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REPORT ON A GEOTECHNICAL INVESTIGATION

at

**LAND ADJACENT TO 29 HARBOUR ROAD, PAGHAM,
BOGNOR REGIS, SUSSEX**

for

PAGHAM BEACH HOLDINGS LTD

Report No 06/7782/A/GO

November, 2006

ALBURY S.I. LTD

**Miltons Yard Petworth Road
Witley Godalming Surrey GU8 5LH**



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The following notes should be read in conjunction with the report. Any variations on the general procedures outlined below are indicated in the text.

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General

The recommendations made and opinions expressed in the report are based on the strata conditions revealed by the fieldwork as indicated on the boring and trialpit records, together with an assessment of the data from insitu and laboratory tests. No responsibility can be accepted for conditions, which have not been revealed by the possible configuration of strata, both between the excavations and below the maximum depth achieved by the investigation, these comments are for guidance only and no liability can be accepted for their accuracy. For investigations, which include environmental issues, the data obtained relate to the conditions which are relevant at the time of the investigation.

Boring Techniques

Unless otherwise stated, the light cable percussion technique of soft ground boring has been used. This method generally enables the maximum information to be obtained in respect of strata conditions, but a degree of mixing if some layered soils, for example, thin bands of coarse and fine granular soils, is inevitable. Specific attention is drawn to this occurrence where evidence of such a condition is available.

The penetration resistances quoted on the boring records have been determined generally in accordance with the procedure given in BS1377 : 1990. The suffix '+' denotes that the results has been extrapolated from less than 0.3m penetration into undisturbed soil.

Routine Sampling

During construction of boreholes, sampling and insitu testing will be completed in general accordance with BS5930 : 1999. Variations to this code of practice will only occur where the strata conditions preclude implementation of the contract specifies alternatives.

Samples which are required for environmental testing will be stored in suitable glass containers in accordance with current guidelines.

Groundwater

The groundwater observations entered on boring and trialpit records are those noted at the time of the investigation. The normal rate of progress does not usually permit the recording of any equilibrium water level for any one water strike. Moreover, groundwater levels are prone to seasonal variation and to changes in local drainage conditions. The table on each boring record shows the groundwater level at the quoted borehole and casing depths usually at the start and finish of a day's work. The word 'none' indicates that groundwater was sealed off by the borehole casing, or that no water was observed in the borehole.

Trialpits

The method of construction employed to form the trialpit is entered in their records. In general, it is not possible to extend machine excavated trialpits to depths significantly below the water table, especially in predominantly granular soils. Except for manually excavated pits, and unless otherwise stated, the trialpits have not been provided with temporary side support during their construction, hence personnel have not entered them and examined the insitu exposed strata.

Window Sampling

Window sampling comprises driving a probe into the ground. On extraction of the probe the strata encountered are logged and representative disturbed samples recovered. In general, window sampling cannot be completed in granular soils, or below the water table.

Laboratory Testing

Unless stated in the tests, all laboratory tests have been performed in accordance with the requirements detailed in BS1377 (1990) : Parts 1-9, or other standards or specifications that may be appropriate.

This investigation has demonstrated that a limited depth of made ground overlies brown sandy gravel which represents Alluvium of Recent or late Pleistocene age. It is understood that these soils overlie the London Clay of late Eocene age. The groundwater observations noted at the time of the fieldworks suggest that problems with respect to shallow depth excavations are unlikely.

I SYNOPSIS

Prepared by	G Owens BSc Geotechnical Engineer
Reviewed by	C V Sweby CEng MICE Managing Director

November, 2006

Report No 06/7782/A/GO

PAGHAM BEACH HOLDINGS

for

LAND ADJACENT TO 29 HARBOUR ROAD, PAGHAM,
BOGNOR REGIS, SUSSEX

at

REPORT ON A GEOTECHNICAL INVESTIGATION

The depths and descriptions of the strata encountered in the boreholes are given on the borehole and dynamic probing records which comprise Appendix I to this report. These

The boreholes were constructed on the 26th October, 2006, at positions as shown on the site plan, drawing no 06/7782/1, which is presented as Appendix IV to this report. The salient details of this drawing have been supplied by the Client's Chartered Surveyors, J. Higham Associates.

III FIELDWORKS

This report describes the work undertaken, presents the information obtained and discusses the ground conditions with respect to the proposed development. probing techniques.

The programme of this investigation comprised the construction of five boreholes, using a composite terrier rig. During this work, samples were recovered for further examination and laboratory testing. In addition, insitu standard penetration tests were also performed during the construction of each borehole. These boreholes were extended by dynamic

addition, consideration has been given to the environmental issues at this site. data which will assist in the formulation of a safe and economical foundation solution. In ascertain the nature and engineering properties of the soils underlying this site, and to obtain completion of a desk study, a geotechnical investigation has been undertaken in order to development of the area of land adjacent to 29 Harbour Road, Pagham. Following the it is understood that Pagham Beach Holdings Ltd propose to undertake a residential

II INTRODUCTION

Therefore, no remedial measures are likely to be required as part of the proposed redevelopment.

The results of laboratory analysis have not noted any significant levels of contamination. The ground conditions revealed at this site indicate that foundations located at a minimum depth of 1m can be designed to apply a maximum increase in load of 150kPa.

Samples of the sub-soils have been subjected to sieve analysis in order to determine their particle size distribution. The results are presented in the form of grading curves which show the soil to be a well graded sandy gravel.

a) Particle Size Distribution

A programme of laboratory testing has been undertaken and the results are presented as Appendix II to this report. Each type of test is briefly summarised below, and the results obtained have been used to assist in the formulation of the discussion of ground conditions.

V LABORATORY TESTING

No groundwater strikes were encountered during the course of the fieldworks.

Insitu standard penetration tests were carried out within the brown sandy gravel. This work revealed penetration resistances within the range 18 blows/0.3m and 37 blows/0.3m, which is indicative of a medium to dense insitu condition for a granular soil.

Made ground of variable composition was shown to extend to a depth of 0.2m. Brown sandy gravel was revealed upon penetration of the made ground and was shown to extend to a depth of 2.5m. These boreholes were extended by dynamic probing to depths of 5m.

An examination of the 1:50,000 Geological Survey map of the area, no 332 Bognor, indicates that the site is underlain by alluvium of recent or Pleistocene age. These soils overlie the London Clay of late Eocene age. However this deposit was not proved by this investigation.

IV GEOLOGY AND STRATA CONDITIONS

records note the depths at which samples were taken, the results of insitu standard penetration tests and any groundwater observations noted at the time of the fieldworks. The results of the continuous probing are presented as a penetration resistance-depth relationship.

Alternatively, consideration may be given to the use of a piled foundation solution. The design of piles lies outside the scope of this report as it is dependent upon the type of pile employed, its size and required bearing capacity. Should a piled foundation system be

Consideration of the data derived from this investigation would suggest that strip or spread foundations constructed within the brown sandy gravel can be designed to apply a maximum increase in load of 150kPa. Foundations operating at this loading intensity will incorporate a factor of safety of 3 against general shear and will be subjected to limited settlements. action of low loading intensities.

