Land South of Summer Lane
Pagham
West Sussex

Combined Geotechnical Assessment, Contamination Status and Waste Classification Report

Report Beneficiary:
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A preliminary and quantitative ground contamination risk assessment including development of conceptual models and statistical analysis of laboratory test data was beyond the remit of this report. Any comment regarding the contamination status of soils with respect to risks that may be posed to both human health and controlled water should be considered as preliminary and subject to further sampling, laboratory testing and analysis that may be required by regulators or warrantors.

EXECUTIVE SUMMARY

The following presents a summary of the main findings of the report. It is emphasised that no reliance should be placed on any individual point until the whole of the report has been read as other sections of the report may put into context the information contained herein.

It is proposed to develop land located south of Summer Lane, Pagham, West Sussex, for mixed residential use. The development proposals are understood to include the construction of new low rise housing and community buildings, with associated private gardens, public amenity space, access roads and parking.

Reference to geological datasets indicates that the site is expected to be underlain by the River Terrace Deposits overlying the London Clay Formation. The ground investigation confirmed the underlying soils to comprise generally a shallow thickness of topsoil/subsoil, overlying the River Terrace Deposits and, in turn, London Clay Formation soils.

The River Terrace Deposits and the London Clay Formation are classified as a Secondary A Aquifer and an Unproductive Stratum, respectively. The site does not lie within an Environment Agency Source Protection Zone with regard to the protection of the quality of groundwater that is abstracted for potable supply. Groundwater has been recorded at depths of between 0.20m and 1.70m below ground level during monitoring of standpipes that has been conducted to date. Groundwater monitoring is continuing, the results of which will be issued on completion of the groundwater monitoring period.

The design of precautions against shrinkage and heave for any new foundation system should assume a medium volume change potential for the River Terrace Deposits.

A net allowable bearing capacity of 100kN/m^2 may be assumed for spread (pad or strip) foundations up to 1.0m across bearing within the River Terrace Deposits of at least firm consistency or loose relative density. An increased bearing capacity of 150kN/m^2 may be adopted where foundations are constructed to bear solely on soils of at least stiff consistency or medium dense relative density.

A DS-1 Design Sulfate Class and an AC-1 ACEC classification should be assumed as a minimum for the design of concrete in contact with the ground.

Whilst suspended floors are recommended, ground bearing floors may be employed subject to the criteria set out within this report having been met.

A design equilibrium CBR value of no greater than 3% should be assumed for the design of pavement bearing on the fine-grained River Terrace Deposits. Where the coarse-grained soils of the River Terrace deposits are present at formation level a CBR value of 20% may be assumed, providing the soils at formation level are appropriately compacted. The subgrade is not likely to be susceptible to frost heave.

The results of the infiltration tests indicate that the River Terrace Deposits possess negligible to moderate infiltration characteristics.

None of the samples tested recorded individual contaminant concentrations above the published screening values relevant to the proposed end use. No asbestos was detected within any of the samples screened.

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1. INTRODUCTION

It is proposed to develop land located south of Summer Lane, Pagham, West Sussex, for mixed residential use. The development proposals are understood to include the construction of new low rise housing and community buildings, with associated private gardens, public amenity space, access roads and parking. A copy of the proposed development layout is presented in Appendix A.

The scope of the works covered by this report, and the terms and conditions under which they were undertaken, were set out within the offer letter Q18-7851/rev1, dated 15th November 2018. The instruction to proceed was received on behalf of the client, The Langmead Children.

The objectives of the works were to:

a) Establish the expected geology, hydrogeology and hydrology at the site;
b) Investigate the shallow ground and groundwater conditions prevailing at the site;
c) Provide advice to assist others in undertaking design of spread foundations, ground floors, road pavements and soakaways;
d) Review historical maps and third party geo-environmental data, and test for the presence of a range of commonly occurring contaminants; and
e) Provide an indicative assessment of the contamination status and waste classification of the tested soils.

Copies of the historical maps and geo-environmental data referred to in this report are included in a separate volume[1].

[1] Geo-Environmental Data and Historical Maps (Ashdown Site Investigation Limited, Report Number R18-13402/map, dated 21st November 2018.

2. SITE CONTEXT

2.1 Site Description

The site comprises an irregular shaped plot of land located south of Summer Lane, Pagham, West Sussex, and is centred on the approximate Ordnance Survey national grid reference SZ 8883 9809. A site location plan and site plan are presented as Figure 1 and Figure 2, respectively.

The site is bounded by Summer Lane to the north, Pagham Road, residential properties and Pagham Village Hall to the east, and agricultural land to the south and west.

At the time of the ground investigation, the site comprised open agricultural fields, accessed off Pagham Road to the east and Summer Lane to the north. A drainage ditch crosses the northern part of the site.

Numerous mature trees and hedges are present along the site boundaries. The site area is generally level; site levels range between approximately 3m and 6m AOD across the site area, being lowest in its southernmost part.

2.2 Geological, Hydrogeological and Hydrological Information

2.2.1 Expected Geology and Aquifer Designation

The stratigraphic succession that may be expected to underlie the site is presented in the following table.

Table 1. Expected Strata and Aquifer Designation

Type	Stratum	Aquifer Designation
Superficial	River Terrace Deposits	Secondary A Aquifer
Bedrock	London Clay Formation	Unproductive Stratum

The River Terrace Deposits generally comprise well graded sandy fine to coarse gravel. Locally sand or gravel strata may predominate. Lenses of clay, silt and localised peat may be present. Gravels normally include a high proportion of subangular flint and chert.

The London Clay Formation comprises a blue grey silty clay, which tends to weather to brown near to the upper surface. With depth, the clay becomes very stiff/hard, is frequently fissured and can contain some inclusions and beds of weak mudstone and siltstone.

2.2.2 Mining and Natural Ground Hazards

Table 2. Mining, Natural Ground Subsidence Hazards and Radon Data

Section	Risk Assessment
Coal Mining Affected Areas	In an area that might not be affected by coal mining
Non-Coal Mining Areas of Great Britain	No Hazard
Potential for Collapsible Ground Stability Hazards	Low
Potential for Compressible Ground Stability Hazards	No Hazard Identified

Section	Risk Assessment
Potential for Ground Dissolution Stability Hazards	No Hazard Identified
Potential for Landslide Ground Stability Hazards	Very Low
Potential for Running Sand Ground Stability Hazards	Low
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Low

Screening of the site was also undertaken by Terra Firma for past underground mining hazards and natural ground hazards. The screening report is included in Appendix B.

Based on this initial screen ground stability hazards are known or considered likely to have occurred within the vicinity of the site. The hazards that have been identified are natural ground hazards relating to running sands, collapsible ground and clay subsidence.

It is noted that the screening assessment assigns a generic risk in respect to the underlying geology. Detailed assessment of the geotechnical characteristics of the soils encountered at the site is presented in Section 5 of this report.

2.2.3 Radon

Table 3. Radon

Section	Risk Assessment
Radon Affected Areas	The site is reported to be within an area where between 1% and 3% of properties are above the action level requiring radon gas protection measures to be installed in new buildings.
Radon Protection Measures	No radon protection measures are reported by the British Geological Survey to be necessary in the construction of new dwellings or extensions.

2.2.4 Groundwater Source Protection Zones

The site does not lie within an Environment Agency Source Protection Zone with regard to the protection of the quality of groundwater that is abstracted for potable supply.

2.2.5 Groundwater and Surface Water Abstraction Licences

No groundwater abstraction licences are indicated within 1km of the site.

The closest surface water abstraction licence (spray irrigation) is recorded to lie approximately 816m to the northwest of the site.

2.2.6 Surface Water Features

The nearest recorded significant surface water features are drains, located on site.

2.2.7 Flooding

Areas of the south of the site lie within Environment Agency Flood Zones 2 and 3.

The site lies within an area where the British Geological Survey report the "Potential for Groundwater Flooding to Occur at Surface".

The GeoSmart Groundwater Flood Risk (GW5) Map (GeoSmart, 2018)[2] states that the risk of groundwater flooding at the site is 'low'.

[2] GeoSmart Information Limited, 2018. National Groundwater Flood Risk Map (GW5)

3. GROUND INVESTIGATION

3.1 Introduction

The ground investigation comprised the excavation of a series of dynamic sampler boreholes together with accompanying in-situ geotechnical testing. Gas and groundwater monitoring standpipes were installed in selected exploratory holes across the site, which are subject to ongoing monitoring. The fieldwork was carried out between 26th November and 7th December 2018. The exploratory hole locations are shown on Figure 2.

Descriptions of the strata encountered and comments on groundwater conditions are shown in the exploratory hole records given in Appendix C, together with notes to assist in their interpretation.

3.2 Exploratory Holes

3.2.1 Dynamic Sampler Boreholes

Fifty boreholes, designated WS101 to WS150, were drilled to depths of between 3.0m and 5.0m below ground level.

The boreholes were formed by a series of 1.0m long, open ended, hollow steel tubes of up to 100mm diameter, each containing a removable plastic liner. The tubes, progressively reducing in diameter, were driven into the ground by means of a track-mounted drop weight. Each tube was extracted from the ground using a hydraulically operated jack and the enclosed sample was recovered in its plastic liner.

The system enables sub-samples to be taken for detailed examination and laboratory testing.

3.3 Sampling

Disturbed samples of soil were taken at the depths shown in the exploratory hole records and were collected in plastic bags, plastic tubs or amber jars fitted with gas tight lids.

On collection the amber jars were stored in cool boxes with cooling blocks to maintain temperatures below 4°C until transferred to refrigerators upon return to the office and subsequently forwarded to the external accredited chemical testing laboratory.

3.4 In-situ Testing

The depths of in-situ testing, together with the test results, are either given on the exploratory hole records or are summarised separately in Appendix C.

3.4.1 DPSH Dynamic Probe (Super Heavy) Testing

Continuous dynamic probe tests were undertaken adjacent to each of the boreholes. The tests were conducted to depths of between 3.6m and 5.0m below ground level using a super heavy DPSH-B[3] probing geometry.

[3] As defined by BS EN ISO 22476-2:2005.

The DPSH-B configuration is similar to that of the standard penetration test (SPT); the main differences being that the tip comprises a 90° cone, the driving rods are lighter than those used for SPT testing and the blow counts are recorded over 100mm increments rather than 300mm, as is the case for the SPT.

The blow counts recorded and the calculated dynamic point resistances, which account for inertia of the anvil and driving rods, are presented on the borehole records and separately in Appendix C.

3.4.2 Undrained Shear Strength

Undrained shear strength determinations were made in-situ within the fine-grained soils using a Geonor hand shear vane.

Additionally, undrained shear strength determinations were made within samples of the fine-grained soils held in the dynamic sampler liners using a hand penetrometer.

3.4.3 California Bearing Ratio Tests

Testing to determine the in-situ California Bearing Ratio (CBR) of soils was conducted at shallow depths adjacent to a majority of the boreholes using a Transport Research Laboratory (TRL) cone penetrometer.

3.4.4 Soakage Testing

Falling head soakage tests were undertaken in boreholes WS103, WS105, WS112, WS118, WS120, WS128, WS130, WS137, WS144 and WS149. The tests were carried out in general accordance with Kent County Council guidance[4].

3.5 Installations

Groundwater monitoring standpipes were installed to depths of between 3.5m and 5.0m in six boreholes (WS101, WS114, WS123, WS134, WS135 and WS150). Descriptions of the installations are shown on the exploratory hole records in Appendix C.

Groundwater data loggers were installed within the six standpipes between 26th November and 5th December 2018 and were programmed to collect readings at 15-minute intervals.

An initial download of data from the data loggers was completed on 17th January 2019 and the interim groundwater monitoring results are included within Appendix C. The groundwater monitoring is currently ongoing, and the final results will be issued on completion of the scheduled five month monitoring programme.

3.6 Laboratory Testing

Laboratory testing was scheduled by Ashdown Site Investigation Ltd. Results from the laboratory tests are provided in Appendix D.

[4] The Soakaway Design Guide published by Kent County Council, 2000.

3.6.1 Geotechnical Testing

Geotechnical testing was undertaken by Ashdown Site Investigation Ltd in accordance with the methods given in BS1377[5]. Chemical testing to enable classification of the chemical environment of soils in accordance with BRE SD1[6] was undertaken by an external UKAS accredited laboratory.

3.6.2 Chemical Testing

Chemical testing of selected samples was undertaken by a laboratory with recognised (UKAS and MCERTS) accreditation for quality control.

[5] BS1377:1990 Parts 1 to 8, Methods of test for soils for civil engineering purposes.
[6] BRE Special Digest 1:2005 Concrete in Aggressive Ground.

4. GROUND CONDITIONS

4.1 Stratigraphy

4.1.1 Surface Covering

In general, each of the exploratory holes was excavated through a surface cover of topsoil, typically overlying a horizon of slightly gravelly sandy clay subsoil. The total thickness of this stratum ranged between 100mm and 400mm.

4.1.2 River Terrace Deposits

Underlying the topsoil/subsoil, the investigation progressed into a variable sequence of undisturbed natural soils, predominated by gravelly and/or sandy clay deposits. The clay deposits were found to be variably interbedded with horizons of coarse-grained soils, comprising locally clayey, silty and/or gravelly sands, through to clayey, silty and/or sandy gravels.

These soils, which are considered to represent the River Terrace Deposits indicated on the published geological map, extended to the full depth of the majority of the boreholes (3.0m and 5.0m) and to depth of between 3.30m and 4.00m below ground level within boreholes WS101, WS114, WS123, WS134 and WS135.

The fine-grained soils were typically of stiff consistency, but locally firm and very stiff soils were encountered. The coarse-grained soils were generally of loose to medium dense relative density, locally increasing to dense or very dense relative density.

4.1.3 London Clay Formation

Beneath the River Terrace Deposits, dynamic sampler boreholes WS101, WS114, WS123, WS134 and WS135 encountered generally stiff to very stiff dark grey clay deposits, which continued to the full depth of the investigation.

These soils are considered to represent the London Clay Formation indicated on the published geological map.

4.2 Stability

Instability was recorded locally within the soils encountered, predominately in the coarse-grained soils and likely exacerbated by the presence of groundwater.

4.3 Groundwater Conditions

Groundwater was recorded at the majority of borehole locations during the ground investigation, at depths of between 0.20m and 2.80m below ground level.

Standing water depths of between 0.20m and 1.70m have been recorded to date in the standpipes by the data loggers.

5. GEOTECHNICAL ASSESSMENT

The geotechnical assessment has been prepared in connection with the development proposals shown on the drawing included in Appendix A.

In summary this drawing indicates the proposed development to comprise the construction of new low rise housing and community buildings with associated access roads and parking.

At the time of writing, no details were available concerning the specific loads likely to be applied to the foundations.

5.1 Spread Foundations

5.1.1 Soil Shrinkage/Heave Potential

The fine-grained soils of the River Terrace Deposits have been classified as clays of low to intermediate plasticity and with modified plasticity indices in the range of 9% to 35% the soils may be expected to exhibit a negligible through to medium volume change potential.

It is recommended that the design of precautions against shrinkage and heave for any new foundation system (spread footings and ground beams etc.) should assume a medium volume change potential for the River Terrace Deposits and take into account current guidance such as that given by the Building Research Establishment (BRE)[7] or the National House Builders Council (NHBC)[8].

Whilst this report has been prepared to provide advice to assist designers in undertaking detailed design, the report itself does not represent a detailed design statement. It is recommended that an arboricultural survey of the site should be conducted to establish the species and maturity of the existing trees in the areas of the proposed new buildings. The survey should be extended to include a review of historical photographs and detailed site plans (if available) to establish the species and location of any felled trees that may affect foundation design. The information obtained from the arboricultural survey, information on proposed planting schemes and the findings of this report should be provided to the structural engineer responsible for the detailed design of foundation systems, including assessment of minimum founding depths for spread foundations and requirements for placement of void formers et cetera.

5.1.2 Foundation Depths for Spread Foundations

Foundations should be constructed so as to bear below soils that are likely to be affected by significant soil volume changes caused by seasonal changes in moisture content in order to avoid damage to foundations that could otherwise arise. New footings should be constructed so as to bear below any disturbed soils and soil subject to seasonal soil volume changes, whichever is the deeper, and onto undisturbed, competent, natural deposits.

Summary guidance on suitable minimum foundation depths to protect against the effects of seasonal soil volume changes is presented in the table below but designers undertaking detailed design of foundations should follow the detailed guidance provided within Chapter 4.2 of the NHBC Standards.

[7] www.bre.co.uk : BRE Digests 240, 241 and 242, Low rise buildings on shrinkable clay soils, parts 1, 2 and 3; and BRE Digest 298 , The influence of trees on house foundations in clay soils and BRE Digest 412, Desiccation in clay soils.
[8] http://www.nhbc.co.uk/ : NHBC Standards, Chapter 4.2.

Table 4. Indicative Minimum Foundation Depths

Tree Type	Water Demand of Tree	Tree Distance to Tree Height Ratio (D/H)									
		0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.80	1.00	1.25
		Minimum Foundation Depth Required in Medium Volume Change Potential Soils (m)									
Broad Leaf	High	†			2.50	2.35	2.20	2.00	1.70	1.35	0.90*
	Moderate	2.00	1.85	1.70	1.60	1.45	1.30	1.15	0.90*	0.90*	0.90*
	Low	1.50	1.40	1.30	1.15	1.05	0.90*	0.90*	0.90*	0.90*	0.90*
Coniferous	High	†		2.30	1.95	1.60	1.25	0.90*	0.90*	0.90*	0.90*
	Moderate	2.00	1.70	1.40	1.10	0.90*	0.90*	0.90	0.90*	0.90*	0.90*

* Minimum foundation depth required to protect against soil volume changes.
† Foundations deeper than 2.50m require specialist design to protect against soil volume changes.

Details on the water demand and mature height of common trees is given within Table 3 of Chapter 4.2 of the NHBC standards which should be referred to when assessing minimum foundation depths required for the proposed development. A summary is provided in the table below.

Table 5. Indicative Summary of Water Demand and Mature Height of Common Trees

Tree Type	High Water Demand		Moderate Water Demand		Low Water Demand	
	Tree	Height (m)	Tree	Height (m)	Tree	Height (m)
Broad Leaf	Elm	18 – 24*	Acacia	18	Birch	14
	Oak	16 – 24*	Alder	18	Elder	10
	Poplar	15 – 28*	Apple	10	Fig	8
	Willow	16 – 24*	Ash	11 – 23*	Hazel	8
	Eucalyptus	18	Laurel	10	Holly	12
	Hawthorn	10	Beech	20	Honey Locust	14
			Blackthorn	8	Hornbeam	17
			Cherry	8 – 17*	Laburnum	12
			Chestnut	20 – 24*	Magnolia	9
			Lime	22	Mulberry	9
			Maple	8 – 18*	Tulip Tree	20
			Pear	12		
			Plane	26		
			Plum	10		
			Sycamore	22		
			Tree of Heaven	20		
			Walnut	18		
			Whitebeam	12		
Coniferous	Cypress	18 – 20*	Cedar	20		
			Douglas Fir	20		

Tree Type	High Water Demand		Moderate Water Demand		Low Water Demand	
	Tree	Height (m)	Tree	Height (m)	Tree	Height (m)
			Larch	20		
			Monkey Puzzle	18		
			Pine	20		
			Spruce	18		
			Wellingtonia	30		
			Yew	12		

* Dependent on particular species.

5.1.3 Bearing Capacity for Spread Foundations

For design purposes, a net allowable bearing capacity of 100kN/m^2 may be assumed for spread (pad or strip) foundations up to 1.0m across bearing within the River Terrace Deposits of at least firm consistency or loose relative density. An increased bearing capacity of 150kN/m^2 may be adopted where foundations are constructed to bear solely on soils of at least stiff consistency or medium dense relative density. The quoted bearing capacities are expected to limit settlement to less than 25mm.

Attention is drawn to the presence of interbedded fine-grained soils and coarse-grained soils beneath the site. As there is the potential for mixed soil conditions to be present beneath footings, designers should consider the need for foundations to be reinforced due to the potential for differential cracking to develop as a result of coarse-grained and fine-grained soils settling at different rates under loading.

5.2 Groundwater

Standing water depths between 0.20m and 1.70m below ground level have been recorded to date within the standpipes by the dataloggers.

Where excavations are proposed to extend below the groundwater, particularly within coarse-grained soils, groundwater control will be required to maintain adequately dry working conditions and excavation stability.

It is expected that pumping from sumps would be sufficient to control groundwater in excavations extending a shallow depth beneath the groundwater table. Where deeper excavations are required, it is recommended that trial pumping from proposed formation depths should be undertaken in advance of detailed design to fully establish requirements for groundwater control at this site.

5.3 Stability of Excavations

All disturbed or coarse-grained natural soils exposed in excavations should be assumed to be unstable, even in the short term, particularly where excavations extend beneath the groundwater table. Whilst fine-grained natural soils may remain stable for a short period of time if not subjected to surcharge loads (such as may be imposed by existing foundations, traffic or storage of materials), the stability of these deposits if left unsupported should be assumed to have the potential to deteriorate. Where stable excavations are required, excavations should either be suitably supported or side slopes should be battered back to a safe angle of repose.

All excavations requiring human entry must be shored or battered as necessary to conform to current best practice, as accepted by the Health and Safety Executive (HSE)[9]. Current legislation requires that where personnel access is required into any excavation a competent person must inspect excavation supports or battering of slopes at the start of the working shift and at other specified times. No work should take place until the excavation is safe. Excavations should also be inspected after any event that may have affected their stability, such as a significant weather event, changes in surcharge loadings imposed by temporary storage of materials or changes in site traffic plans or alteration of support systems. Inspections should be formally recorded and any faults that are found should be corrected immediately.

5.4 Aggressivity to Concrete

The aggressivity of the soils to concrete has been assessed in accordance with guidance published by the BRE[10].

In view of the soils encountered beneath the site and the agricultural setting of the site, it is considered that 'natural ground conditions' may be assumed for the purpose of assessing the aggressivity of the chemical environment for concrete classification (ACEC class). Given the noted presence of groundwater, 'mobile groundwater' conditions should be assumed.

Assessment of the chemical analysis of the soil indicates a sulphate content falling into Design Sulfate Class DS-1 of Table C1. The results of the pH tests indicate that the underlying soils are generally neutral.

In accordance with the digest, a DS-1 Design Sulfate Class and an AC-1 ACEC classification should be assumed as a minimum for the design of concrete in contact with the ground.

5.5 Ground Floors

In view of the presence of soils of up to medium volume change potential underlying the site, it is recommended that ground floors should be suspended.

Current guidance[11] suggests that ground bearing floor slabs may, however, be considered where the depth of foundations required to protect against seasonal soil volume changes close to trees is less than 1.5m. In such circumstances further works should be undertaken to demonstrate, that close to the time of construction, no significant soil desiccation is present. If ground bearing floors are adopted it is recommended that the potential for differential movement, both between the floor slab and walls and across the floor slab itself, should be anticipated. Such floors should be fully debonded from walls. Formations should be adequately proof rolled and any excessively soft materials excavated and replaced with a suitable, well graded granular fill. The depth of any fill should be limited to a maximum of 600mm unless placed to an engineering specification designed to limit internal settlement of the fill materials to a tolerance to be advised by the designer.

The detailing of services through, or under, ground-bearing floors should incorporate flexible connections and, where appropriate, enhanced falls.

[9] Relevant guidance is given on the HSE website, www.hse.gov.uk
[10] BRE Special Digest 1:2005 Concrete in Aggressive Ground.
[11] http://www.nhbc.co.uk/ : NHBC Standards, Chapter 4.2.

5.6 Pavement Design

Cone penetrometer tests undertaken to establish the California bearing ratio (CBR) of the in-situ soils indicated CBR values ranging between 2% and >50% but typically in the range 2% to 10% in the underlying River Terrace Deposits at the time of the investigation. It is noted that CBR values are, in part, dependent on the moisture content of the tested soils and are consequently subject to seasonal variation.

Equilibrium CBR values are derived from knowledge of soil classification data (plasticity index for soils exhibiting cohesion (clay type) and particle size distribution for granular soils) and pavement thickness. Guidance[12] suggests a design equilibrium CBR value of 1.0% to 4.0% would be applicable to the natural soils for the construction of thin pavement (300mm).

Based upon review of the in-situ and laboratory test results and the quoted guidance it is recommended that, for the fine-grained River Terrace deposits, a CBR value of no greater than 3% should be adopted for preliminary pavement design. Where the coarse-grained soils of the River Terrace deposits are present at formation level a CBR value of 20% may be assumed, providing the soils at formation level are appropriately compacted.

All formations should be proof rolled and any excessively large, soft, degradable or otherwise unsuitable materials thus identified should be removed and be replaced with well compacted coarse-grained fill. Prepared subgrades should be protected from severe adverse weather by ensuring they are graded to falls to prevent ponding, and they should be reasonably protected from trafficking during construction.

The subgrade may be assumed not to be susceptible to frost heave.

If new roads are to be adopted the local highway authority should be consulted with reference to the acceptability of the proposed CBR figures prior to designs being finalised and construction undertaken.

5.7 Stormwater Infiltration Systems

In-situ infiltration testing[13] was undertaken in boreholes WS103, WS105, WS112, WS118, WS120, WS128, WS130, WS137, WS144. The tests were carried out in general accordance with Kent County Council guidance[14]. From the test results, calculations were made to estimate the infiltration rate that could be expected for soakaways constructed to discharge into the underlying soils within the test zone.

The infiltration rates derived from the tests are summarised in the following table.

[12] Highways England Design Manual for Roads and Bridges Interim Advice Note 73/06; Draft HD25
[13] Conducted in accordance with The Soakaway Design Guide, published by Kent County Council, July 2000.
[14] The Soakaway Design Guide published by Kent County Council, 2000.

Table 6. Calculated Infiltration Rates

Exploratory Hole	Test Response Zone Depth (m)		Stratum	Infiltration Rate (f) (m/sec)	Driving Head of Water (m)
	Top	Bottom			
WS103	2.00	3.00	River Terrace Deposits	4.2×10^{-5}	1.0
WS105 Test 1	2.00	3.00	River Terrace Deposits	3.7×10^{-5}	1.0
WS105 Test 2	2.00	3.00	River Terrace Deposits	3.0×10^{-5}	1.0
WS112	2.00	3.00	River Terrace Deposits	Negligible	-
WS118	2.00	3.00	River Terrace Deposits	Negligible	-
WS120 Test 1	2.00	3.00	River Terrace Deposits	2.5×10^{-4}	1.0
WS120 Test 2	2.00	3.00	River Terrace Deposits	2.8×10^{-4}	1.0
WS128	2.00	3.00	River Terrace Deposits	3.2×10^{-6}	1.0
WS130	2.00	3.00	River Terrace Deposits	6.2×10^{-6}	0.25
				Negligible	0.25
WS137	2.00	3.00	River Terrace Deposits	Negligible	-
WS144	2.00	3.00	River Terrace Deposits	Negligible	-
WS149	2.00	3.00	River Terrace Deposits	1.5×10^{-6}	1.0

The value 'f' is equivalent to the soil infiltration coefficient 'q' quoted in the Construction Industry Research and Information Association (CIRIA) Report 156.

The results from the infiltration tests indicate that the River Terrace Deposits possess negligible to moderate infiltration characteristics. The results from the infiltration tests should be provided to engineers responsible for the design of the drainage strategy for the site.

Whilst it is expected that the infiltration tests conducted to date will be sufficient to enable development of a drainage strategy for the site and preliminary design of soakaways, it should be noted that Regulators/Local Authorities and/or warrantors may require further testing to be undertaken at a later stage in accordance with the BRE365 guidance[15]. This guidance states the testing should be carried out at the locations and depths of the proposed soakaways, which will not be known until the drainage strategy has been developed, and also above the water table which also will not be known until the winter groundwater monitoring programme has been completed. It would therefore be prudent to allow for such detailed testing at a later stage within the design/construction programme for the development.

In developing the drainage strategy for the site, it should be noted that to comply with building regulations[16] point discharging infiltration systems (conventional ring or trench soakaways) are required to be constructed a minimum of 5.0m away from proposed or existing buildings.

In the event that discharge to ground via infiltration systems is proposed, it is recommended that designers of the system provide for the prevention of pollution of groundwater. In this regard due consideration should be given to guidance provided within BRE 365 and by the Environment Agency. Attention is drawn to the assessment of risk posed to groundwater discussed under Section 6 of this report which concludes that the soils at the site are unlikely to pose a significant risk to groundwater.

[15] Section 3.2.3 of Building Research Establishment (BRE) Digest 365, 2016.
[16] The Building Regulations 2010; Part H; Drainage and Waste Disposal

Appropriate consideration should also be given to whether there is a need for inclusion of interceptors and oil separators. The Local Authority and/or relevant water company should be consulted in relation to consent for discharge of water from rooftops, areas of hardstanding and roadways to drains.

6. GROUND CONTAMINATION STATUS

At the time of preparation of this report, it is understood that no specific planning conditions for the proposed development in respect of contaminated land have been imposed by the local authority.

A detailed ground contamination risk assessment of the site was beyond the scope of this investigation. However, historical map and geo-environmental data sets pertaining to the site have been reviewed and laboratory contamination testing of a nominal number of near surface samples has been undertaken, the results of which have been compared with generic soil screening values to provide an indication of the current contamination status of the site, and to provide information on whether further assessment and/or remediation is likely to be required by warrantors.

6.1 Historical Map and Environmental Data

Historical Ordnance Survey maps and geo-environmental data sets covering the area of the site have been reviewed. It is noted that each historical map presents information applicable at the time of the survey (or revision date) and is subject to surveying and cartographic errors and/or advances. Revisions to maps are made at irregular intervals and it is possible that significant developments may have taken place on or within the vicinity of the site that have not been revealed by the historical maps.

Significant details depicted on the maps and geo-environmental data sets are identified in the following table.

Table 7. Summary of Environmental Data and Historical Maps

Section	ASI Summary and assessment
Historical Maps	The earliest available mapping (1880) shows the entire site and surrounding area to comprise open fields and the site appears to have remained undeveloped to the current day. Residential housing is shown beyond Pagham Road to the east from the 1930's onwards. A very small Engineering Works is shown ~75m to the north of the site from the 1970's mapping onwards.
Envirocheck Report	The waste, hazardous substance and industrial land use data has been reviewed and none of the entries within this section are considered to pose a significant risk to the site.

The data review has not identified any significant potential contamination sources likely to impact the site.

6.2 Preliminary Contamination Test Results

Twenty samples of the near surface soils were tested for concentrations of a range of heavy metals, polycyclic aromatic hydrocarbons (PAH) compounds, petroleum hydrocarbons and asbestos. The results have been compared against published generic soil screening values (where available) for a residential end use.

None of the samples tested recorded individual contaminant concentrations above the published screening values relevant to the proposed end use. No asbestos was detected within any of the samples screened.

6.2.1 Potential Risk to Groundwater

At the concentrations recorded, none of the contaminants tested for would be expected to exhibit any significant mobility and would not be considered to pose a significant risk to controlled waters.

6.3 Handling and Disposal of Waste

6.3.1 Waste Management – Legislative Framework

Waste is defined as "any substance or object which the holder discards or intends to discard"[17]. Soils excavated during construction works are therefore generally considered to be waste[18].

If a material is waste then an Environmental Permit[19] will be required to lawfully deposit or re-use the material unless it is "uncontaminated soil and other naturally occurring material excavated in the course of construction activities where it is certain that the material will be used for the purposes of construction in its natural state on the site from which it was excavated". Such materials are excluded from the Waste Framework Directive (WFD).

Guidance published by CL:AIRE[20] provides a framework for demonstrating how excavated materials arising from development sites may be considered as non-waste and can therefore be re-used on their site of origin, or elsewhere.

Soils and other materials taken for disposal should be handled, transferred and disposed of as controlled waste in accordance with current waste management[21,22] and duty of care regulations[23] and comply with current codes of practice[24]. Waste transfer notes detailing the site address, the waste type, details of the haulage contractor and full details of the disposal site must be kept by the waste producer.

Specifically, the disposal of any asbestos containing materials should be undertaken by appropriately trained personnel. The disposal of such material and other hazardous waste should be undertaken in accordance with the Hazardous Waste Regulations 2005[25].

6.3.2 Waste Classification

It is a legal requirement (as discussed within the Waste Duty of Care Code of Practice) to correctly assess and classify waste. Characterisation of the waste in full accordance with current guidance[26] was beyond the scope of this assessment.

However, analysis of the results of the laboratory testing was undertaken using the HazWasteOnline™[27] tool.

[17] 2008 Waste Framework Directive (Directive 2008/98/EC)
[18] Guidance on the legal definition of waste and its application, Environment Agency, 2012 https://www.gov.uk/government/publications/legal-definition-of-waste-guidance/decide-if-a-material-is-waste-or-not
[19] Environmental Permitting (England and Wales) Regulations 2010
[20] CL:AIRE, The Definition of Waste: Development Industry Code of Practice, Version 2, March 2011
[21] The Waste (England and Wales) Regulation 2011
[22] Section 34, Environmental Protection Act 1990
[23] The Environmental Protection (Duty of Care) Regulations 1991
[24] Waste Duty of Care Code of Practice, Dept. for Environment Food & Rural Affairs, March 2016
[25] Hazardous Waste (England and Wales) Regulations 2005
[26] As discussed in BS EN 14899:2005 Characterisation of waste
[27] https://www.hazwasteonline.com/

The HazwasteOnline tool classifies soils in accordance with European Waste Catalogue (2002) following guidance published by the Environment Agency (WM3) [28].

The output sheets generated by the tool are presented in Appendix E.

The following table summarises the classification of soils tested and the code from the List of Wastes (LoW).

Table 8. Summary of Classification of Samples from HazWasteOnline Analysis

Exploratory Hole Location	Sample Depth (m bgl)	Strata	Classification	Code from LoW
WS104	0.80	River Terrace Deposits	Non Hazardous	17-05-04
WS105	0.05	Topsoil	Non Hazardous	17-05-04
WS107	0.80	River Terrace Deposits	Non Hazardous	17-05-04
WS110	0.05	Topsoil	Non Hazardous	17-05-04
WS112	0.15	Subsoil	Non Hazardous	17-05-04
WS114	0.70	River Terrace Deposits	Non Hazardous	17-05-04
WS117	0.50	River Terrace Deposits	Non Hazardous	17-05-04
WS118	0.60	River Terrace Deposits	Non Hazardous	17-05-04
WS119	0.10	Subsoil	Non Hazardous	17-05-04
WS123	0.15	Topsoil	Non Hazardous	17-05-04
WS125	0.10	Topsoil	Non Hazardous	17-05-04
WS127	0.80	River Terrace Deposits	Non Hazardous	17-05-04
WS128	0.10	Topsoil	Non Hazardous	17-05-04
WS134	0.60	River Terrace Deposits	Non Hazardous	17-05-04
WS135	0.60	River Terrace Deposits	Non Hazardous	17-05-04
WS136	0.05	Topsoil	Non Hazardous	17-05-04
WS142	0.60	River Terrace Deposits	Non Hazardous	17-05-04
WS143	0.05	Topsoil	Non Hazardous	17-05-04
WS147	0.60	River Terrace Deposits	Non Hazardous	17-05-04
WS148	0.05	Topsoil	Non Hazardous	17-05-04

All of the samples tested have been classified as non-hazardous construction and demolition waste, with a code from the List of Wastes (LoW) of 17-05-04.

6.3.3 Waste Acceptance Criteria (WAC) Testing

As specified in WM3: "Landfill WAC analysis (specifically leaching test results) must **not** be used for waste classification and hazardous waste assessment purposes." Environment Agency guidance[29] states "Before a waste can be accepted at a landfill site, the operator must be satisfied that the waste meets his *(sic)* permit conditions, the waste acceptance procedures and waste

[28] Technical Guidance WM3: Waste Classification – Guidance on the assessment of waste, 1st Edition v1.1, May 2018
[29] Waste acceptance at landfills, November 2010

acceptance criteria." Figure 1 and 2 of the guidance show the stages in the assessment of waste for disposal by landfill, including WAC testing.

The WAC testing undertaken indicates that the soils tested should be suitable for disposal at a landfill licensed to accept inert waste.

It is noted that the disposal site has the final decision on whether to accept any materials and we would recommend that all the testing and classification information be provided to them at the earliest opportunity.

Ashdown Site Investigation Ltd.

FIGURES

Figure 1 Site Location Plan
Figure 2 Site Plan



© OpenStreetMap contributors, CC BY-SA

ASHDOWN SITE INVESTIGATION LIMITED	Site: Land South of Summer Lane, Pagham, West Sussex	Site Location Plan. Not To Scale	Figure 1 R18-13402

N

WS101
WS102
WS103
WS104
WS105
WS106
WS107
WS108
WS109
WS110
WS111
WS112
WS113
WS114
WS115
WS116
WS117
WS118
WS119
WS120
WS121
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WS145
WS146
WS147
WS148
WS149
WS150

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Unit 3
The Old Grain Store
Ditchling Common Business Park
Ditchling
West Sussex
BN6 8SG
01273 483119
contact@ashdownsi.co.uk

Site:

Land South of Summer Lane
Pagham
West Sussex

Report Ref:

R18-13402

Figure No.

