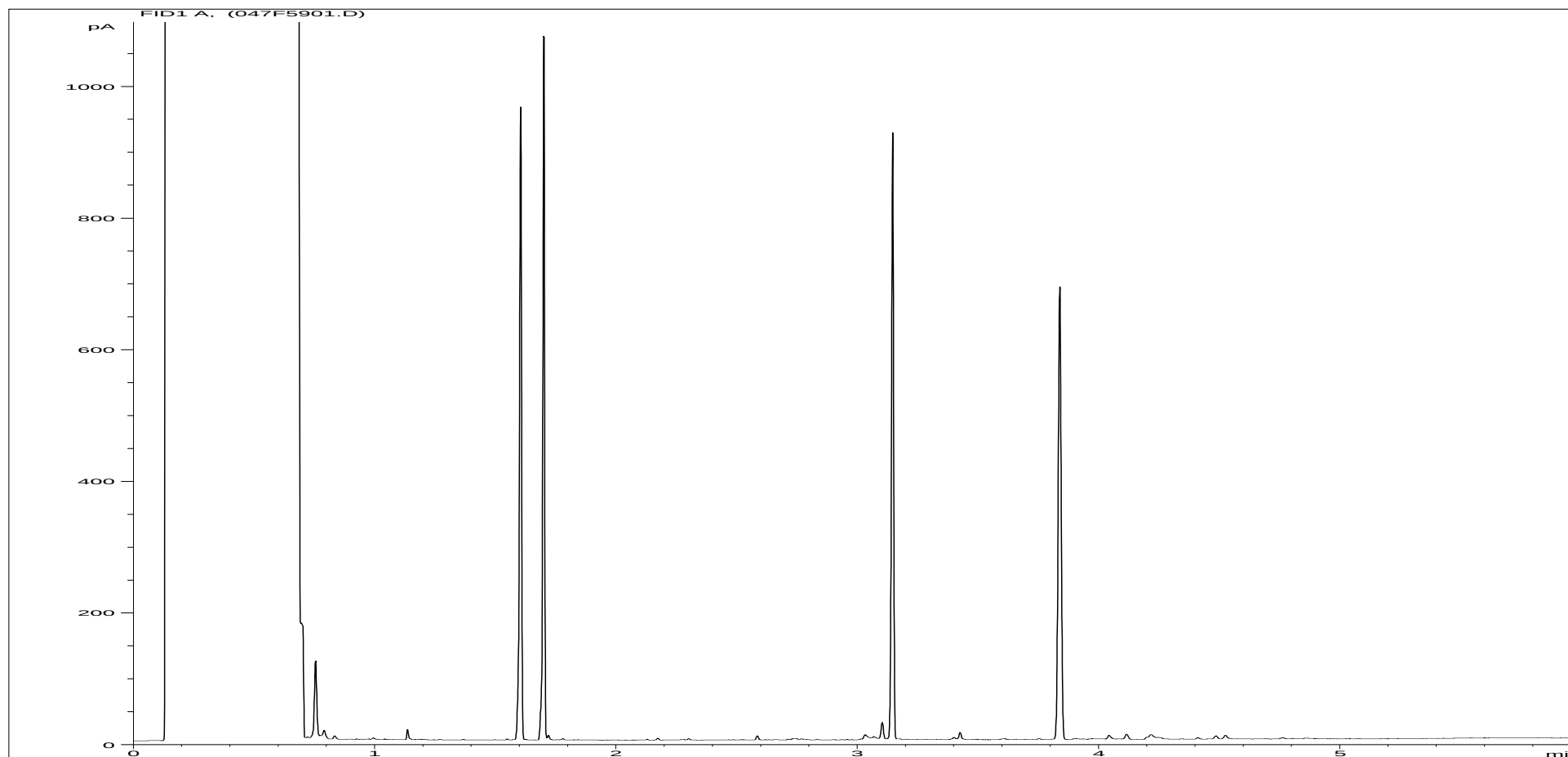
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603723	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	BH1A ES 4 0.50
Acquisition Date/Time:	05-Feb-16, 23:32:49		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\046F5801.D		

Where individual results are flagged see report notes for status.

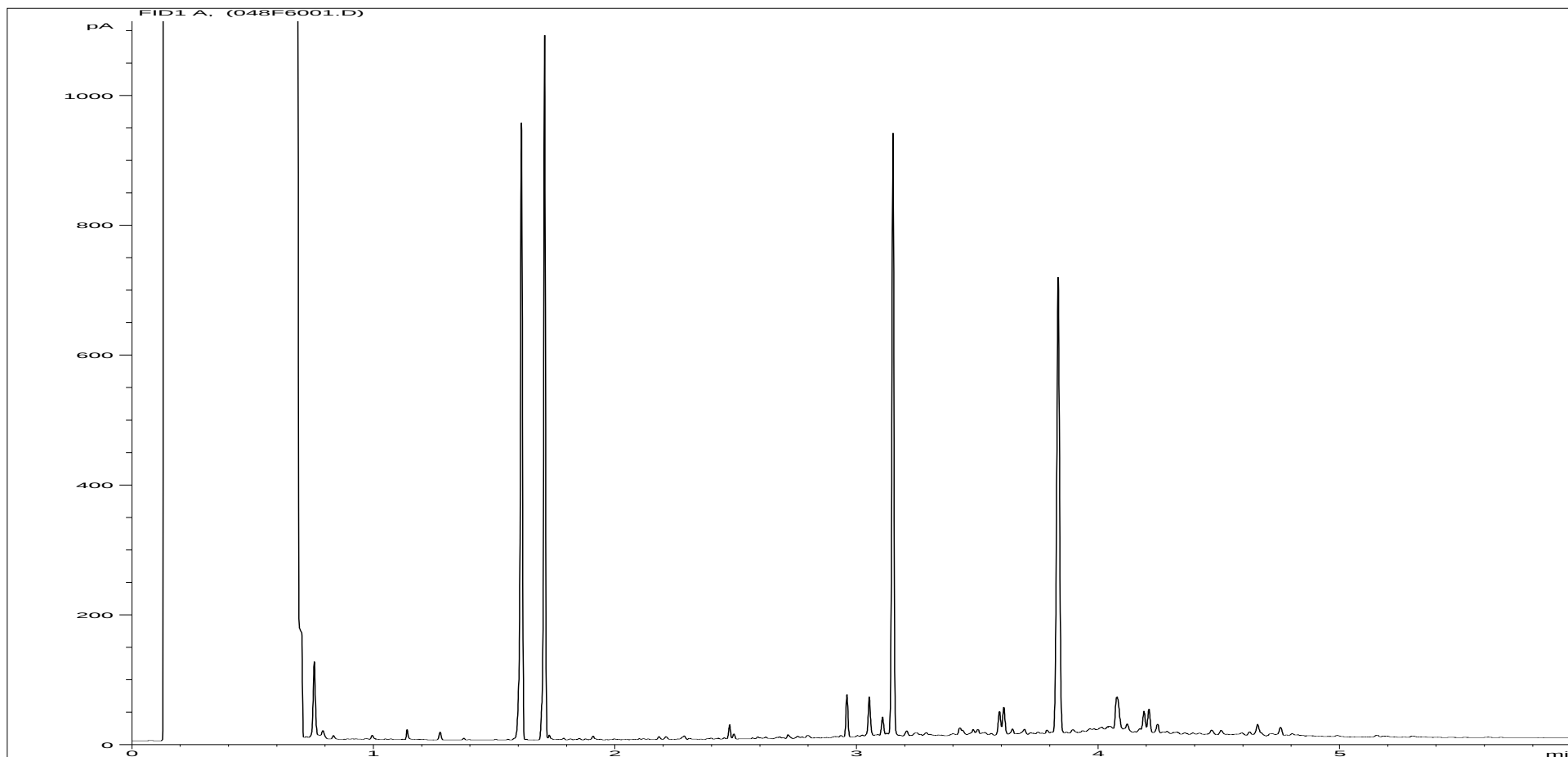
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603724	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	BH4 ES 8 1.00
Acquisition Date/Time:	05-Feb-16, 23:47:42		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\047F5901.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID

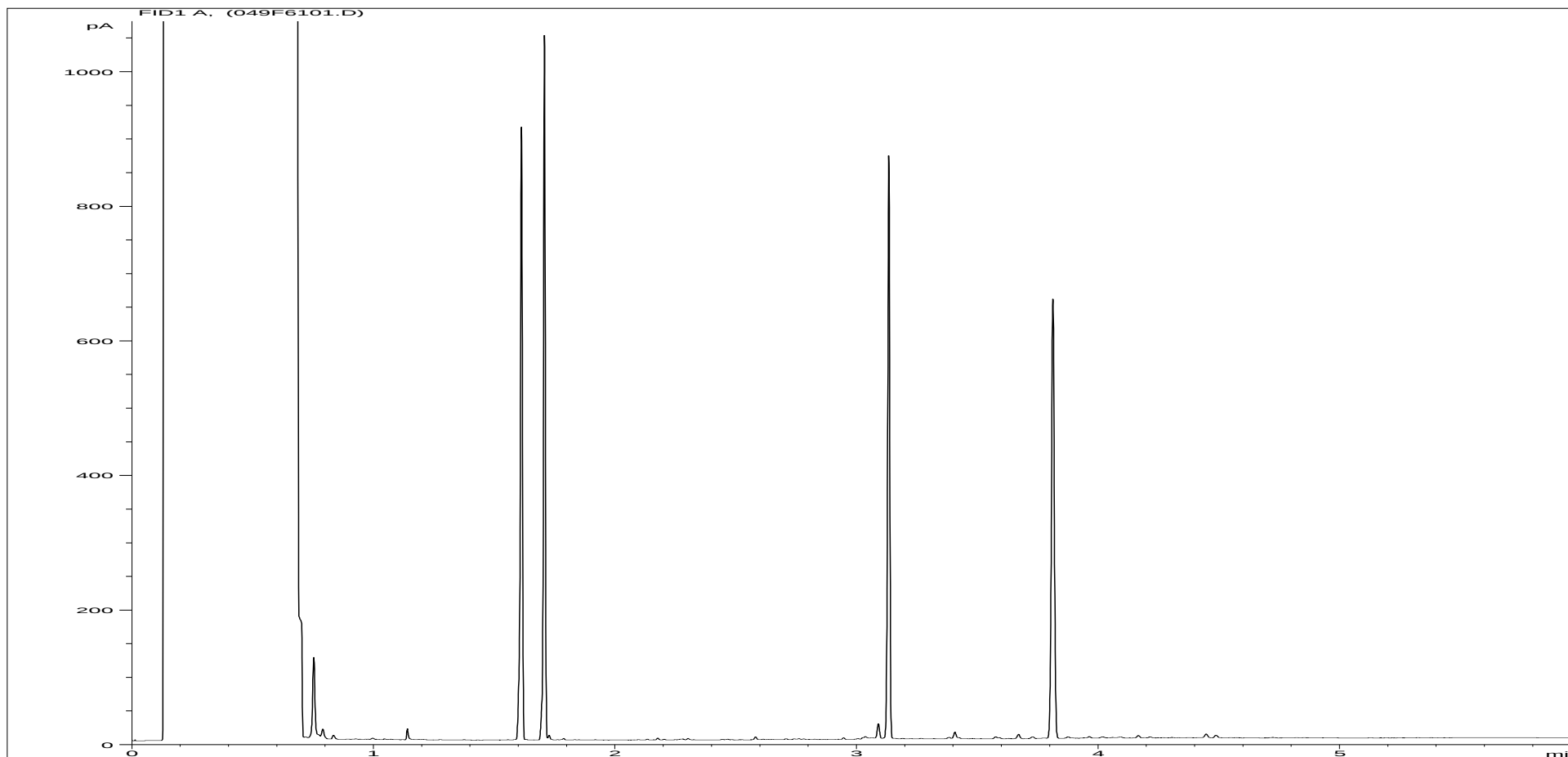


Sample ID: CL1603725
Multiplier: 8
Dilution: 1
Acquisition Method: 5UL_RUNFA.M
Acquisition Date/Time: 06-Feb-16, 00:02:35
Datafile: D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\048F6001.D

Job Number: S16_0820
Client: ESG Wokingham
Site: Central Somers Town, London
Client Sample Ref: BH5 ES 5 0.50

Where individual results are flagged see report notes for status.

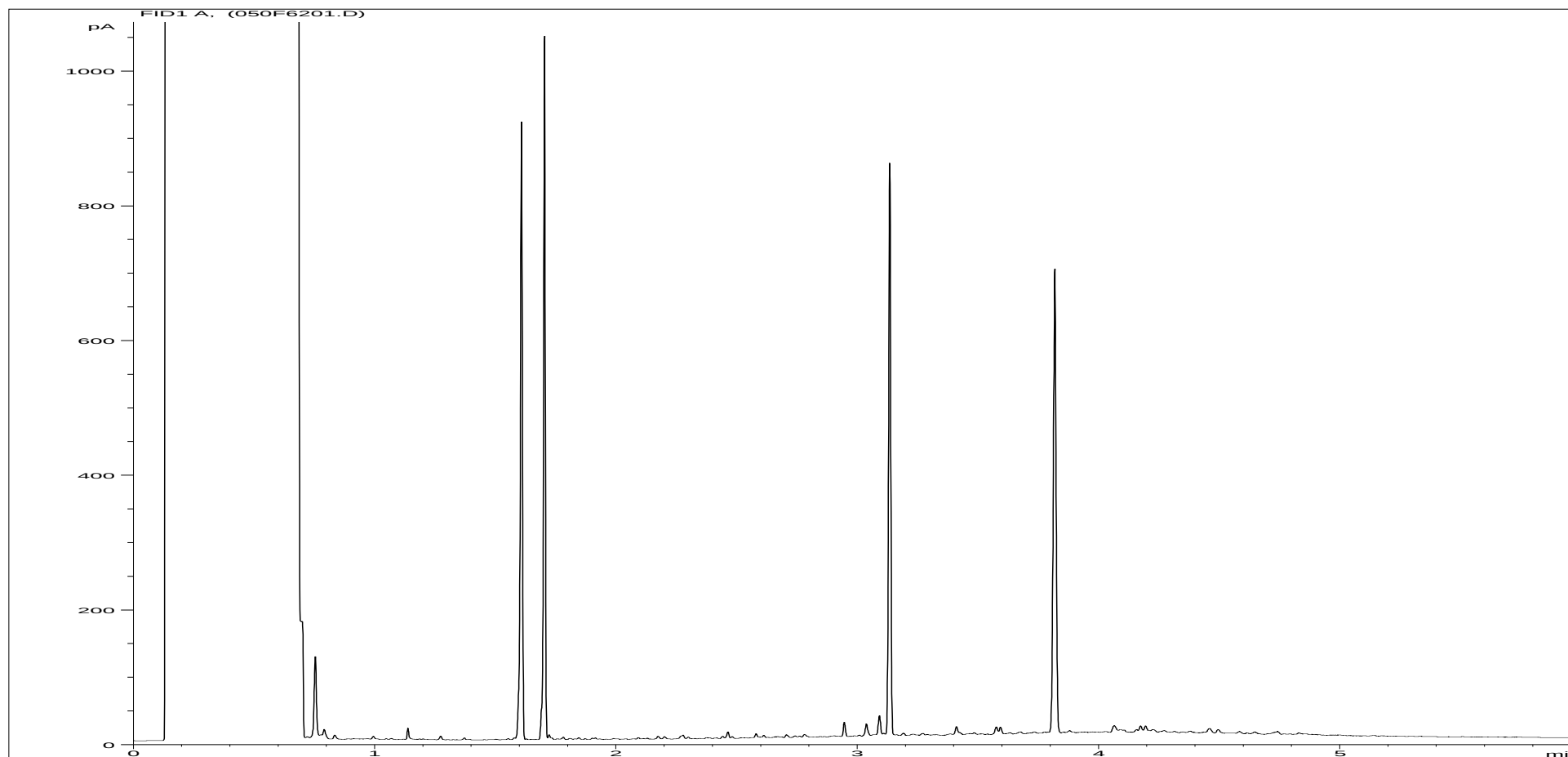
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603726	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	BH6 ES 6 1.00
Acquisition Date/Time:	06-Feb-16, 00:17:27		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\049F6101.D		

Where individual results are flagged see report notes for status.