It cannot be recommended that major structural foundations be located within the made ground revealed by this investigation. Soils of this type or origin are generally present in a weak and variable condition, such that unacceptable settlement could occur under the available.

the preparation of this report, no information regarding the likely structural loadings was development of the site at the land adjacent to 29 Harbour Road, Pagham. At the time of It is understood that Pagham Beach Holdings Ltd propose to undertake a residential

VI DISCUSSION OF GROUND CONDITIONS

Samples of the sub soil have been subjected to a suite of tests proposed within the former ICRL Guidance Note 59/83 and current CLEA guidelines. This work was completed within the MCHRTS and UKAS accredited laboratories operated by Messrs Bodycote Health Sciences.

c) Contamination

The soluble sulphate contents and pH values of the materials revealed at this site have been established. The results of this work show that soluble sulphate content was below the limit of detection in association with neutral pH values.

b) Chemical Analyses

Any spoil should be taken for disposal to an appropriately licensed landfill site. The classification of the spoil lies outside the scope of this report, as it is dependent upon parameters that may be set by the site operator or the Local or County Authority. In these circumstances, the results of laboratory testing should be used to classify the spoil and thus identify sites, which will accept excavated material.

The results obtained have been compared with CLFA soil guidance values for Residential with Plant Uptake. The laboratory test results show that there is no evidence of significant contamination at this site.

Samples of the near surface soils have been tested for a range of parameters based on the former ICRL Guidance Note 59/83. The ICRL Guidance Note 59/83 has been withdrawn. Therefore, an assessment of the results has been made using the Contaminated Land Exposure Assessment Model and, where applicable, Dutch Government Guidelines, E.U. Council Directive No 86/278/EEC (Agricultural Use of Sewage Sludge) and BRE Special Digest 1. The tables, which comprise Appendix III list the determinants, current guideline values and the guideline sources.

VII CONTAMINATION

No groundwater was encountered during the period of the site works. Accordingly, ingress of groundwater into excavations are unlikely to occur. Should slight seepages be encountered, or surface water run off drain into foundation excavations, then these minor amounts could be dealt with using good engineering practice.

A flood risk assessment has been carried out by Messrs University of Portsmouth, report number 1408-355, which recommends that the ground level of the proposed development site be raised by 1m (4.5m AOD). Therefore, fully suspended ground floor slabs should be designed in accordance these above requirements.

considered, it would be prudent to seek the advice and experience of specialist piling contractors in order to obtain suitable economic designs.

VIII EFFECT OF SULPHATES

The information obtained from this investigation has been compared with the criteria proposed in BRE Special Digest 1, Concrete in Aggressive Ground. Using the information in Table 2 of this publication the Aggressive Chemical Environment for Concrete Classification is AC-1s, which coincides with a Design Sulphate Class DS-1.

This grouping has been compared with the information given in Part 2 of the Special Digest and it is apparent that for a low to normal structural performance concrete, special precautions on respect of buried concrete may not be required. However, it is important to clarify the final concrete design mix when the details of the development are available.