2

Drawing Title

Site Plan

Scale

1:2500

APPENDIX A

Proposed Development Layout

N

Pond

Pond

Drain

LAP

LAP

LEAP

Church Barton House

Drain

Drain

LAP

Shipwrong Barn

LAP

LAP

LEAP

LAP

LAP

NEAP

LAP

25m

100m

0m

On behalf of:

HANBURY PROPERTIES

Produced by:

DAVIESLANDSCAPE ARCHITECTS

Suite F1, Stroud House, Russell Street, Stroud, Gloucestershire, GI5 3AN

t: 01453 760380 e: info@d-la.co.uk w: www.d-la.co.uk

PROJECT:

Proposed Mixed Use Development at Pagham South

DRAWING TITLE:

Illustrative Masterplan

DATE: December 2016 SCALE: 1:2500@A3

REPORT REFERENCE: DLA.1731.L003.05

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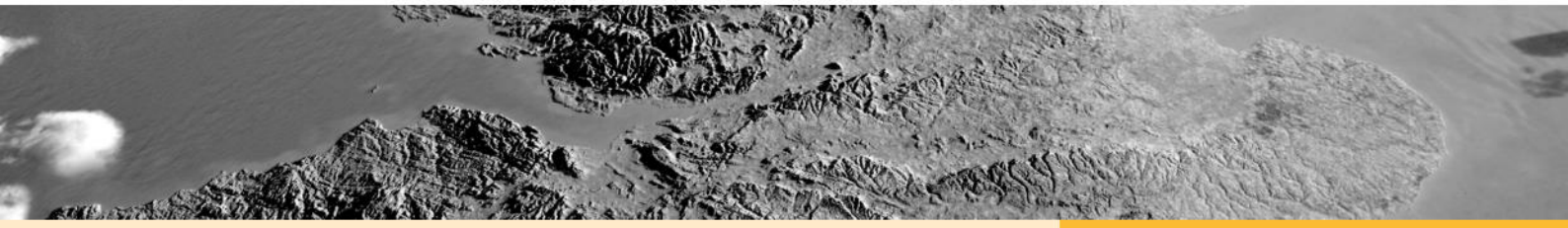
V:\Server DATA\1731 Pagham Phase 2\Landscape\Drawings\Planning\L003.05 - Illustrative Masterplan.CDR

APPENDIX B

Terra Firma TerraSearch Report

Hazard Alert

TERRA FIRMA



Ground stability hazards are known or considered likely to have occurred within the vicinity of the Site (property and land). The ground hazards outlined below have been identified.

Identified

Terrafirma Ground Report required

Date: 22/11/2018

Property:
Pagham South, , Chichester, West Sussex,

Your Search Reference:
71145.03

Terrafirma Reference:
TFC20181122100214-231943

Past underground mining hazard results

Coal	Not Identified
Rare minerals	Not Identified
Metalliferous Inc. Tin	Not Identified
Clay Inc. China and Ball	Not Identified
Stone Inc. Limestone	Not Identified
Evaporites Inc. Cheshire Brine	Not Identified

Natural ground hazards results

Running sands	Identified
Soluble rocks	Not Identified
Collapsible ground	Identified
Compressible ground	Not Identified
Clay subsidence	Identified
Landslip	Not Identified

NEXT STEPS

The Terrafirma Ground Report is an expert desktop assessment by an experienced geologist, including a professional opinion of the risk of instability from all natural and mining ground hazards. The report includes terms and conditions backed by £10 million professional indemnity per report.

This notice is based upon the TerraSearch® Hazard Alert information service and is not to be used in a property transaction as evidence of natural or mining-related ground instability.

This alert is not covered by TerraSearch® terms and conditions and is to be used solely for the purpose of highlighting an instability risk that may impact the completion, value or quiet enjoyment of a property. Further professional opinion is required to assess any such impact.

No liability will be held by Terrafirma to any persons not party to the commissioning of this Hazard Alert.

APPENDIX C

Exploratory Hole Notes
Exploratory Hole Records
DPSH-B Dynamic Probe Records
Summary of In-situ TRL Cone Penetrometer (CBR) Test Results
Summary of Borehole Falling Head Soakage Test Results
Groundwater Monitoring Results

NOTES FOR THE INTERPRETATION OF EXPLORATORY HOLE RECORDS

1 Symbols and abbreviations

Samples

U 'Undisturbed' Sample: - 100mm diameter by 450mm long. The number of blows to drive in the sampling tube is shown after the test index letter in the SPT column.
Uo Sample not obtained.
U* Full penetration of sample not obtained.
Pi Piston Sample: 'Undisturbed' sample 100mm diameter by 600mm long.
D Disturbed Sample.
R Root Sample.
B Bulk Disturbed Sample.
W Water Sample.
J Jar Sample (sample taken in amber glass jar fitted with gas tight lid)
T Tub Sample
Vi Vial Sample

In situ Testing

S Standard penetration test (SPT): Using the split spoon sampler.

C Standard Penetration Test (SPT): using a solid cone instead of the sampler - conducted usually in coarse grained soils or weak rocks.

V Shear Vane Test: Undrained shear strength (cohesion) (kN/m^2) shown within the Vane/Pen Test and N Value column.

H Hand penetrometer Test: Undrained shear strength (cohesion) (kN/m^2) shown within the Vane/Pen Test and N Value column.

P Perth Penetrometer Test: Number of blows for 300mm penetration shown under Vane/Pen Test and N Value column.

Excavation Method

CP Cable Percussion Borehole
WLS Dynamic Sampler Borehole using windowless sampler tubes
WS Dynamic Sampler Borehole using window sampler tubes
TP Trial Pit excavated using mechanic excavator
HDP Trial Pit excavated using hand tools

2 Soil Description

Description and classification of soils has been carried out using as a general basis the British Standard Geotechnical investigation and testing – Identification and classification of soil, Part 1 Identification and description (BS EN ISO 14688-1:2002+A1:2013) and Part 2 Principles of classification (BS EN 14688-2:2004+A1:2013) as well as the BS5930:2015 code of Practice for Ground Investigations.

3 Rock Description

Description and classification of rocks has been carried out using as a general basis the British Standard Geotechnical investigation and testing – Identification and classification of rock, Part 1 Identification and classification (BS EN ISO 14689-1:2003) as well as the BS5930:2015 code of Practice for Ground Investigations. TCR – Total Core Recovery, SCR – Solid Core Recovery, RQD – Rock Quality Designation, NI – Non Intact, If – indicative fracture spacing (min/ave/max), FI – Fracture Index.

4 Chalk Description

Chalk description is based on BS EN ISO 14688, BS EN ISO 14689 and BS5930. The classification of chalk generally follows the guidance offered by the Construction Industry Research and Information Association (CIRIA) C574, 'Engineering in Chalk'. This is based on assessment of chalk density, discontinuity and aperture spacing, and the proportion of intact chalk to silt of chalk. See additional chalk classification notes.

ASHDOWN SITE INVESTIGATION

[redacted]

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 26/11/2018

End Date: 26/11/2018

Borehole Number: **WS101** Sheet 1 of 1

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
							0.20	Stiff to very stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse occasional flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		170				
	J T	0.60						
	H	0.60		170				
	H	0.80		170				
	V	1.00		>130				
	D	1.20						becoming gravelly between 1.20m and 1.25m depth.
	H	1.20		140				
	H	1.40		170				
	D	1.80					1.70	Medium dense to dense yellow orange brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	V	2.00		>130			2.00	Dense becoming medium dense brown very sandy angular to rounded fine to coarse GRAVEL of flint. Sand is fine to coarse. (River Terrace Deposits)
	D	2.20						
	H	2.40		140			2.40	Stiff brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	2.60		140				
	D	2.80						
	H	2.80		140				
	D	3.50						
	H	3.50		225				
	H	4.20		225			3.80	Stiff dark grey CLAY. (London Clay Formation)
	H	4.40		195				
	D	4.50						
	H	4.60		225				
							5.00	End of borehole at 5.00m

Remarks

Groundwater: Standing water depth at 2.80m on completion.

Stability: n/a

Notes: Standpipe installed to 5.00m depth; 5.00m to 2.00m slotted pipe with gravel surround; 2.00m to ground level plain pipe with bentonite seal; completed with end cap and security cover concreted flush with ground surface.

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 26/11/2018

End Date: 26/11/2018

Borehole Number: **WS102**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
	D	0.50					0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium occasional flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		115				
	J T	0.75						
	H	0.80		195				
	H	0.90		195				
	V	1.00		120			1.00	Loose orange brown gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	1.20					1.30	Stiff to very stiff orange brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint and siltstone. Sand is fine to coarse. (River Terrace Deposits)
	H	1.50		195				
	D	1.60						
	H	1.80		195				
	V	2.00		>130				becoming slightly gravelly and brown orange below 2.00m depth.
	H	2.20		115				
	D	2.50						
	H	2.50		100				
	H	2.80		100				
	V	3.00		110			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.80m on completion.

Stability: Borehole collapsed to 2.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 26/11/2018

End Date: 26/11/2018

Borehole Number: **WS103**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
							0.20	Stiff brown and orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse occasional flint. (River Terrace Deposits)
	D	0.50						
	H	0.50		170				
	J T	0.60						
	H	0.75		115				
	H	0.80		100				
	V	1.00		>130				
	D	1.20						
	H	1.20		115				
							1.40	
	D	1.50						Medium dense orange brown gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
							1.60	Firm to stiff orange brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint and fine chalk. Sand is fine to coarse. (River Terrace Deposits)
	D	1.80						
	H	1.80		115				
	V	2.00		>130				
	D	2.20						
	H	2.25		140				
							2.80	Stiff brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	2.90						
	H	2.90		100			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.60m on completion.

Stability: Borehole collapsed to 2.75m on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 26/11/2018

End Date: 26/11/2018

Borehole Number: **WS104**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
							0.25	Stiff brown to orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium occasional flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		115				
	H	0.60		140				
	H	0.80		155				
	J T	0.80						
	V	1.00		>130			1.00	Loose to medium dense orange brown very gravelly slightly clayey fine to coarse SAND. Gravel is angular to subangular fine to coarse flint and occasional chalk. (River Terrace Deposits)
	D	1.20						
	D	1.80					1.70	Firm orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse flint. (River Terrace Deposits)
	H	1.80		90				
	V	2.00		>130			2.00	Stiff grey brown CLAY. (River Terrace Deposits)
	H	2.20		90				
	D	2.50						
	H	2.50		115				becoming very sandy and light grey below 2.60m depth.
	H	2.80		90				
	V	3.00		95			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.45m on completion.

Stability: Borehole collapsed to 2.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 27/11/2018

End Date: 27/11/2018

Borehole Number: **WS105**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium occasional flint. Sand is fine to coarse. (Subsoil)
	D	0.50					0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse rare flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		140				
	J T	0.60						
	H	0.60		140				
	H	0.80		140				
	V	1.00		>130				
	H	1.10		115				
	D	1.30					1.20	Medium dense orange brown gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse flint. (River Terrace Deposits)
	H	1.60		170			1.50	Stiff orange brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits) becoming very gravelly between 1.70m and 1.80m depth.
	D	1.80						
	H	1.80		115				
	V	2.00		>130			2.00	Medium dense to dense light brown sandy angular to subrounded fine to coarse GRAVEL of flint. Sand is fine to coarse. (River Terrace Deposits)
	D	2.20					2.70	Firm to stiff brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	2.90						
	H	2.90		90			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.00m on completion.

Stability: Borehole collapsed to 2.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 27/11/2018

End Date: 27/11/2018

Borehole Number: **WS106**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
							0.20	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.60						
	H	0.60		115				
	H	0.80		115				
	V	1.00		>130				
	D	1.30						
	H	1.40		90			1.40	Dense orange brown sandy angular to subrounded fine to coarse GRAVEL of flint. Sand is fine to coarse. (River Terrace Deposits)
	D	1.80					1.70	Stiff brown and orange brown gravelly sandy CLAY. Gravel angular to subangular fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	1.80		140				
	V	2.00		>130				
	D	2.20						
	H	2.60		170			2.50	Stiff brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse flint. (River Terrace Deposits)
	D	2.80						
	H	2.80		100				
	V	3.00		110			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.70m on completion.

Stability: Borehole collapsed to 2.85m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 27/11/2018

End Date: 27/11/2018

Borehole Number: **WS107**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
	H	0.30		115			0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		115				
	J T	0.80						
	H	0.80		140				
	V	1.00		>130				
	D	1.20						
	H	1.20		140				
	H	1.40		115				
	D	1.80					1.60	Loose to medium dense yellow orange fine to coarse SAND. (River Terrace Deposits)
	H	2.20		90			2.10	Firm to stiff brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	2.50						
	H	2.50		115				
	H	2.80		90				
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water at 2.40m depth on completion of borehole.

Stability: Borehole collapsed to 2.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

[redacted]

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 27/11/2018

End Date: 27/11/2018

Borehole Number: **WS108**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.10					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
	J T	0.20					0.25	Stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	0.50						
	H	0.50		90				
	J T	0.60						
	H	0.80		115				
	V	1.00		>130				
	D	1.20						
	H	1.20		155				
	H	1.40		155				
	H	1.60		90				becoming sandy to very sandy CLAY below 1.60m depth.
	D	2.50						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.20m depth on completion.

Stability: Borehole collapsed to 2.40m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

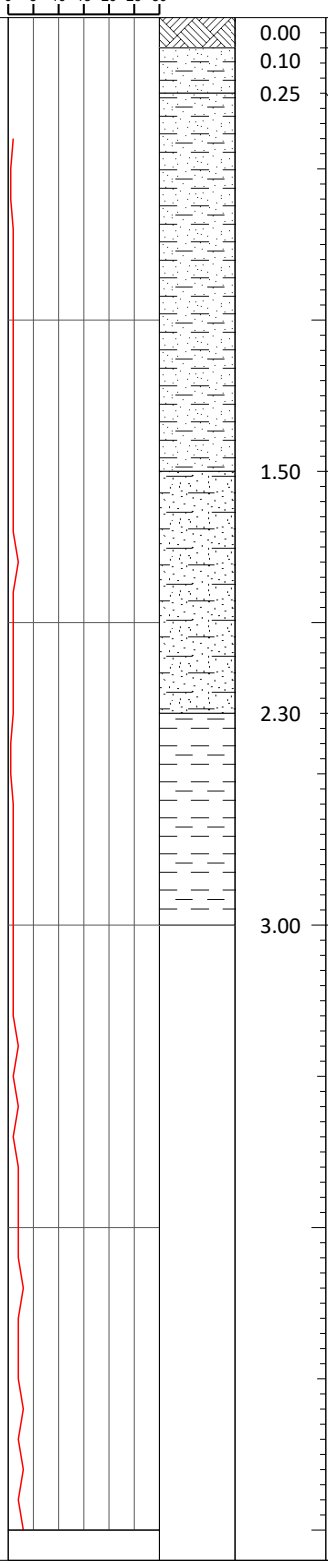
Job Number: R18-13402

Start Date: 27/11/2018

End Date: 27/11/2018

Borehole Number: **WS109**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
							0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	0.50						
	H	0.50		115				
	J T	0.70						
	H	0.80		115				
	V	1.00		125				
	D	1.20						
	H	1.20		140				
	H	1.40		115				
							1.50	Loose yellow orange clayey fine to coarse SAND. (River Terrace Deposits)
	D	1.80						
	V	2.00		>130				becoming gravelly between 2.00m and 2.20m depth.
							2.30	Stiff brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	2.50						
	H	2.50		140				
	H	2.80		90				
	V	3.00		120			3.00	End of borehole at 3.00m



Remarks

Groundwater: Standing water depth at 2.50m on completion.

Stability: Borehole collapsed to 2.70m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 27/11/2018

End Date: 27/11/2018

Borehole Number: **WS110**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
							0.20	Firm to stiff orange brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.50						
	H	0.50		115				
	H	0.80		115				
	V	1.00		>130				becoming slightly gravelly below 1.00m depth. Gravel is angular to subrounded fine to coarse flint.
	D	1.20						
	H	1.20		115				
	H	1.40		60				becoming stiff below 1.50m depth.
								becoming sandy below 1.70m depth.
	D	1.80						
	H	2.00		115				
	V	2.00		>130				
	D	2.20						
	H	2.20		140				
	H	2.60		170				becoming brown mottled orange and slightly sandy below 2.50m depth.
	D	2.80						
	V	3.00		105			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.30m on completion.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 08/11/2018

Borehole Number: **WS111**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Depth	Stratum Description
	J T	0.05			0.00	Topsoil.
	J T	0.20			0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
					0.25	Stiff orange brown and grey slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		195		
	D	0.60				
	H	0.60		195		
	J T	0.80				
	H	0.80		195		
	V	1.00		>130		becoming grey brown and sandy below 1.00m depth.
	D	1.20				
	H	1.20		195		
	H	1.40		170		
	H	1.60		195		
	D	1.80				
	H	1.80		195		
	V	2.00		>130	2.00	Loose to medium dense yellow light brown gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	2.20			2.30	Stiff brown to orange brown sandy CLAY. (River Terrace Deposits)
	H	2.50		100		
	D	2.80				
	H	2.80		115		becoming dark grey below 2.90m depth.
	V	3.00		110	3.00	End of borehole at 3.00m

Samples and In Situ Testing

Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30

Legend

Remarks

Groundwater: Standing water depth at 1.80m on completion.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS112**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.20	Stiff brown orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		115				
	J T	0.60						
	H	0.60		140				
	H	0.80		195				becoming slightly gravelly below 0.80m depth. Gravel is angular to subrounded fine to coarse flint.
	V	1.00		>130				
	D	1.20						
	H	1.20		170				
	H	1.40		100				
	H	1.45		140			1.50	Medium dense to dense grey yellow gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	1.80						
	D	2.50						becoming very gravelly and dark orange below 2.30m depth. Gravel is angular to subrounded fine to coarse flint, chalk and shells.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.00m on completion.

Stability: Borehole collapsed to 2.80m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS113**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.20					0.15	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.25	Stiff brown orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		90				
	J T	0.70						
	H	0.70		140				
	H	0.80		140				
	V	1.00		>130				
	D	1.20						
	H	1.20		115				
	H	1.40		140				
	H	1.60		170				
	D	1.80					1.70	Medium dense yellow light brown slightly gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	2.50						becoming very loose between 2.30m and 2.50m depth. becoming very clayey, gravelly and darker orange below 2.30m depth. Gravel is angular to subrounded fine to coarse flint, chalk and shells. becoming loose below 2.80m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water at 2.00m depth on completion of borehole.

Stability: Borehole unstable in coarse grained soils.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS114**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.20					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.40		195			0.25	Stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.60		170				
	J T	0.70						
	H	0.80		170				
	V	1.00		>130				becoming light brown and sandy below 1.00m depth.
	H	1.20		140				
	D	1.30						
	H	1.30		195				
	D	1.80					1.60	Medium dense to dense orange brown clayey gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	V	2.00		>130				
	D	2.20						becoming loose to medium dense below 2.20m depth.
	D	2.80					2.50	Stiff to very stiff brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	2.80		90				
	H	2.90		90				
	H	3.20		100				
	D	3.50						
	H	3.80		225			3.70	Very stiff dark grey CLAY. (London Clay Formation)
	H	4.20		170				
	D	4.50						
	H	4.50		170				
	H	4.80		170				
							5.00	End of borehole at 5.00m

Remarks

Groundwater: Standing water depth at 1.56m depth on completion of installation of standpipe.

Stability: Borehole stable on completion.

Notes: Standpipe installed to 5.00m depth; 5.00m to 2.00m slotted pipe with gravel surround; 2.00m to ground level plain pipe with bentonite seal; completed with end cap and security cover concreted flush with ground surface.

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018
End Date: 28/11/2018

Borehole Number: **WS115**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.10					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse.
	J T	0.20					0.25	Stiff brown orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		140				
	D	0.50						
	J T	0.50						
	H	0.60		140				
	H	0.80		115				
	V	1.00		>130				
	D	1.20						
	H	1.20		115				
	H	1.40		115			1.50	Medium dense yellow slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	1.80						
	V	2.00		>130			2.00	Firm to stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	2.70						becoming dark grey below 2.70m depth.
	H	2.80		115				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.20m on completion.

Stability: Borehole collapsed to 1.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS116**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.15					0.00	Topsoil over, Brown slightly gravelly slightly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (Subsoil)
	J T	0.40					0.35	Firm to stiff orange brown slightly gravelly sandy CLAY with some pockets of black silt. Gravel is angular to subangular fine occasional flint and occasional ironstone. (River Terrace Deposits)
	D	0.50						
	H	0.50		140				
	H	0.70		115				
	H	0.90		140				
	H	1.20		170			1.10	Stiff to very stiff orange mottled grey slightly gravelly slightly sandy slightly silty CLAY. Gravel is angular to subangular fine weak ironstone and flint. (River Terrace Deposits)
	D	1.50						
	H	1.50		170				
	H	1.60		170			1.70	Medium dense to dense yellow grey slightly gravelly slightly clayey medium SAND with some bands of clay and gravel. (River Terrace Deposits)
	D	2.50						
	D	2.80					2.70	Very dense orange brown slightly clayey angular to subangular medium to coarse GRAVEL of flint. (River Terrace Deposits)
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Groundwater encountered at 1.60m depth. Standing water depth at 1.54m on completion of drilling.

Stability: Borehole collapsed to 1.80m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: PM

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

[redacted]

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS117**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.20					0.00	Topsoil over, Brown slightly gravelly slightly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (Subsoil)
	J T	0.50					0.30	Firm to stiff orange brown slightly gravelly slightly sandy CLAY with some black pockets of black silt. Gravel is angular to subangular fine occasional flint and occasional ironstone. (River Terrace Deposits)
	H	0.50		140				
	D	0.60						
	H	0.70		170				
	H	0.80		140				
	H	1.20		90			1.20	Stiff orange brown gravelly sandy CLAY. Gravel is angular to subangular fine to coarse flint. Sand is medium. (River Terrace Deposits)
	H	1.50		115				
	D	1.60						
	H	1.80		90				
	D	2.20					2.10	Medium dense to very dense clayey angular to subangular fine to coarse GRAVEL of flint. (River Terrace Deposits)
	H	2.60		115			2.50	Very stiff orange brown slightly gravelly sandy CLAY. (River Terrace Deposits)
	D	2.70						
	H	2.70		115				
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Groundwater encountered at1.70m depth. Standing water depth at 2.40m on completion of drilling.

Stability: Borehole collapsed to 2.80m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: PM

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS118**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.20					0.15	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	D	0.50					0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		170				
	J T	0.60						
	H	0.60		170				
	H	0.80		195				
	V	1.00		>130				
	D	1.20						
	H	1.20		170				
	H	1.40		170				
	D	1.80					1.50	Medium dense to dense yellow light brown occasionally grey gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
								becoming orange and very gravelly below 2.20m depth.
	D	2.50						becoming loose below 2.50m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.30m on completion.

Stability: Borehole collapsed to 2.20m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS119**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.10					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	J T	0.20					0.25	Stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	H	0.30		115				
	D	0.40						
	H	0.50		140				
	H	0.60		170				
	D	0.80						
	J T	0.80						
	H	0.80		140				
	V	1.00		120				becoming light orange mottled grey and sandy below 1.00m depth.
	H	1.20		115				
	H	1.50		90				
	D	1.80						
	H	1.80		90				
	V	2.00		100				
	H	2.20		140				
	D	2.50						
	H	2.50		115				becoming dark orange brown below 2.60m depth.
	H	2.80		115				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.70m on completion.

Stability: Borehole collapsed to 2.85m on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS120**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.20					0.00	Topsoil over, Brown slightly gravelly slightly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (Subsoil)
	D	0.30						
	J T	0.50					0.40	Firm to stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse flint and occasional ironstone. (River Terrace Deposits)
	H	0.50		140				
	H	0.70		140				
	D	0.80						
	H	0.80		140				
	H	1.20		225				
	D	1.30						
	H	1.30		225				
	H	1.50		115				
	H	1.80		60				
	D	2.10						
	H	2.20		<40			2.40	Medium dense to dense orange brown slightly clayey angular to subangular medium to coarse GRAVEL of flint. (River Terrace Deposits)
	D	2.80						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.70m on completion.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: PM

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS121**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.10					0.10	Brown slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.15	
	H	0.40		140				Stiff to very stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.50						
	H	0.60		170				
	H	0.80		115				
	V	1.00		>130				
	D	1.50						
	V	2.00		>130				becoming mottled dark grey below 2.00m depth.
	D	2.20						
	D	2.80						
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Borehole dry on completion.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS122**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.20	
	H	0.40		115				Stiff brown and orange brown slightly gravelly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.60						
	H	0.60		115				
	V	1.00		>130				becoming orange brown and sandy below 1.00m depth.
	D	1.20						becoming slightly gravelly below 1.20m depth.
	H	1.20		115				
	H	1.40		90				
	H	1.60		115				
	D	1.80						
							2.00	Medium dense light brown yellow very sandy angular to subrounded fine to coarse GRAVEL of flint. (River Terrace Deposits)
								becoming loose below 2.30m depth.
	D	2.60						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.10m on completion.

Stability: Borehole collapsed to 1.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

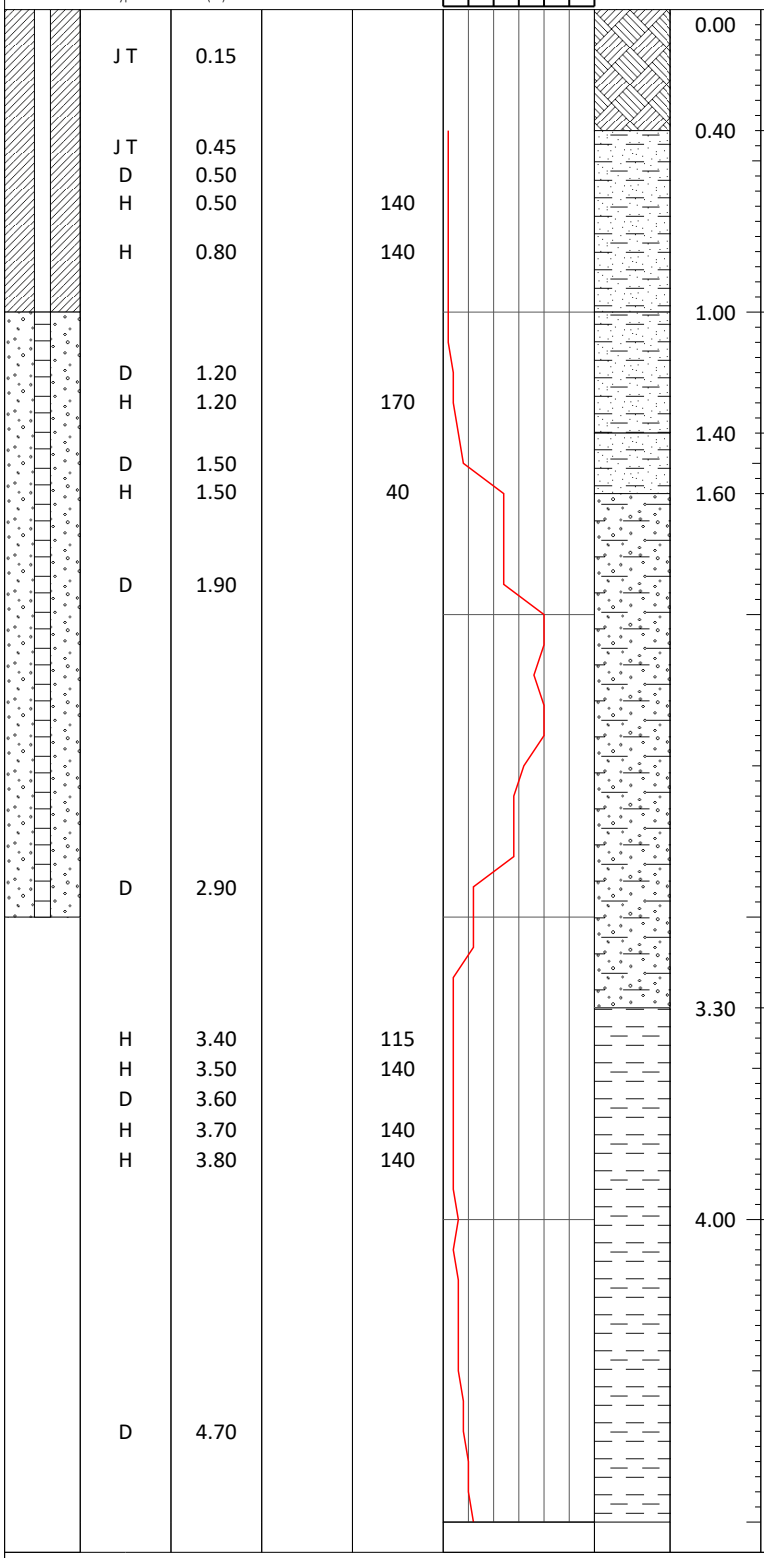
Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 28/11/2018

End Date: 28/11/2018

Borehole Number: **WS123**



Remarks

Groundwater: Groundwater encountered at 1.30m depth. Standing water depth at 1.50m on completion of drilling.

Stability: Borehole collapsed to 3.20m on completion.

Notes: Standpipe installed to 3.00m depth; 3.00m to 1.00m slotted pipe with gravel surround; 1.00m to ground level plain pipe with bentonite seal; completed with end cap and security cover concreted flush with ground surface.

Excavation Method: WLS

Borehole Diameter: Various

Made By: PM

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS124**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.10					0.10	Brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	J T	0.20					0.25	Stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		170				
	D	0.60						
	H	0.60		140				
	J T	0.70						
	H	0.70		115				
	H	0.80		115				
	V	1.00		>130				
	D	1.20						
	H	1.20		170				
							1.40	Medium dense orange brown clayey sandy angular to rounded fine to coarse GRAVEL of flint. Sand is fine to coarse. (River Terrace Deposits)
	D	1.70						becoming loose below 1.70m depth.
	D	2.40						
	H	2.50		90			2.50	Stiff brown slightly sandy CLAY. (River Terrace Deposits)
	H	2.60		100				
	D	2.80						
	H	2.80		140				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.80m on completion.

Stability: Borehole collapsed to 2.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS125** Sheet 1 of 1

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.25					0.15	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
	H	0.40		115			0.30	Stiff to very stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.60						
	J T	0.60						
	H	0.60		170				
	H	0.80		170				
	V	1.00		>130				
	H	1.20		170				
	H	1.30		170				
	D	1.40						
	H	1.40		170				
	D	1.80					1.70	Medium dense to dense orange brown clayey fine to coarse SAND. (River Terrace Deposits)
								becoming loose below 2.40m depth.
								becoming slightly gravelly below 2.50m depth. Gravel is angular to subrounded fine to coarse flint.
								becoming loose to medium dense below 2.90m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.20m on completion.

Stability: Borehole collapsed to 1.30m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018

End Date: 29/11/2018

Borehole Number: **WS126**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.20					0.15	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.50		115			0.25	Stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.60						
	J T	0.70						
	H	0.80		115				
	V	1.00		>130				
	D	1.20						
	H	1.20		140				
	H	1.40		140				becoming light grey and sandy below 1.40m depth.
	H	1.60		140				
	D	1.70						
	H	1.80		140				
	V	2.00		125				
	D	2.50					2.70	Medium dense orange brown gravelly fine to coarse SAND. (River Terrace Deposits)
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.50m on completion.

Stability: Borehole collapsed to 1.80m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 29/11/2018
End Date: 29/11/2018

Borehole Number: **WS127**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	D	0.20					0.10	Dark brown gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to medium. (Subsoil)
	J T	0.20					0.25	Stiff to very stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium rare flint and sandstone. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		115				
	D	0.80						
	J T	0.80						
	H	0.80		170				
	V	1.00		>130				becoming light yellow brown below 1.00m depth.
	H	1.20		170				
	H	1.40		170				
	D	1.50						
	H	1.80		140				
	V	2.00		>130				
	H	2.20		90				
	H	2.40		90				
	D	2.50						
	H	2.60		90				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Groundwater noted at 1.50m depth.

Stability: Borehole unstable during drilling.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 30/11/2018
End Date: 30/11/2018

Borehole Number: **WS128**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.25					0.15	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
	H	0.40		90			0.30	Stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.60						
	H	0.60		115				
	H	0.80		90				
	V	1.00		130				
	D	1.20						
	H	1.20		115				
	H	1.40		90				
	H	1.60		90				becoming light orange brown mottled grey and slightly gravelly below 1.50m depth. Gravel is angular to subrounded fine to coarse flint.
	D	1.80						
	H	1.80		140				
	V	2.00		115				
	D	2.40						
	H	2.40		115				becoming very gravelly clayey fine to coarse SAND between 2.40m and 2.50m depth.
	D	2.80					2.70	Stiff brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	2.80		115				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.45m on completion.

Stability: Borehole stable on completion?

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 30/11/2018

End Date: 30/11/2018

Borehole Number: **WS129**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	D	0.20					0.12	Dark brown brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. (Subsoil)
	J T	0.20					0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		90				
	H	0.60		90				
	D	0.80						
	J T	0.80						
	H	0.80		90				
	V	1.00		115				
	D	1.20						
	H	1.30		90				
	H	1.50		90			1.40	Stiff orange brown light brown gravelly CLAY. Gravel is angular to subrounded. Sand is fine to coarse. (River Terrace Deposits)
	D	1.80						
	H	1.80		140				
	V	2.00		>130				poor recovery of samples below 2.00m depth.
	D	2.50						becoming soft between 2.20m and 2.60m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.25m on completion.

Stability: Borehole collapsed to 2.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 03/12/2018

End Date: 03/12/2018

Borehole Number: **WS130**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
	H	0.40		170			0.25	Stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.60						
	H	0.60		115				
	J T	0.80						
	H	0.80		170				
	V	1.00		>130				
	D	1.20						
	H	1.20		140				becoming slightly gravelly below 1.30m depth. Gravel is subangular to subrounded fine to coarse flint.
	H	1.40		115				
	H	1.50		100				
	D	1.70					1.60	Medium dense light brown yellow gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse shell, flint and rare chalk. (River Terrace Deposits)
	D	2.20					2.50	Medium dense brown grey sandy angular to subrounded fine to coarse GRAVEL of flint. Sand is fine to coarse. (River Terrace Deposits)
	D	2.80					3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.50m on completion.

Stability: Borehole collapsed to 2.70m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

[redacted]

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 03/12/2018

End Date: 03/12/2018

Borehole Number: **WS131**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.20					0.15	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.30		115			0.30	Firm to stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		90				
	J T	0.60						
	H	0.60		90				
	H	0.80		90				
	V	1.00		90				becoming light orange brown below 1.00m depth.
	H	1.20		90				
	D	1.50						
	H	1.50		140				
	H	1.60		115				becoming a clayey gravel between 1.70m and 1.80m depth.
	V	2.00		>130			2.00	Loose brown fine to coarse SAND. (River Terrace Deposits)
	D	2.20						
							2.50	Stiff brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine siltstone. (River Terrace Deposits)
	H	2.70		115				
	D	2.80						
	H	2.80		100				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.85m on completion.

Stability: Borehole collapsed to 1.90m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 03/12/2018

End Date: 03/12/2018

Borehole Number: **WS132**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.20					0.10	Dark brown and brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.50		140			0.25	Stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.60						
	H	0.70		115				
	J T	0.75						
	H	0.80		90				
	V	1.00		>130				
	D	1.20						
	D	1.80						
	V	2.00		>130				becoming slightly sandy CLAY (with angular to subangular gravel of flint and shells) towards base.
	D	2.20					2.10	Medium dense light brown and orange brown gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to medium flint and shells. (River Terrace Deposits)
	D	2.80					2.50	Stiff brown and orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	V	3.00		115			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.70m on completion.