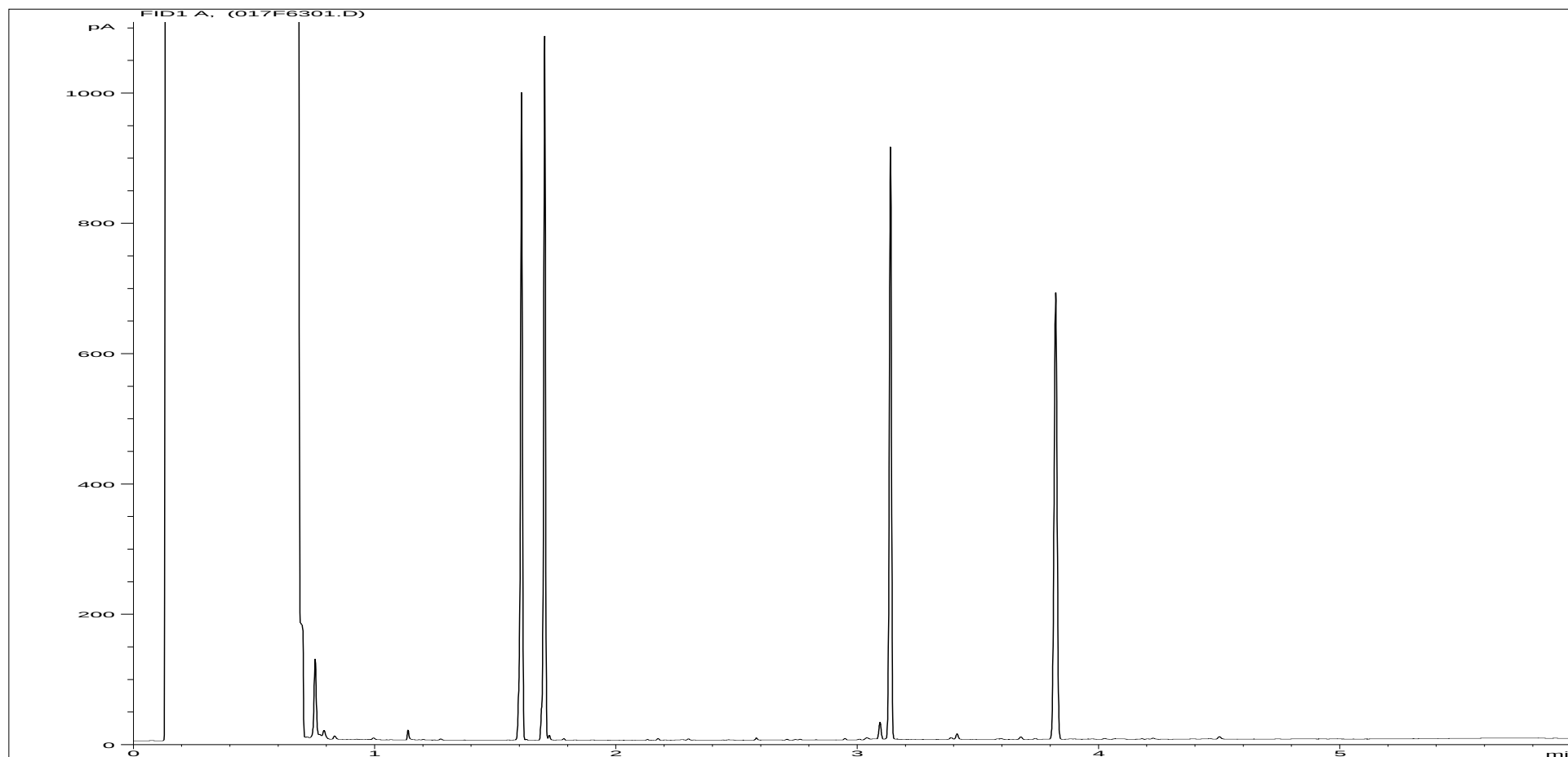
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603727	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	BH7 ES 1 0.30
Acquisition Date/Time:	06-Feb-16, 00:32:19		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\050F6201.D		

Where individual results are flagged see report notes for status.

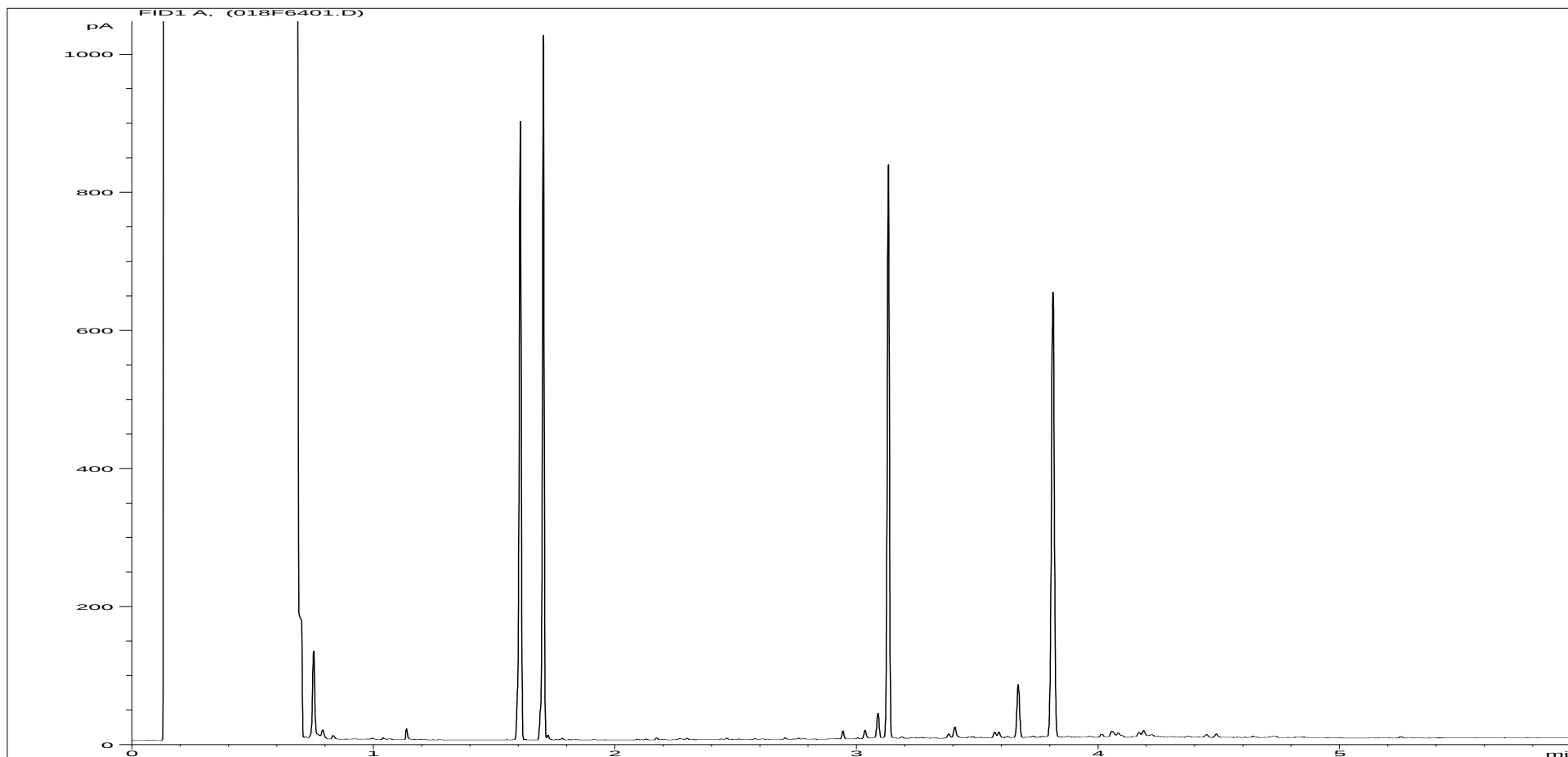
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603728	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	WS3 ES 10 3.00
Acquisition Date/Time:	06-Feb-16, 00:47:11		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\017F6301.D		

Where individual results are flagged see report notes for status.

