

## APPENDIX

Borehole Records

SPT Results

SPT/Depth Graph

Laboratory Test Results

: Triaxial Results

: Plasticity Index

: pH and Sulphate Content

: Chemical Analyses (Soil)

Envirocheck Summary

Historical Maps

Site Plan

Boring Method Cable Percussion	Diameter 150mm cased to 2.00m	Ground Level (mOD)	Client Central European Commodities	Job Number J04105
	Location	Dates 21/06/2004-23/06/2004	Engineer Mason Navarro Partnership	Sheet 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	CPT N=5 B1	1.00	dry	3,2/,2,3		0.30	Concrete Floor		
1.00-1.45						0.30	Made Ground (loose brick rubble)		
						0.30	Made Ground (concrete)		
						0.60	Void		
						0.85	Made Ground (clayey sandy brick rubble and ash)		
2.00-2.45	CPT N=13 B2	2.00	dry	1,2/3,6,2,2		0.95			
2.00-2.45						(2.95)			
3.00-3.45	CPT N=9 B3	2.00	dry	2,6/4,2,1,2					
3.00-3.45									
3.90-4.20	B4					3.90	Made Ground (weak concrete with high ash content)		
4.20	D5					4.20	Stiff brown fissured CLAY with blue grey veining and occasional selenite crystals from 7.0 m		
4.50-4.95	U6			50 blows					
4.95	D7								
5.50	D8								
6.00-6.45	SPT N=23 D9	4.40	dry	2,3/5,5,6,7					
6.00									
7.00	D10								
7.50-7.95	U11			60 blows					
7.95	D12								
8.50	D13								
9.00-9.45	SPT N=24 D14	4.40	dry	2,4/5,6,6,7					
9.00									

<b>Remarks</b> Ground water not encountered. Breaking out slab and digging services inspection pit from ground level to 1.0 m for 3 hours. Chiselling on concrete from 3.9 m to 4.05 m for 1 hour.	Scale (approx)	Logged By
	1:50	CMB
	Figure No. J04105.BH1	



Geotechnical & Environmental Associates

The Hertfordshire Business Centre  
Alexander Road  
London Colney  
Herts, AL2 1JG

Site  
139-143 York Way, London, N7

Borehole Number  
**BH1**

Boring Method Cable Percussion	Diameter 150mm cased to 2.00m	Ground Level (mOD)	Client Central European Commodities	Job Number J04105
	Location	Dates 21/06/2004- 23/06/2004	Engineer Mason Navarro Partnership	Sheet 2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00	D15					(8.60)			
10.50-10.95	U16			55 blows					
10.95	D17								
11.50	D18								
12.00-12.45 12.00	SPT N=29 D19	4.40	dry	4,6/6,7,8,8					
12.80	D20					12.80	Very stiff grey occasionally silty fissured CLAY		
13.50-13.95	U21			60 blows					
13.95	D22								
14.50	D23								
15.00-15.45 15.00	SPT N=30 D24	4.40	dry	4,6/6,7,8,9					
16.00	D25								
16.50-16.95	U26			60 blows					
16.95	D27								
17.50	D28								
18.00-18.45 18.00	SPT N=31 D29	4.40	dry	4,6/6,7,9,9					
19.00	D30								
19.50-19.95	U31			60 blows					

Remarks	Scale (approx)	Logged By
	1:50	CMB
	Figure No. J04105.BH1	



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Site  
139-143 York Way, London, N7

Borehole  
Number  
**BH1**

Boring Method Cable Percussion	Diameter 150mm cased to 2.00m	Ground Level (mOD)	Client Central European Commodities	Job Number J04105
	Location	Dates 21/06/2004- 23/06/2004	Engineer Mason Navarro Partnership	Sheet 3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
19.95	D32					(12.20)			
20.50	D33								
21.00-21.45 21.00	SPT N=38 D34	4.40	dry	4,6/7,10,10,11					
22.00	D35								
22.50-22.95	U36			80 blows					
22.95	D37								
23.50	D38								
24.00-24.45 24.00	SPT N=40 D39	4.40	dry	4,6/8,9,11,12					
25.00	D40					25.00	Complete at 25.00m		