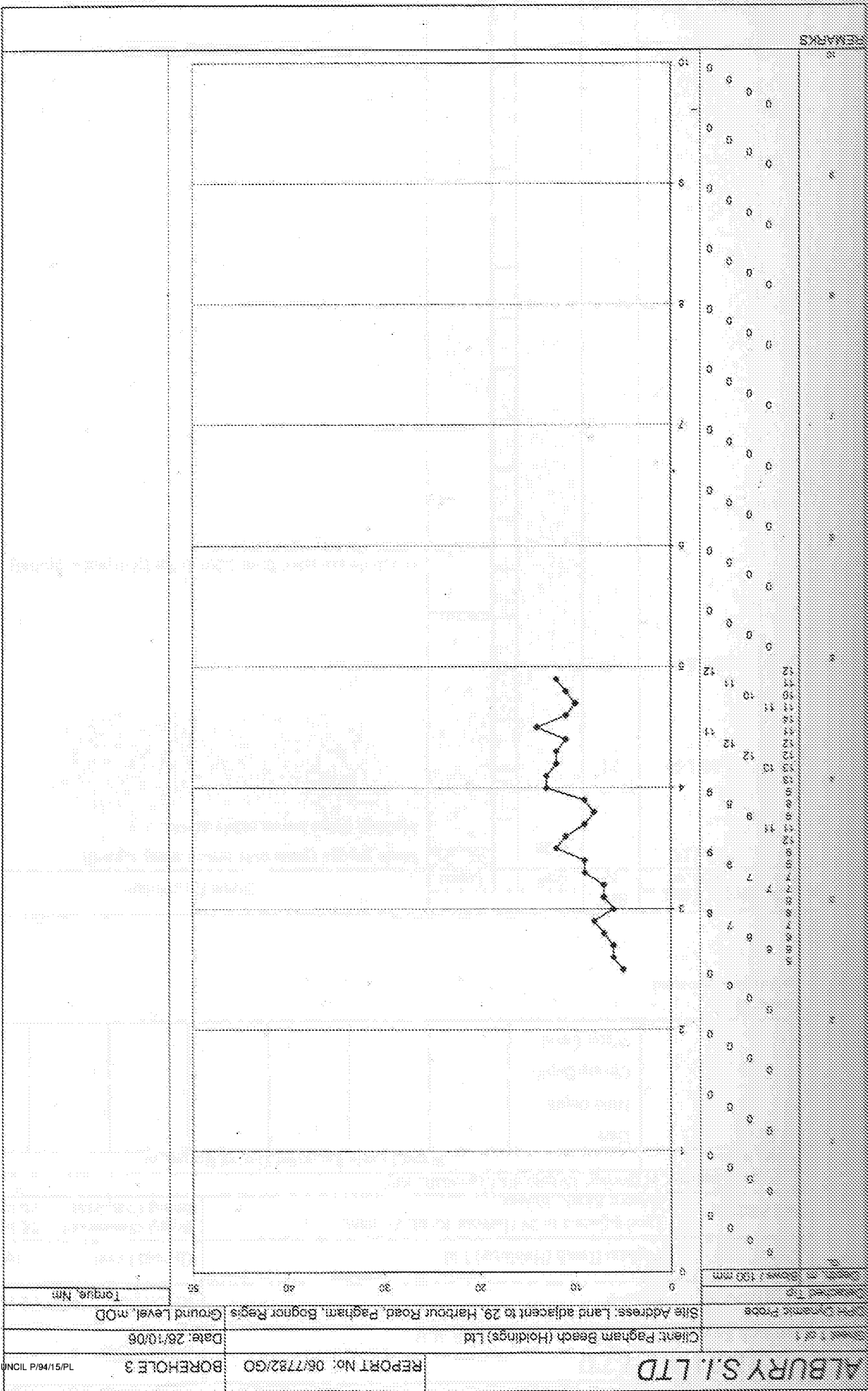
Boring Records
APPENDIX I

ALBURY S.LTD		Petworth Road, Witley, Godalming, Surrey GU8 5LH		Borehole No 1																									
CONTRACT		Pagham		Report No 06/7782/A/GO																									
Client		Pagham Beach (Holdings) Ltd		Ground Level MOD																									
Site Address		Land adjacent to 29 Harbour Road, Pagham, Bognor Regis, Sussex		Boring Commenced 26/10/06 Boring Completed 26/10/06																									
Type and Diameter of Boring: 150mm dia. Composite Rig																													
Water Strikes, m		Water Levels Recorded During Boring, m																											
1	None	Date																											
2	Hole Depth																												
3	Casing Depth																												
4	Water Level																												
Remarks																													
Sacrificial cone used																													
<table border="1"> <tr> <td>Samples of Tests</td> <td>Type</td> <td>Depth, m</td> <td>SPT</td> <td>N</td> <td>Depth</td> <td>Legend</td> <td>Strata Description</td> </tr> <tr> <td>D</td> <td>D</td> <td>0.50</td> <td></td> <td></td> <td>0.20</td> <td></td> <td>Made ground (grass over brown sandy topsoil)</td> </tr> <tr> <td>D</td> <td>D</td> <td>1.00-2.00</td> <td></td> <td></td> <td>2.00</td> <td></td> <td>Brown sandy gravel</td> </tr> </table>						Samples of Tests	Type	Depth, m	SPT	N	Depth	Legend	Strata Description	D	D	0.50			0.20		Made ground (grass over brown sandy topsoil)	D	D	1.00-2.00			2.00		Brown sandy gravel
Samples of Tests	Type	Depth, m	SPT	N	Depth	Legend	Strata Description																						
D	D	0.50			0.20		Made ground (grass over brown sandy topsoil)																						
D	D	1.00-2.00			2.00		Brown sandy gravel																						

ALBURY S.L. LTD		Perworth Road, Witley, Godalming, Surrey GU8 5LH		Borehole No 2	
CONTRACT		Pagham		Report No 06/7782/A/GO	
Client		Pagham Beach (Holdings) Ltd		Ground Level MOD	
Site Address		Land adjacent to 29 Harbour Road, Pagham, Bognor Regis, Sussex		Boring Commenced 26/10/06 Boring Completed 26/10/06	
Type and Diameter of Boring: 150mm dia Composite Rig		Water Levels Recorded During Boring, m			
Water Strikes, m					
Remarks					
1 None					
Date					
Hole Depth					
Casing Depth					
Water Level					
Sacrificial cone used					
Samples of Tests		SPT		Strata Description	
Type	Depth, m	N	Depth		
D	0.10		0.20	Made ground (grass over brown sandy topsoil with occasional brick fragments)	
D	0.50			Medium dense brown sandy gravel	
D	1.00				
D	1.00-2.00	19			
D	2.00-2.50	26			
D	2.00-3.00				
Borehole extended from 3m to 5m by dynamic probing					

ALBURY S.L. LTD		Perworth Road, Witley, Godalming, Surrey GU8 5LH	
CONTRACT		Pagham	
Client		Pagham Beach (Holdings) Ltd	
Site Address		Land adjacent to 29 Harbour Road, Pagham, Bognor Regis, Sussex	
Type and Diameter of Boring: 150mm dia. Composite Rig		Boring Completed 26/10/06	
Water Strikes, m		Boring Commenced 26/10/06	
1 None		Ground Level	
2 Date		mOD	
3 Hole Depth			
4 Casing Depth			
Water Level			
Water Levels Recorded During Boring, m			
Remarks			
Sacrificial cone used			

Type	Depth, m	SPT	Depth	Legend	Strata Description
D	0.10		0.20		Made ground (grass over brown sandy topsoil with occasional brick fragments)
D	0.50				Medium dense brown sandy gravel
D	1.00-1.50	18			
D	2.00-2.50	37			
Borehole extended from 2.5m to 5m by dynamic probing					



Client: Pagham Beach (Holdings) Ltd Site Address: Land adjacent to 29, Harbour Road, Pagham, Bognor Regis		Date: 26/10/06 BOREHOLE 3	
Depth, m (Bore / 100 mm)		Torque, Nm	

ALBURY S.I. LTD		Petworth Road, Wiley, Godalming, Surrey GU8 5LH	
CONTRACT		Pagham	
Client		Pagham Beach (Holdings) Ltd	
Site Address		Land adjacent to 29 Harbour Road, Pagham, Bognor Regis, Sussex	
Type and Diameter of Boring:		150mm dia Composite Rig	
Water Strikes, m		Water Levels Recorded During Boring, m	
1 None	Date		
2 Hole Depth			
3 Casing Depth			
4 Water Level			
Remarks			
Saccharial cone used			

Samples of Tests		SPT	Depth	Legend	Strata Description
Type	Depth, m				
D	GL-1.00		0.20		Made ground (grass over brown sandy topsoil)
D	1.00-1.50	22			Medium dense brown gravel
D	2.00-2.50	37			Borehole extended from 2.5m to 5m by dynamic probing

Sampling Code: U - Undisturbed B - Large disturbed D - Small disturbed W - Water (U*) Non recovery of U Sample