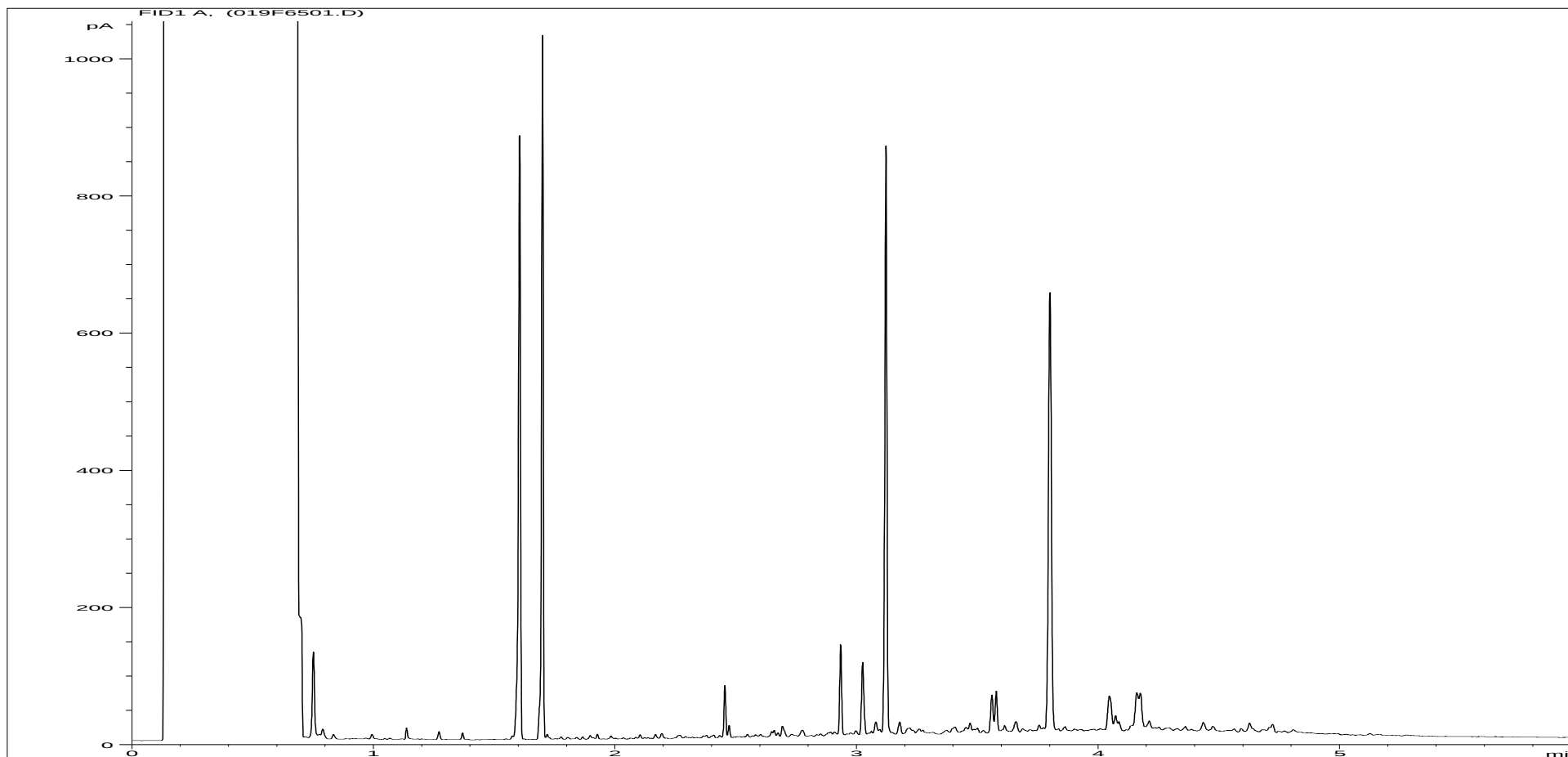
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603729	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	WS5 ES 2 1.50
Acquisition Date/Time:	06-Feb-16, 01:02:05		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\018F6401.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID

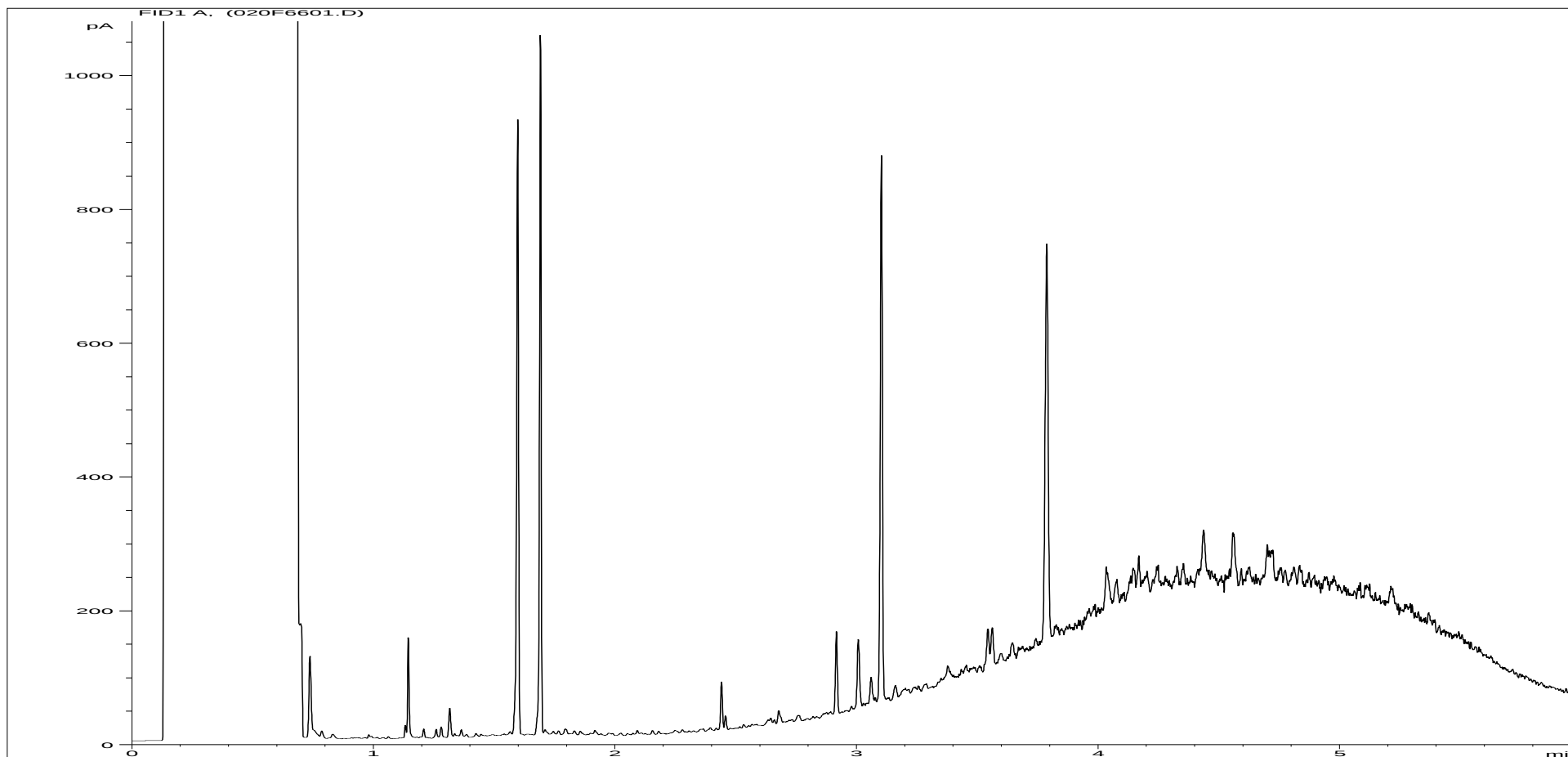


Sample ID: CL1603730
Multiplier: 8
Dilution: 1
Acquisition Method: 5UL_RUNFA.M
Acquisition Date/Time: 06-Feb-16, 01:16:34
Datafile: D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\019F6501.D

Job Number: S16_0820
Client: ESG Wokingham
Site: Central Somers Town, London
Client Sample Ref: WS8 ES 9 2.60