Remarks	Scale (approx)	Logged By
	1:50	CMB
Figure No. J04105.BH1		

**Standard Penetration Test Results**

Site : 139-143 York Way, London, N7

Client : Central European Commodities

Engineer: Mason Navarro Partnership

Job Number

J04105

Sheet

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Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH1	1.00	1.15	1.45	CPT	3	2	0	0	2	3	N=5	
BH1	2.00	2.15	2.45	CPT	1	2	3	6	2	2	N=13	
BH1	3.00	3.15	3.45	CPT	2	6	4	2	1	2	N=9	
BH1	6.00	6.15	6.45	SPT	2	3	5	5	6	7	N=23	
BH1	9.00	9.15	9.45	SPT	2	4	5	6	6	7	N=24	
BH1	12.00	12.15	12.45	SPT	4	6	6	7	8	8	N=29	
BH1	15.00	15.15	15.45	SPT	4	6	6	7	8	9	N=30	
BH1	18.00	18.15	18.45	SPT	4	6	6	7	9	9	N=31	
BH1	21.00	21.15	21.45	SPT	4	6	7	10	10	11	N=38	
BH1	24.00	24.15	24.45	SPT	4	6	8	9	11	12	N=40	

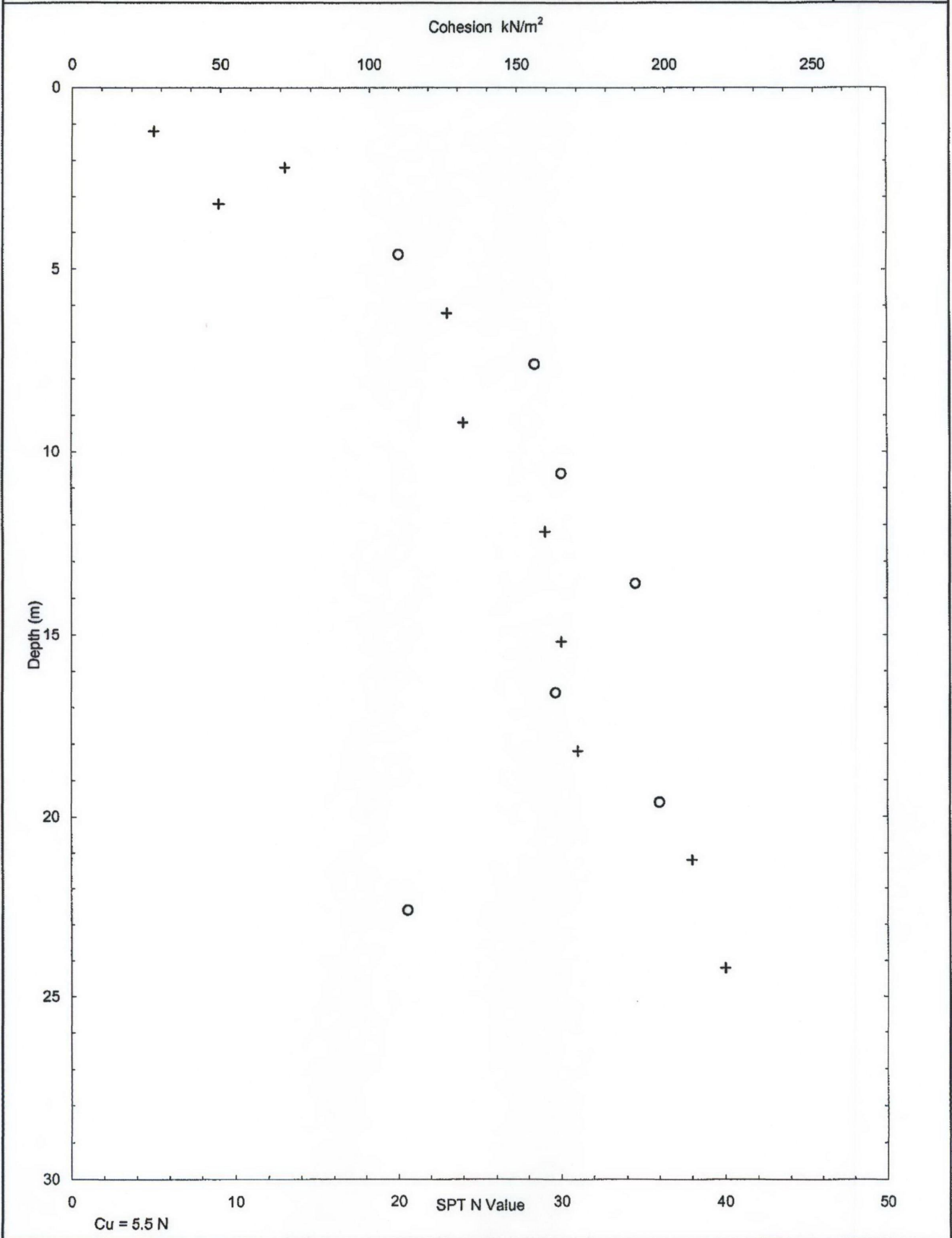
Site : 139-143 York Way, London, N7

Client : Central European Commodities

Engineer : Mason Navarro Partnership

Job Number  
J04105

Sheet  
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Site : 139-143 York Way, London, N7