Client: Pagham Beach (Holdings) Ltd

Site Address: Land adjacent to 29, Harbour Road, Pagham, Bognor Regis

Date: 26/10/08

Ground Level, mOD

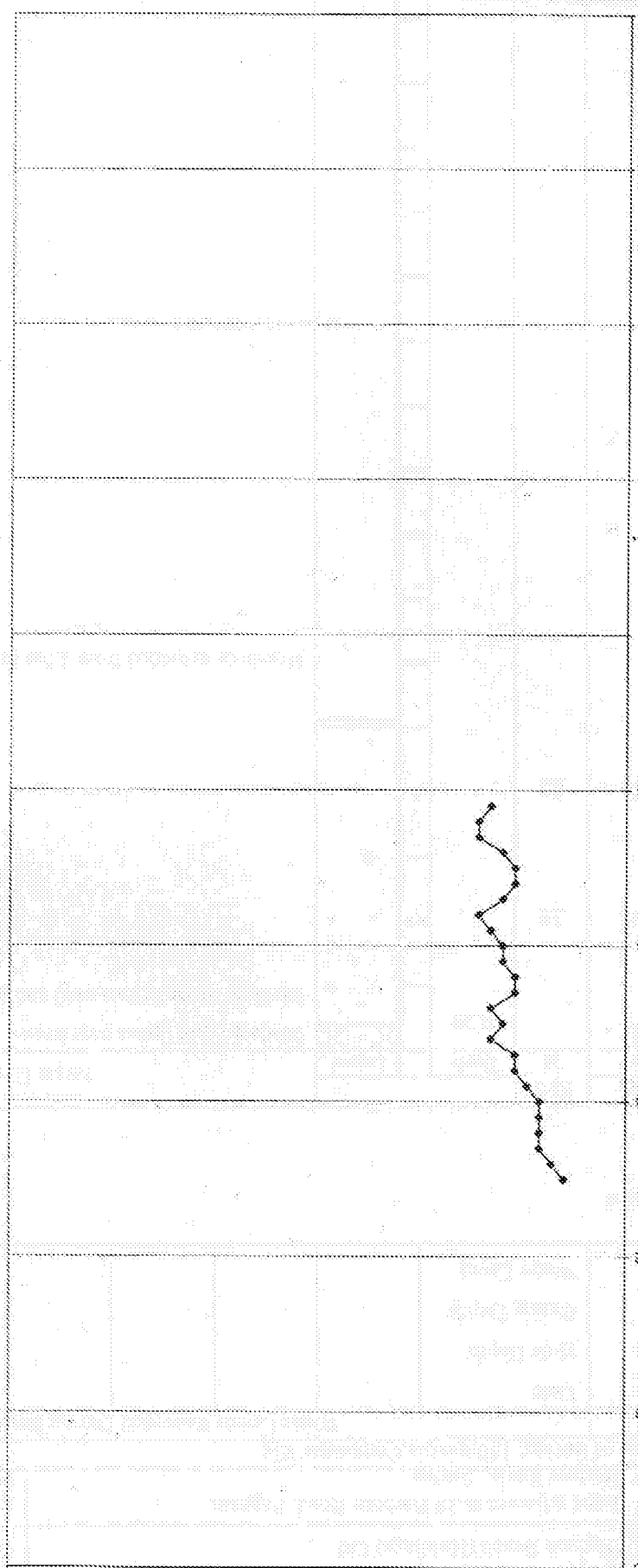
Torque, Nm

Depth, m Borehole / 100 mm

Drifted 110

Drifted Dynamic Probe

Sheet 1 of 1



REMARKS

ALBURY S.L. LTD		Perworth Road, Witley, Godalming, Surrey GU8 5LH		Borehole No 5	
CONTRACT		Pagham		Report No 06/7782/A/GO	
Client		Pagham Beach (Holdings) Ltd		Ground Level MOD	
Site Address		Land adjacent to 29 Harbour Road, Pagham, Bognor Regis, Sussex		Boring Commenced 26/10/06 Boring Completed 26/10/06	
Type and Diameter of Boring: 150mm dia.Composite Rig		Water Levels Recorded During Boring, m			
Water Strikes, m					
1 None					
Date					
Hole Depth					
Casing Depth					
Water Level					
Remarks					
Sacrificial cone used					
Samples of Tests		Strata Description			
Type	Depth, m	SPT	N	Depth	Legend
D	GL-1.00			0.20	Made ground (grass over brown sandy topsoil)
D	1.00-1.50	20			Medium dense brown sand and gravel
D	2.00-2.50	22			Borehole extended from 2.5m to 5m by dynamic probing