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID

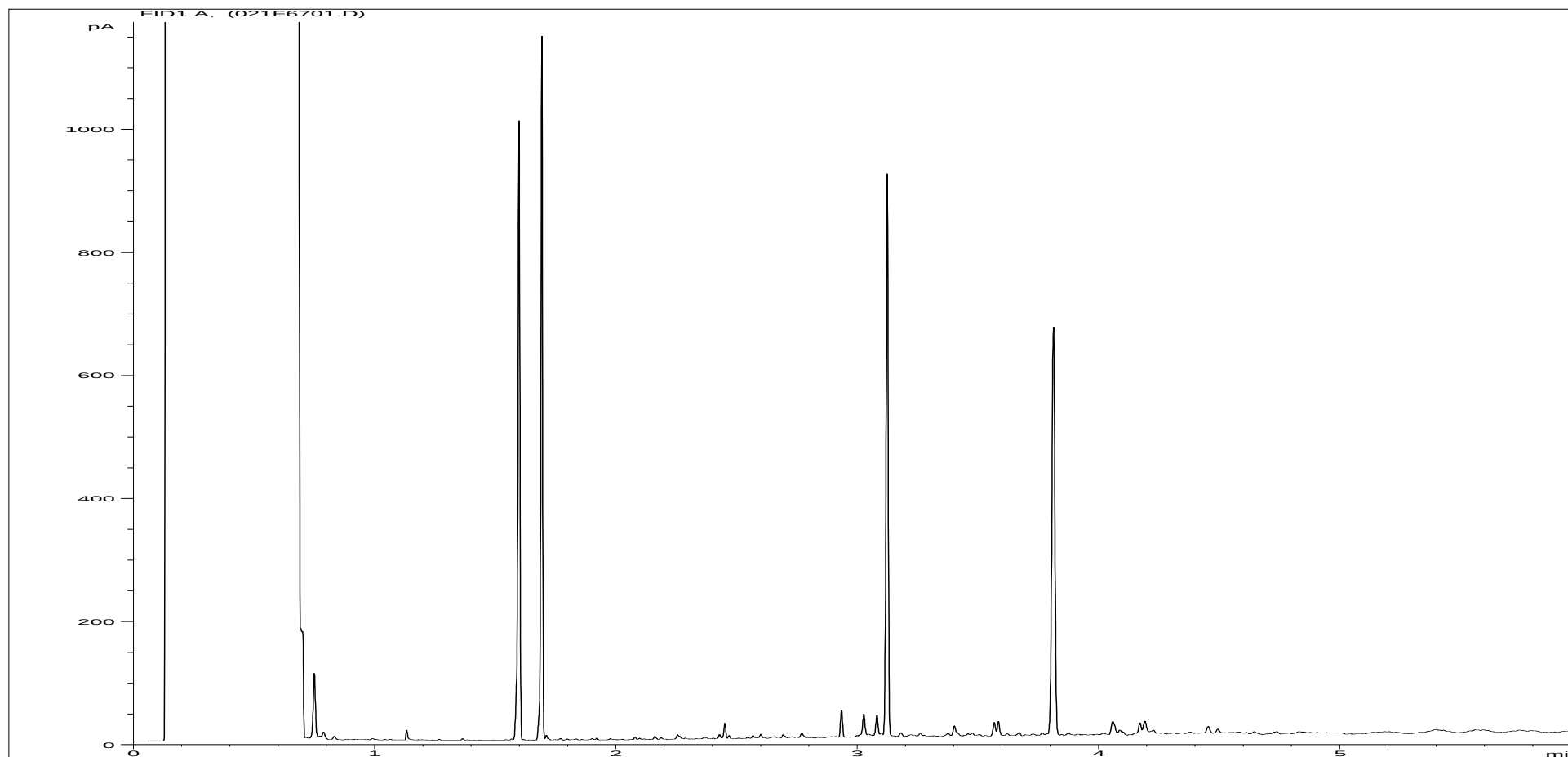


Sample ID: CL1603731
Multiplier: 8
Dilution: 1
Acquisition Method: 5UL_RUNFA.M
Acquisition Date/Time: 06-Feb-16, 01:31:03
Datafile: D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\020F6601.D

Job Number: S16_0820
Client: ESG Wokingham
Site: Central Somers Town, London
Client Sample Ref: WS16 ES 2 0.30

Where individual results are flagged see report notes for status.

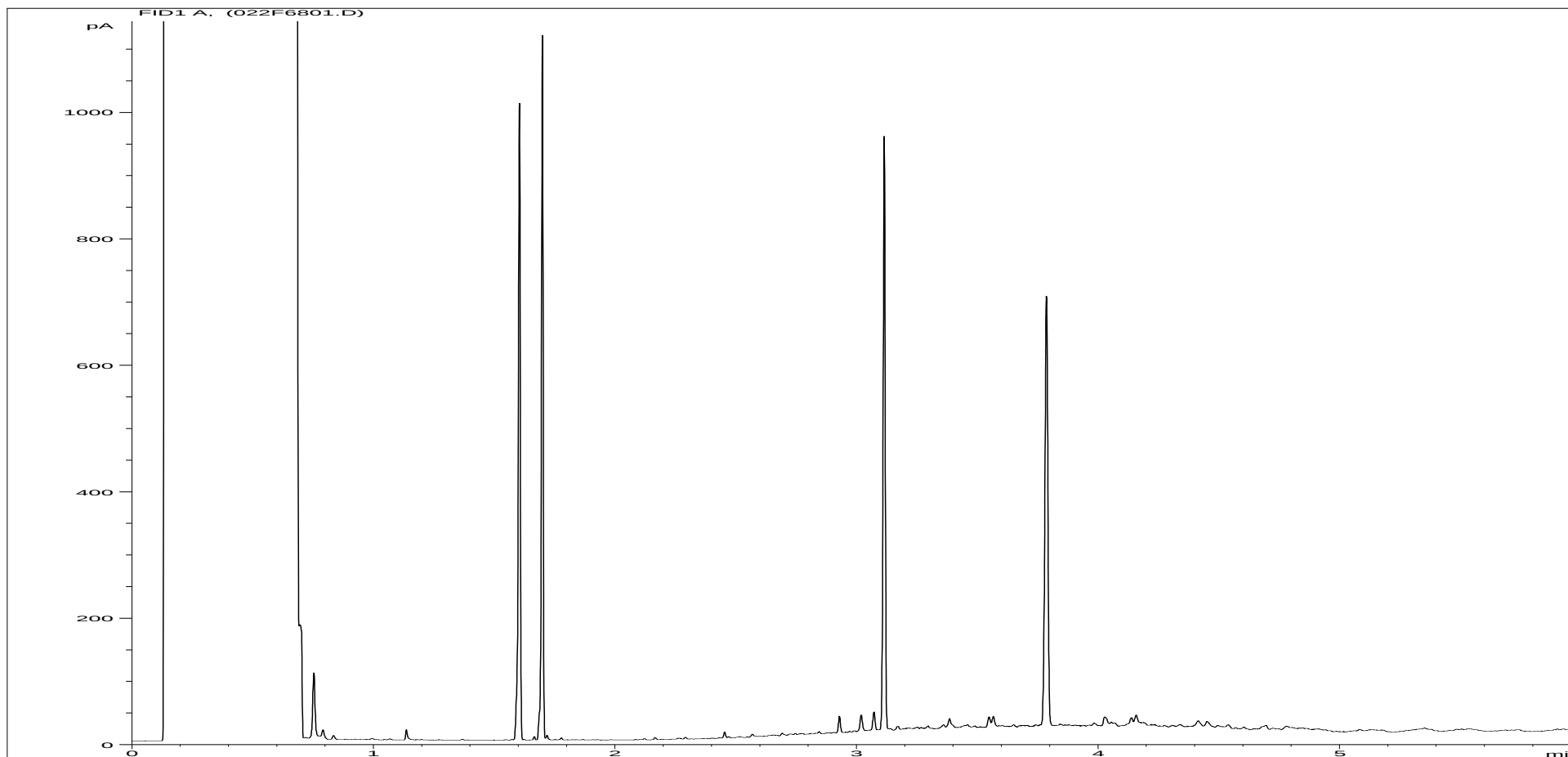
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603732	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	WS26A ES 4 0.90
Acquisition Date/Time:	06-Feb-16, 01:45:34		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\021F6701.D		

Where individual results are flagged see report notes for status.