Stability: Borehole collapsed to 1.20m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

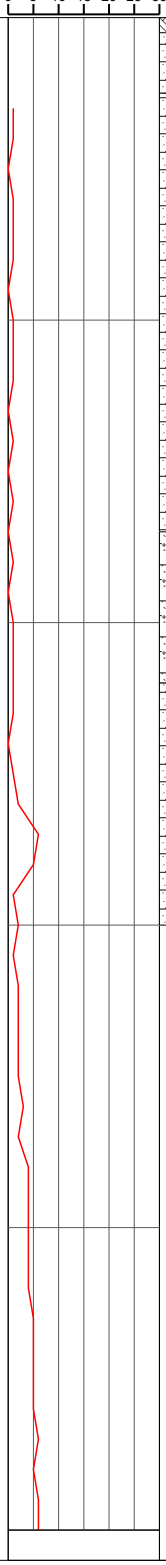
Job Number: R18-13402

Start Date: 03/12/2018

End Date: 03/12/2018

Borehole Number: **WS133**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
							0.05	Dark brown and brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.25	Firm to stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		90				
	D	0.50						
	H	0.50		90				
	J T	0.60						
	H	0.60		90				
	H	0.80		115				
	H	0.90		115				
	V	1.00		>130				becoming light orange brown very sandy with occasional angular to subrounded fine to medium gravel of flint below 1.00m depth.
	D	1.20						
	H	1.20		115				
	H	1.40		90				
	H	1.60		90				
	D	1.80					1.70	Loose orange brown clayey gravelly fine to coarse SAND. Gravel is angular to subrounded fine to medium flint and shell. (River Terrace Deposits)
	V	2.00		80				
	D	2.30					2.20	Firm brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	2.50		90				becoming stiff below 2.50m depth.
	H	2.60		100				
	D	2.80						
	H	2.80		115				
	V	3.00		125			3.00	End of borehole at 3.00m



Remarks

Groundwater: Standing water depth at 1.00m on completion.

Stability: Borehole collapsed to 2.20m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 03/12/2018

End Date: 03/12/2018

Borehole Number: **WS134**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.25					0.15	Brown and dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.40		115			0.30	Firm to stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to rounded fine to medium flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		115				
	J T	0.60						
	H	0.60		90				
	H	0.80		115				
	V	1.00		>130				
	D	1.10						
	H	1.20		115			1.20	Firm to stiff orange brown and brown gravelly sandy CLAY with occasional pockets of clayey fine to coarse sand. Gravel is angular to subrounded fine to coarse flint and shells. (River Terrace Deposits)
	D	1.60						
	H	1.75		115				
	V	2.00		>130			2.00	Loose brown fine to coarse SAND. (River Terrace Deposits)
	D	2.20						
							2.40	Firm to stiff orange brown and brown gravelly sandy CLAY with pockets of clayey fine to coarse sand. Gravel is angular to subrounded fine to coarse flint and shells. (River Terrace Deposits)
							2.70	Stiff orange brown grey sandy CLAY. (River Terrace Deposits)
	D	2.80						
	H	2.80		115				with poor recovery of soil samples below 3.00m depth.
	D	3.50					3.50	Stiff dark grey CLAY. (London Clay Formation)
	H	3.50		140				
	D	4.50						
	H	4.50		155				
							5.00	End of borehole at 5.00m

Remarks

Groundwater: Standing water depth at 0.85m on completion.

Stability: Borehole collapsed to 3.50m depth on completion.

Notes: Standpipe installed to 3.50m depth; 3.50m to 1.50m slotted pipe with gravel surround; 1.50m to ground level plain pipe with bentonite seal; completed with end cap and security cover concreted flush with ground surface.

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 04/12/2018

End Date: 04/12/2018

Borehole Number: **WS135**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm (0 5 10 15 20 25 30)	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.15					0.10	Dark brown aand brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
							0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	H	0.50		115				
	J T	0.60						
	H	0.60		170				
	H	0.80		170				
	V	1.00		>130				
	H	1.20		90				
	D	1.50						
	H	1.50		115				
	H	1.80		90				
							2.00	Dense yellow gravelly fine to coarse SAND. (River Terrace Deposits) with poor recovery of soil samples between 2.00m and 3.00m depth.
	D	2.50						
							3.00	Stiff light grey sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	3.20						
							3.40	Medium dense orange brown sandy angular to subrounded fine to coarse GRAVEL of flint. (River Terrace Deposits)
	D	3.80						
							4.00	Stiff grey CLAY. (London Clay Formation)
	D	4.50						
	H	4.50		115				
	H	4.80		140				
							5.00	End of borehole at 5.00m

Remarks

Groundwater: Groundwater at 0.85m depth on completion.

Stability: Borehole collapsed to 2.50m depth.

Notes: Standpipe installed to 3.50m depth; 3.50m to 1.50m slotted pipe with gravel surround; 1.50m to ground level plain pipe with bentonite seal; completed with end cap and security cover concreted flush with ground surface.

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 04/12/2018

End Date: 04/12/2018

Borehole Number: **WS136**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
							0.10	Dark brown brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
	H	0.40		90			0.20	Firm to stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	J T	0.60						
	D	0.70						
	H	0.70		115				
	H	0.80		115				
	V	1.00		>130				becoming light orange brown below 1.00m depth.
	D	1.20						
	H	1.20		90				
	H	1.40		90				
							1.50	Firm to stiff orange brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint and shells. (River Terrace Deposits)
	D	1.80						
	V	2.00		>130			2.00	Loose orange brown silty fine to coarse SAND. (River Terrace Deposits)
	D	2.50						becoming medium dense below 2.40m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.00m on completion.

Stability: Borehole collapsed to 2.20m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 04/12/2018

End Date: 04/12/2018

Borehole Number: **WS137**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Dark brown brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
							0.20	Stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		90				
	J T	0.50						
	H	0.60		115				
	D	0.80						
	H	0.80		90				
	V	1.00		130				becoming light brown and slightly gravelly below 1.00m depth. Gravel is angular to subrounded fine to coarse flint, chalk and shell. Sand is fine to coarse.
	D	1.20						
	H	1.20		90				
	H	1.50		90				
	D	1.70						
	H	1.80		90				with no recovery of samples below 2.00m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.50m on completion.

Stability: Borehole collapsed to 2.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: PM

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 04/12/2018

End Date: 04/12/2018

Borehole Number: **WS138**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm (0 5 10 15 20 25 30)	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
							0.15	
							0.25	Dark brown and brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
	J T	0.50						Stiff orange brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		90				
	D	0.60						
	H	0.60		115				
	H	0.80		100				
	V	1.00		>130				becoming sandy below 1.00m depth.
	H	1.20		100				
	D	1.50						
	H	1.50		115				
	H	1.80		140				
							2.00	Loose to medium dense brown yellow gravelly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint and shell. (River Terrace Deposits)
	D	2.50						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.68m on completion.

Stability: Borehole collapsed to 1.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 04/12/2018

End Date: 04/12/2018

Borehole Number: **WS139**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Dark brown and brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to medium flint. Sand is fine to coarse. (Subsoil)
							0.20	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.60						
	H	0.60		90				
	H	0.80		90				
	H	1.00		90				
	V	1.00		80				
	D	1.20						
	H	1.20		90				
	H	1.40		90				
	D	1.80						with angular to subangular fine to coarse gravel of flint betwen 1.80m and 2.00m depth.
	V	2.00		>130			2.00	Loose brown gravelly clayey fine to coarse SAND with occasional pockets of gravelly clay. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	2.20						
	H	2.50		90			2.50	Stiff brown mottled orange grey slightly gravelly silty CLAY. Gravel is angular to subrounded fine to medium flint. (River Terrace Deposits)
	D	2.80						
	H	2.80		115				
	V	3.00		120			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.70m on completion.

Stability: Borehole collapsed to 1.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 06/12/2018

End Date: 06/12/2018

Borehole Number: **WS140**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.20					0.15	
							0.25	Dark brown brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.50		115				Stiff orange brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.60						
	J T	0.80						
	H	0.80		115				
	V	1.00		>130				
	D	1.20						
	H	1.20		90				
	H	1.40		90				becoming light orange brown, slightly gravelly and sandy below 1.40m depth.
							1.60	Medium dense yellow orange gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint and shell. (River Terrace Deposits)
	D	1.80						
	V	2.00		80				
	D	2.50						becoming loose below 2.50m depth.
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.20m on completion.

Stability: Borehole unstable in coarse grained soils.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION
L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 06/12/2018

End Date: 06/12/2018

Borehole Number: **WS141**

Standpipe	Sample/ Test Type	Samples and In Situ Testing: Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
							0.10	Dark brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse flint. (Subsoil)
	H	0.30		140			0.15	Stiff orange brown slightly gravelly sandy CLAY. (River Terrace Deposits)
	J T	0.50						
	H	0.50		115				
	D	0.60						
	H	0.80		100				
	V	1.00		>130				becoming light brown below 1.00m depth.
	D	1.20						
	H	1.20		115				
	H	1.40		90				
	H	1.60		115				
	D	1.80						
	V	2.00		>130				becoming very sandy below 2.00m depth.
	D	2.50						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 1.00m on completion.

Stability: Borehole collapsed to 1.25m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

[redacted]

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 06/12/2018

End Date: 06/12/2018

Borehole Number: **WS142**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.15					0.10	Dark brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse flint. (Subsoil).
							0.20	Stiff orange brown and brown slightly sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		90				
	D	0.50						
	H	0.50		115				
	J T	0.60						
	H	0.60		170				
	H	0.80		170				
	V	1.00		120				becoming light orange brown and gravelly below 1.00m depth. Gravel is angular to subrounded fine to coarse flint.
	D	1.20						
	H	1.30		90				
	D	1.70						becoming very gravelly between 1.60m and 1.80m depth.
	V	2.00		>130				becoming dark brown below 2.00m depth.
	D	2.50						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water at 2.10m depth on completion of borehole.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 06/12/2018

End Date: 06/12/2018

Borehole Number: **WS143**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Dark brown and brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	D	0.50					0.25	Firm to stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.50		90				
	H	0.60		140				
	J T	0.80						
	H	0.80		140				
	V	1.00		>130				
								becoming stiff below 1.90m depth.
	D	2.20						
	D	2.80						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.60m on completion of borehole.

Stability: Borehole collapsed to 1.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

[redacted]

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 07/12/2018

End Date: 07/12/2018

Borehole Number: **WS144**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.20					0.10	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.30	Stiff orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	0.50						
	J T	0.60						
	H	0.60		115				
	H	0.80		115				
	V	1.00		>130				
	D	1.20						
	H	1.20		90				
							1.50	Medium dense orange slightly gravelly fine to coarse SAND. (River Terrace Deposits)
	H	1.60		90				
	D	1.80						
	H	2.20		100			2.20	Stiff brown dark grey slightly sandy CLAY. (River Terrace Deposits)
	H	2.40		115				
	D	2.60						
	V	3.00		75			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.70m on completion of borehole.

Stability: Borehole collapsed to 2.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 07/12/2018

End Date: 07/12/2018

Borehole Number: **WS145**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.15					0.10	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (Subsoil)
							0.25	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		100				
	D	0.50						
	J T	0.60						
	H	0.60		140				
	H	0.80		115				
	V	1.00		>130				
							1.20	Medium dense to dense orange yellow slightly gravelly fine to coarse SAND. (River Terrace Deposits)
	D	1.50						
								becoming very dense below 2.20m depth.
	D	2.50						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water at 0.60m depth on completion of borehole.

Stability: Borehole collapsed to 1.00m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date:

End Date:

Borehole Number: **WS146**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.15					0.10	Dark brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (Subsoil)
							0.20	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	H	0.40		90				
	D	0.45						
	H	0.60		90				
	J T	0.80						
	H	0.80		140				
	V	1.00		120				
	D	1.20						
	D	1.70					1.60	Dense to very dense yellow orange brown gravelly fine to coarse SAND. Gravel is angular to rounded fine to coarse flint and shell fragments. (River Terrace Deposits)
	D	2.50						
							3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water at 1.05m depth on completion of borehole.

Stability: Borehole collapsed to 1.85m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION LIMITED

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 05/12/2018

End Date: 05/12/2018

Borehole Number: **WS147**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm (0 5 10 15 20 25 30)	Legend	Depth	Stratum Description
							0.00	Topsoil.
	J T	0.15					0.10	Dark brown and brown gravelly sandy CLAY. Gravel is angular to subangular fine to coarse flint. Sand is fine to coarse. (Subsoil)
							0.25	Stiff brown orange brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		140				
	D	0.60						
	J T	0.60						
	H	0.60		140				
	H	0.80		115				
	V	1.00		>130				becoming more sandy below 1.00m depth.
	D	1.20						
							1.30	Medium dense orange yellow slightly gravelly fine to coarse SAND. (River Terrace Deposits)
							1.60	Firm grey mottled brown sandy CLAY. Sand is fine to coarse. (River Terrace Deposits)
	D	1.80						
	H	1.90		90				
	D	2.50						becoming stiff below 2.50m depth.
	H	2.50		115				
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 0.60m on completion of borehole.

Stability: Borehole collapsed to 0.90m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

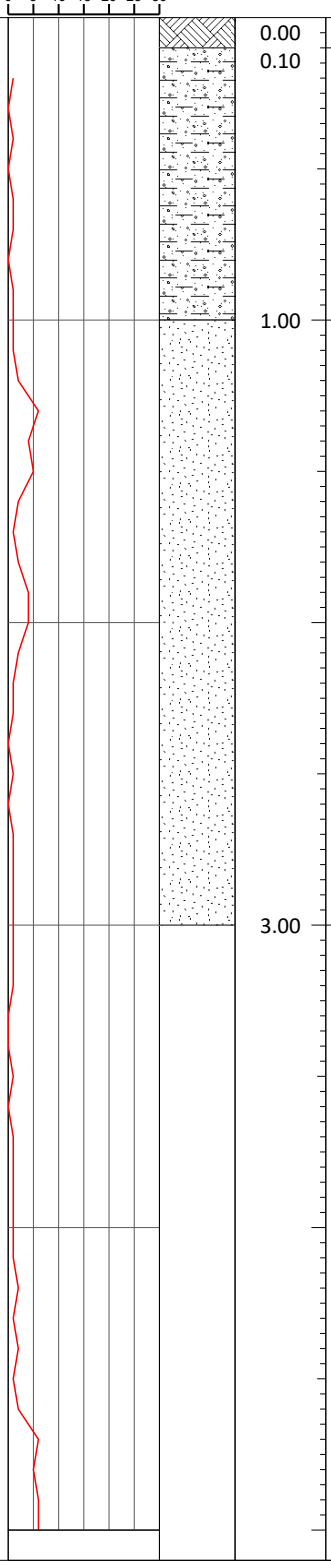
Job Number: R18-13402

Start Date: 05/12/2018

End Date: 05/12/2018

Borehole Number: **WS148**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm (0 5 10 15 20 25 30)	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
							0.10	Firm to stiff brown orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	H	0.40		90				
	D	0.50						
	J T	0.60						
	H	0.60		75				
	H	0.80		115				
	V	1.00		100			1.00	Loose grey green orange slightly gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
								becoming medium dense below 1.20m depth.
	D	1.50						
								becoming loose below 2.20m depth.
	D	2.50						
							3.00	End of borehole at 3.00m



Remarks

Groundwater: Standing water depth at 0.20m on completion.

Stability: Borehole collapsed to 0.90m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 05/12/2018

End Date: 05/12/2018

Borehole Number: **WS149**

Standpipe	Samples and In Situ Testing: Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe: Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.05					0.00	Topsoil.
	J T	0.20					0.10	Dark brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to medium. (Subsoil)
							0.30	Stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)
	D	0.60						
	H	0.60		195				
	H	0.70		225				
	J T	0.80						
	H	0.80		195				
	V	1.00		>130			1.10	Medium dense brown yellow slightly gravelly slightly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint and shell. (River Terrace Deposits)
	D	1.50						
	V	2.00		>130				becoming dense below 2.00m depth.
	D	2.20					2.40	Medium dense orange brown sandy angular to subrounded fine to coarse GRAVEL of flint and occasional shells. Sand is fine to coarse. (River Terrace Deposits)
	D	2.80						
	V	3.00		>130			3.00	End of borehole at 3.00m

Remarks

Groundwater: Standing water depth at 2.20m on completion.

Stability: Borehole collapsed to 2.50m depth on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

ASHDOWN SITE INVESTIGATION L•I•M•I•T•E•D

Site Name: Land South of Summer Lane, Pagham, West Sussex

Job Number: R18-13402

Start Date: 05/12/2018

End Date: 05/12/2018

Borehole Number: **WS150**

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Dynamic Probe Blows/100mm 0 5 10 15 20 25 30	Legend	Depth	Stratum Description
	J T	0.10					0.00	Topsoil.
	J T	0.20					0.15	Dark brown gravelly sandy CLAY with rootlets. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (Subsoil)
	H	0.50		170			0.35	Stiff to very stiff orange brown slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	J T	0.60						
	D	0.70						
	H	0.70		195				
	H	0.80		100				
	V	1.00		>130				
	D	1.20					1.30	Medium dense grey orange yellow slightly gravelly slightly clayey fine to coarse SAND. Gravel is angular to subrounded fine to medium flint and shell. (River Terrace Deposits)
	D	1.80						
	D	2.50						becoming loose below 2.80m depth.
	D	3.50						
	D	4.50						becoming medium dense below 4.60m depth.
								becoming very gravelly below 4.80m depth.
							5.00	End of borehole at 5.00m

Remarks

Groundwater: Standing water depth at 1.50m on completion.

Stability: Borehole stable on completion.

Notes: Standpipe installed to 4.50m depth; 4.50m to 1.50m slotted pipe with gravel surround; 1.50m to ground level plain pipe with bentonite seal; completed with end cap and security cover concreted flush with ground surface.

Excavation Method: WLS

Borehole Diameter: Various

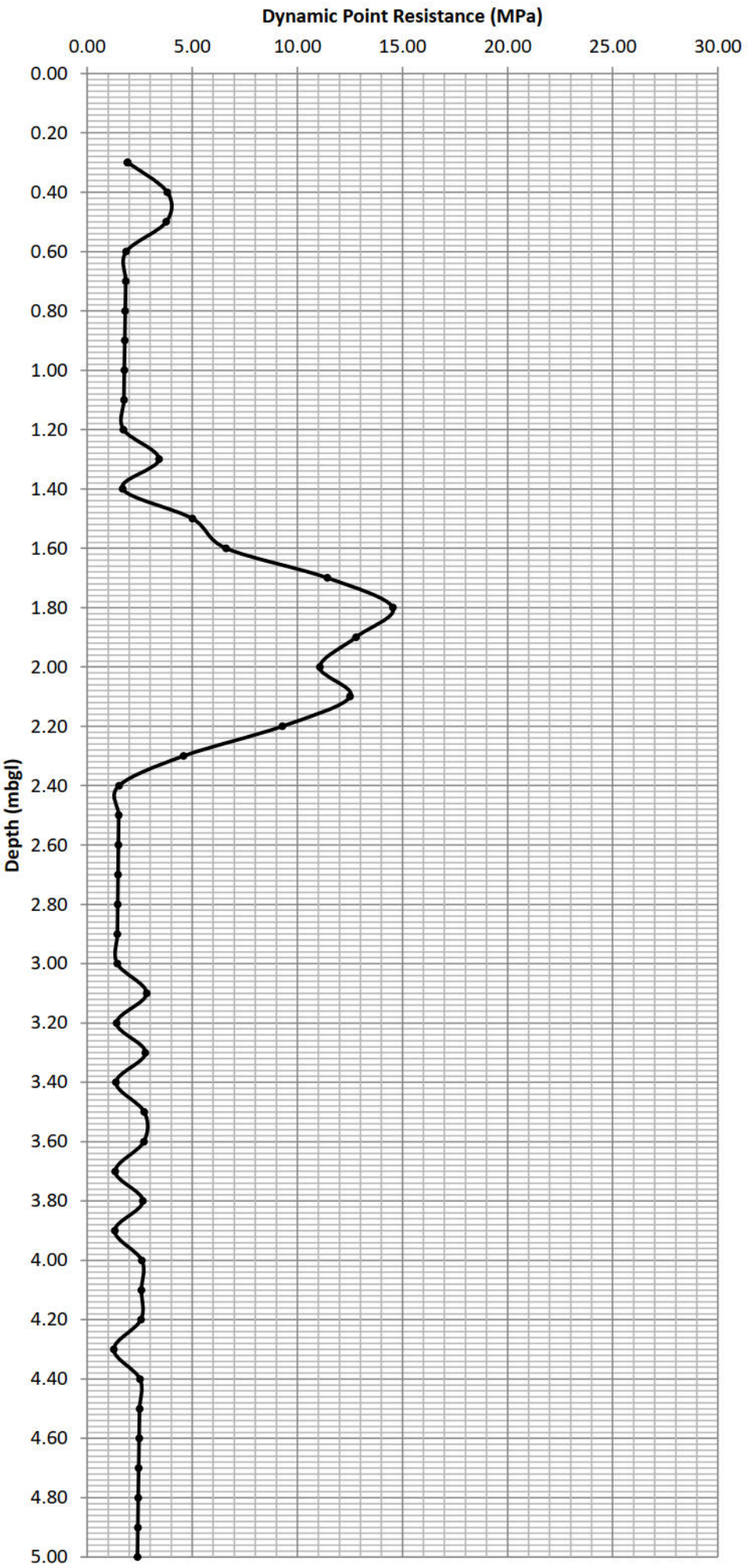
Made By: RJ

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS101	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	2	0.05	4.09	3.77
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	1	0.10	2.04	1.69
1.50	3	0.03	6.13	5.01
1.60	4	0.03	8.17	6.61
1.70	7	0.01	14.30	11.43
1.80	9	0.01	18.39	14.54
1.90	8	0.01	16.35	12.78
2.00	7	0.01	14.30	11.07
2.10	8	0.01	16.35	12.51
2.20	6	0.02	12.26	9.29
2.30	3	0.03	6.13	4.60
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	2	0.05	4.09	2.70
3.70	1	0.10	2.04	1.34
3.80	2	0.05	4.09	2.65
3.90	1	0.10	2.04	1.31
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	1	0.10	2.04	1.27
4.40	2	0.05	4.09	2.52
4.50	2	0.05	4.09	2.49
4.60	2	0.05	4.09	2.47
4.70	2	0.05	4.09	2.45
4.80	2	0.05	4.09	2.43
4.90	2	0.05	4.09	2.41
5.00	2	0.05	4.09	2.39



Notes:

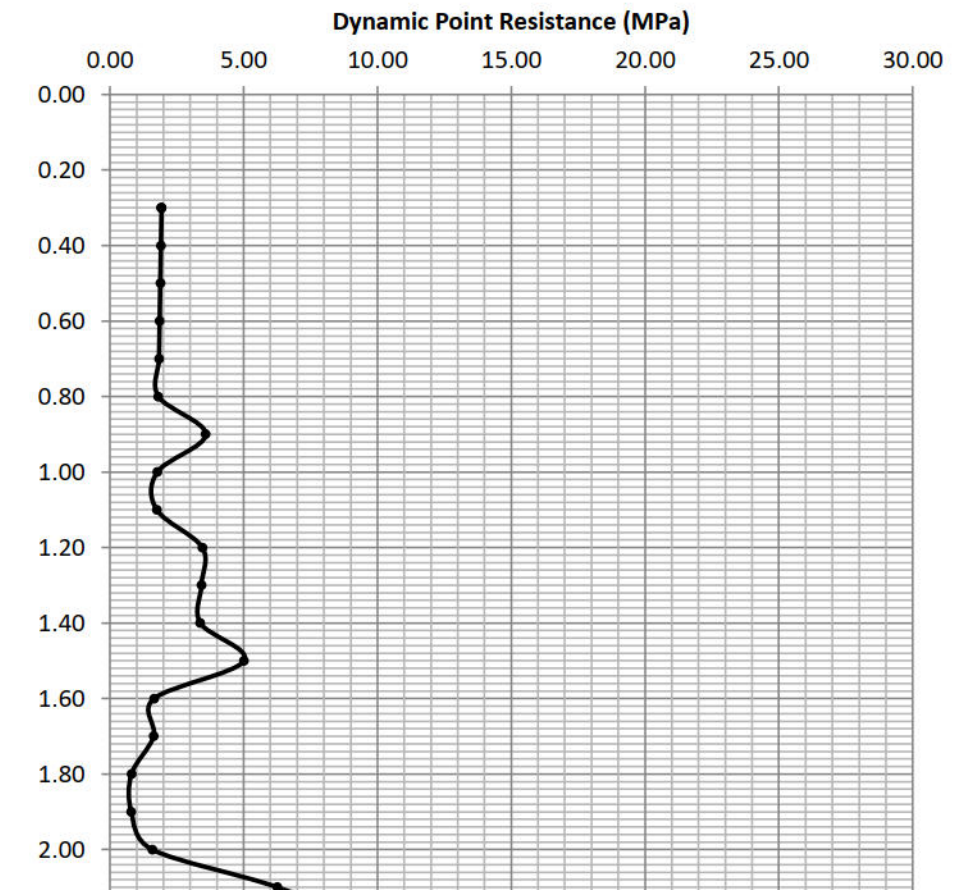
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS102	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	2	0.05	4.09	3.58
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	2	0.05	4.09	3.38
1.50	3	0.03	6.13	5.01
1.60	1	0.10	2.04	1.65
1.70	1	0.10	2.04	1.63
1.80	0.5	0.20	1.02	0.81
1.90	0.5	0.20	1.02	0.80
2.00	1	0.10	2.04	1.58
2.10	4	0.03	8.17	6.26
2.20	6	0.02	12.26	9.29
2.30	3	0.03	6.13	4.60
2.40	2	0.05	4.09	3.03
2.50	2	0.05	4.09	3.00
2.60	5	0.02	10.22	7.43
2.70	8	0.01	16.35	11.77
2.80	10	0.01	20.43	14.56
2.90	3	0.03	6.13	4.33
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	2	0.05	4.09	2.75
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	3	0.03	6.13	3.81
4.40	2	0.05	4.09	2.52
4.50	3	0.03	6.13	3.74
4.60	2	0.05	4.09	2.47
4.70	2	0.05	4.09	2.45
4.80	3	0.03	6.13	3.65
4.90	3	0.03	6.13	3.62
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

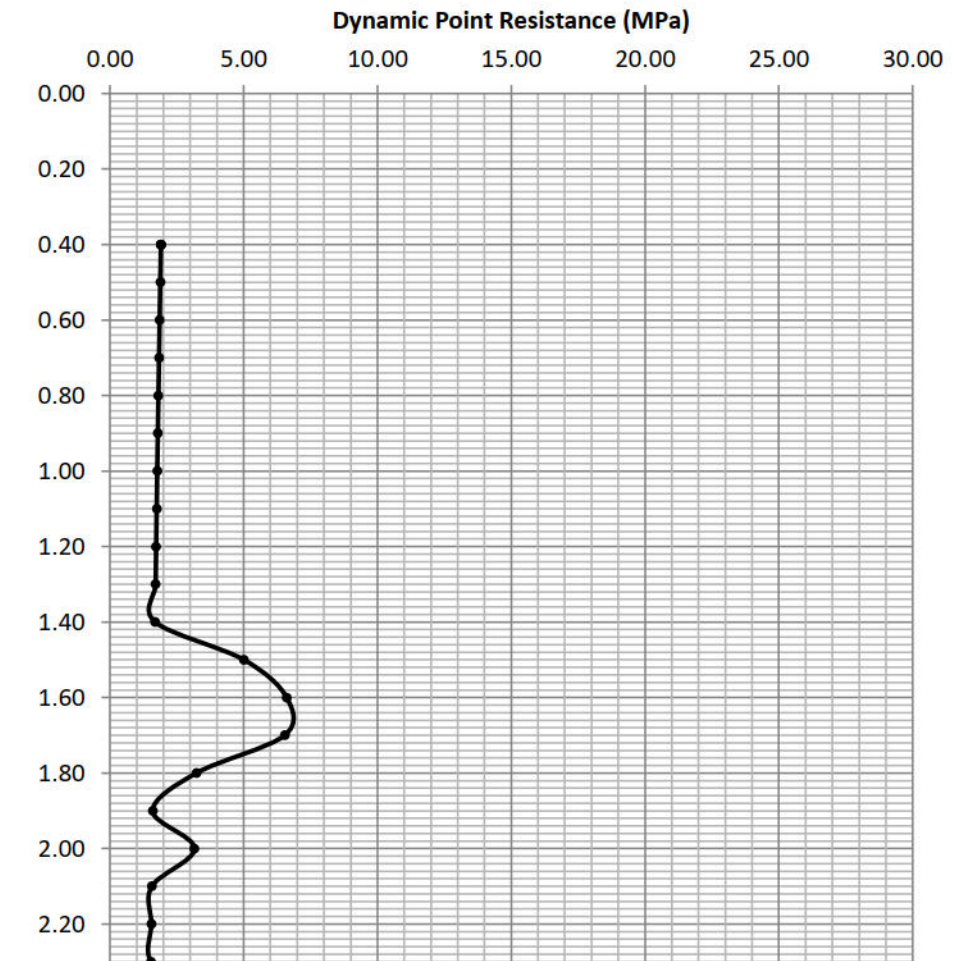
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS103

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	3	0.03	6.13	5.01
1.60	4	0.03	8.17	6.61
1.70	4	0.03	8.17	6.53
1.80	2	0.05	4.09	3.23
1.90	1	0.10	2.04	1.60
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	2	0.05	4.09	3.03
2.50	2	0.05	4.09	3.00
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	2	0.05	4.09	2.91
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	3	0.03	6.13	4.09
3.60	4	0.03	8.17	5.40
3.70	4	0.03	8.17	5.35
3.80	4	0.03	8.17	5.30
3.90	4	0.03	8.17	5.25
4.00	4	0.03	8.17	5.21
4.10	5	0.02	10.22	6.45
4.20	5	0.02	10.22	6.40
4.30	4	0.03	8.17	5.07
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	5	0.02	10.22	6.18
4.70	6	0.02	12.26	7.36
4.80	5	0.02	10.22	6.08
4.90	6	0.02	12.26	7.24
5.00	5	0.02	10.22	5.98



Notes:

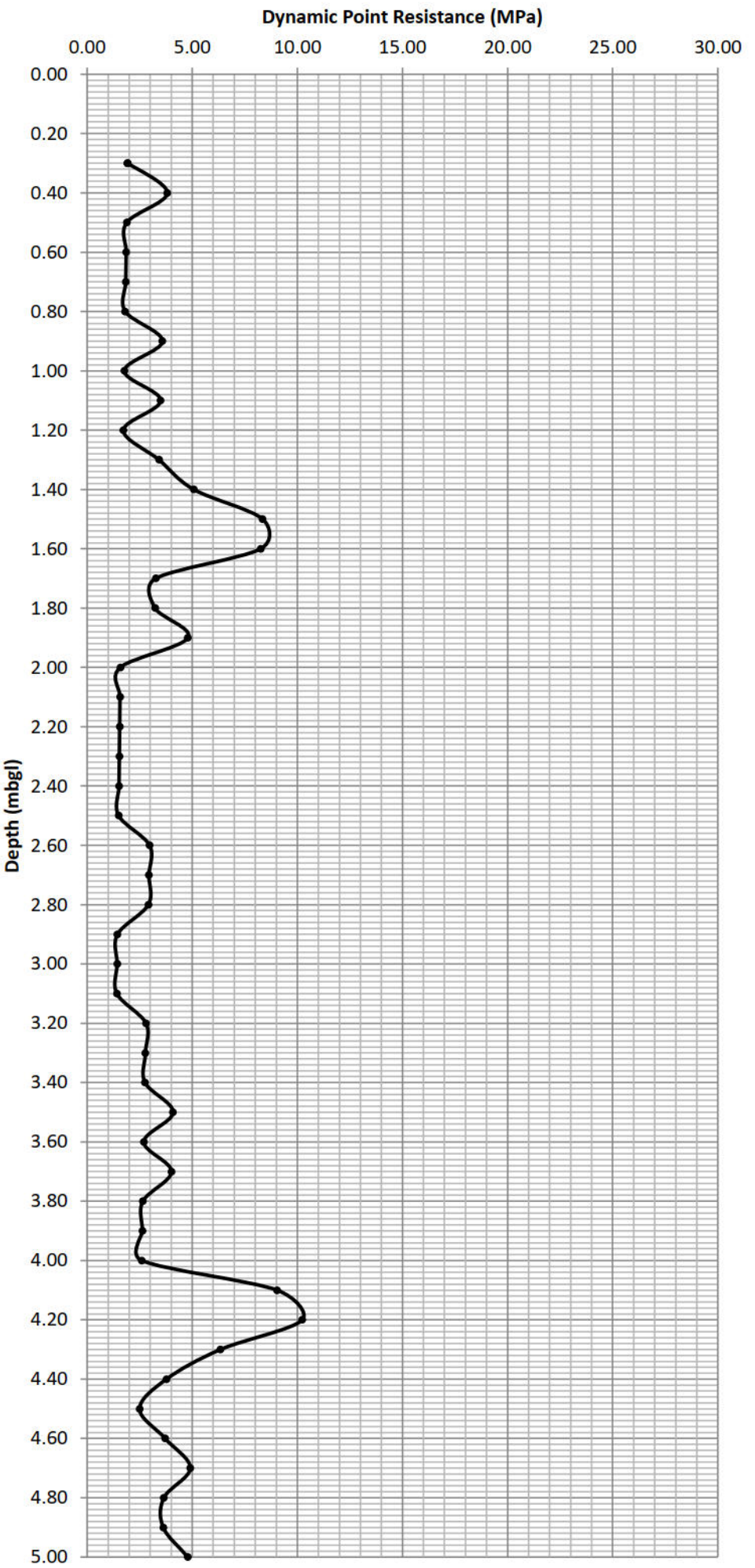
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS104	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	2	0.05	4.09	3.58
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	3	0.03	6.13	5.07
1.50	5	0.02	10.22	8.35
1.60	5	0.02	10.22	8.26
1.70	2	0.05	4.09	3.27
1.80	2	0.05	4.09	3.23
1.90	3	0.03	6.13	4.79
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	2	0.05	4.09	2.97
2.70	2	0.05	4.09	2.94
2.80	2	0.05	4.09	2.91
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	3	0.03	6.13	4.09
3.60	2	0.05	4.09	2.70
3.70	3	0.03	6.13	4.01
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	7	0.01	14.30	9.04
4.20	8	0.01	16.35	10.24
4.30	5	0.02	10.22	6.34
4.40	3	0.03	6.13	3.77
4.50	2	0.05	4.09	2.49
4.60	3	0.03	6.13	3.71
4.70	4	0.03	8.17	4.91
4.80	3	0.03	6.13	3.65
4.90	3	0.03	6.13	3.62
5.00	4	0.03	8.17	4.79



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

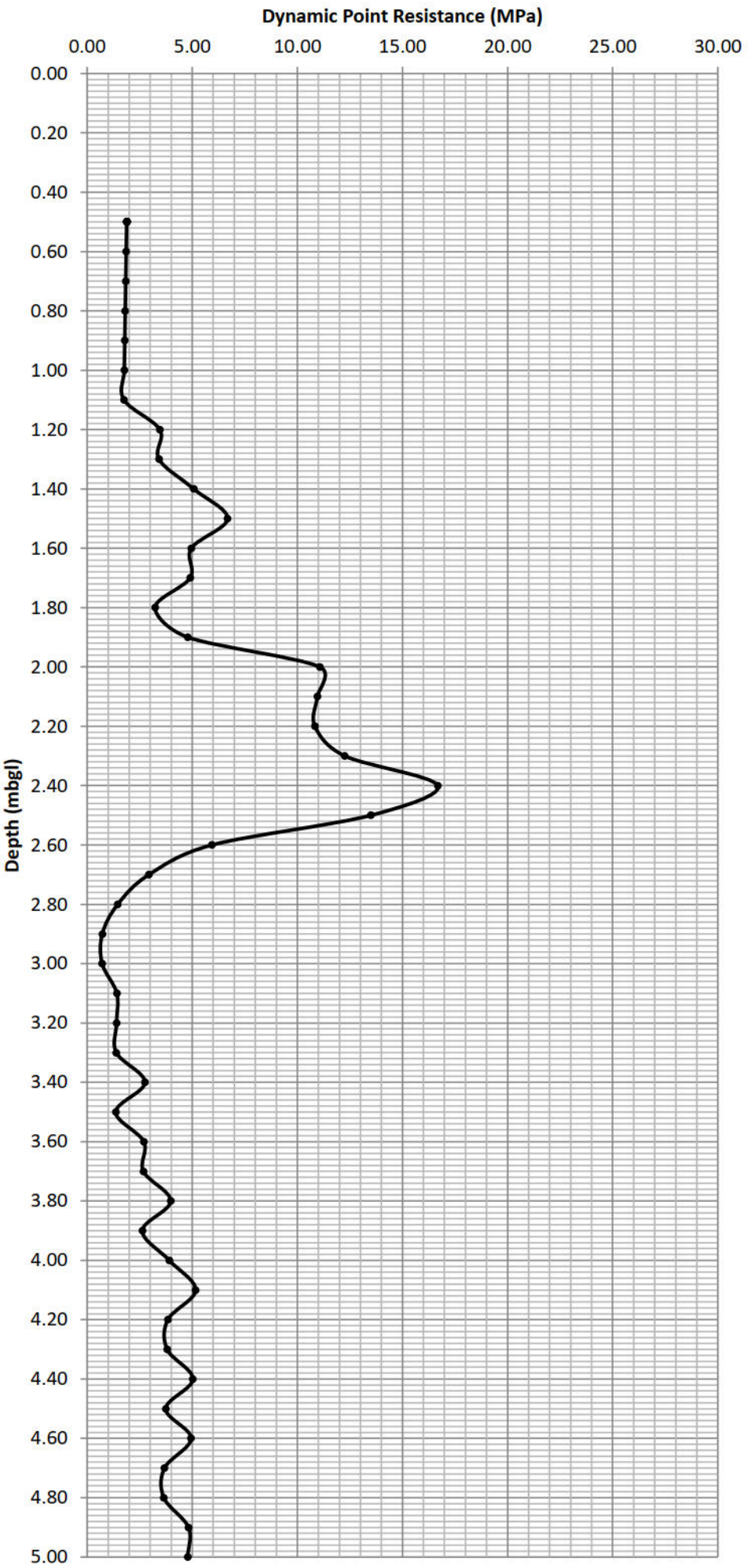
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS105