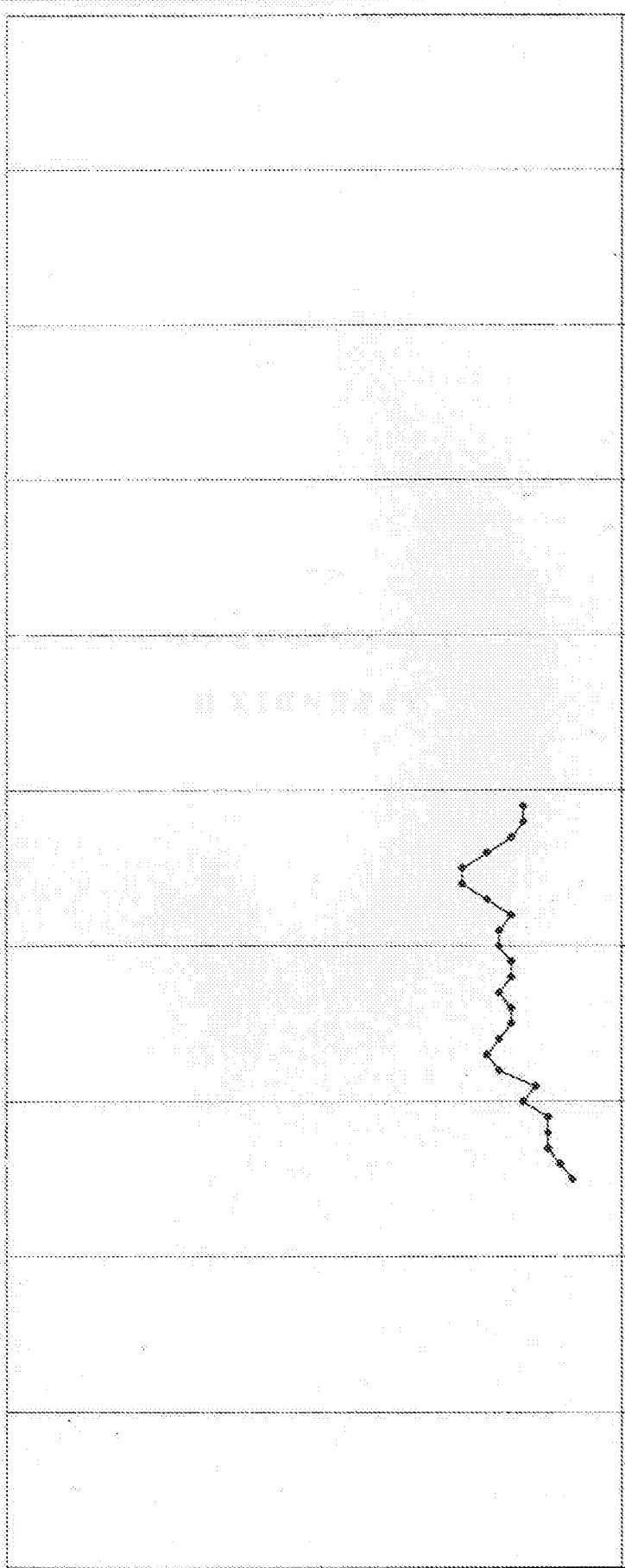
Client: Pagham Beach (Holdings) Ltd

Date: 26/10/06

Site Address: Land adjacent to 29, Harbour Road, Pagham, Bognor Regis

Ground Level, mOD

Torque, Nm

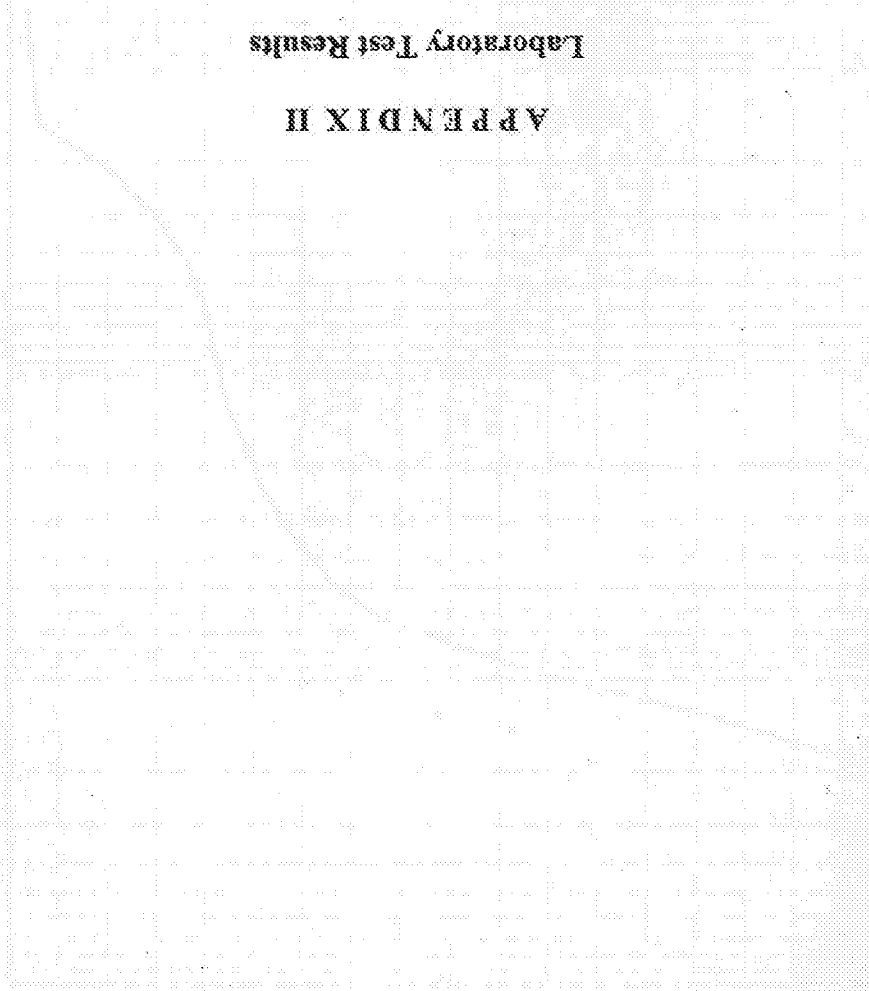


Depth, m	Blows / 100 mm
10	10
9	15
8	10
7	15
6	10
5	15
4	10
3	15
2	10
1	10

REMARKS

Laboratory Test Results

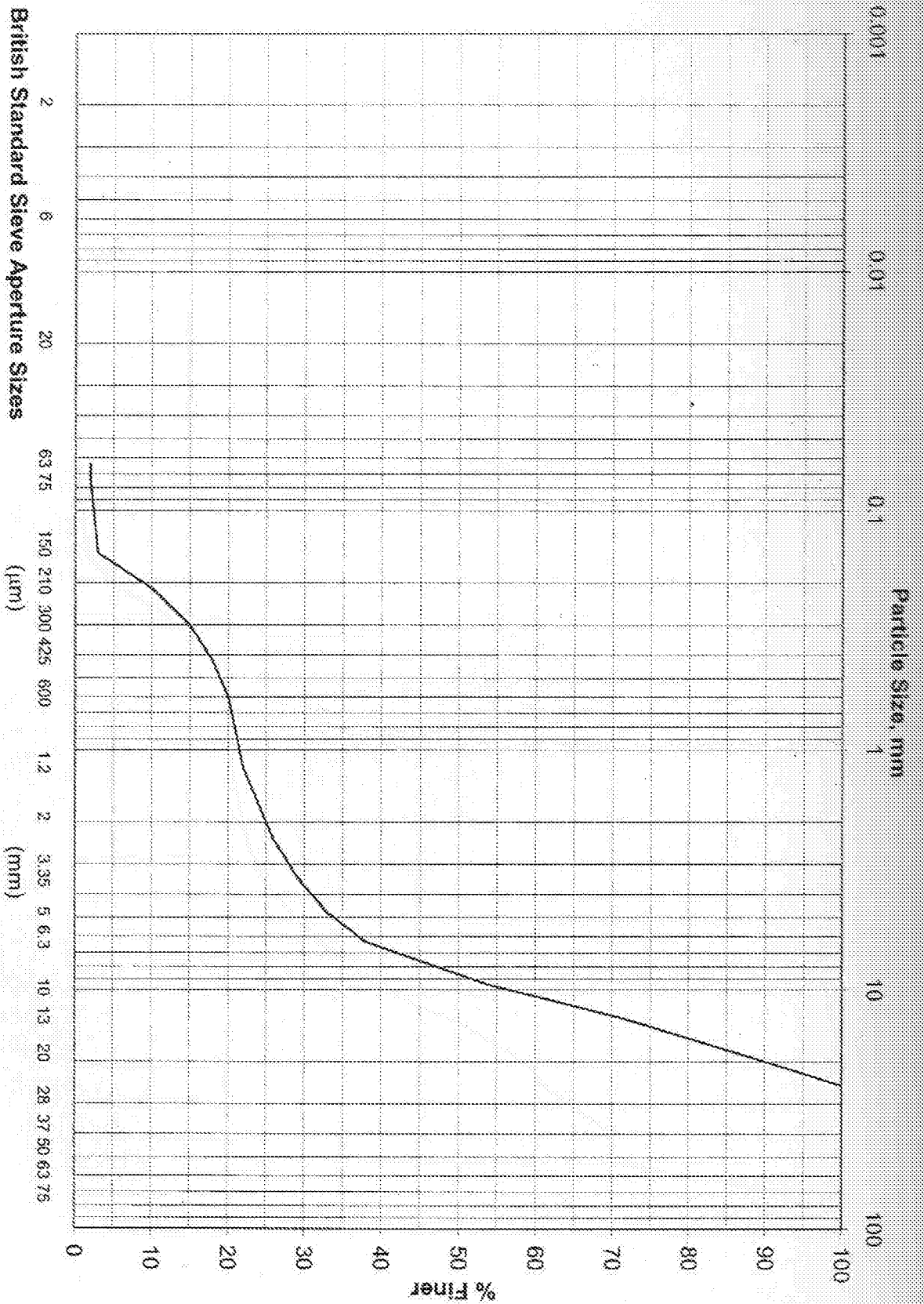
APPENDIX II



PARTICLE SIZE DISTRIBUTION - GRADING CURVE

Contract: Pagham

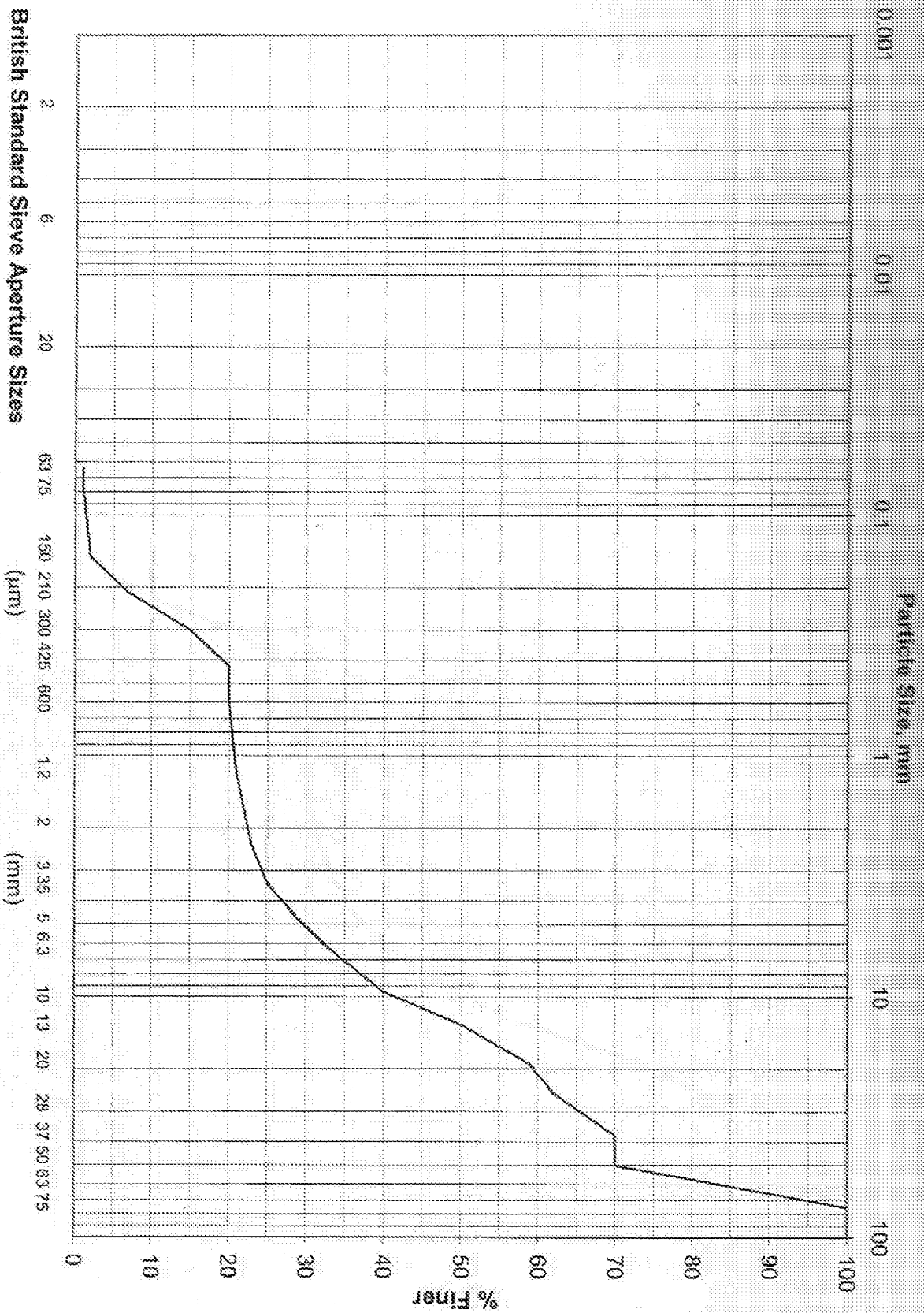
Report No. 06/7782/A/GO



PARTICLE SIZE DISTRIBUTION - GRADING CURVE