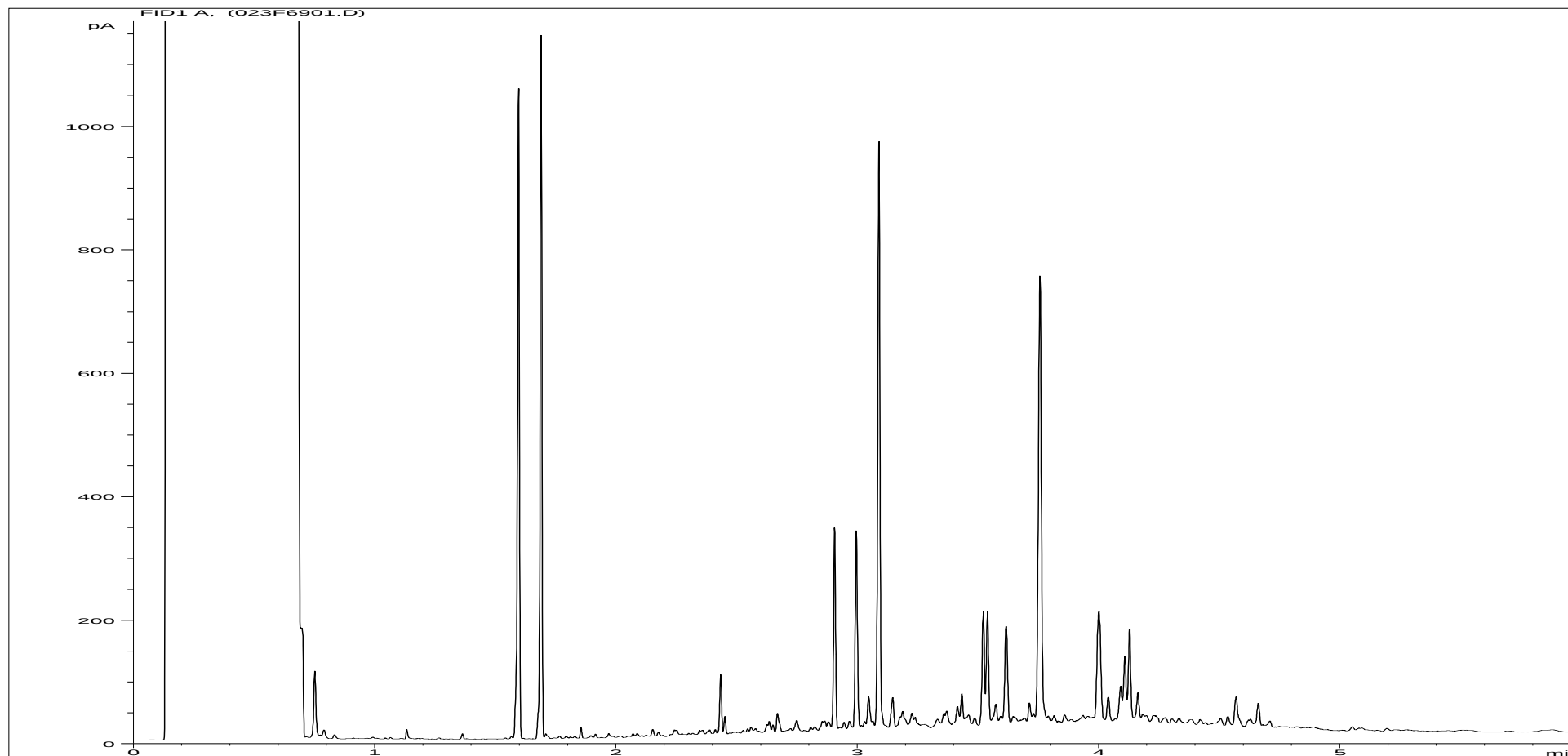
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603733	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	WS27 ES 3 1.00
Acquisition Date/Time:	06-Feb-16, 02:00:02		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\022F6801.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID

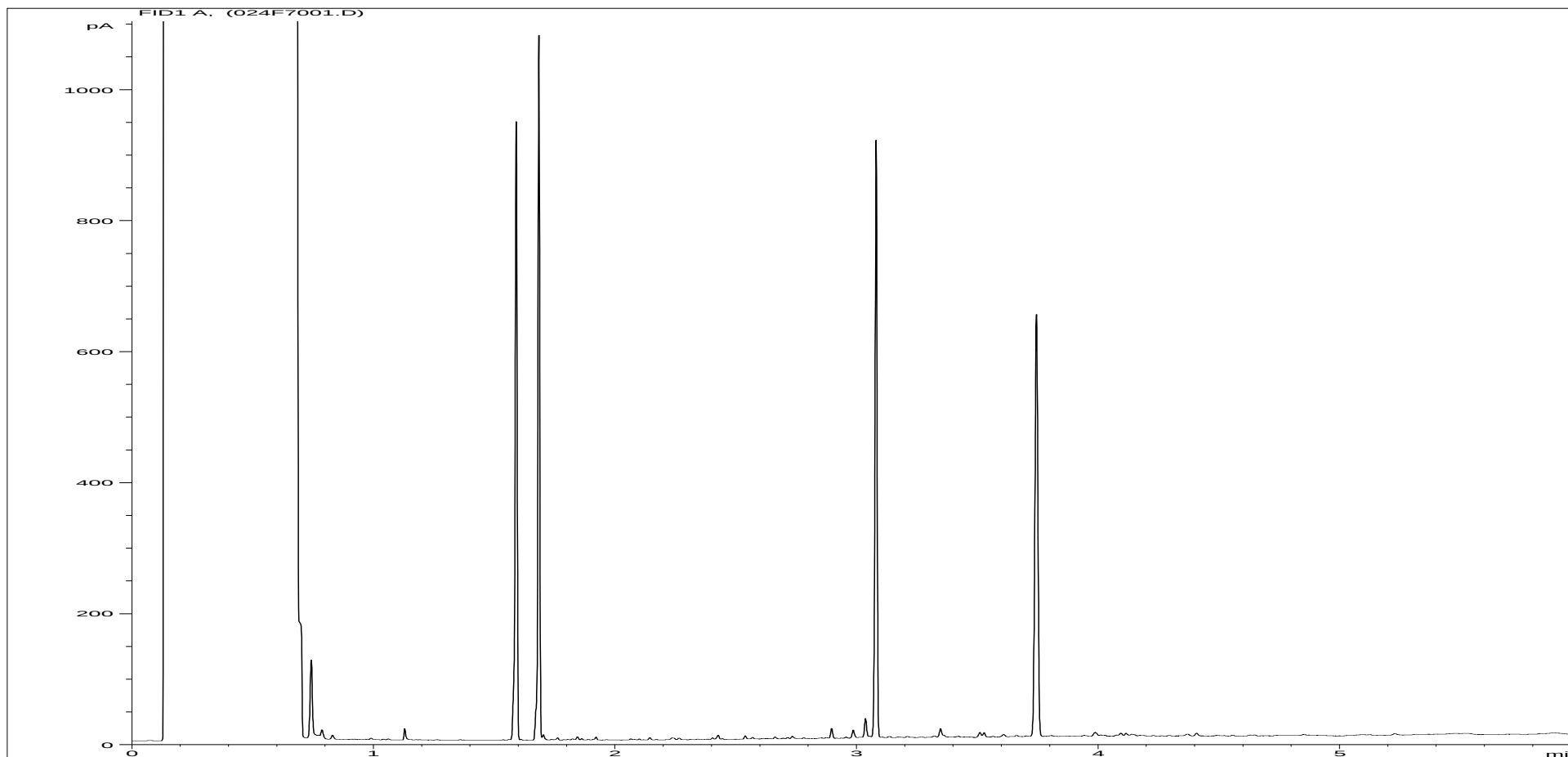


Sample ID: CL1603734
Multiplier: 8
Dilution: 1
Acquisition Method: 5UL_RUNFA.M
Acquisition Date/Time: 06-Feb-16, 02:14:30
Datafile: D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\023F6901.D

Job Number: S16_0820
Client: ESG Wokingham
Site: Central Somers Town, London
Client Sample Ref: WS28 ES 3 1.00

Where individual results are flagged see report notes for status.