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40				
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	3	0.03	6.13	5.07
1.50	4	0.03	8.17	6.68
1.60	3	0.03	6.13	4.95
1.70	3	0.03	6.13	4.90
1.80	2	0.05	4.09	3.23
1.90	3	0.03	6.13	4.79
2.00	7	0.01	14.30	11.07
2.10	7	0.01	14.30	10.95
2.20	7	0.01	14.30	10.83
2.30	8	0.01	16.35	12.25
2.40	11	0.01	22.48	16.68
2.50	9	0.01	18.39	13.51
2.60	4	0.03	8.17	5.94
2.70	2	0.05	4.09	2.94
2.80	1	0.10	2.04	1.46
2.90	0.5	0.20	1.02	0.72
3.00	0.5	0.20	1.02	0.71
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	2	0.05	4.09	2.75
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	3	0.03	6.13	3.98
3.90	2	0.05	4.09	2.63
4.00	3	0.03	6.13	3.91
4.10	4	0.03	8.17	5.16
4.20	3	0.03	6.13	3.84
4.30	3	0.03	6.13	3.81
4.40	4	0.03	8.17	5.03
4.50	3	0.03	6.13	3.74
4.60	4	0.03	8.17	4.95
4.70	3	0.03	6.13	3.68
4.80	3	0.03	6.13	3.65
4.90	4	0.03	8.17	4.83
5.00	4	0.03	8.17	4.79



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

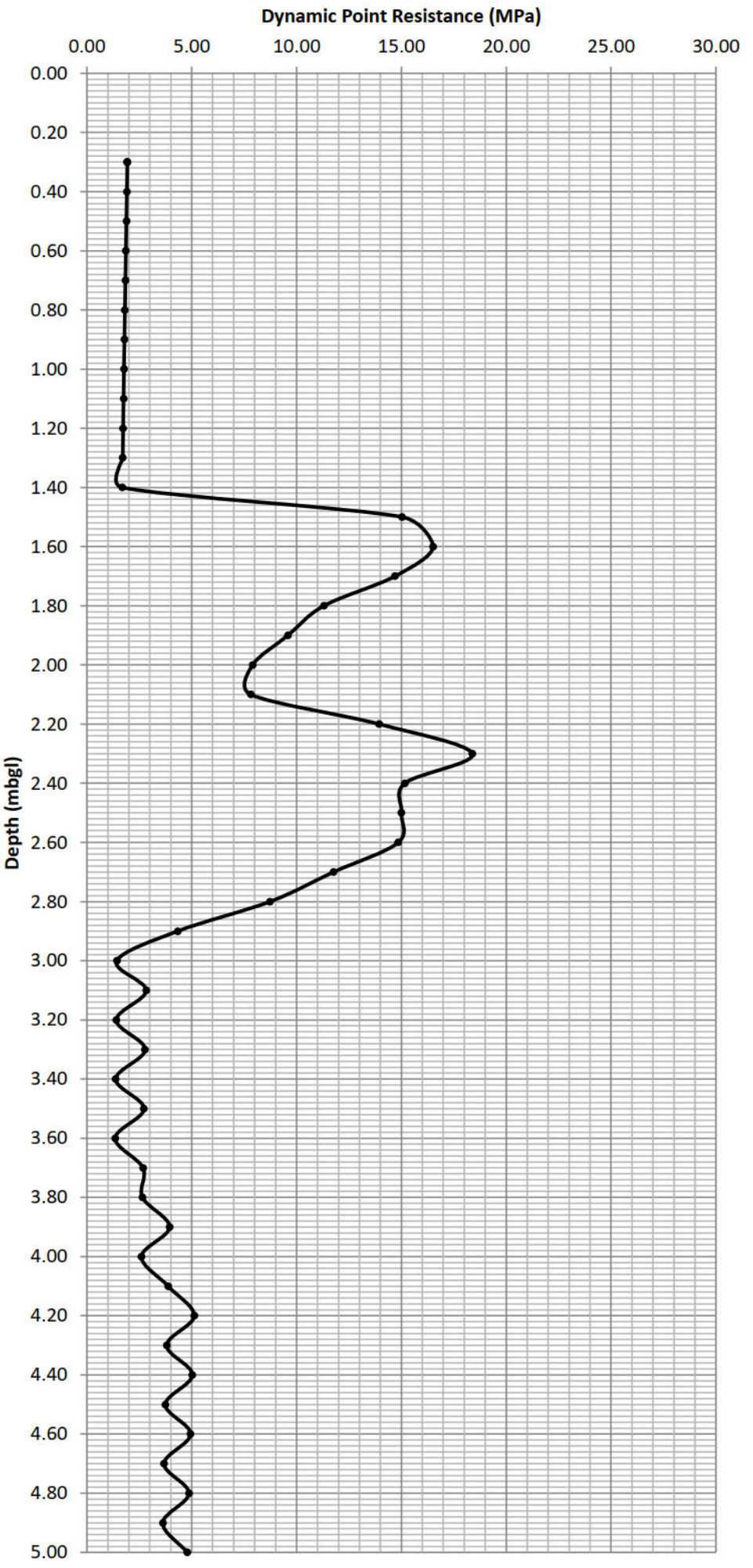
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS106

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	9	0.01	18.39	15.03
1.60	10	0.01	20.43	16.52
1.70	9	0.01	18.39	14.70
1.80	7	0.01	14.30	11.31
1.90	6	0.02	12.26	9.59
2.00	5	0.02	10.22	7.90
2.10	5	0.02	10.22	7.82
2.20	9	0.01	18.39	13.93
2.30	12	0.01	24.52	18.38
2.40	10	0.01	20.43	15.16
2.50	10	0.01	20.43	15.01
2.60	10	0.01	20.43	14.85
2.70	8	0.01	16.35	11.77
2.80	6	0.02	12.26	8.74
2.90	3	0.03	6.13	4.33
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	1	0.10	2.04	1.35
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	3	0.03	6.13	3.94
4.00	2	0.05	4.09	2.60
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	3	0.03	6.13	3.81
4.40	4	0.03	8.17	5.03
4.50	3	0.03	6.13	3.74
4.60	4	0.03	8.17	4.95
4.70	3	0.03	6.13	3.68
4.80	4	0.03	8.17	4.87
4.90	3	0.03	6.13	3.62
5.00	4	0.03	8.17	4.79



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

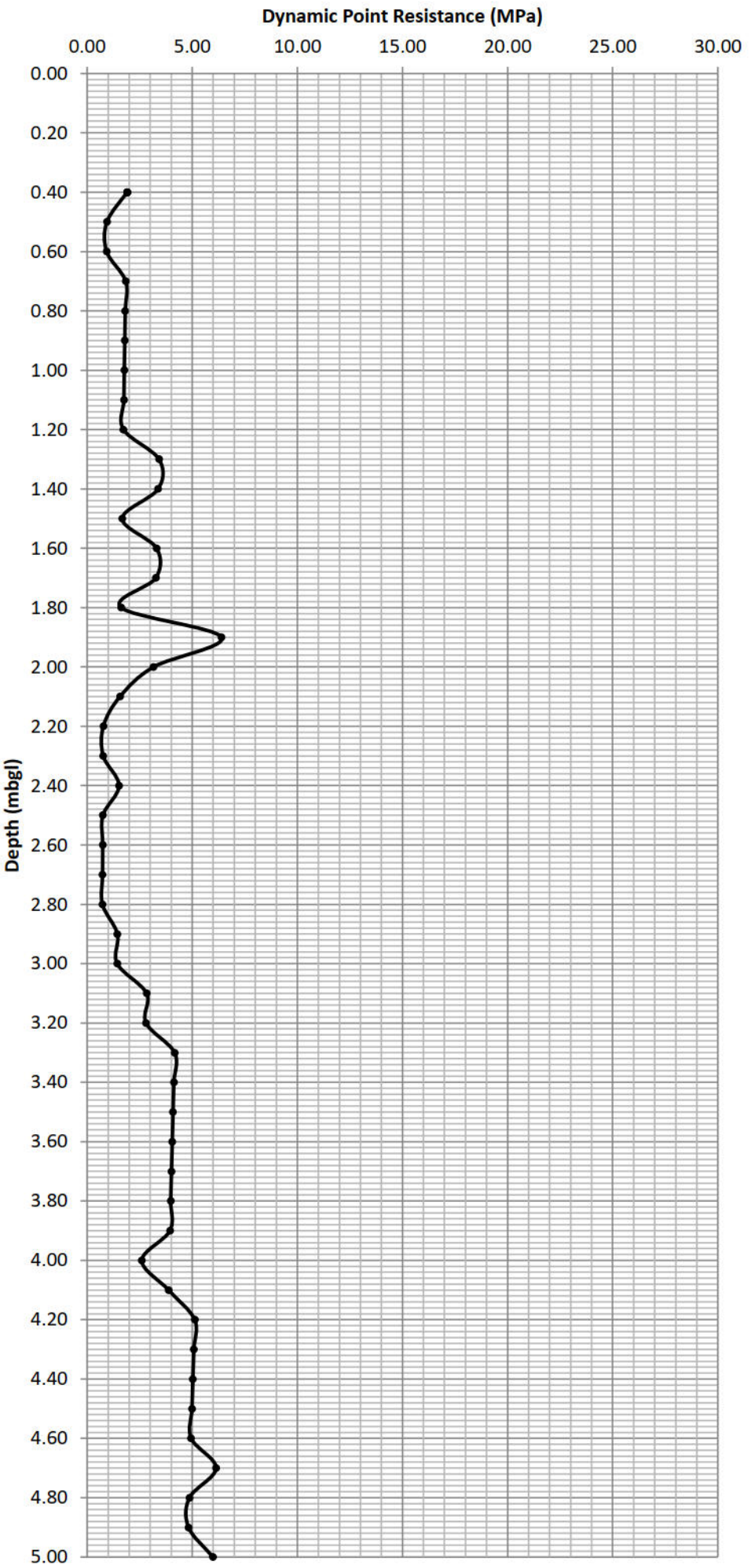
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS107

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	0.5	0.20	1.02	0.94
0.60	0.5	0.20	1.02	0.93
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	2	0.05	4.09	3.38
1.50	1	0.10	2.04	1.67
1.60	2	0.05	4.09	3.30
1.70	2	0.05	4.09	3.27
1.80	1	0.10	2.04	1.62
1.90	4	0.03	8.17	6.39
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	0.5	0.20	1.02	0.77
2.30	0.5	0.20	1.02	0.77
2.40	1	0.10	2.04	1.52
2.50	0.5	0.20	1.02	0.75
2.60	0.5	0.20	1.02	0.74
2.70	0.5	0.20	1.02	0.74
2.80	0.5	0.20	1.02	0.73
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	2	0.05	4.09	2.80
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	2	0.05	4.09	2.60
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	4	0.03	8.17	4.95
4.70	5	0.02	10.22	6.13
4.80	4	0.03	8.17	4.87
4.90	4	0.03	8.17	4.83
5.00	5	0.02	10.22	5.98



Notes:

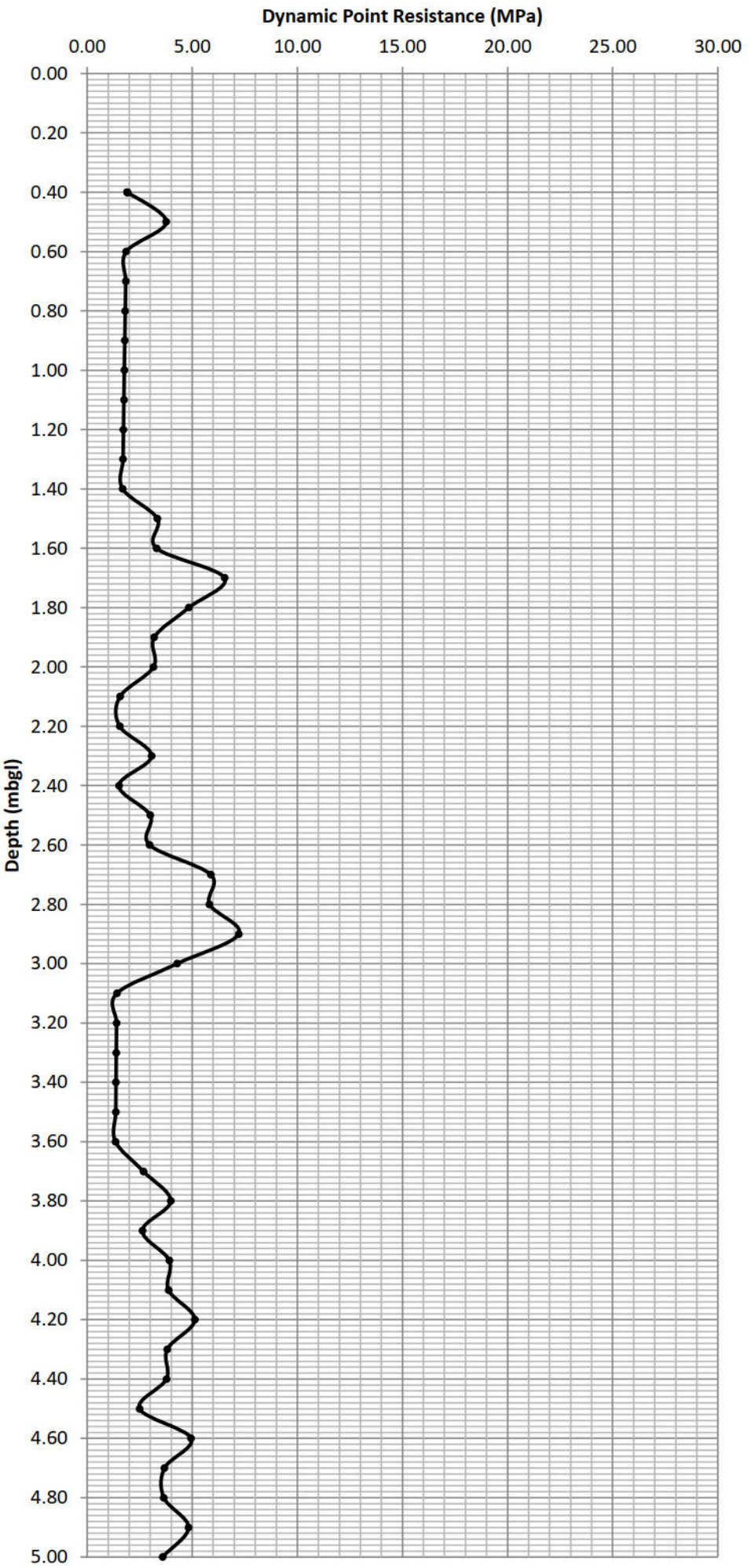
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS108	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	2	0.05	4.09	3.77
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	2	0.05	4.09	3.34
1.60	2	0.05	4.09	3.30
1.70	4	0.03	8.17	6.53
1.80	3	0.03	6.13	4.85
1.90	2	0.05	4.09	3.20
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	2	0.05	4.09	3.06
2.40	1	0.10	2.04	1.52
2.50	2	0.05	4.09	3.00
2.60	2	0.05	4.09	2.97
2.70	4	0.03	8.17	5.88
2.80	4	0.03	8.17	5.82
2.90	5	0.02	10.22	7.21
3.00	3	0.03	6.13	4.28
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	1	0.10	2.04	1.35
3.70	2	0.05	4.09	2.68
3.80	3	0.03	6.13	3.98
3.90	2	0.05	4.09	2.63
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	3	0.03	6.13	3.81
4.40	3	0.03	6.13	3.77
4.50	2	0.05	4.09	2.49
4.60	4	0.03	8.17	4.95
4.70	3	0.03	6.13	3.68
4.80	3	0.03	6.13	3.65
4.90	4	0.03	8.17	4.83
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

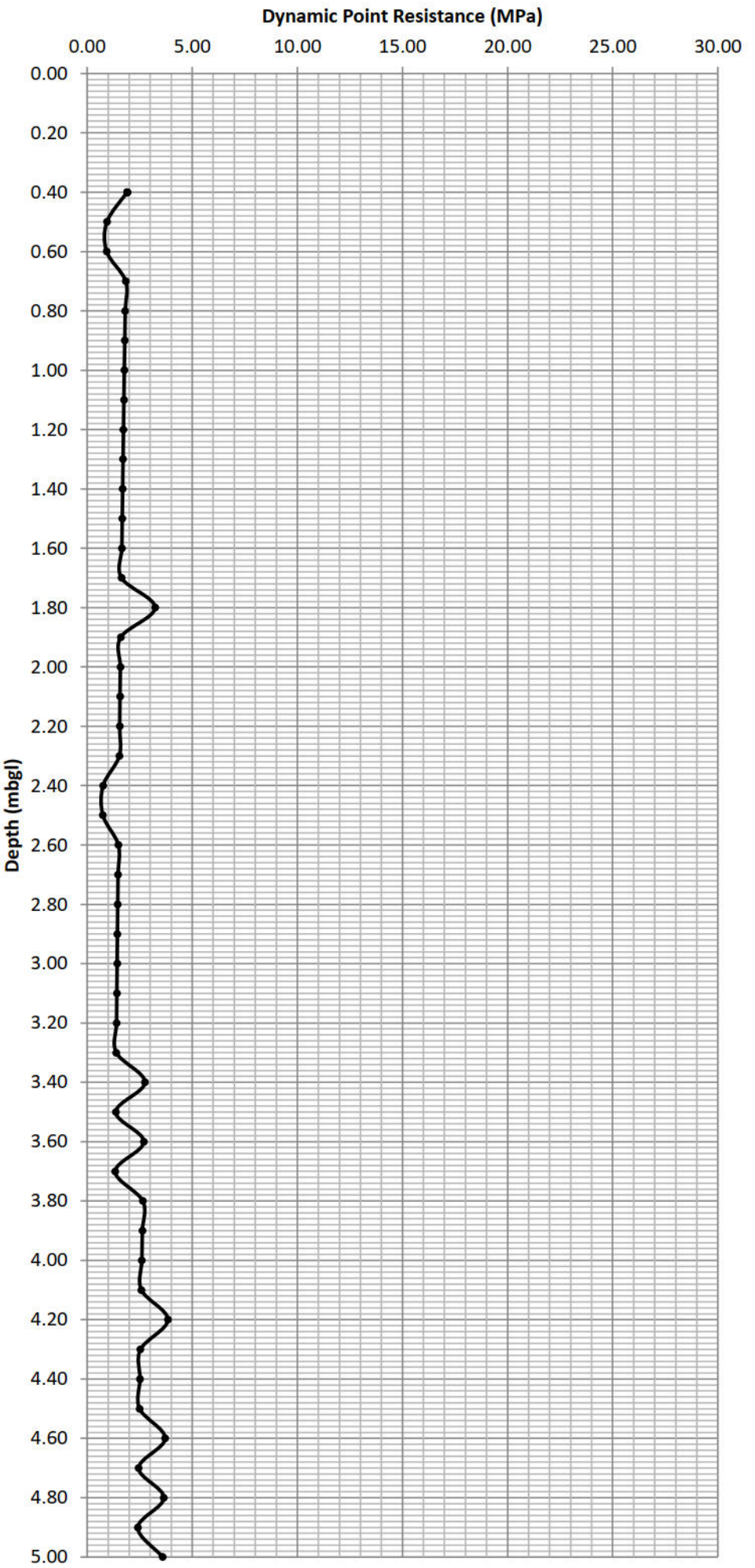
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS109

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	0.5	0.20	1.02	0.94
0.60	0.5	0.20	1.02	0.93
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	1	0.10	2.04	1.63
1.80	2	0.05	4.09	3.23
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	0.5	0.20	1.02	0.76
2.50	0.5	0.20	1.02	0.75
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	2	0.05	4.09	2.75
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	1	0.10	2.04	1.34
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	3	0.03	6.13	3.84
4.30	2	0.05	4.09	2.54
4.40	2	0.05	4.09	2.52
4.50	2	0.05	4.09	2.49
4.60	3	0.03	6.13	3.71
4.70	2	0.05	4.09	2.45
4.80	3	0.03	6.13	3.65
4.90	2	0.05	4.09	2.41
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

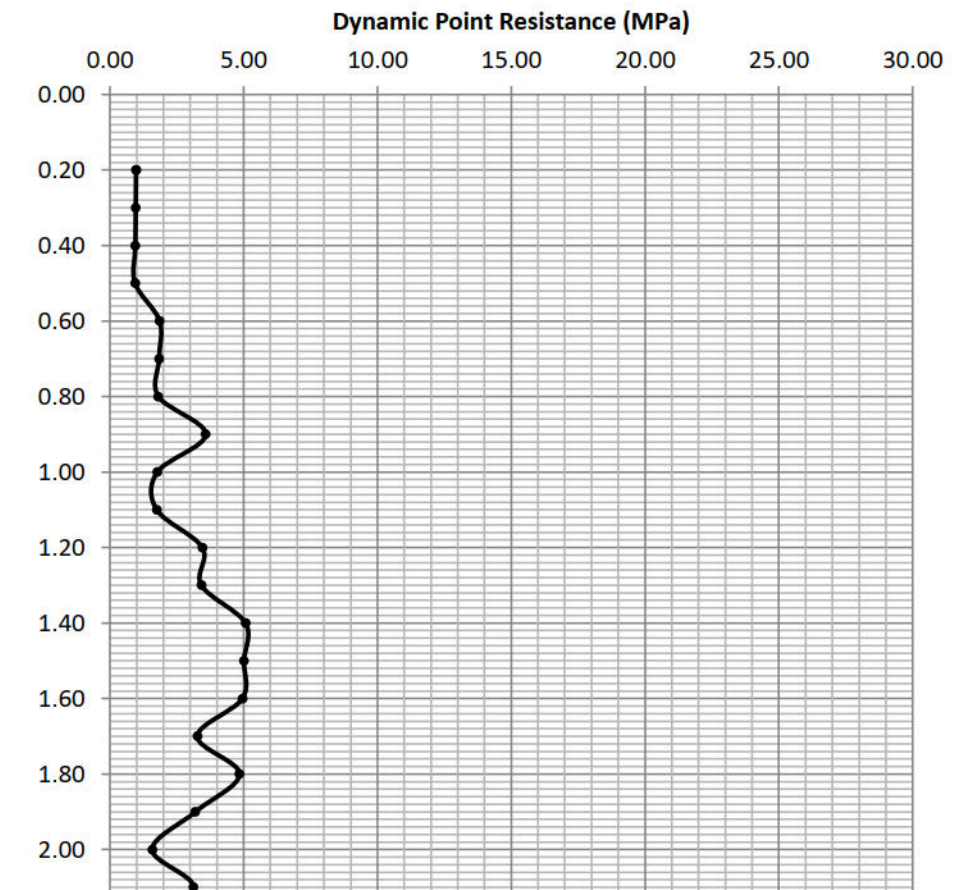
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS110

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	0.5	0.20	1.02	0.98
0.30	0.5	0.20	1.02	0.97
0.40	0.5	0.20	1.02	0.95
0.50	0.5	0.20	1.02	0.94
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	2	0.05	4.09	3.58
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	3	0.03	6.13	5.07
1.50	3	0.03	6.13	5.01
1.60	3	0.03	6.13	4.95
1.70	2	0.05	4.09	3.27
1.80	3	0.03	6.13	4.85
1.90	2	0.05	4.09	3.20
2.00	1	0.10	2.04	1.58
2.10	2	0.05	4.09	3.13
2.20	1	0.10	2.04	1.55
2.30	2	0.05	4.09	3.06
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	2	0.05	4.09	2.94
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	4	0.03	8.17	5.21
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	5	0.02	10.22	6.29
4.50	4	0.03	8.17	4.99
4.60	5	0.02	10.22	6.18
4.70	4	0.03	8.17	4.91
4.80	5	0.02	10.22	6.08
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

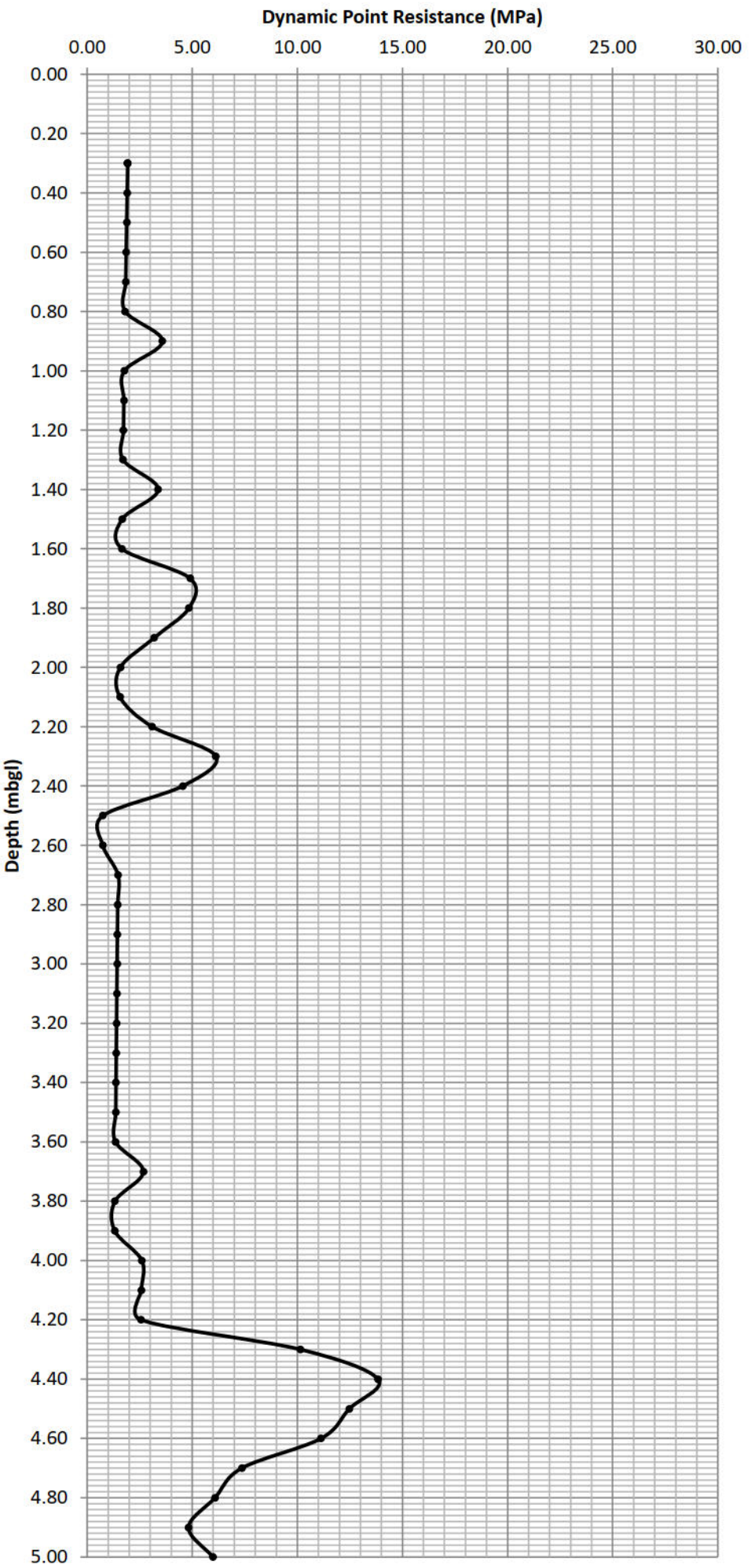
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS111	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	2	0.05	4.09	3.58
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	3	0.03	6.13	4.90
1.80	3	0.03	6.13	4.85
1.90	2	0.05	4.09	3.20
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	2	0.05	4.09	3.10
2.30	4	0.03	8.17	6.13
2.40	3	0.03	6.13	4.55
2.50	0.5	0.20	1.02	0.75
2.60	0.5	0.20	1.02	0.74
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	1	0.10	2.04	1.35
3.70	2	0.05	4.09	2.68
3.80	1	0.10	2.04	1.33
3.90	1	0.10	2.04	1.31
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	8	0.01	16.35	10.15
4.40	11	0.01	22.48	13.84
4.50	10	0.01	20.43	12.47
4.60	9	0.01	18.39	11.13
4.70	6	0.02	12.26	7.36
4.80	5	0.02	10.22	6.08
4.90	4	0.03	8.17	4.83
5.00	5	0.02	10.22	5.98



Notes:

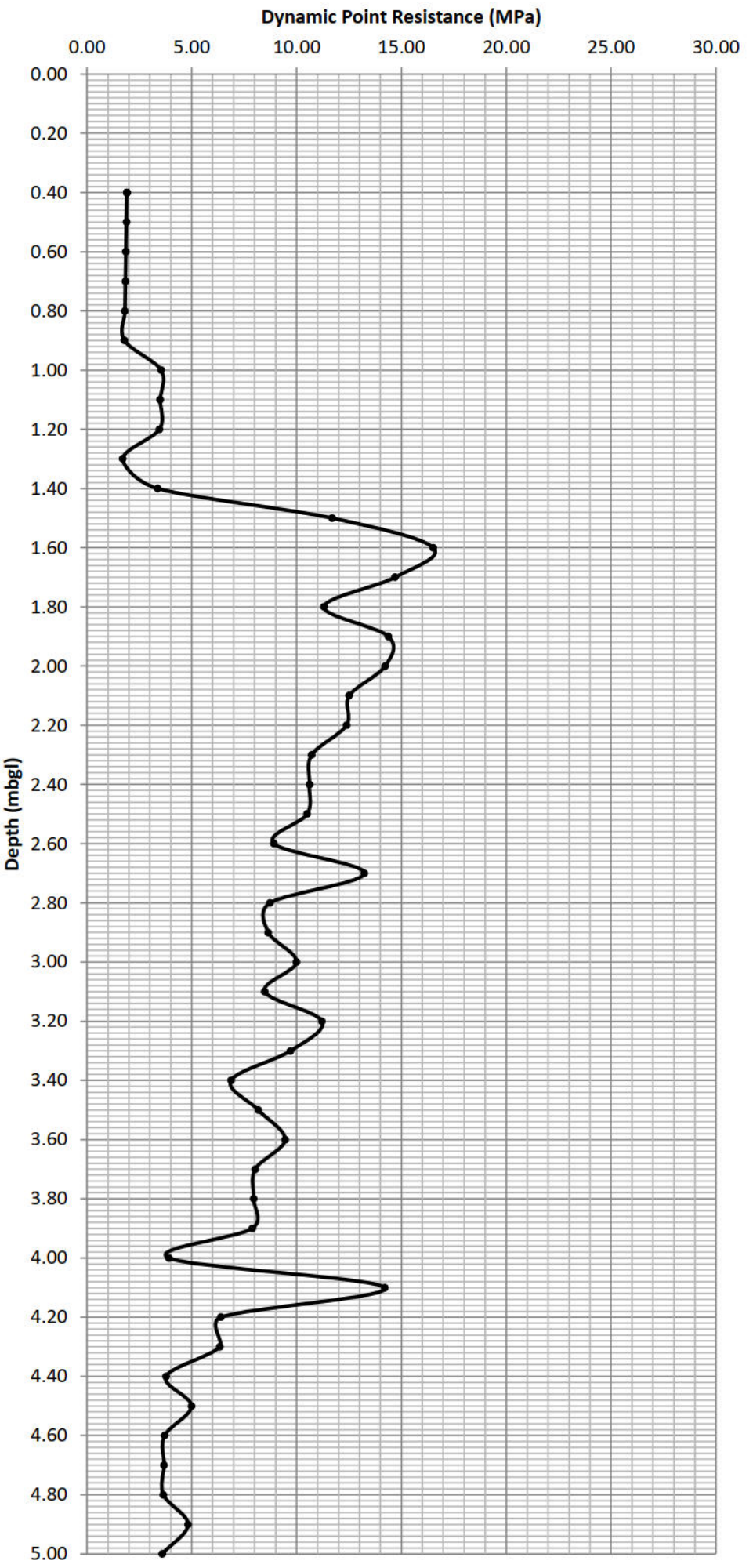
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS112	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	2	0.05	4.09	3.54
1.10	2	0.05	4.09	3.50
1.20	2	0.05	4.09	3.46
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	7	0.01	14.30	11.69
1.60	10	0.01	20.43	16.52
1.70	9	0.01	18.39	14.70
1.80	7	0.01	14.30	11.31
1.90	9	0.01	18.39	14.38
2.00	9	0.01	18.39	14.23
2.10	8	0.01	16.35	12.51
2.20	8	0.01	16.35	12.38
2.30	7	0.01	14.30	10.72
2.40	7	0.01	14.30	10.61
2.50	7	0.01	14.30	10.50
2.60	6	0.02	12.26	8.91
2.70	9	0.01	18.39	13.24
2.80	6	0.02	12.26	8.74
2.90	6	0.02	12.26	8.65
3.00	7	0.01	14.30	10.00
3.10	6	0.02	12.26	8.49
3.20	8	0.01	16.35	11.21
3.30	7	0.01	14.30	9.71
3.40	5	0.02	10.22	6.87
3.50	6	0.02	12.26	8.17
3.60	7	0.01	14.30	9.45
3.70	6	0.02	12.26	8.03
3.80	6	0.02	12.26	7.95
3.90	6	0.02	12.26	7.88
4.00	3	0.03	6.13	3.91
4.10	11	0.01	22.48	14.20
4.20	5	0.02	10.22	6.40
4.30	5	0.02	10.22	6.34
4.40	3	0.03	6.13	3.77
4.50	4	0.03	8.17	4.99
4.60	3	0.03	6.13	3.71
4.70	3	0.03	6.13	3.68
4.80	3	0.03	6.13	3.65
4.90	4	0.03	8.17	4.83
5.00	3	0.03	6.13	3.59



Notes:

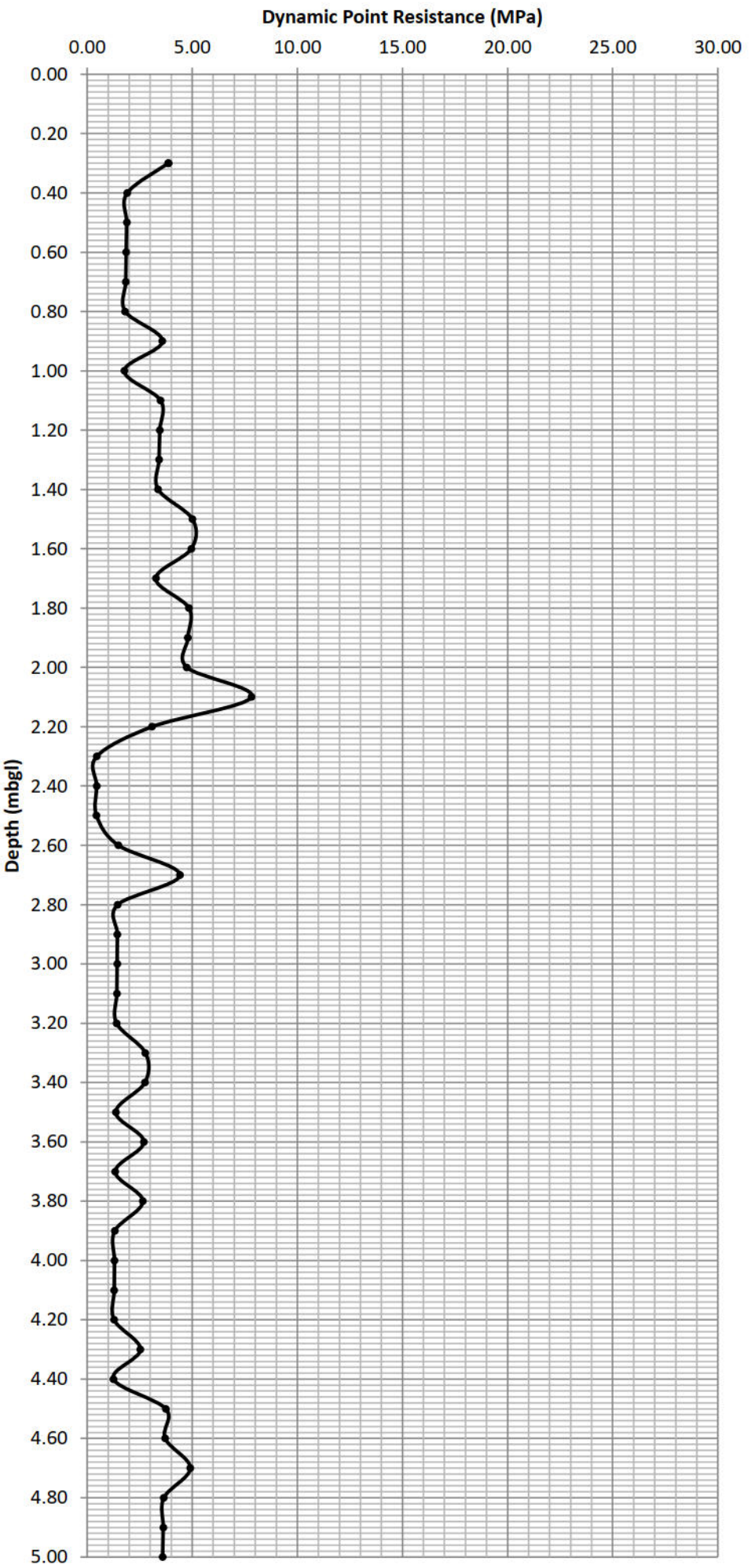
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS113	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	2	0.05	4.09	3.87
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	2	0.05	4.09	3.58
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	2	0.05	4.09	3.38
1.50	3	0.03	6.13	5.01
1.60	3	0.03	6.13	4.95
1.70	2	0.05	4.09	3.27
1.80	3	0.03	6.13	4.85
1.90	3	0.03	6.13	4.79
2.00	3	0.03	6.13	4.74
2.10	5	0.02	10.22	7.82
2.20	2	0.05	4.09	3.10
2.30	0.3	0.33	0.61	0.46
2.40	0.3	0.33	0.61	0.45
2.50	0.3	0.33	0.61	0.45
2.60	1	0.10	2.04	1.49
2.70	3	0.03	6.13	4.41
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	1	0.10	2.04	1.34
3.80	2	0.05	4.09	2.65
3.90	1	0.10	2.04	1.31
4.00	1	0.10	2.04	1.30
4.10	1	0.10	2.04	1.29
4.20	1	0.10	2.04	1.28
4.30	2	0.05	4.09	2.54
4.40	1	0.10	2.04	1.26
4.50	3	0.03	6.13	3.74
4.60	3	0.03	6.13	3.71
4.70	4	0.03	8.17	4.91
4.80	3	0.03	6.13	3.65
4.90	3	0.03	6.13	3.62
5.00	3	0.03	6.13	3.59



Notes:

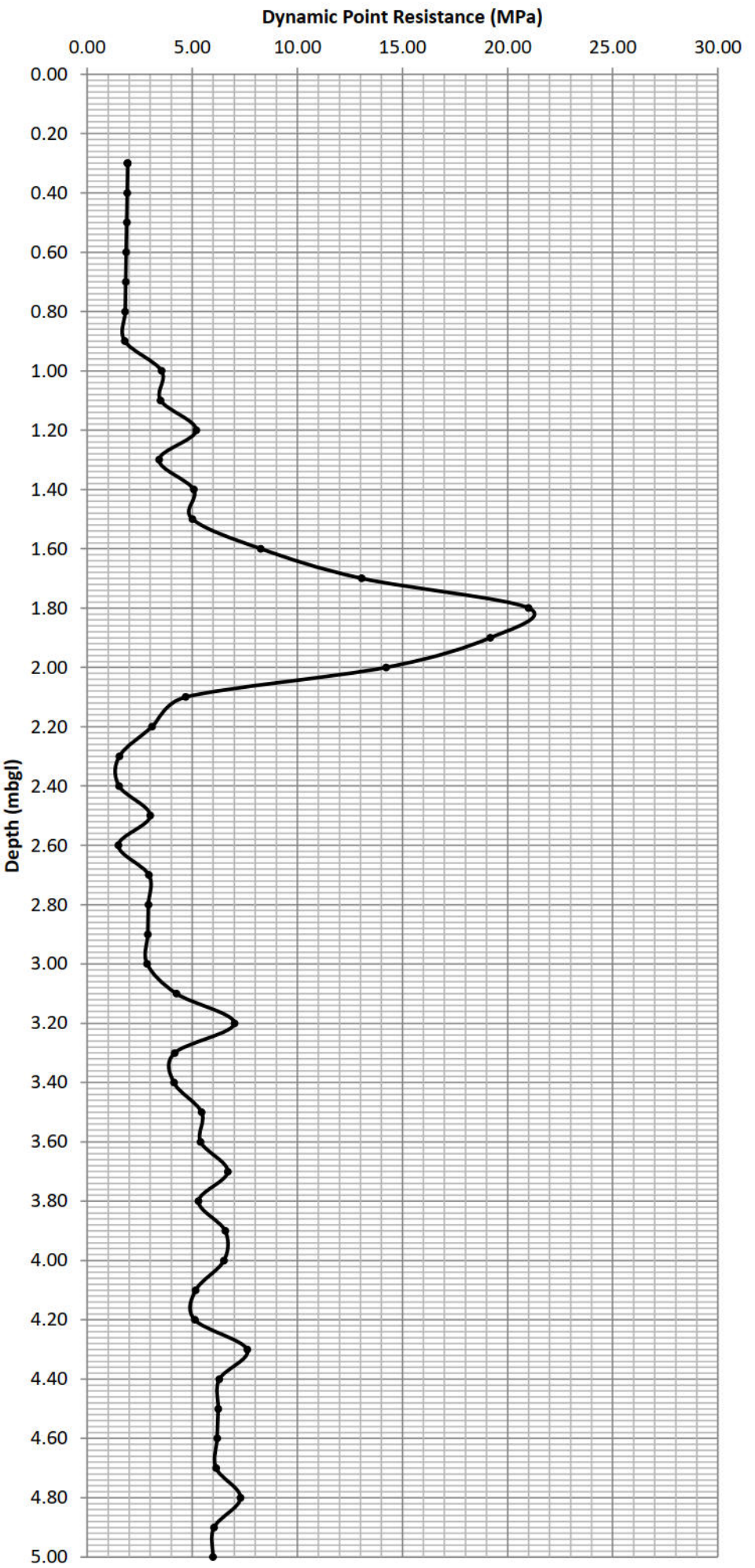
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS114	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	2	0.05	4.09	3.54
1.10	2	0.05	4.09	3.50
1.20	3	0.03	6.13	5.19
1.30	2	0.05	4.09	3.42
1.40	3	0.03	6.13	5.07
1.50	3	0.03	6.13	5.01
1.60	5	0.02	10.22	8.26
1.70	8	0.01	16.35	13.07
1.80	13	0.01	26.56	21.00
1.90	12	0.01	24.52	19.18
2.00	9	0.01	18.39	14.23
2.10	3	0.03	6.13	4.69
2.20	2	0.05	4.09	3.10
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	2	0.05	4.09	3.00
2.60	1	0.10	2.04	1.49
2.70	2	0.05	4.09	2.94
2.80	2	0.05	4.09	2.91
2.90	2	0.05	4.09	2.88
3.00	2	0.05	4.09	2.86
3.10	3	0.03	6.13	4.24
3.20	5	0.02	10.22	7.00
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	4	0.03	8.17	5.45
3.60	4	0.03	8.17	5.40
3.70	5	0.02	10.22	6.69
3.80	4	0.03	8.17	5.30
3.90	5	0.02	10.22	6.57
4.00	5	0.02	10.22	6.51
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	6	0.02	12.26	7.61
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	5	0.02	10.22	6.18
4.70	5	0.02	10.22	6.13
4.80	6	0.02	12.26	7.30
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

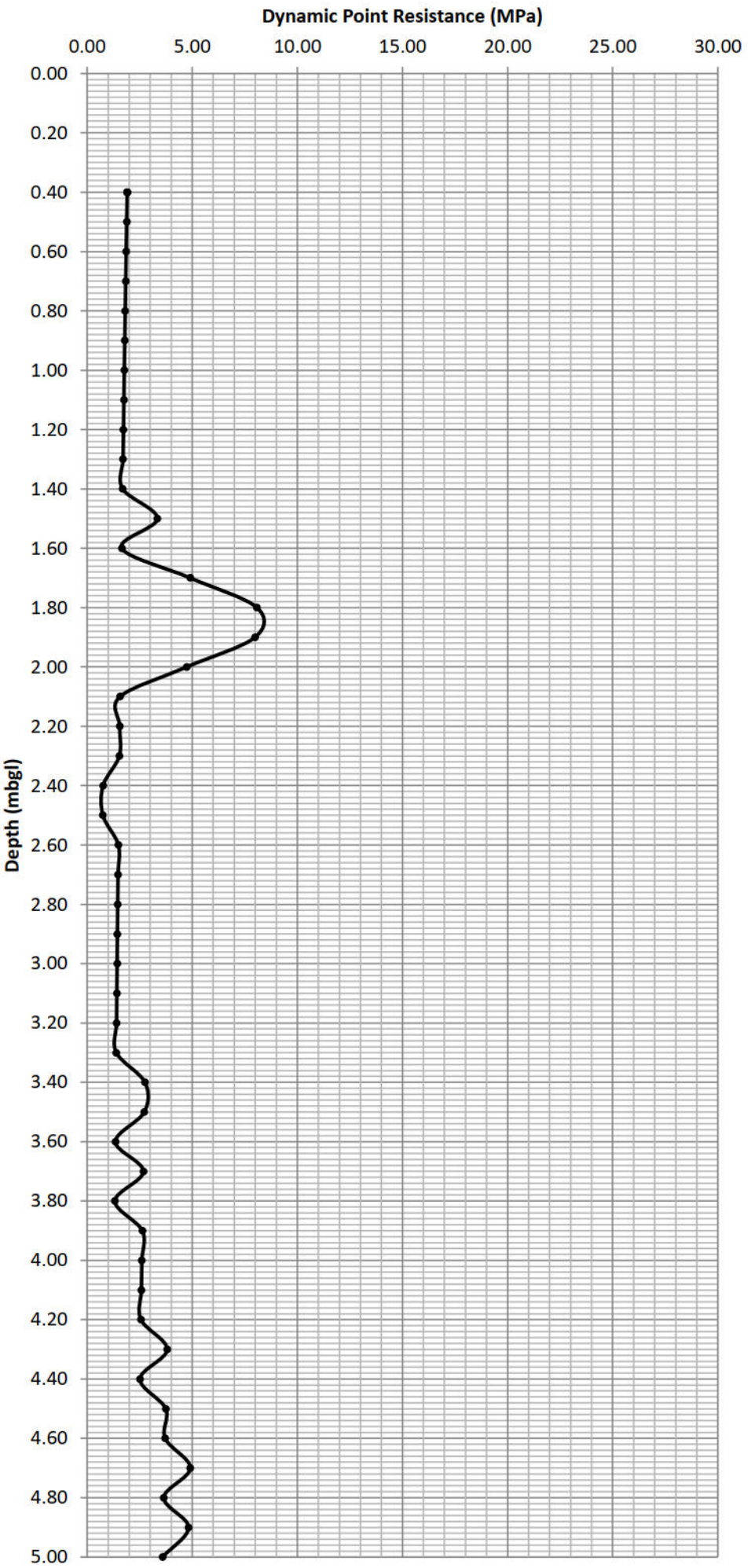
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS115

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	2	0.05	4.09	3.34
1.60	1	0.10	2.04	1.65
1.70	3	0.03	6.13	4.90
1.80	5	0.02	10.22	8.08
1.90	5	0.02	10.22	7.99
2.00	3	0.03	6.13	4.74
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	0.5	0.20	1.02	0.76
2.50	0.5	0.20	1.02	0.75
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	2	0.05	4.09	2.75
3.50	2	0.05	4.09	2.72
3.60	1	0.10	2.04	1.35
3.70	2	0.05	4.09	2.68
3.80	1	0.10	2.04	1.33
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	3	0.03	6.13	3.81
4.40	2	0.05	4.09	2.52
4.50	3	0.03	6.13	3.74
4.60	3	0.03	6.13	3.71
4.70	4	0.03	8.17	4.91
4.80	3	0.03	6.13	3.65
4.90	4	0.03	8.17	4.83
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

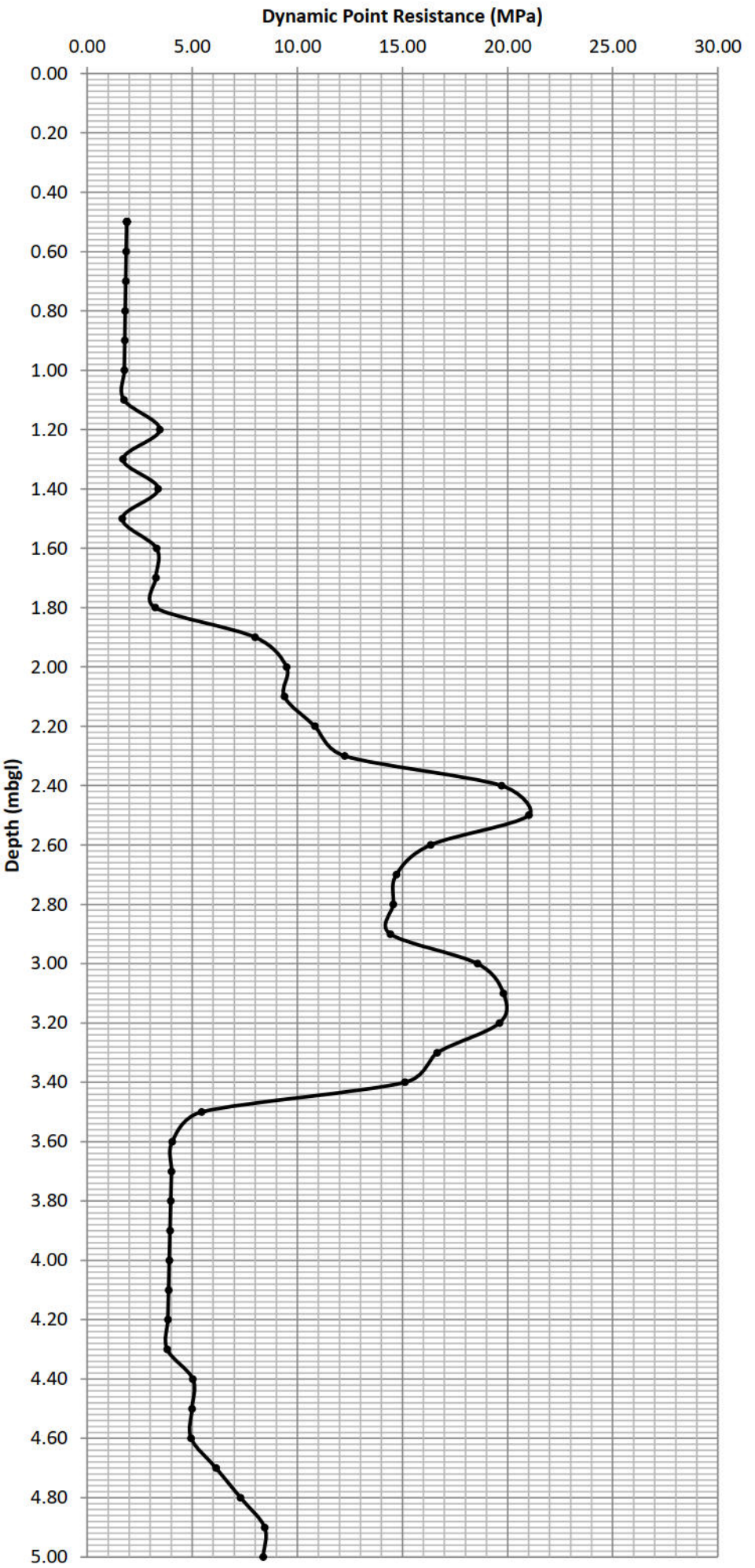
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS116

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40				
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	1	0.10	2.04	1.67
1.60	2	0.05	4.09	3.30
1.70	2	0.05	4.09	3.27
1.80	2	0.05	4.09	3.23
1.90	5	0.02	10.22	7.99
2.00	6	0.02	12.26	9.49
2.10	6	0.02	12.26	9.38
2.20	7	0.01	14.30	10.83
2.30	8	0.01	16.35	12.25
2.40	13	0.01	26.56	19.71
2.50	14	0.01	28.61	21.01
2.60	11	0.01	22.48	16.34
2.70	10	0.01	20.43	14.71
2.80	10	0.01	20.43	14.56
2.90	10	0.01	20.43	14.42
3.00	13	0.01	26.56	18.56
3.10	14	0.01	28.61	19.80
3.20	14	0.01	28.61	19.61
3.30	12	0.01	24.52	16.65
3.40	11	0.01	22.48	15.12
3.50	4	0.03	8.17	5.45
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	3	0.03	6.13	3.84
4.30	3	0.03	6.13	3.81
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	4	0.03	8.17	4.95
4.70	5	0.02	10.22	6.13
4.80	6	0.02	12.26	7.30
4.90	7	0.01	14.30	8.44
5.00	7	0.01	14.30	8.38



Notes:

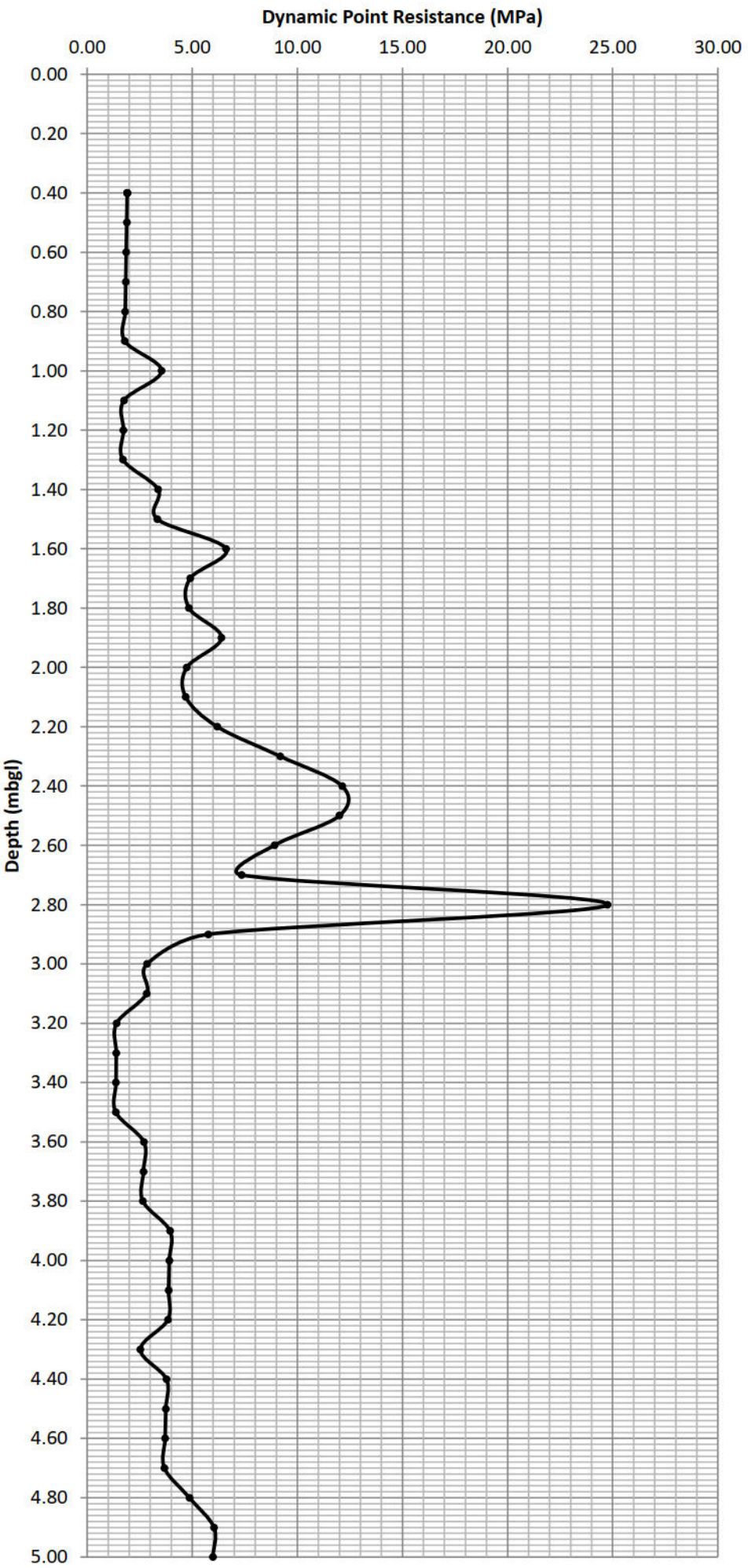
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS117	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	2	0.05	4.09	3.54
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	2	0.05	4.09	3.34
1.60	4	0.03	8.17	6.61
1.70	3	0.03	6.13	4.90
1.80	3	0.03	6.13	4.85
1.90	4	0.03	8.17	6.39
2.00	3	0.03	6.13	4.74
2.10	3	0.03	6.13	4.69
2.20	4	0.03	8.17	6.19
2.30	6	0.02	12.26	9.19
2.40	8	0.01	16.35	12.13
2.50	8	0.01	16.35	12.00
2.60	6	0.02	12.26	8.91
2.70	5	0.02	10.22	7.35
2.80	17	0.01	34.73	24.76
2.90	4	0.03	8.17	5.77
3.00	2	0.05	4.09	2.86
3.10	2	0.05	4.09	2.83
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	3	0.03	6.13	3.94
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	3	0.03	6.13	3.84
4.30	2	0.05	4.09	2.54
4.40	3	0.03	6.13	3.77
4.50	3	0.03	6.13	3.74
4.60	3	0.03	6.13	3.71
4.70	3	0.03	6.13	3.68
4.80	4	0.03	8.17	4.87
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

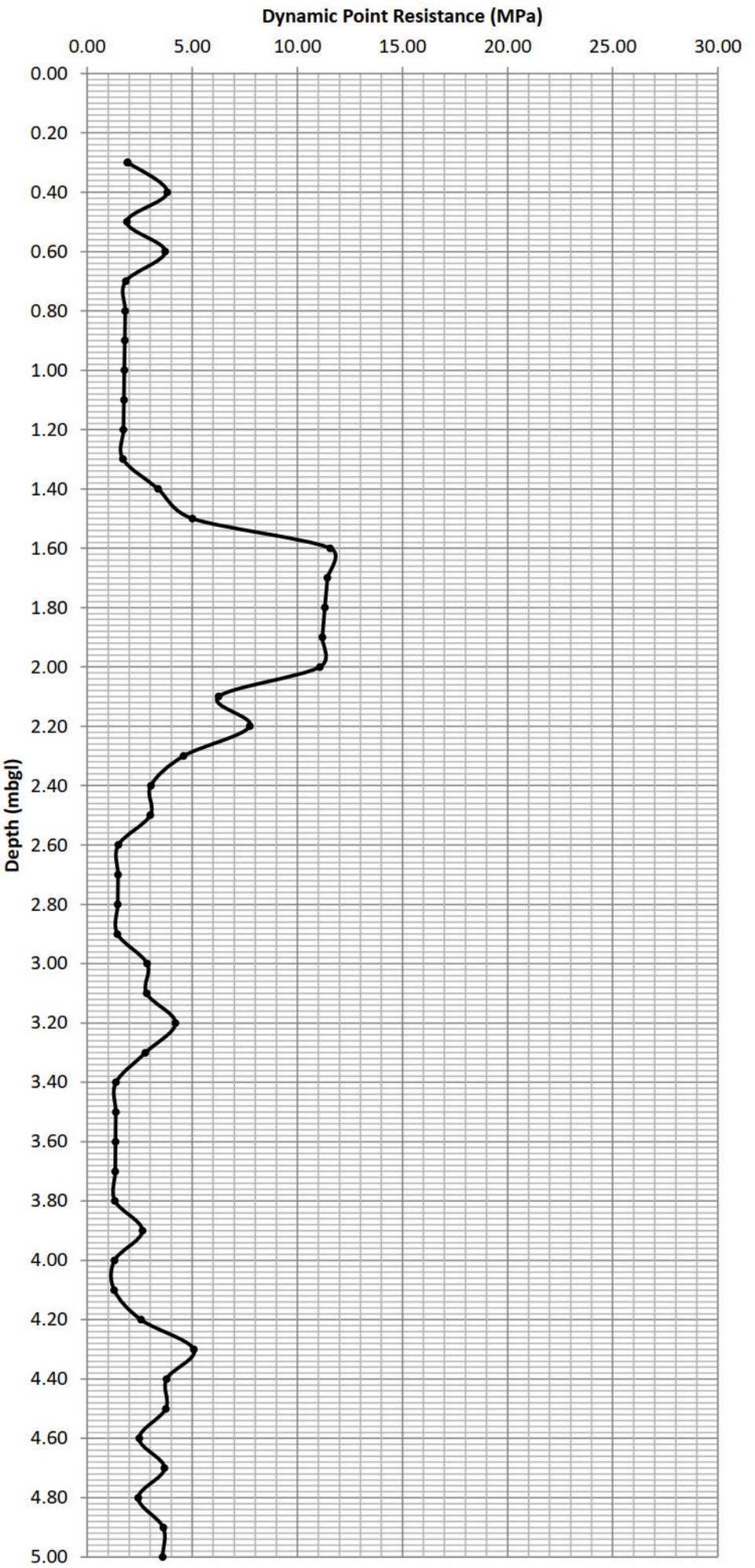
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS118

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	2	0.05	4.09	3.72
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	3	0.03	6.13	5.01
1.60	7	0.01	14.30	11.56
1.70	7	0.01	14.30	11.43
1.80	7	0.01	14.30	11.31
1.90	7	0.01	14.30	11.19
2.00	7	0.01	14.30	11.07
2.10	4	0.03	8.17	6.26
2.20	5	0.02	10.22	7.74
2.30	3	0.03	6.13	4.60
2.40	2	0.05	4.09	3.03
2.50	2	0.05	4.09	3.00
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	2	0.05	4.09	2.86
3.10	2	0.05	4.09	2.83
3.20	3	0.03	6.13	4.20
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	1	0.10	2.04	1.35
3.70	1	0.10	2.04	1.34
3.80	1	0.10	2.04	1.33
3.90	2	0.05	4.09	2.63
4.00	1	0.10	2.04	1.30
4.10	1	0.10	2.04	1.29
4.20	2	0.05	4.09	2.56
4.30	4	0.03	8.17	5.07
4.40	3	0.03	6.13	3.77
4.50	3	0.03	6.13	3.74
4.60	2	0.05	4.09	2.47
4.70	3	0.03	6.13	3.68
4.80	2	0.05	4.09	2.43
4.90	3	0.03	6.13	3.62
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

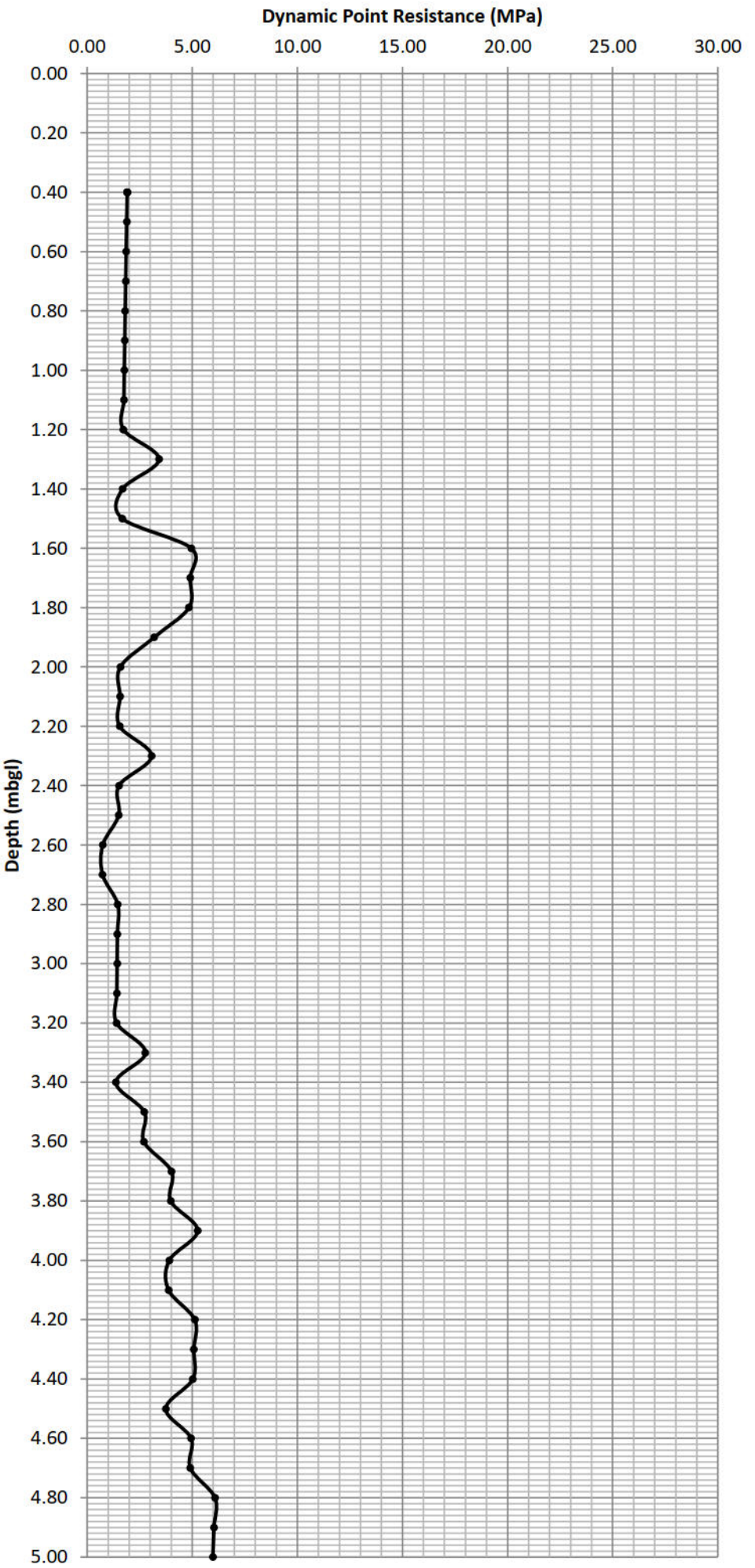
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS119

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	3	0.03	6.13	4.95
1.70	3	0.03	6.13	4.90
1.80	3	0.03	6.13	4.85
1.90	2	0.05	4.09	3.20
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	2	0.05	4.09	3.06
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	0.5	0.20	1.02	0.74
2.70	0.5	0.20	1.02	0.74
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	2	0.05	4.09	2.70
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	4	0.03	8.17	5.25
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	4	0.03	8.17	5.03
4.50	3	0.03	6.13	3.74
4.60	4	0.03	8.17	4.95
4.70	4	0.03	8.17	4.91
4.80	5	0.02	10.22	6.08
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

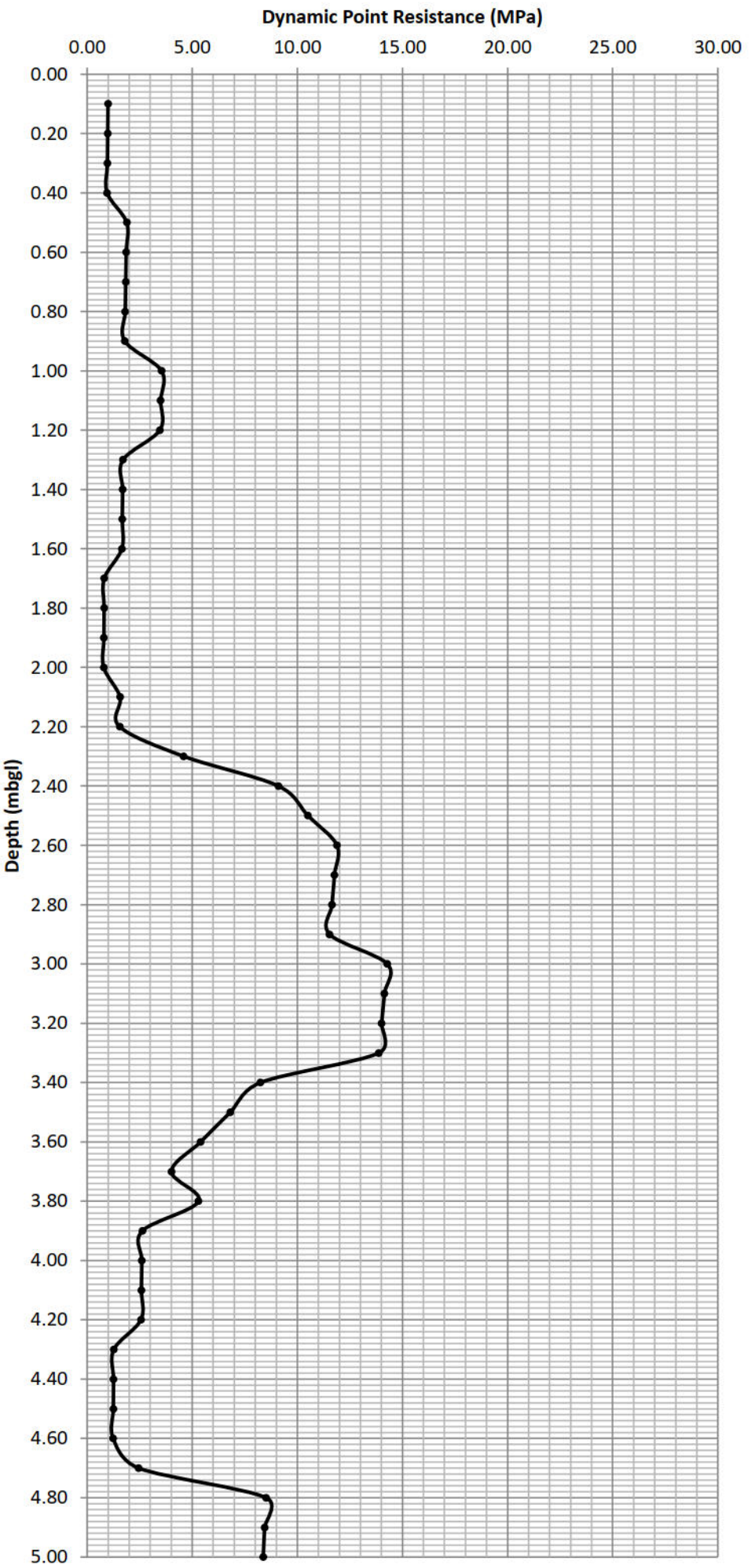
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS120

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	0.5	0.20	1.02	0.99
0.20	0.5	0.20	1.02	0.98
0.30	0.5	0.20	1.02	0.97
0.40	0.5	0.20	1.02	0.95
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	2	0.05	4.09	3.54
1.10	2	0.05	4.09	3.50
1.20	2	0.05	4.09	3.46
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	0.5	0.20	1.02	0.82
1.80	0.5	0.20	1.02	0.81
1.90	0.5	0.20	1.02	0.80
2.00	0.5	0.20	1.02	0.79
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	3	0.03	6.13	4.60
2.40	6	0.02	12.26	9.10
2.50	7	0.01	14.30	10.50
2.60	8	0.01	16.35	11.88
2.70	8	0.01	16.35	11.77
2.80	8	0.01	16.35	11.65
2.90	8	0.01	16.35	11.54
3.00	10	0.01	20.43	14.28
3.10	10	0.01	20.43	14.14
3.20	10	0.01	20.43	14.01
3.30	10	0.01	20.43	13.88
3.40	6	0.02	12.26	8.25
3.50	5	0.02	10.22	6.81
3.60	4	0.03	8.17	5.40
3.70	3	0.03	6.13	4.01
3.80	4	0.03	8.17	5.30
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	1	0.10	2.04	1.27
4.40	1	0.10	2.04	1.26
4.50	1	0.10	2.04	1.25
4.60	1	0.10	2.04	1.24
4.70	2	0.05	4.09	2.45
4.80	7	0.01	14.30	8.51
4.90	7	0.01	14.30	8.44
5.00	7	0.01	14.30	8.38