Contract: Pagham

Report No: 06/7782/A/GO



British Standard Sieve Aperture Sizes

Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse
Silt Fraction			Sand Fraction			Gravel Fraction		

Cobbles

Depth of Sample, m: 1.00-2.00

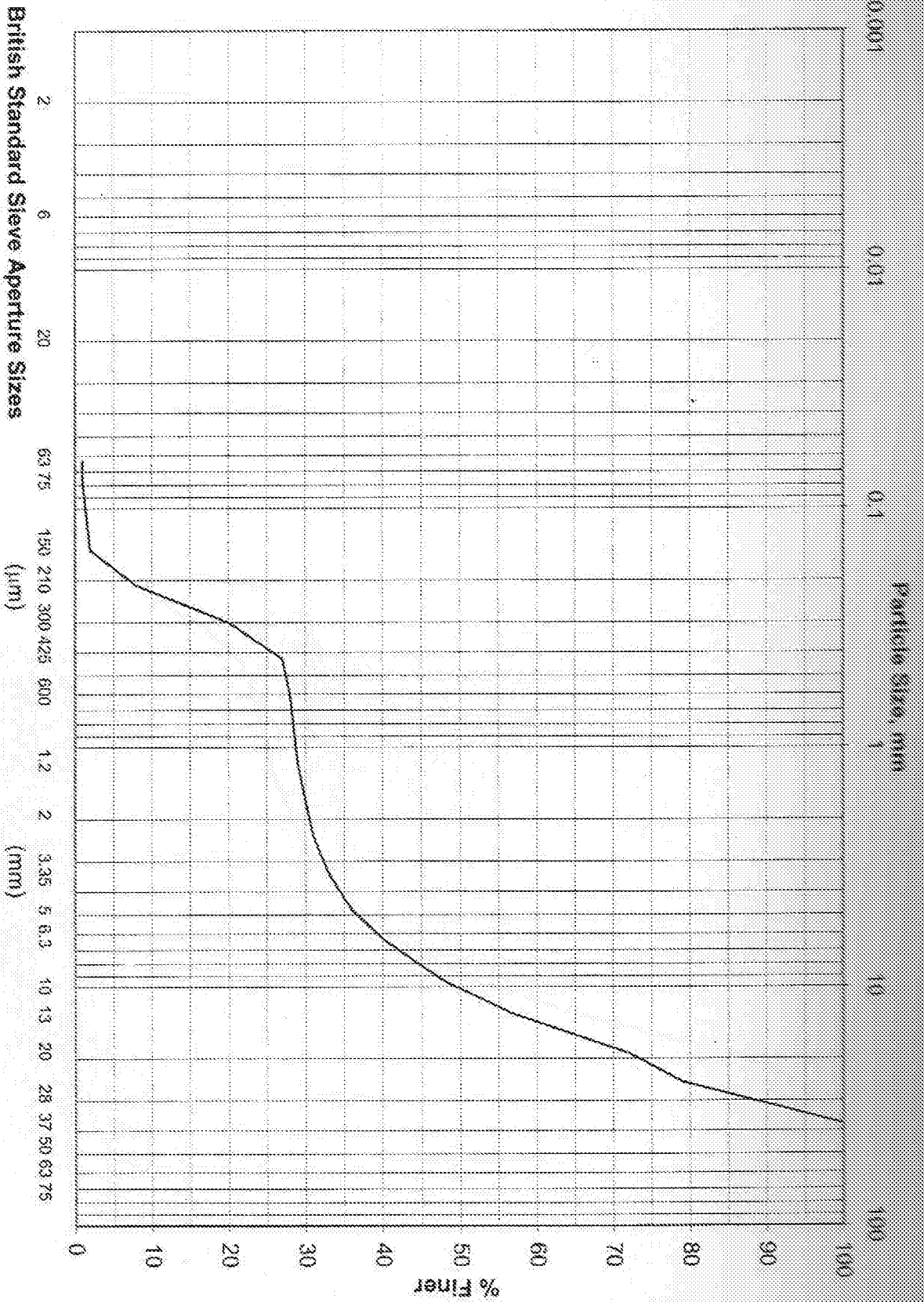
Borehole No. 2

Visual Description: Brown sandy gravel

Depth of Sample, m: 1.50-2.00

Borehole No. 3

Visual Description: Brown sandy gravel



British Standard Sieve Aperture Sizes

(µm)

(mm)

Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse
Silt	Fraction		Sand	Fraction		Gravel	Fraction	