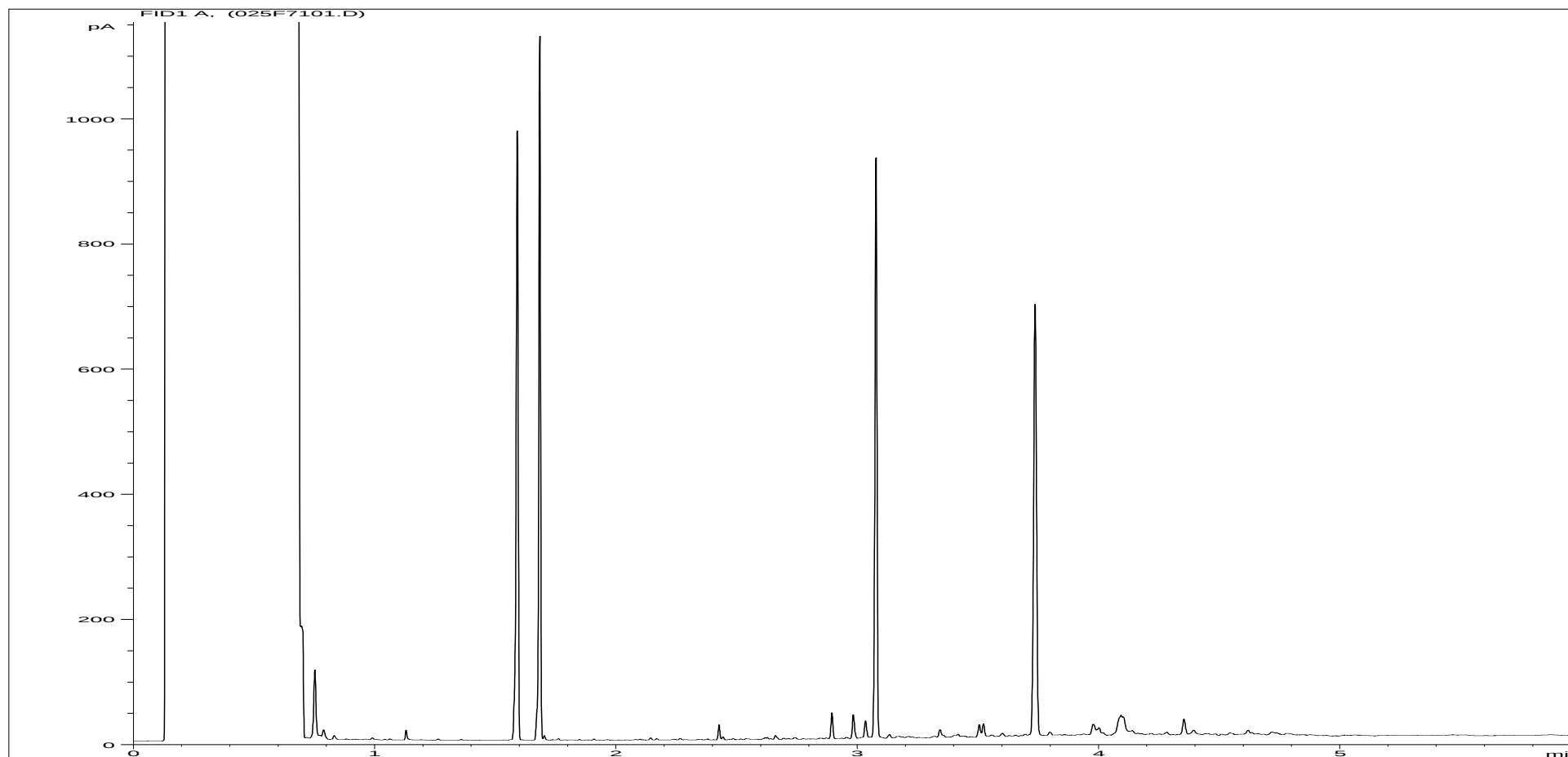
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603735	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	WS29 ES 1 0.30
Acquisition Date/Time:	06-Feb-16, 02:28:59		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\024F7001.D		

Where individual results are flagged see report notes for status.

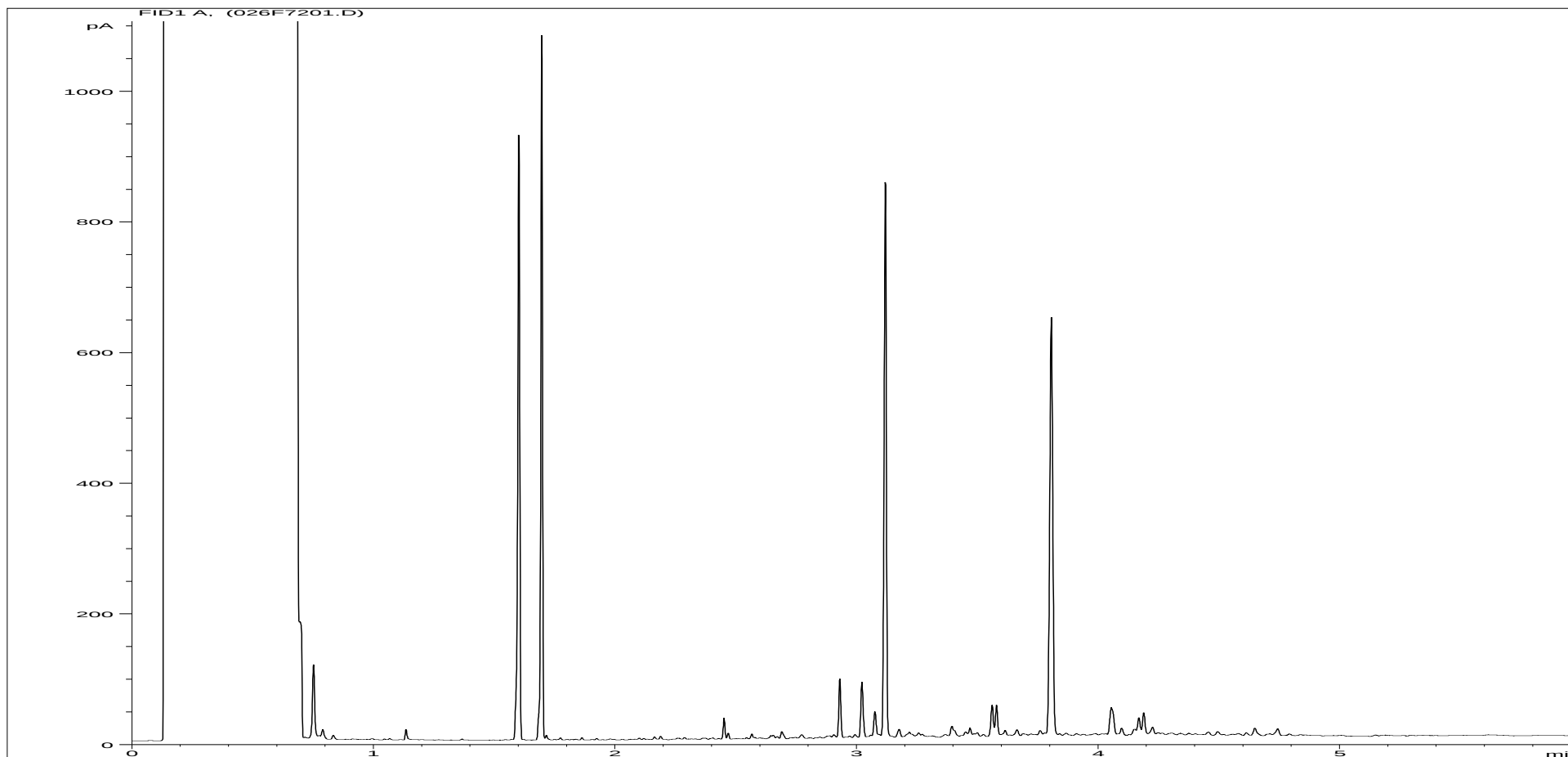
Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603736	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	TP2 ES 1 0.30
Acquisition Date/Time:	06-Feb-16, 02:43:29		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\025F7101.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID



Sample ID:	CL1603737	Job Number:	S16_0820
Multiplier:	8	Client:	ESG Wokingham
Dilution:	1	Site:	Central Somers Town, London
Acquisition Method:	5UL_RUNFA.M	Client Sample Ref:	HP5 ES 3 1.00
Acquisition Date/Time:	06-Feb-16, 02:57:57		
Datafile:	D:\TES\DATA\Y2016\020516TPH_GC3\020516 2016-02-05 09-10-55\026F7201.D		

Where individual results are flagged see report notes for status.