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

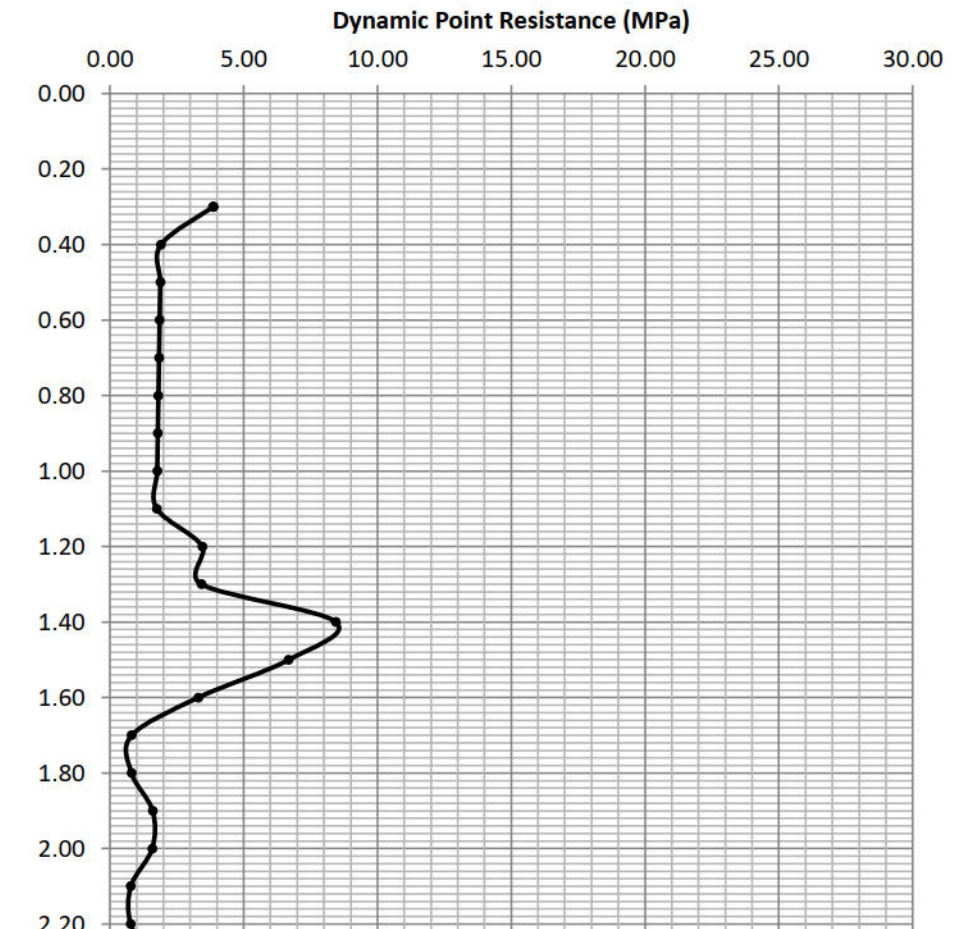
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS121

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	2	0.05	4.09	3.87
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	5	0.02	10.22	8.45
1.50	4	0.03	8.17	6.68
1.60	2	0.05	4.09	3.30
1.70	0.5	0.20	1.02	0.82
1.80	0.5	0.20	1.02	0.81
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	0.5	0.20	1.02	0.78
2.20	0.5	0.20	1.02	0.77
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	2	0.05	4.09	2.88
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	2	0.05	4.09	2.80
3.30	3	0.03	6.13	4.16
3.40	2	0.05	4.09	2.75
3.50	2	0.05	4.09	2.72
3.60	2	0.05	4.09	2.70
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	4	0.03	8.17	5.21
4.10	3	0.03	6.13	3.87
4.20	3	0.03	6.13	3.84
4.30	4	0.03	8.17	5.07
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	4	0.03	8.17	4.95
4.70	4	0.03	8.17	4.91
4.80	5	0.02	10.22	6.08
4.90	4	0.03	8.17	4.83
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

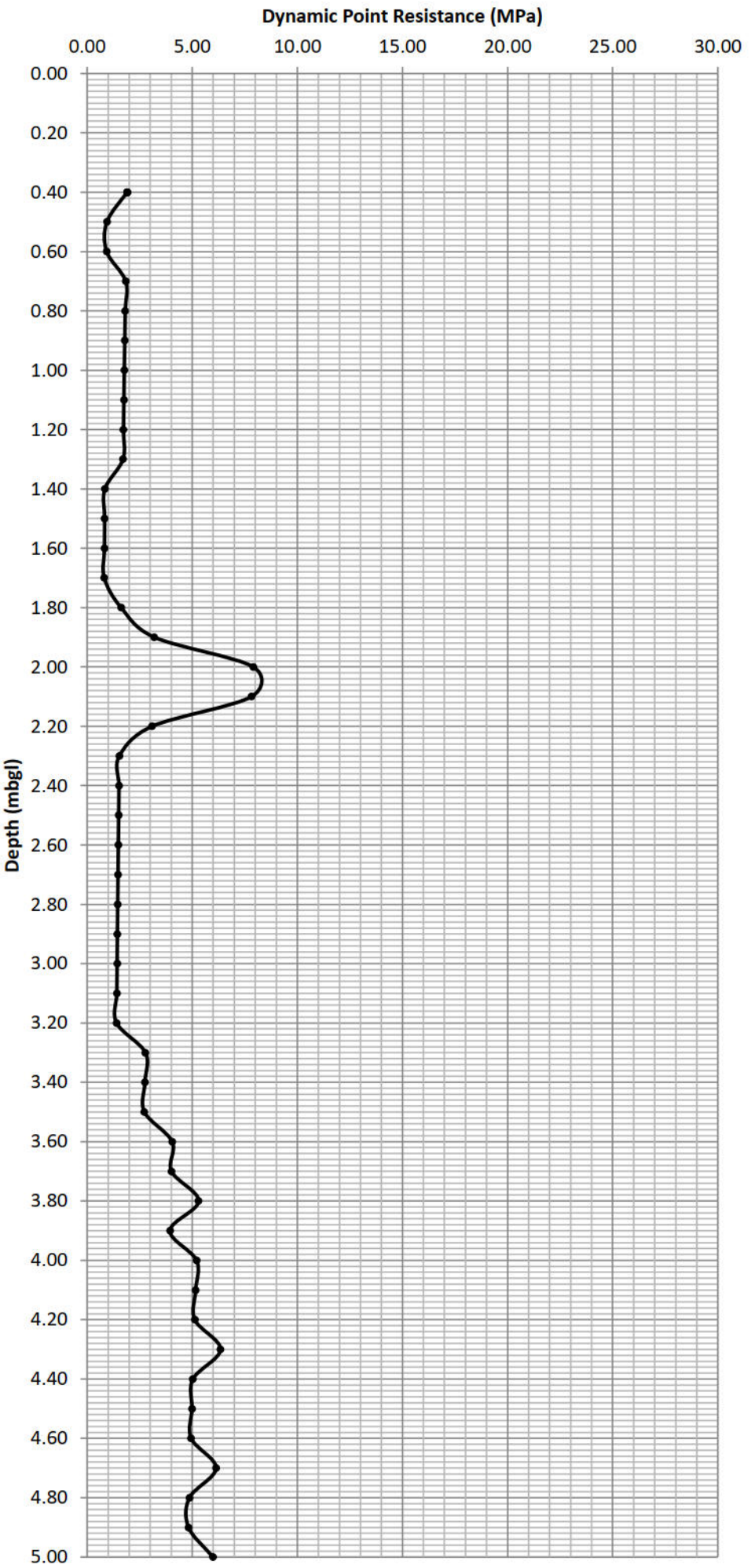
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS122

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	0.5	0.20	1.02	0.94
0.60	0.5	0.20	1.02	0.93
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	0.5	0.20	1.02	0.84
1.50	0.5	0.20	1.02	0.84
1.60	0.5	0.20	1.02	0.83
1.70	0.5	0.20	1.02	0.82
1.80	1	0.10	2.04	1.62
1.90	2	0.05	4.09	3.20
2.00	5	0.02	10.22	7.90
2.10	5	0.02	10.22	7.82
2.20	2	0.05	4.09	3.10
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	2	0.05	4.09	2.72
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	4	0.03	8.17	5.30
3.90	3	0.03	6.13	3.94
4.00	4	0.03	8.17	5.21
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	5	0.02	10.22	6.34
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	4	0.03	8.17	4.95
4.70	5	0.02	10.22	6.13
4.80	4	0.03	8.17	4.87
4.90	4	0.03	8.17	4.83
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

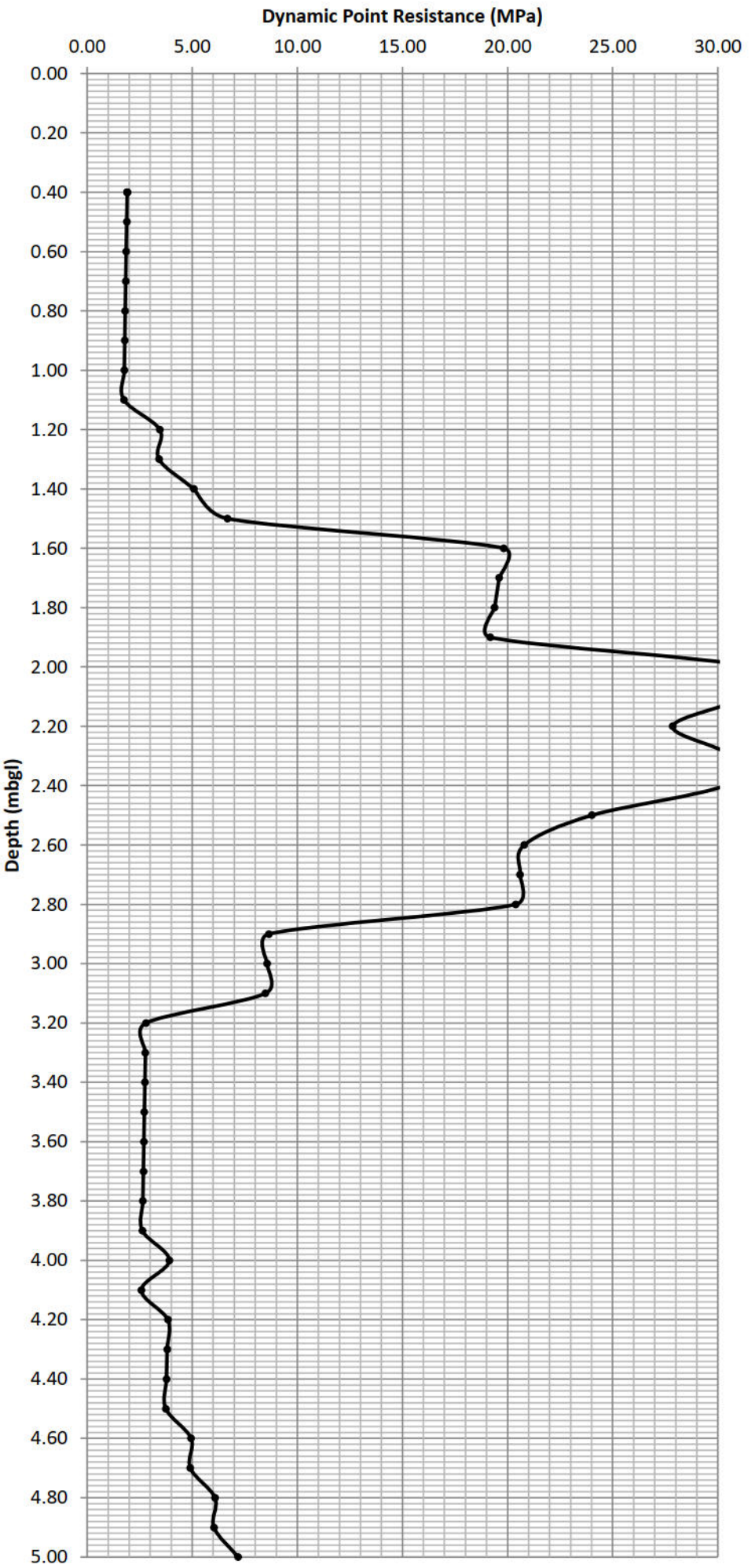
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS123

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	3	0.03	6.13	5.07
1.50	4	0.03	8.17	6.68
1.60	12	0.01	24.52	19.82
1.70	12	0.01	24.52	19.60
1.80	12	0.01	24.52	19.39
1.90	12	0.01	24.52	19.18
2.00	20	0.01	40.86	31.62
2.10	20	0.01	40.86	31.28
2.20	18	0.01	36.78	27.86
2.30	20	0.01	40.86	30.63
2.40	20	0.01	40.86	30.32
2.50	16	0.01	32.69	24.01
2.60	14	0.01	28.61	20.80
2.70	14	0.01	28.61	20.59
2.80	14	0.01	28.61	20.39
2.90	6	0.02	12.26	8.65
3.00	6	0.02	12.26	8.57
3.10	6	0.02	12.26	8.49
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	2	0.05	4.09	2.72
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	3	0.03	6.13	3.91
4.10	2	0.05	4.09	2.58
4.20	3	0.03	6.13	3.84
4.30	3	0.03	6.13	3.81
4.40	3	0.03	6.13	3.77
4.50	3	0.03	6.13	3.74
4.60	4	0.03	8.17	4.95
4.70	4	0.03	8.17	4.91
4.80	5	0.02	10.22	6.08
4.90	5	0.02	10.22	6.03
5.00	6	0.02	12.26	7.18



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

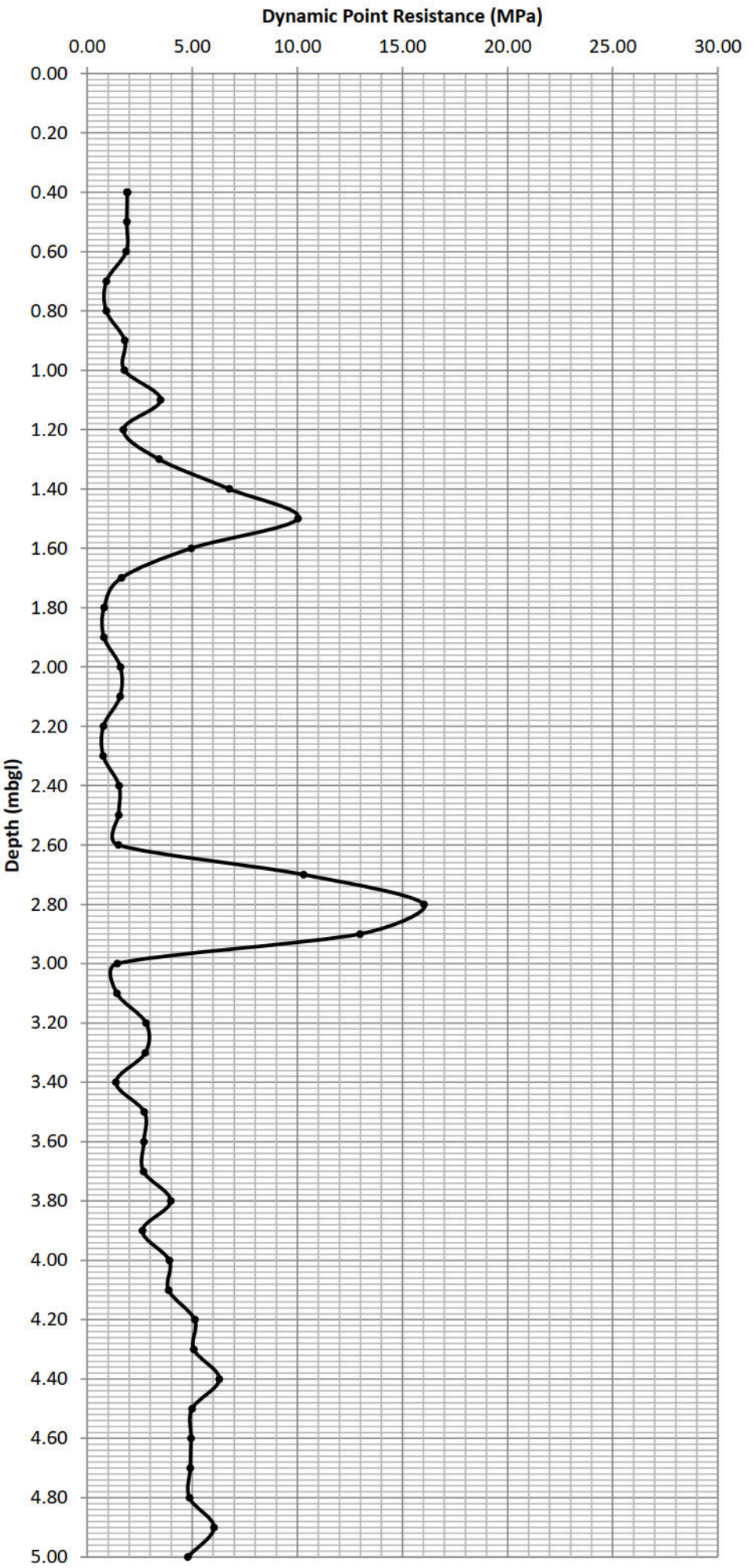
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Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS124

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	0.5	0.20	1.02	0.92
0.80	0.5	0.20	1.02	0.91
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	4	0.03	8.17	6.76
1.50	6	0.02	12.26	10.02
1.60	3	0.03	6.13	4.95
1.70	1	0.10	2.04	1.63
1.80	0.5	0.20	1.02	0.81
1.90	0.5	0.20	1.02	0.80
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	0.5	0.20	1.02	0.77
2.30	0.5	0.20	1.02	0.77
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	7	0.01	14.30	10.29
2.80	11	0.01	22.48	16.02
2.90	9	0.01	18.39	12.98
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	3	0.03	6.13	3.98
3.90	2	0.05	4.09	2.63
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	5	0.02	10.22	6.29
4.50	4	0.03	8.17	4.99
4.60	4	0.03	8.17	4.95
4.70	4	0.03	8.17	4.91
4.80	4	0.03	8.17	4.87
4.90	5	0.02	10.22	6.03
5.00	4	0.03	8.17	4.79



Notes:

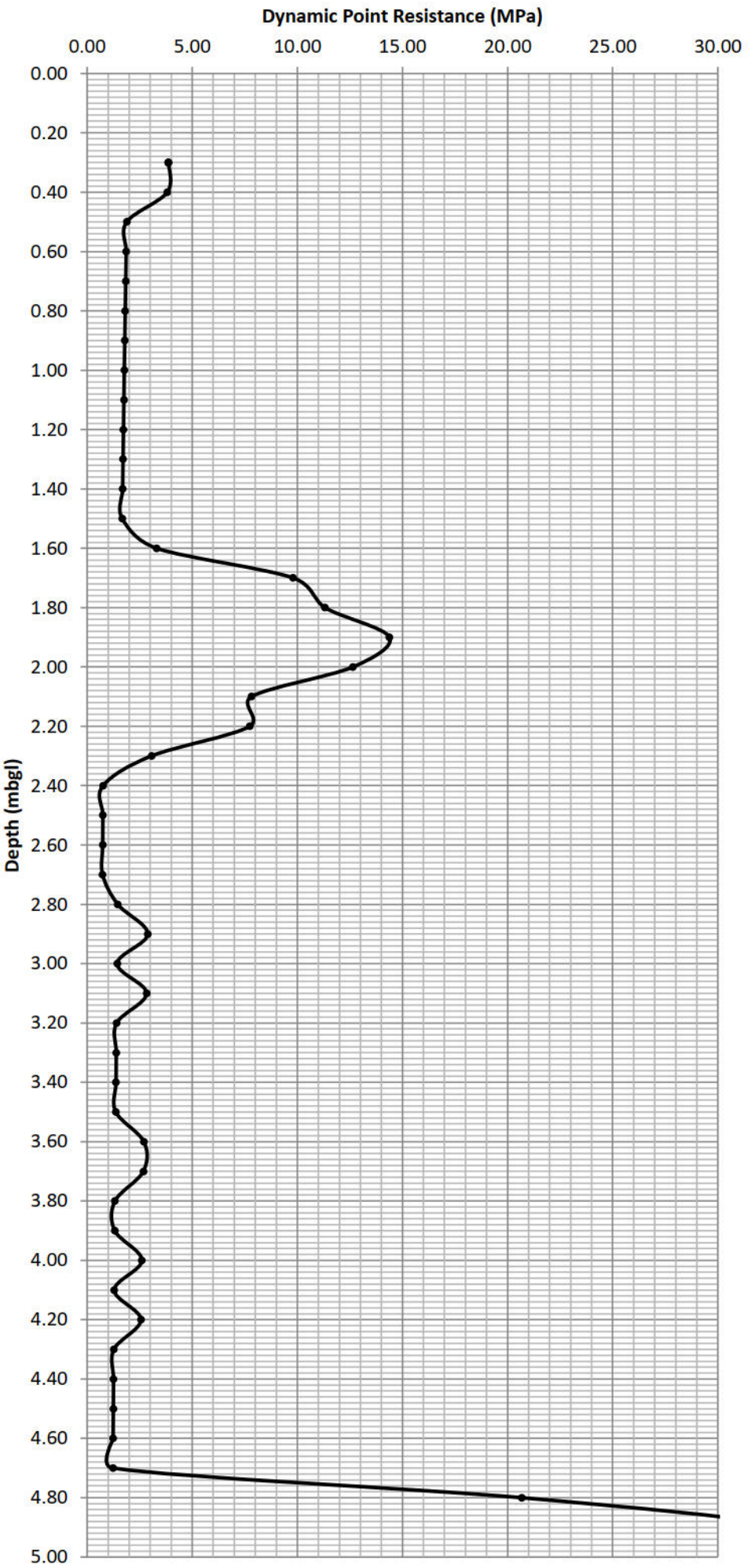
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS125	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	2	0.05	4.09	3.87
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	2	0.05	4.09	3.30
1.70	6	0.02	12.26	9.80
1.80	7	0.01	14.30	11.31
1.90	9	0.01	18.39	14.38
2.00	8	0.01	16.35	12.65
2.10	5	0.02	10.22	7.82
2.20	5	0.02	10.22	7.74
2.30	2	0.05	4.09	3.06
2.40	0.5	0.20	1.02	0.76
2.50	0.5	0.20	1.02	0.75
2.60	0.5	0.20	1.02	0.74
2.70	0.5	0.20	1.02	0.74
2.80	1	0.10	2.04	1.46
2.90	2	0.05	4.09	2.88
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	1	0.10	2.04	1.33
3.90	1	0.10	2.04	1.31
4.00	2	0.05	4.09	2.60
4.10	1	0.10	2.04	1.29
4.20	2	0.05	4.09	2.56
4.30	1	0.10	2.04	1.27
4.40	1	0.10	2.04	1.26
4.50	1	0.10	2.04	1.25
4.60	1	0.10	2.04	1.24
4.70	1	0.10	2.04	1.23
4.80	17	0.01	34.73	20.68
4.90	28	0.00	57.21	33.78
5.00	30	0.00	61.30	35.90



Notes:

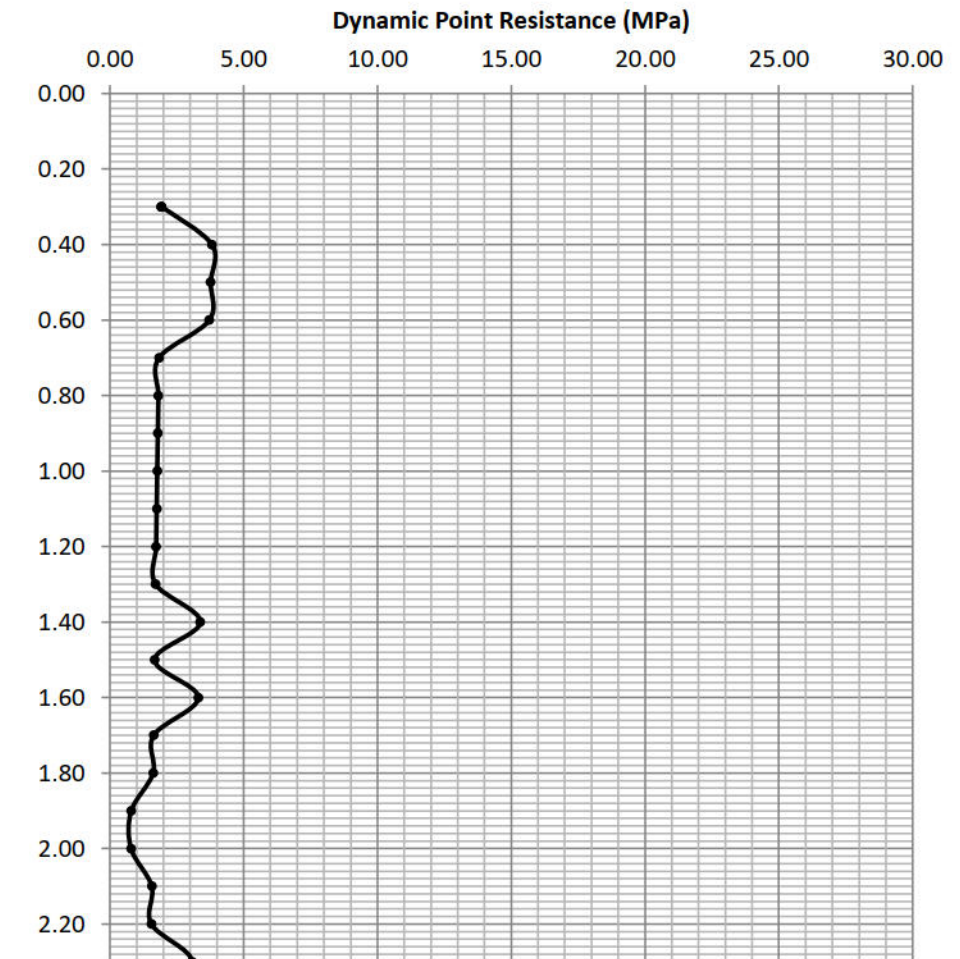
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS126	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	2	0.05	4.09	3.77
0.60	2	0.05	4.09	3.72
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	1	0.10	2.04	1.67
1.60	2	0.05	4.09	3.30
1.70	1	0.10	2.04	1.63
1.80	1	0.10	2.04	1.62
1.90	0.5	0.20	1.02	0.80
2.00	0.5	0.20	1.02	0.79
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	2	0.05	4.09	3.06
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	2	0.05	4.09	2.94
2.80	5	0.02	10.22	7.28
2.90	6	0.02	12.26	8.65
3.00	7	0.01	14.30	10.00
3.10	5	0.02	10.22	7.07
3.20	6	0.02	12.26	8.41
3.30	6	0.02	12.26	8.33
3.40	3	0.03	6.13	4.12
3.50	2	0.05	4.09	2.72
3.60	1	0.10	2.04	1.35
3.70	1	0.10	2.04	1.34
3.80	1	0.10	2.04	1.33
3.90	1	0.10	2.04	1.31
4.00	1	0.10	2.04	1.30
4.10	1	0.10	2.04	1.29
4.20	1	0.10	2.04	1.28
4.30	1	0.10	2.04	1.27
4.40	1	0.10	2.04	1.26
4.50	1	0.10	2.04	1.25
4.60	1	0.10	2.04	1.24
4.70	1	0.10	2.04	1.23
4.80	2	0.05	4.09	2.43
4.90	1	0.10	2.04	1.21
5.00	2	0.05	4.09	2.39



Notes:

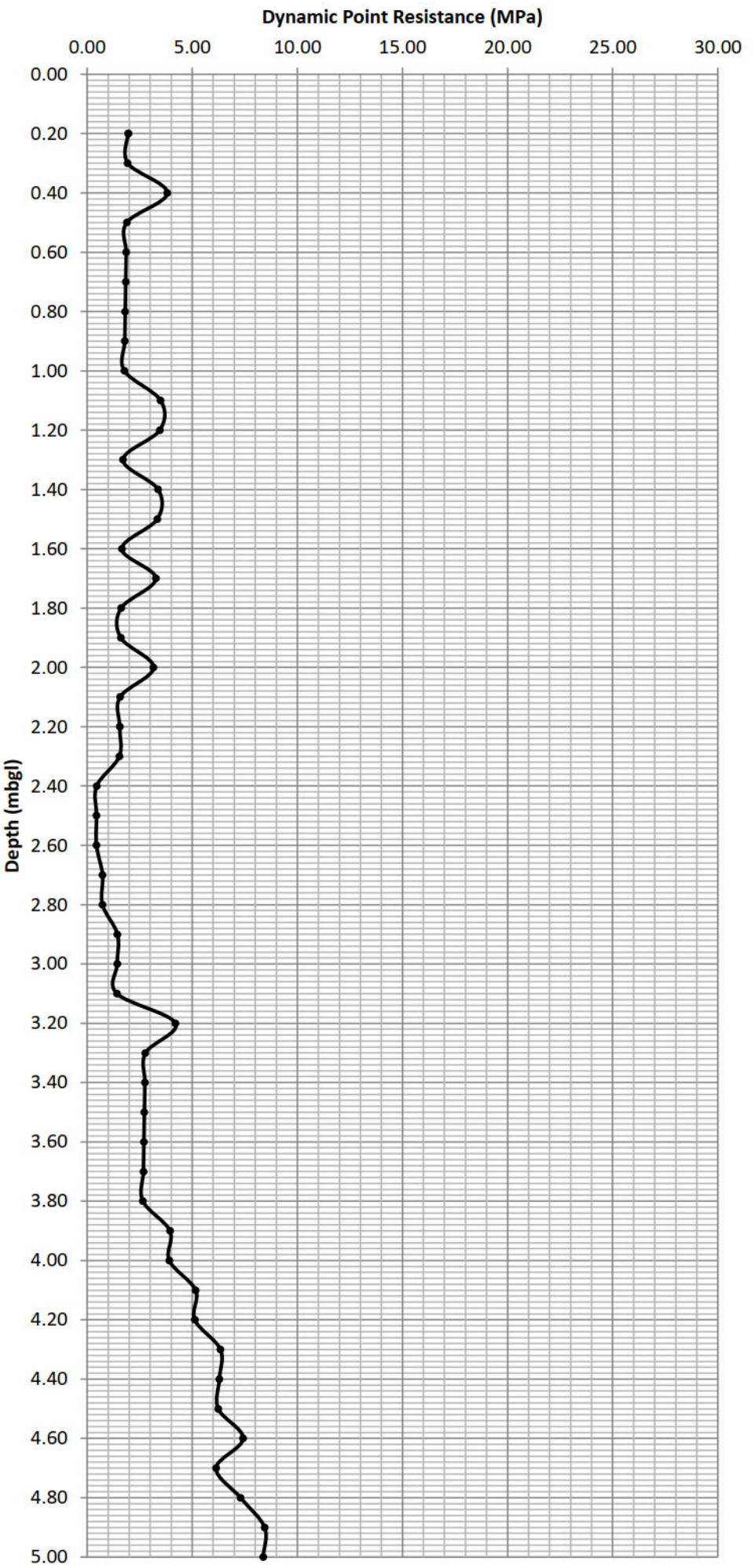
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS127	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	1	0.10	2.04	1.96
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	2	0.05	4.09	3.46
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	2	0.05	4.09	3.34
1.60	1	0.10	2.04	1.65
1.70	2	0.05	4.09	3.27
1.80	1	0.10	2.04	1.62
1.90	1	0.10	2.04	1.60
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	0.3	0.33	0.61	0.45
2.50	0.3	0.33	0.61	0.45
2.60	0.3	0.33	0.61	0.45
2.70	0.5	0.20	1.02	0.74
2.80	0.5	0.20	1.02	0.73
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	3	0.03	6.13	4.20
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	2	0.05	4.09	2.72
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	3	0.03	6.13	3.94
4.00	3	0.03	6.13	3.91
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	6	0.02	12.26	7.42
4.70	5	0.02	10.22	6.13
4.80	6	0.02	12.26	7.30
4.90	7	0.01	14.30	8.44
5.00	7	0.01	14.30	8.38



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

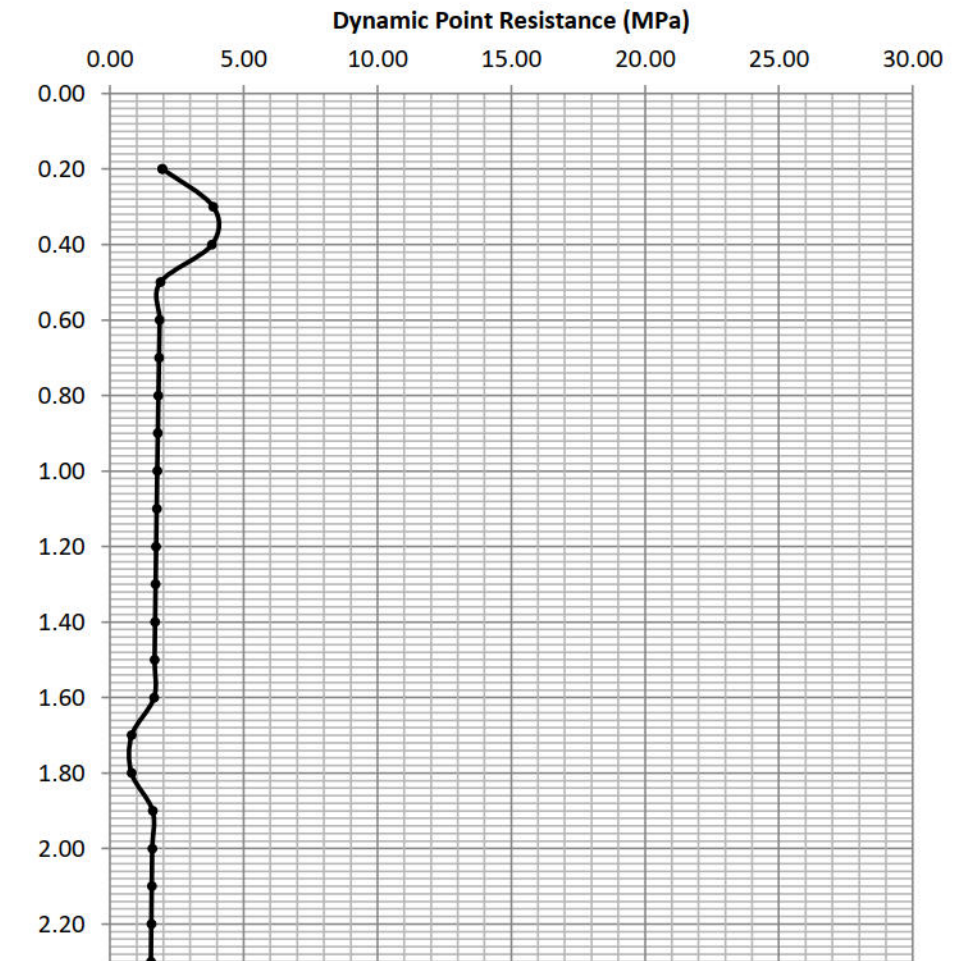
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS128

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	1	0.10	2.04	1.96
0.30	2	0.05	4.09	3.87
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	0.5	0.20	1.02	0.82
1.80	0.5	0.20	1.02	0.81
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	2	0.05	4.09	3.00
2.60	1	0.10	2.04	1.49
2.70	2	0.05	4.09	2.94
2.80	2	0.05	4.09	2.91
2.90	1	0.10	2.04	1.44
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	4	0.03	8.17	5.30
3.90	4	0.03	8.17	5.25
4.00	4	0.03	8.17	5.21
4.10	5	0.02	10.22	6.45
4.20	6	0.02	12.26	7.68
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	7	0.01	14.30	8.73
4.60	6	0.02	12.26	7.42
4.70	6	0.02	12.26	7.36
4.80	7	0.01	14.30	8.51
4.90	8	0.01	16.35	9.65
5.00	7	0.01	14.30	8.38



Notes:

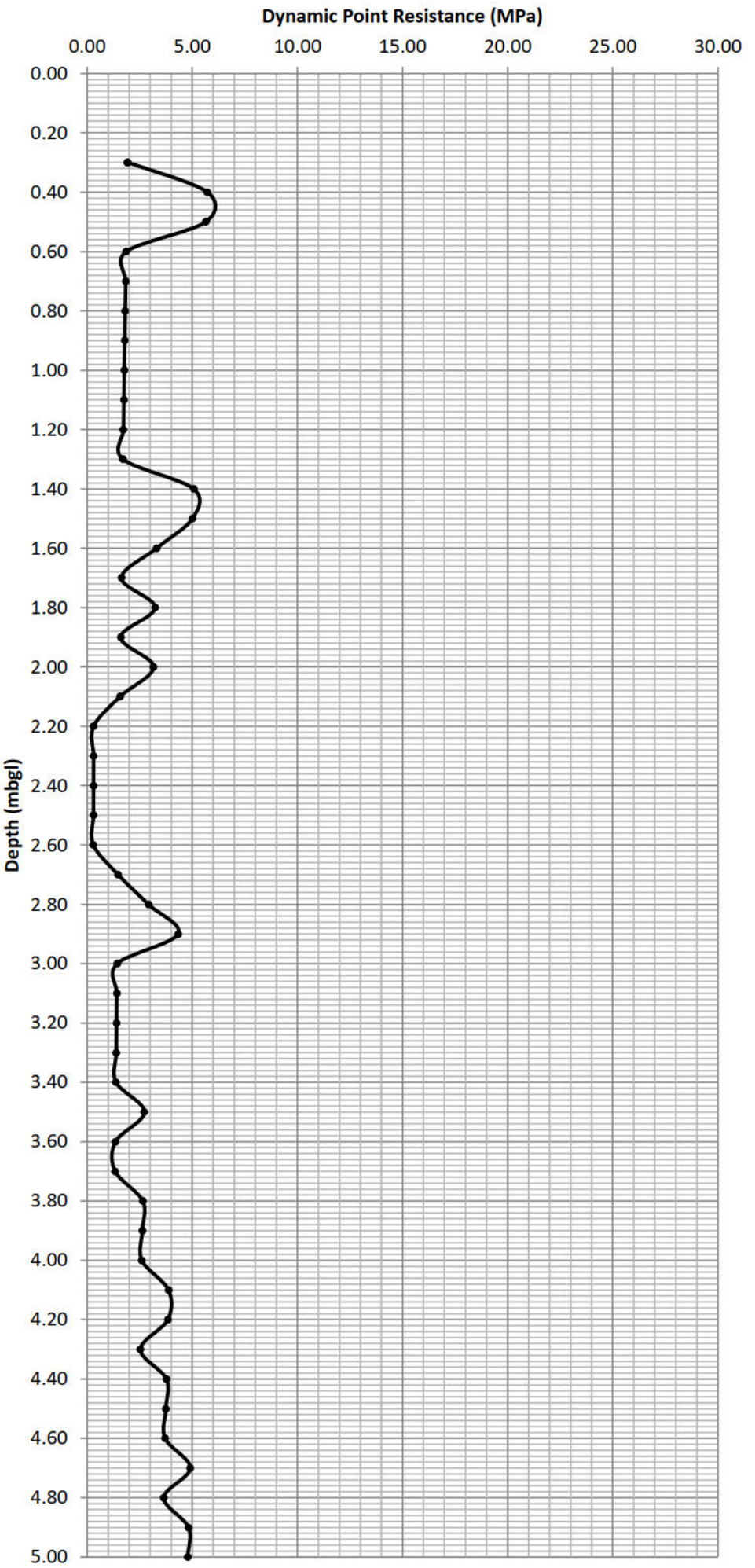
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS129	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	3	0.03	6.13	5.72
0.50	3	0.03	6.13	5.65
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	3	0.03	6.13	5.07
1.50	3	0.03	6.13	5.01
1.60	2	0.05	4.09	3.30
1.70	1	0.10	2.04	1.63
1.80	2	0.05	4.09	3.23
1.90	1	0.10	2.04	1.60
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	0.2	0.50	0.41	0.31
2.30	0.2	0.50	0.41	0.31
2.40	0.2	0.50	0.41	0.30
2.50	0.2	0.50	0.41	0.30
2.60	0.2	0.50	0.41	0.30
2.70	1	0.10	2.04	1.47
2.80	2	0.05	4.09	2.91
2.90	3	0.03	6.13	4.33
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	1	0.10	2.04	1.35
3.70	1	0.10	2.04	1.34
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	3	0.03	6.13	3.87
4.20	3	0.03	6.13	3.84
4.30	2	0.05	4.09	2.54
4.40	3	0.03	6.13	3.77
4.50	3	0.03	6.13	3.74
4.60	3	0.03	6.13	3.71
4.70	4	0.03	8.17	4.91
4.80	3	0.03	6.13	3.65
4.90	4	0.03	8.17	4.83
5.00	4	0.03	8.17	4.79



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

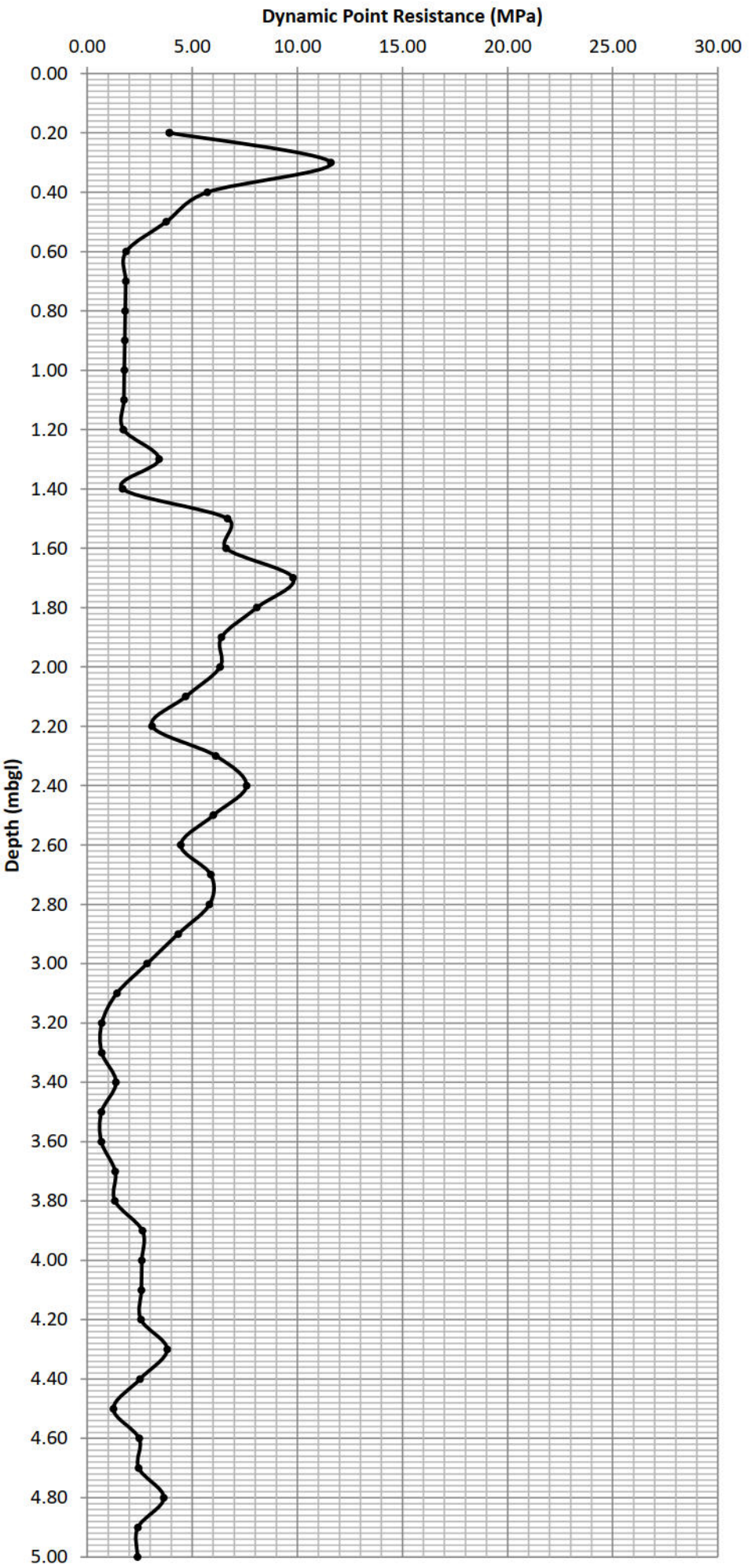
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS130

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	2	0.05	4.09	3.92
0.30	6	0.02	12.26	11.60
0.40	3	0.03	6.13	5.72
0.50	2	0.05	4.09	3.77
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	1	0.10	2.04	1.69
1.50	4	0.03	8.17	6.68
1.60	4	0.03	8.17	6.61
1.70	6	0.02	12.26	9.80
1.80	5	0.02	10.22	8.08
1.90	4	0.03	8.17	6.39
2.00	4	0.03	8.17	6.32
2.10	3	0.03	6.13	4.69
2.20	2	0.05	4.09	3.10
2.30	4	0.03	8.17	6.13
2.40	5	0.02	10.22	7.58
2.50	4	0.03	8.17	6.00
2.60	3	0.03	6.13	4.46
2.70	4	0.03	8.17	5.88
2.80	4	0.03	8.17	5.82
2.90	3	0.03	6.13	4.33
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	0.5	0.20	1.02	0.70
3.30	0.5	0.20	1.02	0.69
3.40	1	0.10	2.04	1.37
3.50	0.5	0.20	1.02	0.68
3.60	0.5	0.20	1.02	0.67
3.70	1	0.10	2.04	1.34
3.80	1	0.10	2.04	1.33
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	3	0.03	6.13	3.81
4.40	2	0.05	4.09	2.52
4.50	1	0.10	2.04	1.25
4.60	2	0.05	4.09	2.47
4.70	2	0.05	4.09	2.45
4.80	3	0.03	6.13	3.65
4.90	2	0.05	4.09	2.41
5.00	2	0.05	4.09	2.39



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

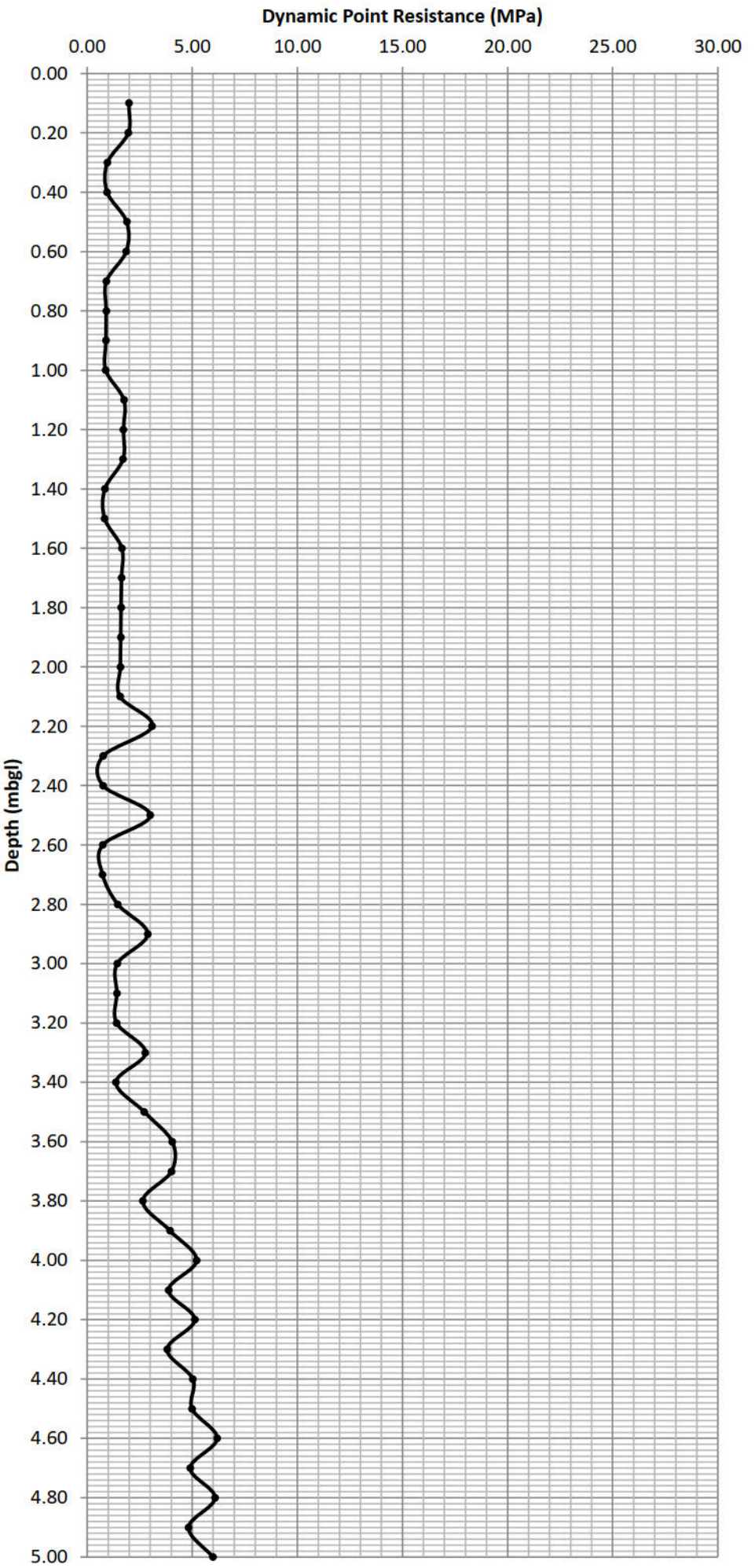
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS131

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	1	0.10	2.04	1.98
0.20	1	0.10	2.04	1.96
0.30	0.5	0.20	1.02	0.97
0.40	0.5	0.20	1.02	0.95
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	0.5	0.20	1.02	0.92
0.80	0.5	0.20	1.02	0.91
0.90	0.5	0.20	1.02	0.90
1.00	0.5	0.20	1.02	0.89
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	0.5	0.20	1.02	0.84
1.50	0.5	0.20	1.02	0.84
1.60	1	0.10	2.04	1.65
1.70	1	0.10	2.04	1.63
1.80	1	0.10	2.04	1.62
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	2	0.05	4.09	3.10
2.30	0.5	0.20	1.02	0.77
2.40	0.5	0.20	1.02	0.76
2.50	2	0.05	4.09	3.00
2.60	0.5	0.20	1.02	0.74
2.70	0.5	0.20	1.02	0.74
2.80	1	0.10	2.04	1.46
2.90	2	0.05	4.09	2.88
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	2	0.05	4.09	2.65
3.90	3	0.03	6.13	3.94
4.00	4	0.03	8.17	5.21
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	3	0.03	6.13	3.81
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	5	0.02	10.22	6.18
4.70	4	0.03	8.17	4.91
4.80	5	0.02	10.22	6.08
4.90	4	0.03	8.17	4.83
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

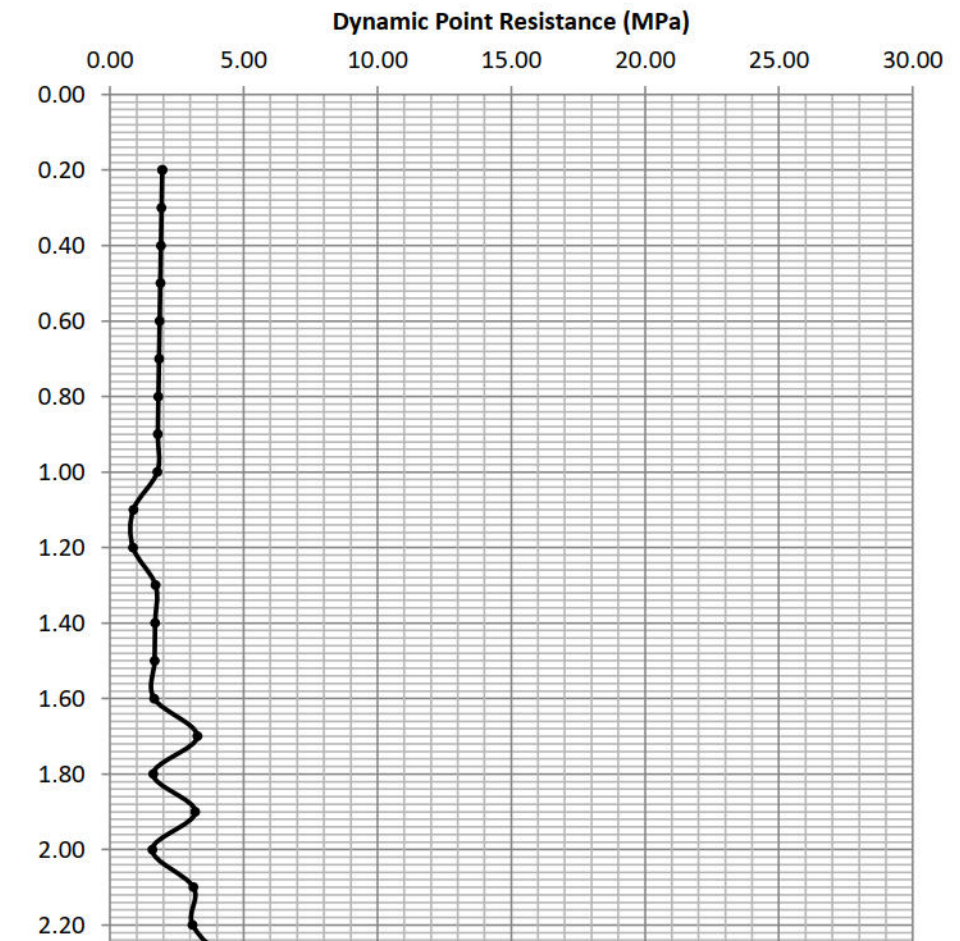
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS132

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	1	0.10	2.04	1.96
0.30	1	0.10	2.04	1.93
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	0.5	0.20	1.02	0.87
1.20	0.5	0.20	1.02	0.86
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	2	0.05	4.09	3.27
1.80	1	0.10	2.04	1.62
1.90	2	0.05	4.09	3.20
2.00	1	0.10	2.04	1.58
2.10	2	0.05	4.09	3.13
2.20	2	0.05	4.09	3.10
2.30	3	0.03	6.13	4.60
2.40	5	0.02	10.22	7.58
2.50	7	0.01	14.30	10.50
2.60	7	0.01	14.30	10.40
2.70	9	0.01	18.39	13.24
2.80	5	0.02	10.22	7.28
2.90	6	0.02	12.26	8.65
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	2	0.05	4.09	2.80
3.30	1	0.10	2.04	1.39
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	3	0.03	6.13	3.77
4.50	4	0.03	8.17	4.99
4.60	5	0.02	10.22	6.18
4.70	4	0.03	8.17	4.91
4.80	4	0.03	8.17	4.87
4.90	5	0.02	10.22	6.03
5.00	4	0.03	8.17	4.79



Notes:

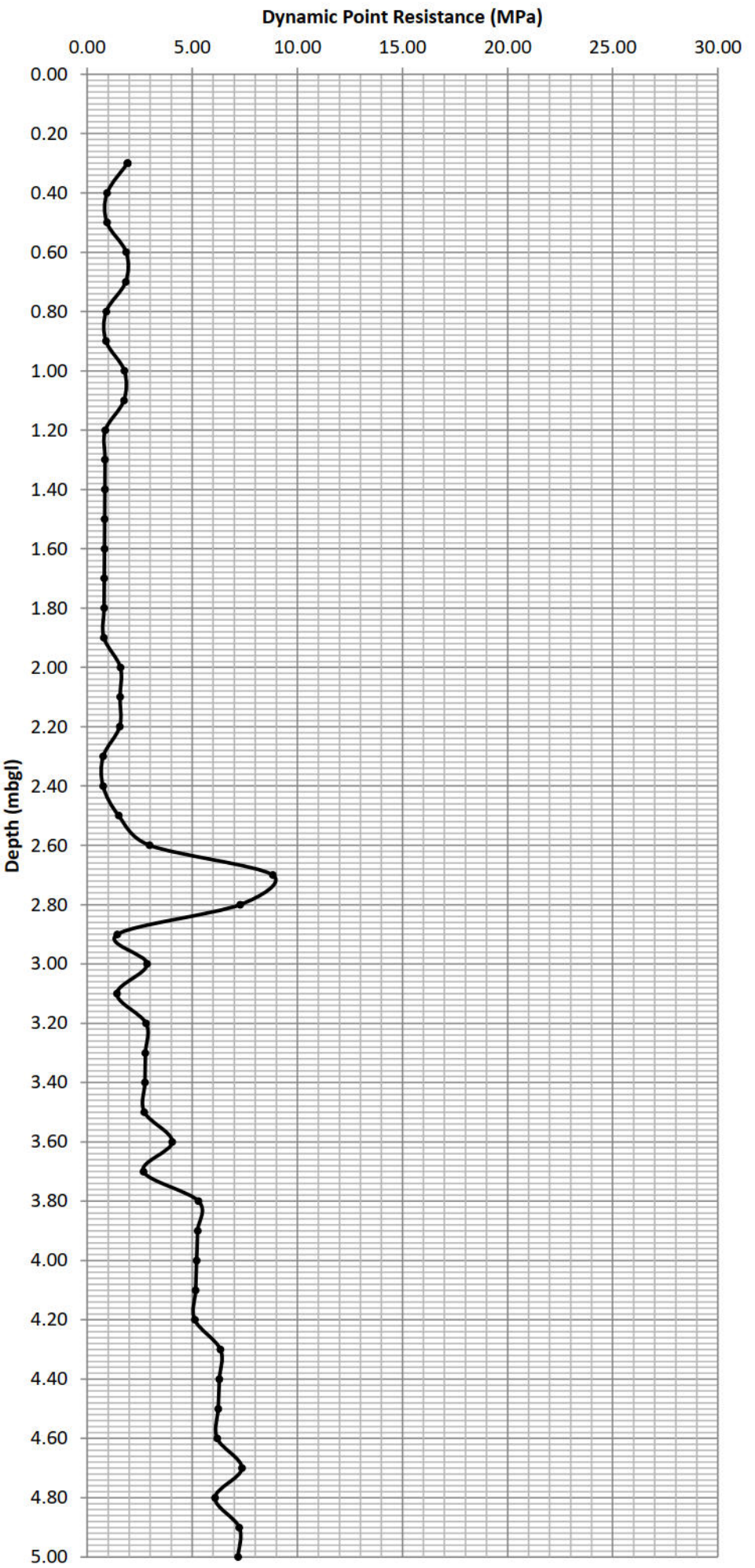
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS133	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	0.5	0.20	1.02	0.95
0.50	0.5	0.20	1.02	0.94
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	0.5	0.20	1.02	0.91
0.90	0.5	0.20	1.02	0.90
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	0.5	0.20	1.02	0.86
1.30	0.5	0.20	1.02	0.85
1.40	0.5	0.20	1.02	0.84
1.50	0.5	0.20	1.02	0.84
1.60	0.5	0.20	1.02	0.83
1.70	0.5	0.20	1.02	0.82
1.80	0.5	0.20	1.02	0.81
1.90	0.5	0.20	1.02	0.80
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	0.5	0.20	1.02	0.77
2.40	0.5	0.20	1.02	0.76
2.50	1	0.10	2.04	1.50
2.60	2	0.05	4.09	2.97
2.70	6	0.02	12.26	8.82
2.80	5	0.02	10.22	7.28
2.90	1	0.10	2.04	1.44
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	2	0.05	4.09	2.75
3.50	2	0.05	4.09	2.72
3.60	3	0.03	6.13	4.05
3.70	2	0.05	4.09	2.68
3.80	4	0.03	8.17	5.30
3.90	4	0.03	8.17	5.25
4.00	4	0.03	8.17	5.21
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	5	0.02	10.22	6.18
4.70	6	0.02	12.26	7.36
4.80	5	0.02	10.22	6.08
4.90	6	0.02	12.26	7.24
5.00	6	0.02	12.26	7.18



Notes:

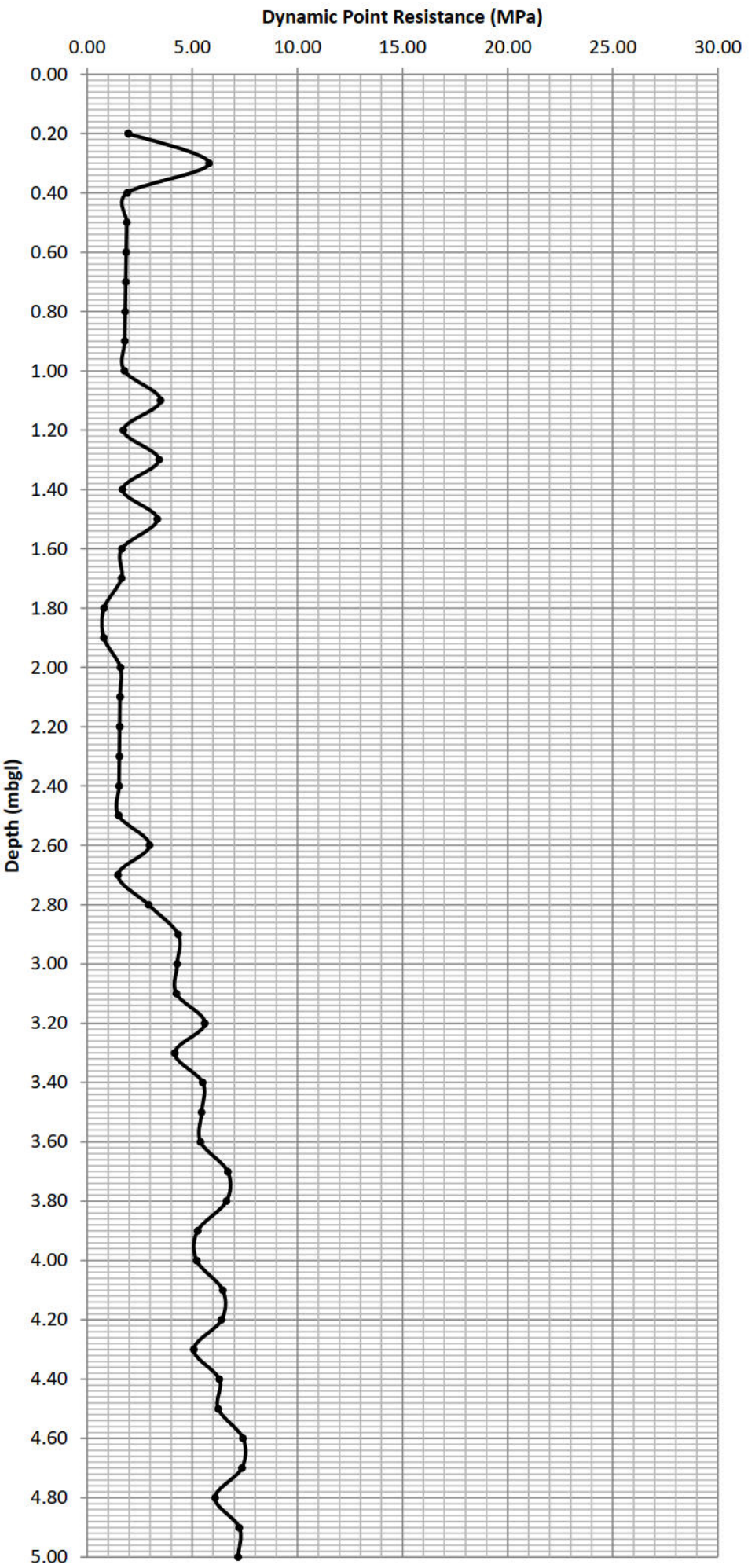
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference				WS134
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	1	0.10	2.04	1.96
0.30	3	0.03	6.13	5.80
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	1	0.10	2.04	1.69
1.50	2	0.05	4.09	3.34
1.60	1	0.10	2.04	1.65
1.70	1	0.10	2.04	1.63
1.80	0.5	0.20	1.02	0.81
1.90	0.5	0.20	1.02	0.80
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	2	0.05	4.09	2.97
2.70	1	0.10	2.04	1.47
2.80	2	0.05	4.09	2.91
2.90	3	0.03	6.13	4.33
3.00	3	0.03	6.13	4.28
3.10	3	0.03	6.13	4.24
3.20	4	0.03	8.17	5.60
3.30	3	0.03	6.13	4.16
3.40	4	0.03	8.17	5.50
3.50	4	0.03	8.17	5.45
3.60	4	0.03	8.17	5.40
3.70	5	0.02	10.22	6.69
3.80	5	0.02	10.22	6.63
3.90	4	0.03	8.17	5.25
4.00	4	0.03	8.17	5.21
4.10	5	0.02	10.22	6.45
4.20	5	0.02	10.22	6.40
4.30	4	0.03	8.17	5.07
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	6	0.02	12.26	7.42
4.70	6	0.02	12.26	7.36
4.80	5	0.02	10.22	6.08
4.90	6	0.02	12.26	7.24
5.00	6	0.02	12.26	7.18



Notes:

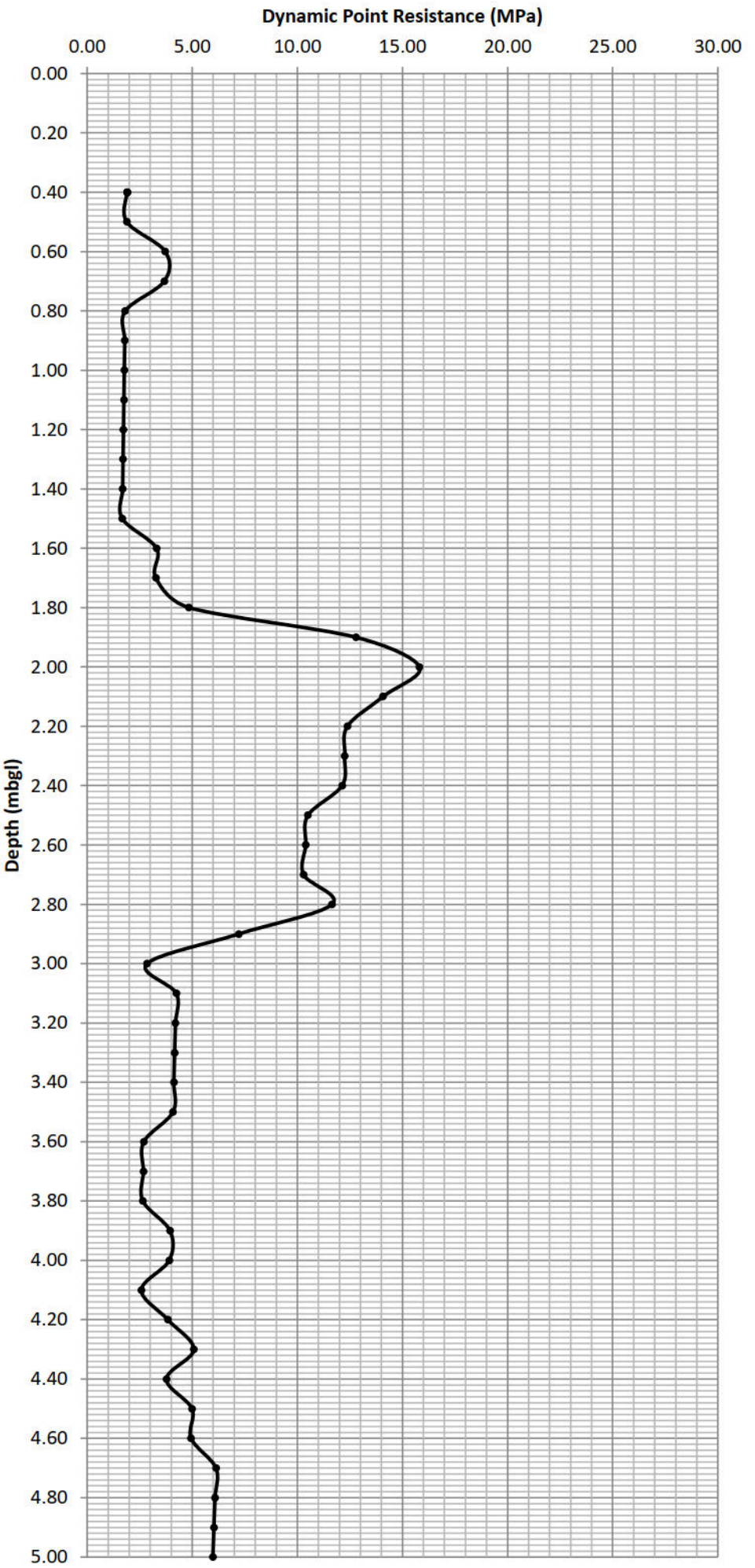
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS135	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	2	0.05	4.09	3.72
0.70	2	0.05	4.09	3.67
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	2	0.05	4.09	3.30
1.70	2	0.05	4.09	3.27
1.80	3	0.03	6.13	4.85
1.90	8	0.01	16.35	12.78
2.00	10	0.01	20.43	15.81
2.10	9	0.01	18.39	14.08
2.20	8	0.01	16.35	12.38
2.30	8	0.01	16.35	12.25
2.40	8	0.01	16.35	12.13
2.50	7	0.01	14.30	10.50
2.60	7	0.01	14.30	10.40
2.70	7	0.01	14.30	10.29
2.80	8	0.01	16.35	11.65
2.90	5	0.02	10.22	7.21
3.00	2	0.05	4.09	2.86
3.10	3	0.03	6.13	4.24
3.20	3	0.03	6.13	4.20
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	3	0.03	6.13	3.94
4.00	3	0.03	6.13	3.91
4.10	2	0.05	4.09	2.58
4.20	3	0.03	6.13	3.84
4.30	4	0.03	8.17	5.07
4.40	3	0.03	6.13	3.77
4.50	4	0.03	8.17	4.99
4.60	4	0.03	8.17	4.95
4.70	5	0.02	10.22	6.13
4.80	5	0.02	10.22	6.08
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

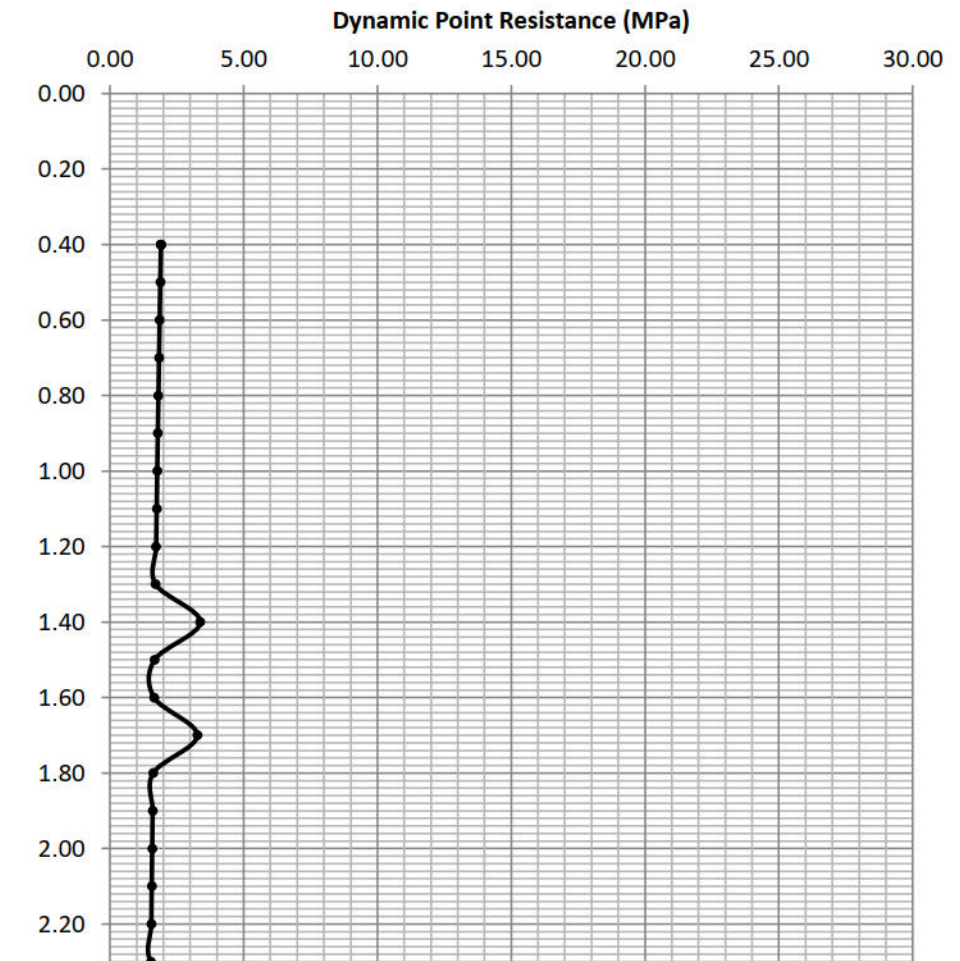
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS136

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	2	0.05	4.09	3.27
1.80	1	0.10	2.04	1.62
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	2	0.05	4.09	3.03
2.50	2	0.05	4.09	3.00
2.60	2	0.05	4.09	2.97
2.70	2	0.05	4.09	2.94
2.80	2	0.05	4.09	2.91
2.90	3	0.03	6.13	4.33
3.00	2	0.05	4.09	2.86
3.10	3	0.03	6.13	4.24
3.20	2	0.05	4.09	2.80
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	4	0.03	8.17	5.45
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	4	0.03	8.17	5.25
4.00	3	0.03	6.13	3.91
4.10	4	0.03	8.17	5.16
4.20	5	0.02	10.22	6.40
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	4	0.03	8.17	4.99
4.60	5	0.02	10.22	6.18
4.70	5	0.02	10.22	6.13
4.80	5	0.02	10.22	6.08
4.90	6	0.02	12.26	7.24
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