Cobbles

PARTICLE SIZE DISTRIBUTION - GRADING CURVE

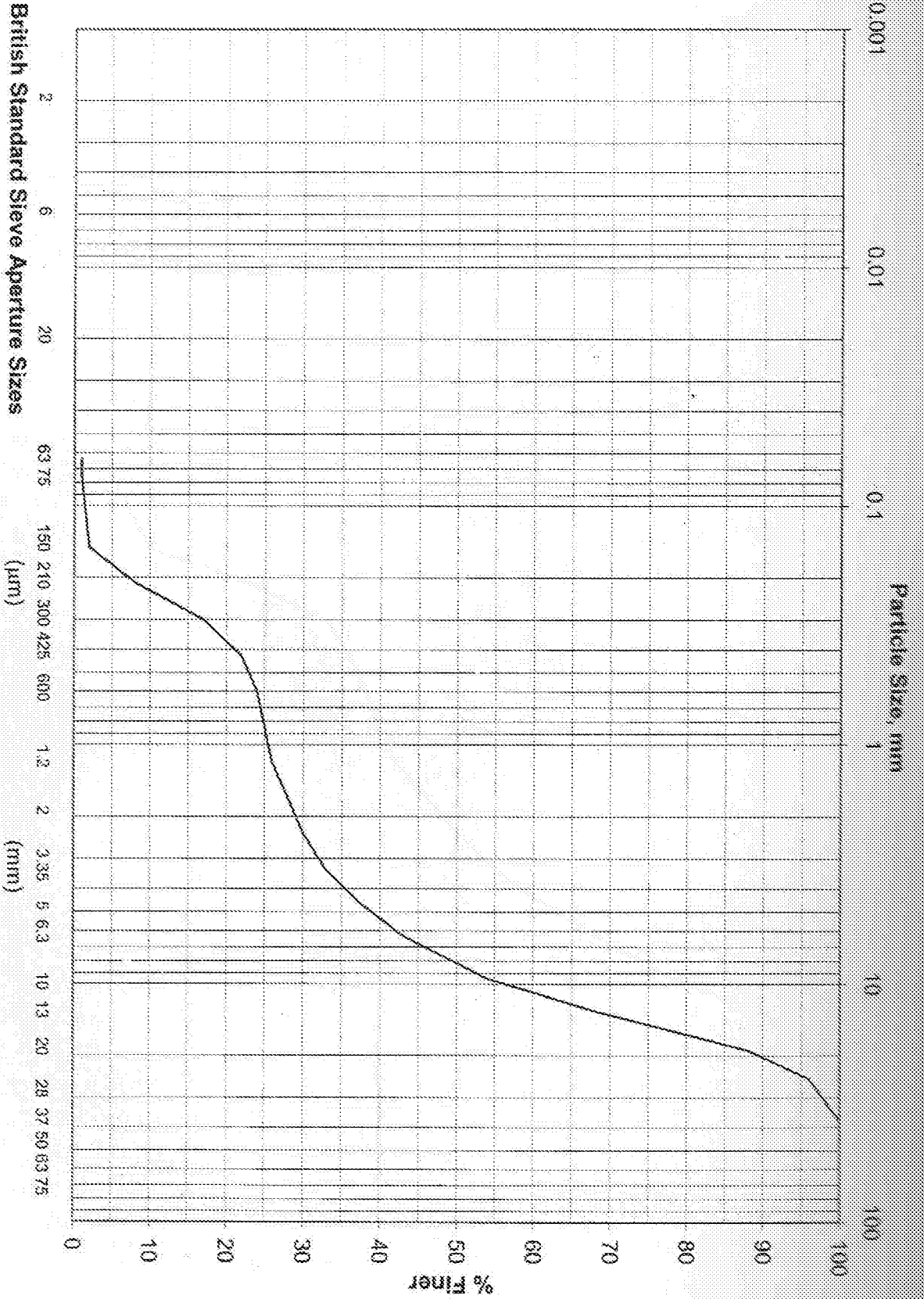
Report No. 06/7782/AGO

Contract Payham

Depth of Sample, m: 1.00-1.50

Borehole No. 4

Visual Description: Brown sandy gravel



Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse
Silt	Fraction		Sand	Fraction		Gravel	Fraction	