Client : Central European Commodities

Engineer: Mason Navarro Partnership

Job Number

J04105

Sheet

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**DETERMINATION OF DENSITY, MOISTURE CONTENT AND UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE**

Borehole/ Trial Pit	Depth (m)	Sample	Moisture Content %	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kN/m <sup>2</sup> )	Deviator Stress (kN/m <sup>2</sup> )	Apparent Cohesion (kN/m <sup>2</sup> )	Angle of Shearing Resistance (degrees)	Description
BH1	7.50	U11	28	2.00	1.56	150	313	156.0		Brown fissured CLAY with blue grey veining
BH1	10.50	U16	26	2.00	1.59	210	329	165.0		Brown fissured CLAY with blue grey veining
BH1	13.50	U21	25	2.00	1.59	270	381	190.0		Grey fissured CLAY
BH1	16.50	U26	28	2.00	1.56	330	327	163.0		Grey fissured CLAY
BH1	19.50	U31	26	2.02	1.61	390	397	198.0		Grey fissured CLAY
BH1	22.50	U36	26	2.01	1.59	450	226	113.0		Grey fissured CLAY

Method of Preparation : BS 1377:PART 1:1990:7.4.2 Moisture content 1990: Preparation of undisturbed samples for testing BS 1377:PART 2:1990:7.2

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:7 Determination of density BS 1377:PART 7:1990:8 Undrained shear strength 1990:9 Multistage loading

Remarks :



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**Laboratory Test Results**

Site : 139-143 York Way, London, N7

Client : Central European Commodities

Engineer: Mason Navarro Partnership

Job Number

J04105

Sheet

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**DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT  
AND DERIVATION OF PLASTICITY AND LIQUIDITY INDEX**

Borehole/ Trial Pit	Depth (m)	Sample	Natural Moisture Content %	Sample Passing 425µm Sieve		Liquid Limit %	Plastic Limit %	Plasticity Index %	Liquidity Index	Group Symbol	Description
				Percentage %	Moisture Content %						
BH1	4.50	U6	28	100	28	75	28	47	0.00	CV	Brown fissured CLAY with blue grey veining
BH1	4.95	D7	28	100	28	72	30	42	-0.05	CV	Brown fissured CLAY with blue grey veining

Method of Preparation : BS 1377:PART 1:1990:7.4 Preparation of samples for classification tests BS 1377:PART 2:1990:4.2 & 5.2 Sample preparations

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:4 Determination of the liquid limit BS 1377:PART 2:1990:5 Determination of the plastic limit and plasticity index

Remarks :



Site : 139-143 York Way, London, N7

Client : Central European Commodities

Engineer: Mason Navarro Partnership

Job Number

J04105

Sheet

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**DETERMINATION OF THE pH VALUE AND THE SULPHATE CONTENT OF SOIL AND GROUNDWATER**

Borehole/ Trial Pit	Depth (m)	Sample	Concentration of Soluble Sulphate			Percentage of sample passing 2mm Sieve %	pH	Classification	Description
			Soil		Groundwater g/l				
			Total SO <sub>3</sub> %	SO <sub>3</sub> in 2:1 water:soil g/l					
BH1	4.50	U6		0.27			7.3	DS-1	Brown fissured CLAY with blue grey veining
BH1	6.00	D9		0.43			8.1	DS-1	Brown fissured CLAY with blue grey veining

Method of Preparation : BS 1377:PART 1:1990:7.5 Preparation of soil for chemical tests BS 1377:PART 3:1990:5.2, 5.3, 5.4 & 9.4

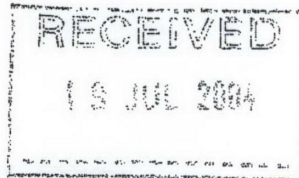
Method of Test : BS 1377:PART 3:1990:5 Determination of the sulphate content of soil and ground water BS 1377:PART 3:1990:9 Determination of the pH value