			ASBESTOS ANALYSIS RESULTS - SOIL ANALYSIS							Detection limit of Method SCI-ASB-020 is 0.001%	
			ESG Asbestos Limited Certificate of Analysis for Asbestos in Soils							Sampling has been carried out by a third party	
Client:			ESG Environmental Chemistry						Page 1 of 1		
Address:			Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent						Report No: ANO-0488-11904		
For the attention of:			ESG Wokingham						Report Date: 05/02/2016		
Site Address:			Central Somers Town, London						Project Number: S160820		
Sample Number	Sample Date	Sample Location	Test Date	Total Sample Dry Weight (g)	Weight of <2mm Fraction (g)	Asbestos(g) in >8mm+>2mm	Asbestos(g) in <2mm	% Asbestos by weight of Total Dried Sample	Asbestos Fibre Types Identified		
CL/1603723		BH1A 0.50	05/02/2016					Screen Only	NAIIS		
CL/1603724		BH4 1.00	05/02/2016					Screen Only	NAIIS		
CL/1603725		BH5 0.50	05/02/2016					Screen Only	NAIIS		
CL/1603726		BH6 1.00	05/02/2016					Screen Only	NAIIS		
CL/1603727		BH7 0.30	05/02/2016					Screen Only	NAIIS		
CL/1603728		WS3 3.00	05/02/2016					Screen Only	NAIIS		
CL/1603729		WS5 1.50	05/02/2016					Screen Only	NAIIS		
CL/1603730		WS8 2.60	05/02/2016					Screen Only	NAIIS		
CL/1603731		WS16 0.30	05/02/2016					Screen Only	NAIIS		
CL/1603732		WS26A 0.90	05/02/2016					Screen Only	NAIIS		
CL/1603733		WS27 1.00	05/02/2016					Screen Only	NAIIS		
CL/1603734		WS28 1.00	05/02/2016					Screen Only	NAIIS		
CL/1603735		WS29 0.30	05/02/2016					Screen & ID	Amosite(Free Fibres)		
CL/1603736		TP2 0.30	05/02/2016					Screen & ID	Chrysotile(Free Fibres)		
CL/1603737		HP5 1.00	05/02/2016					Screen & ID	Amosite,Chrysotile(Free Fibres)		
Keys		NAACR = Not Analysed at Clients Request			NAIIS = No Asbestos Identified in Sample (Screens Only)			Name: Stacey Innes		Authorised Signatory:	
		* visible to naked eye			NADIS = No Asbestos Detected in Sample (ID & Quant Only)			Position: Lab Analyst			
The sample analysis for the above results was carried out using the procedures detailed in ESG Asbestos Limited in house method (SCI-ASB-020) based on HSE document MDHS 90 - Asbestos Contaminated Land - Draft 5 - November 1997 (withdrawn). Fibre identification was carried out using ESG Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of fine fraction for asbestos content only includes fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at ESG Asbestos Laboratory, Ashbourne House, Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire. DE15 0XD, UKAS Laboratory Number 1089.											

			ASBESTOS ANALYSIS RESULTS - SOIL ANALYSIS							Detection limit of Method SCI-ASB-020 is 0.001%	
			ESG Asbestos Limited Certificate of Analysis for Asbestos in Soils							Sampling has been carried out by a third party	
Client:			ESG Environmental Chemistry						Page 1 of 1		
Address:			Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent						Report No: ANO-0503-11980		
For the attention of:			ESG Wokingham						Report Date: 19/02/2016		
Site Address:			Central Somers Town, London						Project Number: S160820		
Sample Number	Sample Date	Sample Location	Test Date	Total Sample Dry Weight (g)	Weight of <2mm Fraction (g)	Asbestos(g) in >8mm+>2mm	Asbestos(g) in <2mm	% Asbestos by weight of Total Dried Sample	Asbestos Fibre Types Identified		
CL/1603735		WS29 0.30	18/02/2016	402	217	0.0001	0.0187	0.005	Chrysotile(Free Fibres) Amphiboles in Fines		
CL/1603736		TP2 0.30	18/02/2016	812	724	0.0000	0.0000		NADIS		
CL/1603737		HP5 1.00	18/02/2016	519	348	0.1483	0.0940	0.047	Chrysotile(Insulating Board) Amphiboles in Fines		
Keys	NAACR = Not Analysed at Clients Request				NAIIS = No Asbestos Identified in Sample (Screens Only)			Name:	Tom Pratt	Authorised Signatory:	
	* visible to naked eye				NADIS = No Asbestos Detected in Sample (ID & Quant Only)			Position:	Lab Technician		
The sample analysis for the above results was carried out using the procedures detailed in ESG Asbestos Limited in house method (SCI-ASB-020) based on HSE document MDHS 90 - Asbestos Contaminated Land - Draft 5 - November 1997 (withdrawn). Fibre identification was carried out using ESG Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of fine fraction for asbestos content only includes fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at ESG Asbestos Laboratory, Ashbourne House, Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire. DE15 0XD, UKAS Laboratory Number 1089.											

Customer ESG Wokingham
Site Central Somers Town, London
Report No S160820

Consignment No S52293

Date Logged 03-Feb-2016

Report Due 19-Feb-2016

W/SLM59	Total Organic Carbon																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
---------	----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

- A The sample was received in an inappropriate container for this analysis
- B The sample was received without the correct preservation for this analysis
- C Headspace present in the sample container
- D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
- E Sample processing did not commence within the appropriate holding time
- F Sample processing did not commence within the appropriate handling time

Requested Analysis Key

- Analysis Required
- Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
- No analysis scheduled
- Analysis Subcontracted - **Note: due date may vary**

Where individual results are flagged see report notes for status.

Customer

ESG Wokingham

Site

Central Somers Town, London

Report No

S160820

Consignment No S52293

Date Logged 03-Feb-2016

Report Due 19-Feb-2016

ID Number	Description	MethodID	WSL M59
		Sampled	Total Organic Carbon
Test Method Accredited to ISO17025			
CL/1603723	BH1A 0.50		
CL/1603724	BH4 1.00		
CL/1603725	BH5 0.50		
CL/1603726	BH6 1.00		
CL/1603727	BH7 0.30		
CL/1603728	WS3 3.00		
CL/1603729	WS5 1.50		
CL/1603730	WS8 2.60		
CL/1603731	WS16 0.30		
CL/1603732	WS26A 0.90		
CL/1603733	WS27 1.00		
CL/1603734	WS28 1.00		
CL/1603735	WS29 0.30		
CL/1603736	TP2 0.30		
CL/1603737	HP5 1.00		

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

AThe sample was received in an inappropriate container for this analysis

BThe sample was received without the correct preservation for this analysis

CHeadspace present in the sample container

DThe sampling date was not supplied so holding time may be compromised - applicable to all analysis

E Sample processing did not commence within the appropriate holding time

F Sample processing did not commence within the appropriate handling time

Requested Analysis Key

Analysis Required

Analysis dependant upon trigger result - **Note: due date may be affected if triggered**

No analysis scheduled

^

Analysis Subcontracted - **Note: due date may vary**

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	FOCS	Oven Dried @ < 35°C	Calculation of Soil Organic Matter content from Organic Carbon content of soil samples
Soil	ICPMSS	Oven Dried @ < 35°C	Determination of Metals in soil samples by aqua regia digestion followed by ICPMS
Soil	ICPSOIL	Oven Dried @ < 35°C	Determination of Metals in soil samples by aqua regia digestion followed by ICPOES detection
Soil	KONECR	Oven Dried @ < 35°C	Determination of Chromium vi in soil samples by water extraction followed by colorimetric detection
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PCBUSECDAR	As Received	Determination of Polychlorinated Biphenyl (PCB) congeners/arocloris by hexane/acetone extraction followed by GCECD detection
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Soil	SubCon*	*	Contact Laboratory for details of the methodology used by the sub-contractor.
Soil	TPHFIDUS	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection.
Soil	WSLM59	Oven Dried @ < 35°C	Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection

Where individual results are flagged see report notes for status.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : ESG Wokingham
Site : Central Somers Town, London
Report Number : S16_0820

Note: major constituent in upper case

[illegible]

APPENDIX G PHOTOGRAPHS

Trial Pit Photographs

TP4, TP5 and HP3



TP4 0.00m - 2.20m



TP4 0.00m - 2.20m

Notes:	<table><tr><td>Project</td><td>Central Somers Town, London</td></tr><tr><td>Project No.</td><td>D5061-15</td></tr><tr><td>Carried out for</td><td>London Borough of Camden</td></tr></table>	Project	Central Somers Town, London	Project No.	D5061-15	Carried out for	London Borough of Camden	<table><tr><td>Figure</td></tr><tr><td>TP4</td></tr></table>	Figure	TP4
Project	Central Somers Town, London									
Project No.	D5061-15									
Carried out for	London Borough of Camden									
Figure										
TP4										



TP5 0.00m - 1.80m



TP5 0.00m - 1.80m

Notes:	Project Central Somers Town, London Project No. D5061-15 Carried out for London Borough of Camden	Figure TP4
--------	---	----------------------------------



HP3 0.00m - 1.20m



HP3 0.00m - 1.20m

Notes:	<table><tr><td>Project</td><td>Central Somers Town, London</td></tr><tr><td>Project No.</td><td>D5061-15</td></tr><tr><td>Carried out for</td><td>London Borough of Camden</td></tr></table>	Project	Central Somers Town, London	Project No.	D5061-15	Carried out for	London Borough of Camden	<table><tr><td>Figure</td></tr><tr><td>HP3</td></tr></table>	Figure	HP3
Project	Central Somers Town, London									
Project No.	D5061-15									
Carried out for	London Borough of Camden									
Figure										
HP3										