Cobbles

PARTICLE SIZE DISTRIBUTION - GRADING CURVE

Report No. 06/7782/AGO

Contract Pagham

PARTICLE SIZE DISTRIBUTION - GRADING CURVE

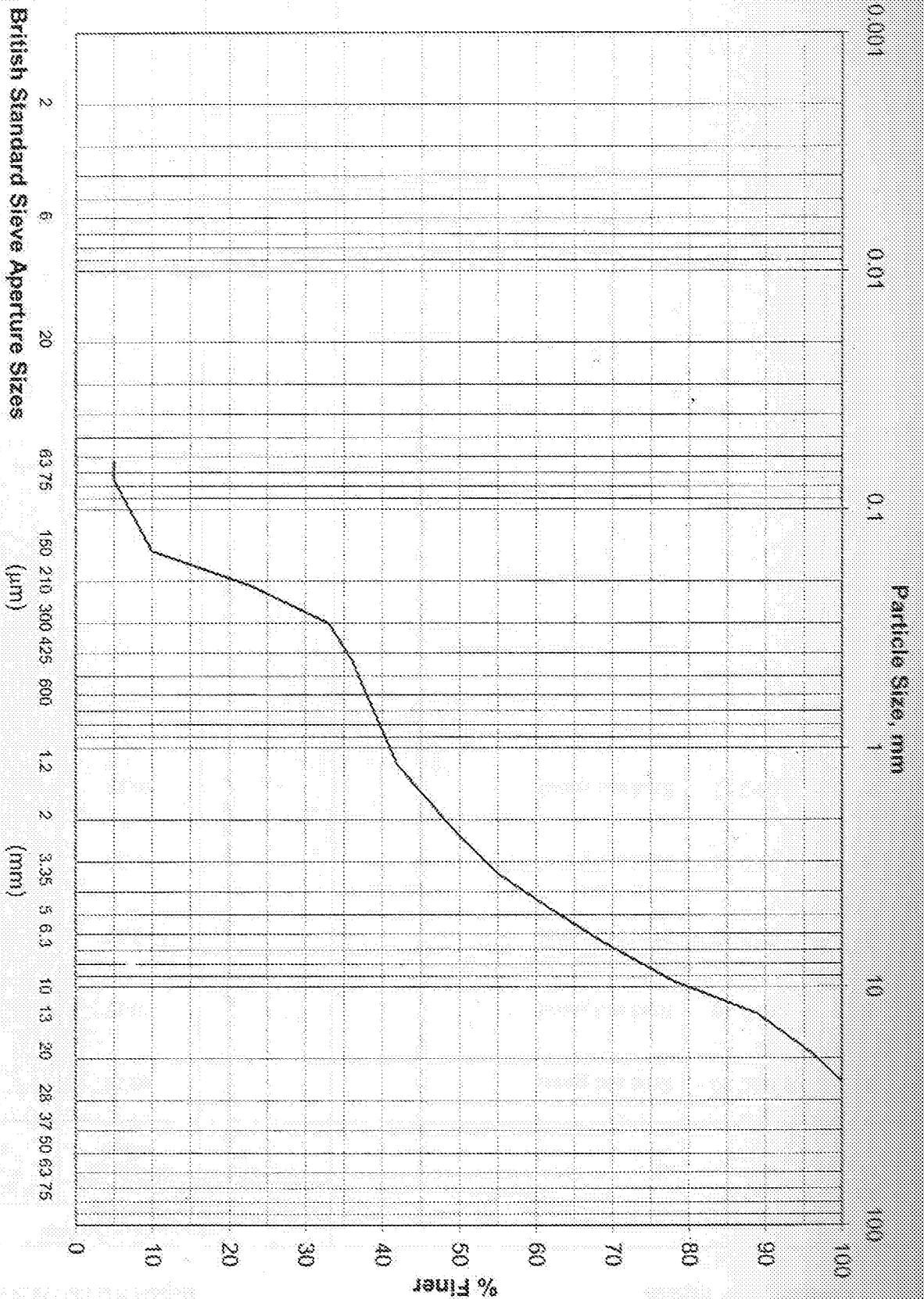
Contract: Pagham

Report No. 06/7782/A/CO

Borehole No. 5

Depth of Sample, m: 2.00-2.50

Visual Description: Brown sand and gravel



British Standard Sieve Aperture Sizes

(µm)

(mm)

Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse
Silt	Fraction		Sand	Fraction		Gravel	Fraction	

Cobbles

No	Depth of sample, m	Description	Concentrations of Sulphates expressed as SO ₄			pH value
			Total SO ₄ (%)	2:1 water:soil extract g/l	In ground-Water g/l	
1	1.00-2.00	Sand and gravel	<0.25			7.4
2	1.00-1.45	Sand and gravel	<0.25			7.3
3	1.50-2.00	Sand and gravel	<0.25			7.2
4	2.00-2.50	Sand and gravel	<0.25			7.3
5	2.00-2.50	Sand and gravel	<0.25			7.2

RESULTS OF CHEMICAL ANALYSES

Determination of Sulphate Content and pH value

Contract: Pagham

Report No: 06/7782/GO

Client: Albany SL Ltd
Millions Yard, Petworth Road, Witley, Surrey, GU8 5LH
Site: Pagham
Date Tested: 31/10/06, 01/11/06, 03/11/06, 06/11/06, 08/11/06, 09/11/06
Methodology: CTP01, CTP07, CTP11a, CTP11b, CTP11c, CTP12, CTP14, CTP16, CTP18c, CTP20, SOP01 VOC, SOP02 GC-MS, SOP03 TPH, SOP11 S, Stones
Date Reported: 9 November, 2006
Date Received: 27 October, 2006
Sample Type: Solid
Certificate No: 06/4408/50/C1
File No: 06/4408/50
Client Ref: 05/7782/GO

Lab sample ref	Client sample ref	Date sampled
B335650	BH1	0.5m
B335651	BH2	0.1m
B335652	BH3	0.5m
B335653	BH4	0.1m
B335654	BH5	0.1m
S	S	S

Analyte	Units	ISO17025	MCERTS	100	#	#	#	#	#	#
pH		Y	Y		6.1	8.1	7.4	5.9		
Sulphate (total) s	mg/kg	Y	Y	200	<200	<200	340	270		
Sulphide sm	mg/kg	Y	N	2	<2	<2	<2	<2		
Sulphur (elemental) s	mg/kg	Y	Y	20	<20	<20	<20	<20		
Cyanide (total) sm	mg/kg	Y	Y	10	<10	<10	<10	<10		
PAH (total) s	mg/kg	N	N	1	<1	<1	<1	<1		
Phenols (screen) sm	mg/kg	Y	Y	1	<1	<1	<1	<1		
Arsenic s	mg/kg	Y	Y	5	<5	<5	<5	<5		
Boron (water soluble) s	mg/kg	N	N	1	<1	<1	<1	<1		
Cadmium s	mg/kg	Y	N	0.5	<0.5	<0.5	0.5	0.7		
Chromium (total) s	mg/kg	Y	Y	5	<5	<5	<5	<5		
Copper s	mg/kg	Y	Y	5	<5	<5	<5	<5		
Lead s	mg/kg	Y	Y	5	<5	<5	<5	<5		
Mercury s	mg/kg	Y	N	0.5	<0.5	<0.5	<0.5	<0.5		
Nickel s	mg/kg	Y	Y	5	<5	<5	<5	<5		
Selenium s	mg/kg	Y	N	5	<5	<5	<5	<5		
Zinc s	mg/kg	Y	N	5	<5	<5	<5	<5		
TPH (GC) sm	mg/kg	Y	Y	10	<5	<5	<5	<5		
VOC sm	mg/kg	Y	Y	10	<5	<5	<5	<5		

Notes
1. Analyses suffixed 'S' were performed on the sample dried at 35°C.
2. Analyses suffixed 'Syl' were performed on the sample as received.
3. All results are expressed as dry weight.
4. MCERTS accreditation applicable to Sample Matrix 'S' only.
5. Natural stones (pebbles, gravels etc.) which do not pass a 10mm sieve are excluded from air dried analyses and results corrected accordingly.
6. s indicates separate report appended.
7. Tests marked * indicate subcontracted analyses.

Prepared by: [redacted]
Approved by: [redacted]

Account Manager

Section Leader

Bodycote Health Sciences, The Health Technical Park, Buncom, Cheshire, United Kingdom, WAT 4DX

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Albury St Ltd, Millons Yard, Peaborn Road, Witley, Surrey, GU8 5LH

Pagham

Solids

06/4408/50/C1

27-Oct-06

07-Nov-06

Laboratory Developed In-house Method - "SCPM"-Determination of VOC by GC-MS Headspace

VOLATILE ORGANIC COMPOUNDS

Section Leader

Authorised by

Chemist



The Health Sciences - The Health Technical Park - Runcom - Cheshire - United Kingdom - WA7 4QX

Environmental is a part of Health Sciences, a division of the Bodycote Testing Group

Registered Office: Bodycote Testing Limited, Lockend Industrial Estate, Newbridge, Midlothian, UK EH28 8PL Registered No. SC 70429

[illegible]

Contamination Tables

APPENDIX III

SOIL GUIDANCE VALUES

[illegible]

Soil Guideline Value (mg/kg dry weight soil)												
	Residential with Plant uptake	Residential without Plant Uptake	Alloiments	Industrial/Commercial	SOM%		1	2.5	5	SOM%		SOM%
Subsistence	9	21	41	16	41	80	18	43	85	48,000		
Phonol	78	150	180	21,900	34,400	37,500	80	133	280	21,900	43,000	78,100
Trace	3	7	14	3	8	15	31	73	140	150	350	680

SOM = Soil Organic Matter

08/77821

Site Plan

N.T.S.

Harbour Road, Paghman

Alber, S.L. Ltd

Site Plan

APPENDIX IV

Land adjacent to 29 Harbour Road, Pagham, Bognor Regis, Sussex,		Site Plan	06/7782/1
Albury S.L. Ltd		Scale:	N.T.S