Remarks :



C. Blunden  
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Alexander Road  
London Colney  
Hertfordshire  
AL2 1JG

Page 1 of 3 pages



15th July 2004

**TEST REPORT**

Our Report No: B04003991

Your Order No: J04105/04303

2 no. soil samples submitted for analysis on 29.06.2004

Project Name: 139-143 York Way, London

Project Code: J04105/04303

Results enclosed: Pages 2-3

*Laboratory analysis started on 29.06.2004*

*All laboratory analysis completed by 15th July 2004*

Leigh Burton

Project Co-ordinator

**ALCONTROL TECHNICHEM**

Tracy Pia

Quality Manager

**ALCONTROL TECHNICHEM**

Test Methods are Documented In House Procedures or where appropriate Standard Methods.

Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.

All samples connected with this report, including any 'on hold', will be stored and disposed of according to Company policy. A copy of this policy is available on request.

# TEST REPORT

## SOIL ANALYTICAL RESULTS

Our Report No: B04003991

Page 2 of 3 pages

Your Order No: J04105/04303

CLIENT: Geotechnical & Environmental Associates

2 no. soil samples submitted for analysis on 29.06.2004

DATE OF ISSUE: 15th July 2004

Project Name: 139-143 York Way, London

Project Code: J04105/04303

Lab Ref No:	S04026358	S04026359								
Sample Reference:	BH1	BH1								
Depth (m):	1.0	2.0								
Sample Type:	S	S								
009 pH	10.1	9.5								
016 Total Arsenic	19	20								
016 Total Cadmium	<0.5	<0.5								
016 Total Chromium	24	26								
016 Total Lead	460	480								
016 Total Mercury	0.5	0.8								
016 Total Selenium	1.1	1.2								
016 Total Copper	38	79								
016 Total Nickel	13	21								
016 Total Zinc	310	400								
061 Total Cyanide	<5	<5								
014 Monohydric Phenols (as C <sub>6</sub> H <sub>5</sub> OH)	<3	<3								
011 2:1 Water Soluble Sulphate SO <sub>4</sub> (g/l)	0.80	1.10								
011 Water Soluble Chloride	23	25								
012 CEM	<500	700								
065 Rapid TPH (C <sub>10</sub> -C <sub>30</sub> )	-	-								
065 Rapid TPH (C <sub>30</sub> -C <sub>40</sub> )	-	-								
026 Organic Content (%)	1.3	2.0								
008 Sulphide	30	40								

All results expressed in mg/kg dry weight basis except for pH, unless stated.

*[Handwritten mark]*

# IES1 REPORT

## SOIL ANALYTICAL RESULTS - 022 PAH SPECIATED BY GC

Our Report No: B04003991

Page 3 of 3 pages

Your Order No: J04105/04303

CLIENT: Geotechnical & Environmental Associates

2 no. soil samples submitted for analysis on 29.06.2004

DATE OF ISSUE: 15th July 2004

Project Name: 139-143 York Way, London

Project Code: J04105/04303

Lab Ref No:	S04026359								
Sample Reference:	BH1								
Depth (m):	2.0								
Sample Type:	S								
Naphthalene	0.1								
Acenaphthylene	<0.1								
Acenaphthene	<0.1								
Fluorene	<0.1								
Phenanthrene	0.7								
Anthracene	0.2								
Fluoranthene	1.6								
Pyrene	1.4								
Benzo (a) anthracene	0.8								
Chrysene	0.8								
Benzo (b) fluoranthene	0.7								
Benzo (k) fluoranthene	0.7								
Benzo (a) pyrene	0.7								
Indeno (1,2,3-cd) pyrene	0.4								
Dibenzo (a,h) anthracene	<0.1								
Benzo (g,h,i) perylene	0.4								
Total PAH	8.5								

All results expressed in mg/kg dry weight basis

ND denotes Not Detected

Total PAH = Sum of 16 identified components

ALcontrol Technichem

*M.P.G.*

## Envirocheck<sup>®</sup> Report

### Datasheet

**Report on:**

139-143, York Way  
London  
N7 9LG

**National Grid Reference :**

529940, 184850

**Prepared For :**

GEA  
THE HERTS BUSINESS CENTRE  
ALEXANDER ROAD  
LONDON COLNEY  
HERTS  
AL2 1JG

**Client Details:**

Central European Commodities, 102  
Belsize Lane, London, NW3,

**Your Reference:**

MR S Branch, J04105