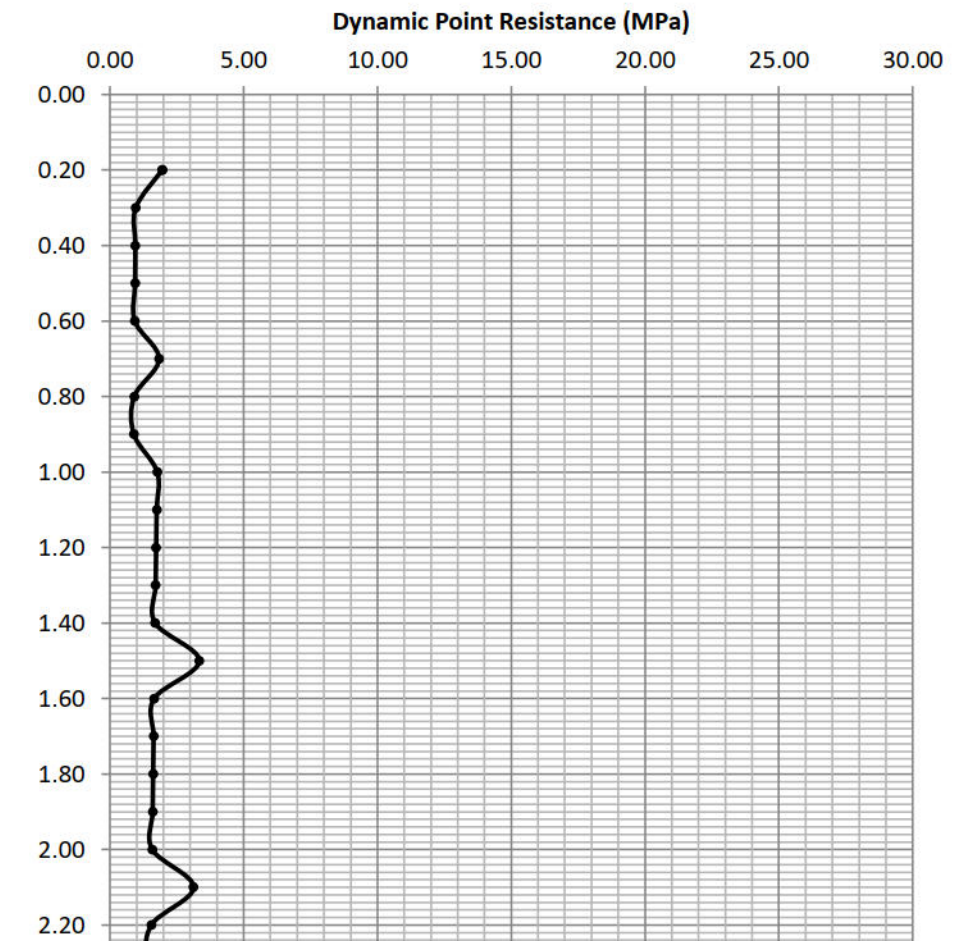
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS137

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	1	0.10	2.04	1.96
0.30	0.5	0.20	1.02	0.97
0.40	0.5	0.20	1.02	0.95
0.50	0.5	0.20	1.02	0.94
0.60	0.5	0.20	1.02	0.93
0.70	1	0.10	2.04	1.84
0.80	0.5	0.20	1.02	0.91
0.90	0.5	0.20	1.02	0.90
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	2	0.05	4.09	3.34
1.60	1	0.10	2.04	1.65
1.70	1	0.10	2.04	1.63
1.80	1	0.10	2.04	1.62
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	2	0.05	4.09	3.13
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	2	0.05	4.09	3.03
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	2	0.05	4.09	2.88
3.00	2	0.05	4.09	2.86
3.10	2	0.05	4.09	2.83
3.20	2	0.05	4.09	2.80
3.30	2	0.05	4.09	2.78
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	4	0.03	8.17	5.21
4.10	3	0.03	6.13	3.87
4.20	4	0.03	8.17	5.12
4.30	3	0.03	6.13	3.81
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	5	0.02	10.22	6.18
4.70	4	0.03	8.17	4.91
4.80	6	0.02	12.26	7.30
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

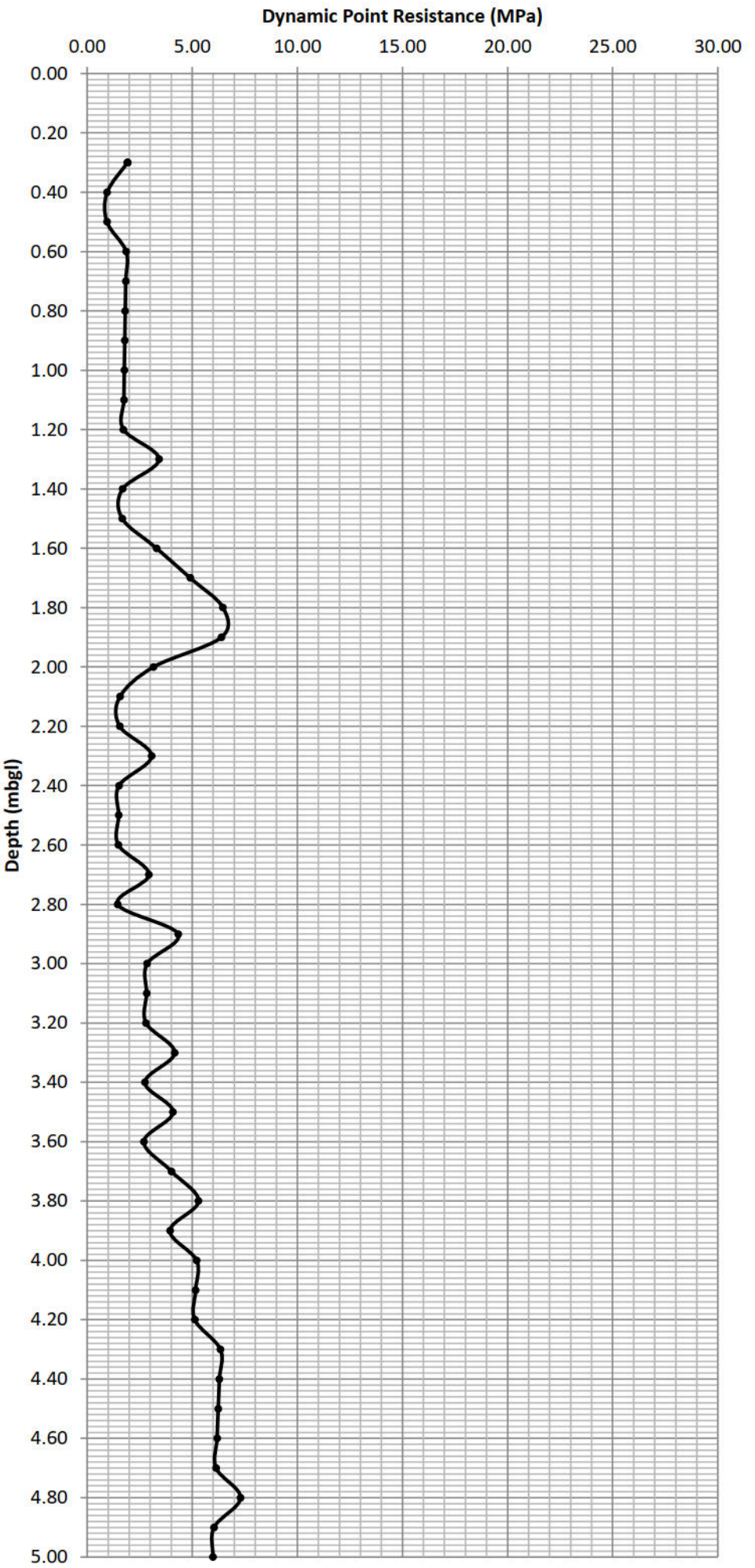
Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS138	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	0.5	0.20	1.02	0.95
0.50	0.5	0.20	1.02	0.94
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	2	0.05	4.09	3.30
1.70	3	0.03	6.13	4.90
1.80	4	0.03	8.17	6.46
1.90	4	0.03	8.17	6.39
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	2	0.05	4.09	3.06
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	2	0.05	4.09	2.94
2.80	1	0.10	2.04	1.46
2.90	3	0.03	6.13	4.33
3.00	2	0.05	4.09	2.86
3.10	2	0.05	4.09	2.83
3.20	2	0.05	4.09	2.80
3.30	3	0.03	6.13	4.16
3.40	2	0.05	4.09	2.75
3.50	3	0.03	6.13	4.09
3.60	2	0.05	4.09	2.70
3.70	3	0.03	6.13	4.01
3.80	4	0.03	8.17	5.30
3.90	3	0.03	6.13	3.94
4.00	4	0.03	8.17	5.21
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	5	0.02	10.22	6.18
4.70	5	0.02	10.22	6.13
4.80	6	0.02	12.26	7.30
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

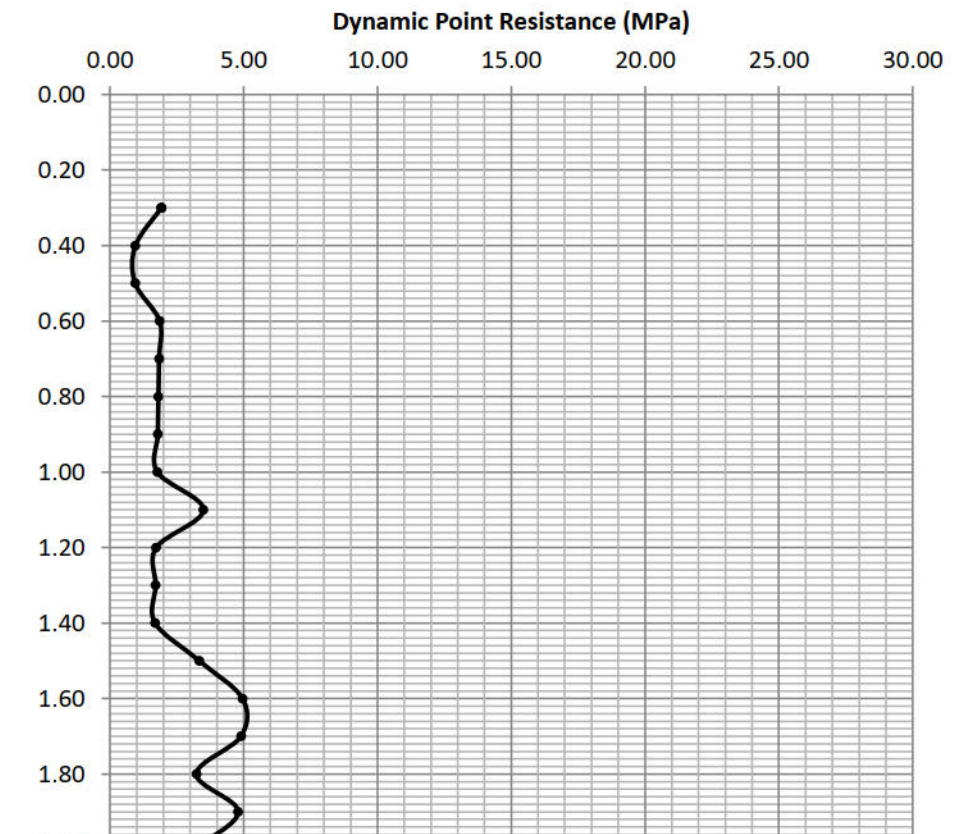
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS139	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	0.5	0.20	1.02	0.95
0.50	0.5	0.20	1.02	0.94
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	2	0.05	4.09	3.34
1.60	3	0.03	6.13	4.95
1.70	3	0.03	6.13	4.90
1.80	2	0.05	4.09	3.23
1.90	3	0.03	6.13	4.79
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	2	0.05	4.09	2.91
2.90	2	0.05	4.09	2.88
3.00	2	0.05	4.09	2.86
3.10	2	0.05	4.09	2.83
3.20	3	0.03	6.13	4.20
3.30	2	0.05	4.09	2.78
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	4	0.03	8.17	5.35
3.80	3	0.03	6.13	3.98
3.90	5	0.02	10.22	6.57
4.00	5	0.02	10.22	6.51
4.10	4	0.03	8.17	5.16
4.20	5	0.02	10.22	6.40
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	5	0.02	10.22	6.18
4.70	5	0.02	10.22	6.13
4.80	5	0.02	10.22	6.08
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

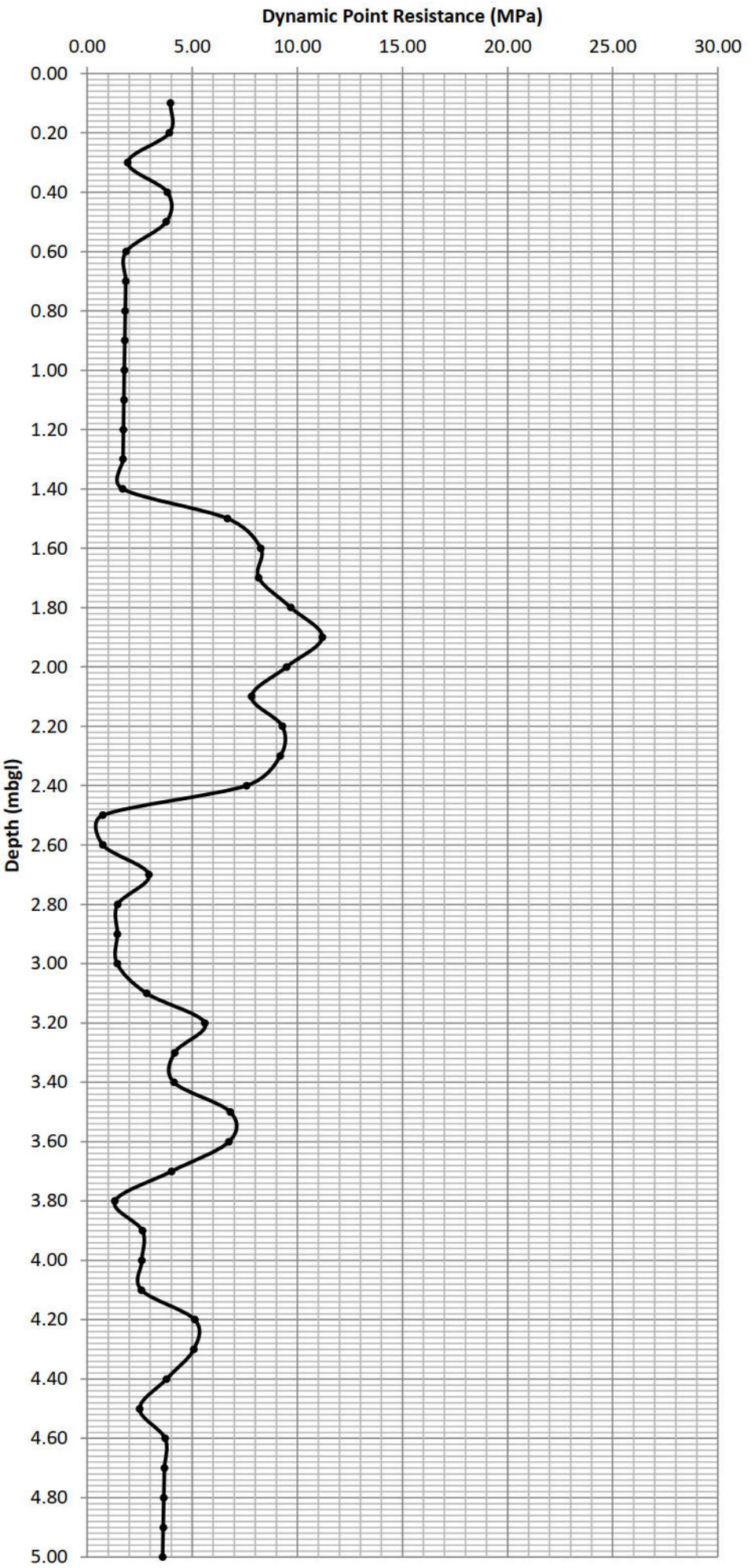
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS140

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	2	0.05	4.09	3.97
0.20	2	0.05	4.09	3.92
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	2	0.05	4.09	3.77
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	4	0.03	8.17	6.68
1.60	5	0.02	10.22	8.26
1.70	5	0.02	10.22	8.17
1.80	6	0.02	12.26	9.69
1.90	7	0.01	14.30	11.19
2.00	6	0.02	12.26	9.49
2.10	5	0.02	10.22	7.82
2.20	6	0.02	12.26	9.29
2.30	6	0.02	12.26	9.19
2.40	5	0.02	10.22	7.58
2.50	0.5	0.20	1.02	0.75
2.60	0.5	0.20	1.02	0.74
2.70	2	0.05	4.09	2.94
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	4	0.03	8.17	5.60
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	5	0.02	10.22	6.81
3.60	5	0.02	10.22	6.75
3.70	3	0.03	6.13	4.01
3.80	1	0.10	2.04	1.33
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	2	0.05	4.09	2.58
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	3	0.03	6.13	3.77
4.50	2	0.05	4.09	2.49
4.60	3	0.03	6.13	3.71
4.70	3	0.03	6.13	3.68
4.80	3	0.03	6.13	3.65
4.90	3	0.03	6.13	3.62
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

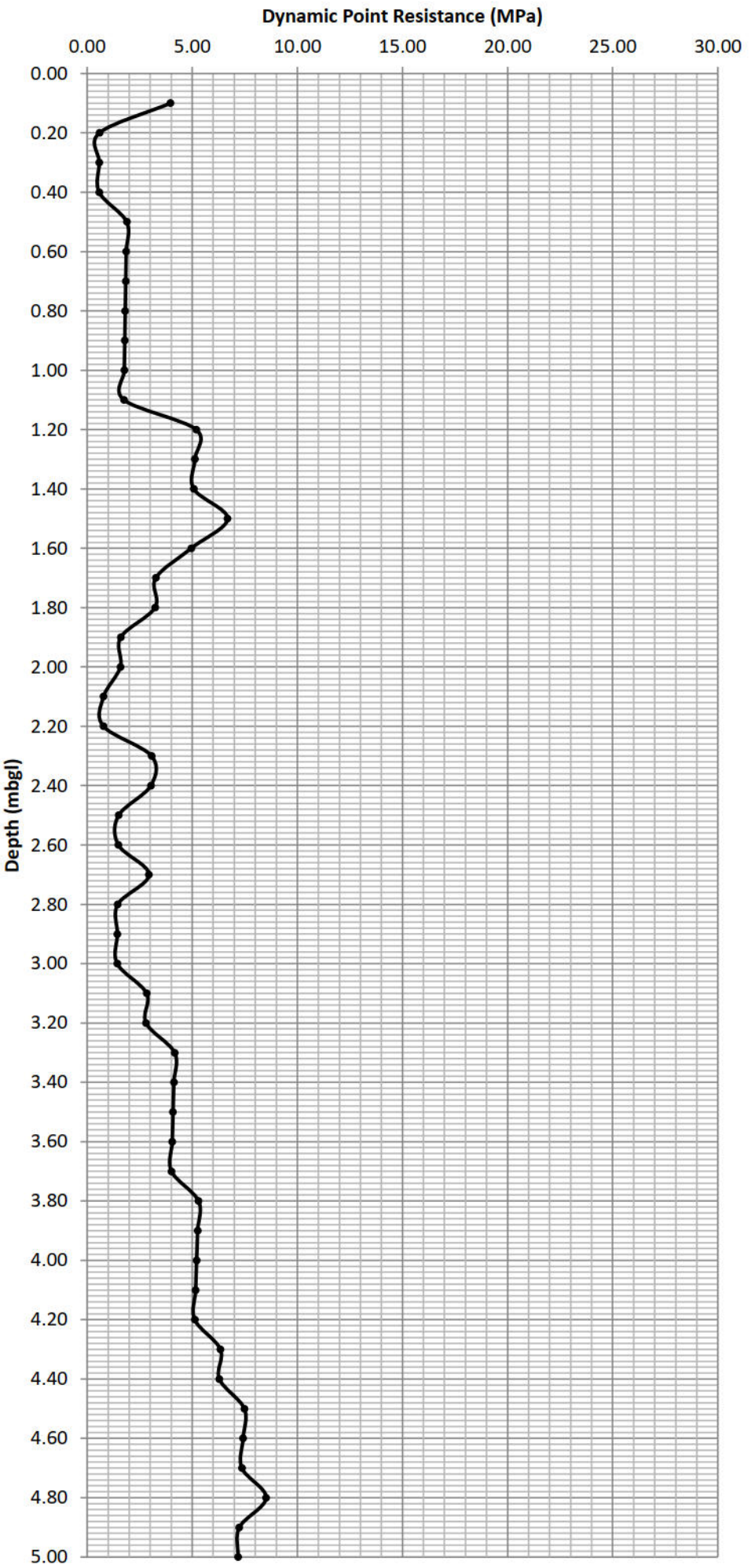
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS141

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	2	0.05	4.09	3.97
0.20	0.3	0.33	0.61	0.59
0.30	0.3	0.33	0.61	0.58
0.40	0.3	0.33	0.61	0.57
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	3	0.03	6.13	5.19
1.30	3	0.03	6.13	5.13
1.40	3	0.03	6.13	5.07
1.50	4	0.03	8.17	6.68
1.60	3	0.03	6.13	4.95
1.70	2	0.05	4.09	3.27
1.80	2	0.05	4.09	3.23
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	0.5	0.20	1.02	0.78
2.20	0.5	0.20	1.02	0.77
2.30	2	0.05	4.09	3.06
2.40	2	0.05	4.09	3.03
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	2	0.05	4.09	2.94
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	2	0.05	4.09	2.83
3.20	2	0.05	4.09	2.80
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	3	0.03	6.13	4.01
3.80	4	0.03	8.17	5.30
3.90	4	0.03	8.17	5.25
4.00	4	0.03	8.17	5.21
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	5	0.02	10.22	6.34
4.40	5	0.02	10.22	6.29
4.50	6	0.02	12.26	7.48
4.60	6	0.02	12.26	7.42
4.70	6	0.02	12.26	7.36
4.80	7	0.01	14.30	8.51
4.90	6	0.02	12.26	7.24
5.00	6	0.02	12.26	7.18



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

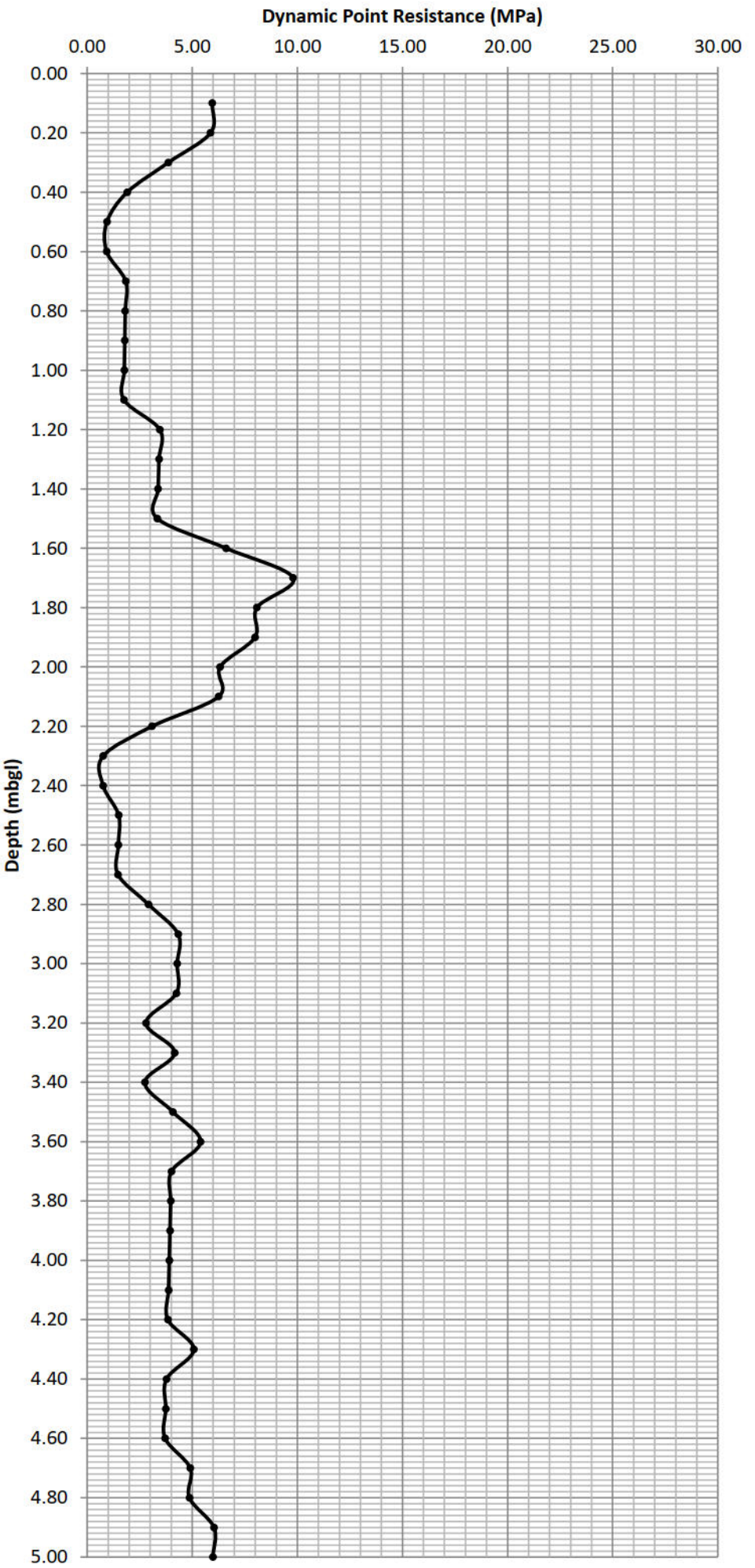
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS142

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	3	0.03	6.13	5.95
0.20	3	0.03	6.13	5.87
0.30	2	0.05	4.09	3.87
0.40	1	0.10	2.04	1.91
0.50	0.5	0.20	1.02	0.94
0.60	0.5	0.20	1.02	0.93
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	2	0.05	4.09	3.42
1.40	2	0.05	4.09	3.38
1.50	2	0.05	4.09	3.34
1.60	4	0.03	8.17	6.61
1.70	6	0.02	12.26	9.80
1.80	5	0.02	10.22	8.08
1.90	5	0.02	10.22	7.99
2.00	4	0.03	8.17	6.32
2.10	4	0.03	8.17	6.26
2.20	2	0.05	4.09	3.10
2.30	0.5	0.20	1.02	0.77
2.40	0.5	0.20	1.02	0.76
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	2	0.05	4.09	2.91
2.90	3	0.03	6.13	4.33
3.00	3	0.03	6.13	4.28
3.10	3	0.03	6.13	4.24
3.20	2	0.05	4.09	2.80
3.30	3	0.03	6.13	4.16
3.40	2	0.05	4.09	2.75
3.50	3	0.03	6.13	4.09
3.60	4	0.03	8.17	5.40
3.70	3	0.03	6.13	4.01
3.80	3	0.03	6.13	3.98
3.90	3	0.03	6.13	3.94
4.00	3	0.03	6.13	3.91
4.10	3	0.03	6.13	3.87
4.20	3	0.03	6.13	3.84
4.30	4	0.03	8.17	5.07
4.40	3	0.03	6.13	3.77
4.50	3	0.03	6.13	3.74
4.60	3	0.03	6.13	3.71
4.70	4	0.03	8.17	4.91
4.80	4	0.03	8.17	4.87
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

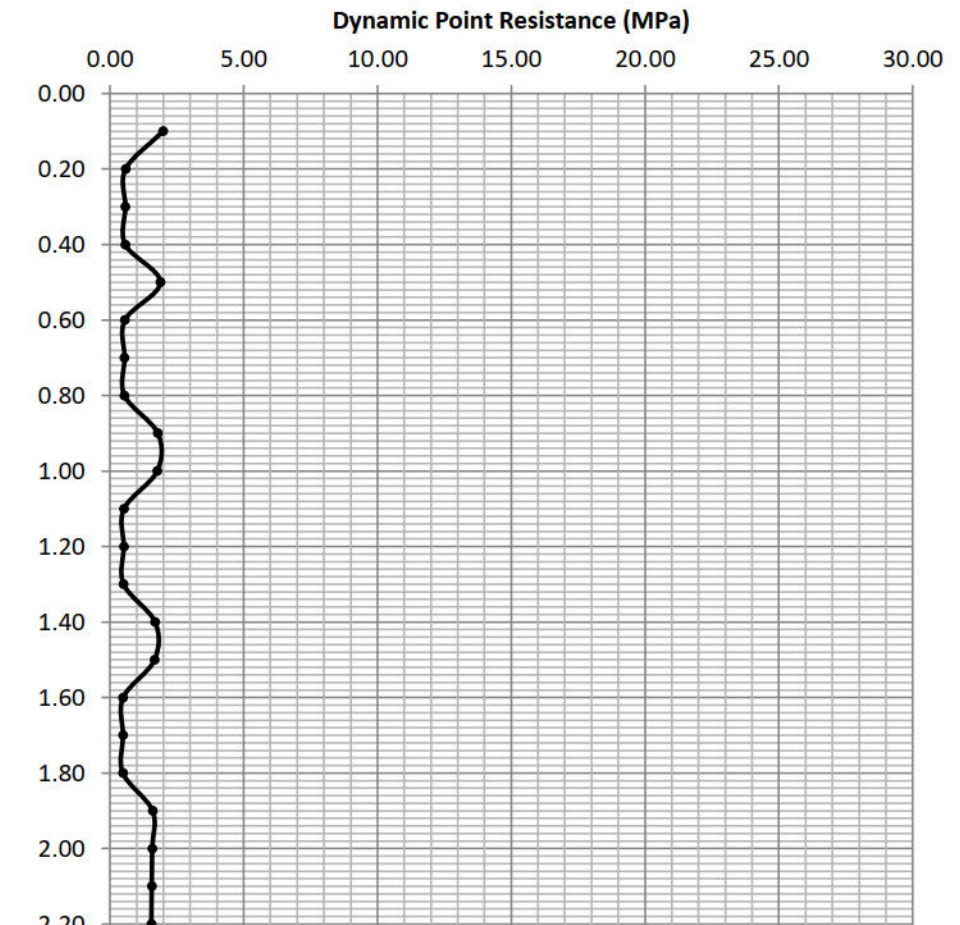
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS143

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	1	0.10	2.04	1.98
0.20	0.3	0.33	0.61	0.59
0.30	0.3	0.33	0.61	0.58
0.40	0.3	0.33	0.61	0.57
0.50	1	0.10	2.04	1.88
0.60	0.3	0.33	0.61	0.56
0.70	0.3	0.33	0.61	0.55
0.80	0.3	0.33	0.61	0.54
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	0.3	0.33	0.61	0.52
1.20	0.3	0.33	0.61	0.52
1.30	0.3	0.33	0.61	0.51
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	0.3	0.33	0.61	0.50
1.70	0.3	0.33	0.61	0.49
1.80	0.3	0.33	0.61	0.48
1.90	1	0.10	2.04	1.60
2.00	1	0.10	2.04	1.58
2.10	1	0.10	2.04	1.56
2.20	1	0.10	2.04	1.55
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	2	0.05	4.09	3.00
2.60	2	0.05	4.09	2.97
2.70	3	0.03	6.13	4.41
2.80	3	0.03	6.13	4.37
2.90	2	0.05	4.09	2.88
3.00	2	0.05	4.09	2.86
3.10	2	0.05	4.09	2.83
3.20	3	0.03	6.13	4.20
3.30	3	0.03	6.13	4.16
3.40	3	0.03	6.13	4.12
3.50	3	0.03	6.13	4.09
3.60	3	0.03	6.13	4.05
3.70	4	0.03	8.17	5.35
3.80	4	0.03	8.17	5.30
3.90	4	0.03	8.17	5.25
4.00	4	0.03	8.17	5.21
4.10	4	0.03	8.17	5.16
4.20	4	0.03	8.17	5.12
4.30	4	0.03	8.17	5.07
4.40	5	0.02	10.22	6.29
4.50	5	0.02	10.22	6.24
4.60	5	0.02	10.22	6.18
4.70	5	0.02	10.22	6.13
4.80	6	0.02	12.26	7.30
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

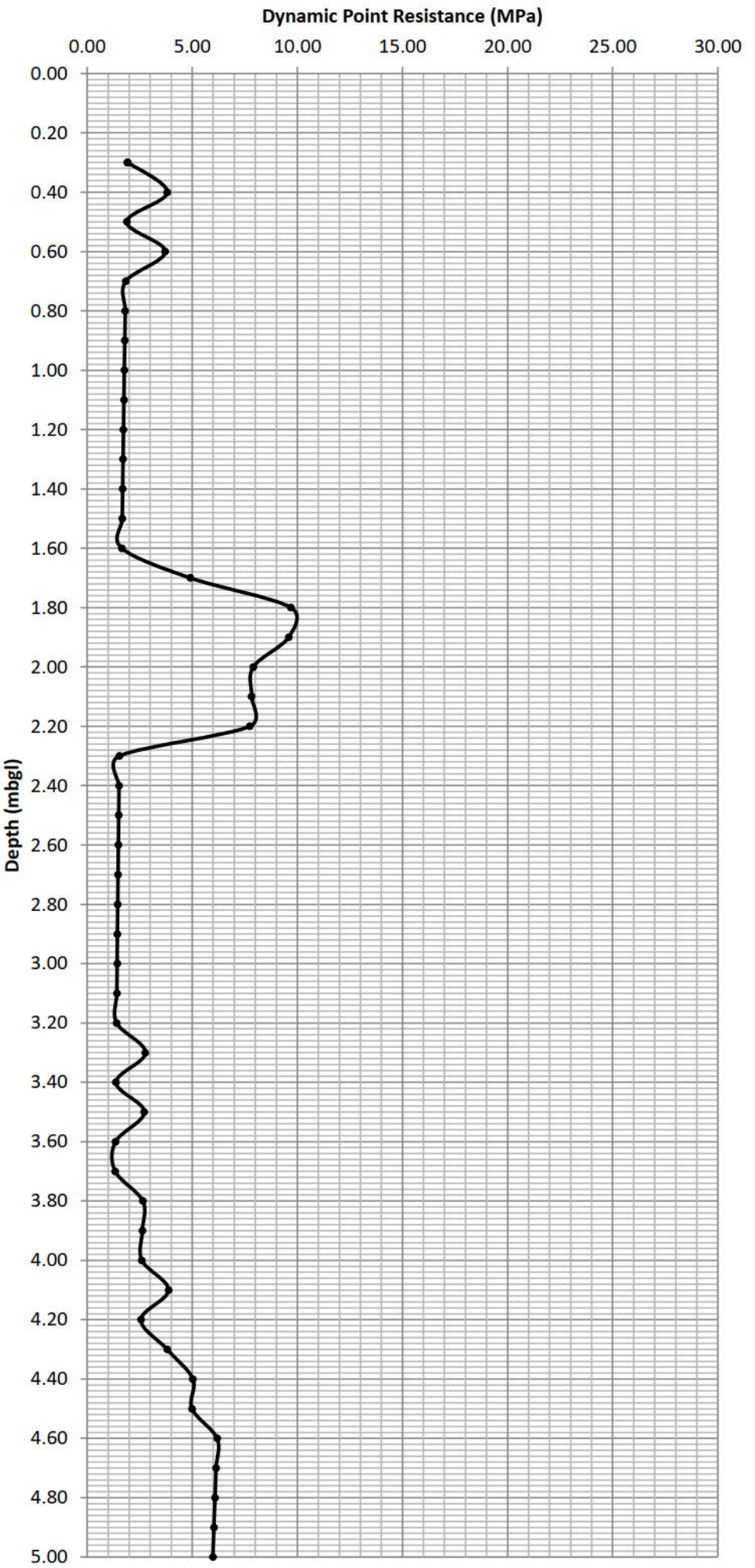
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS144

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	2	0.05	4.09	3.72
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	1	0.10	2.04	1.69
1.50	1	0.10	2.04	1.67
1.60	1	0.10	2.04	1.65
1.70	3	0.03	6.13	4.90
1.80	6	0.02	12.26	9.69
1.90	6	0.02	12.26	9.59
2.00	5	0.02	10.22	7.90
2.10	5	0.02	10.22	7.82
2.20	5	0.02	10.22	7.74
2.30	1	0.10	2.04	1.53
2.40	1	0.10	2.04	1.52
2.50	1	0.10	2.04	1.50
2.60	1	0.10	2.04	1.49
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	2	0.05	4.09	2.72
3.60	1	0.10	2.04	1.35
3.70	1	0.10	2.04	1.34
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	2	0.05	4.09	2.60
4.10	3	0.03	6.13	3.87
4.20	2	0.05	4.09	2.56
4.30	3	0.03	6.13	3.81
4.40	4	0.03	8.17	5.03
4.50	4	0.03	8.17	4.99
4.60	5	0.02	10.22	6.18
4.70	5	0.02	10.22	6.13
4.80	5	0.02	10.22	6.08
4.90	5	0.02	10.22	6.03
5.00	5	0.02	10.22	5.98



Notes:

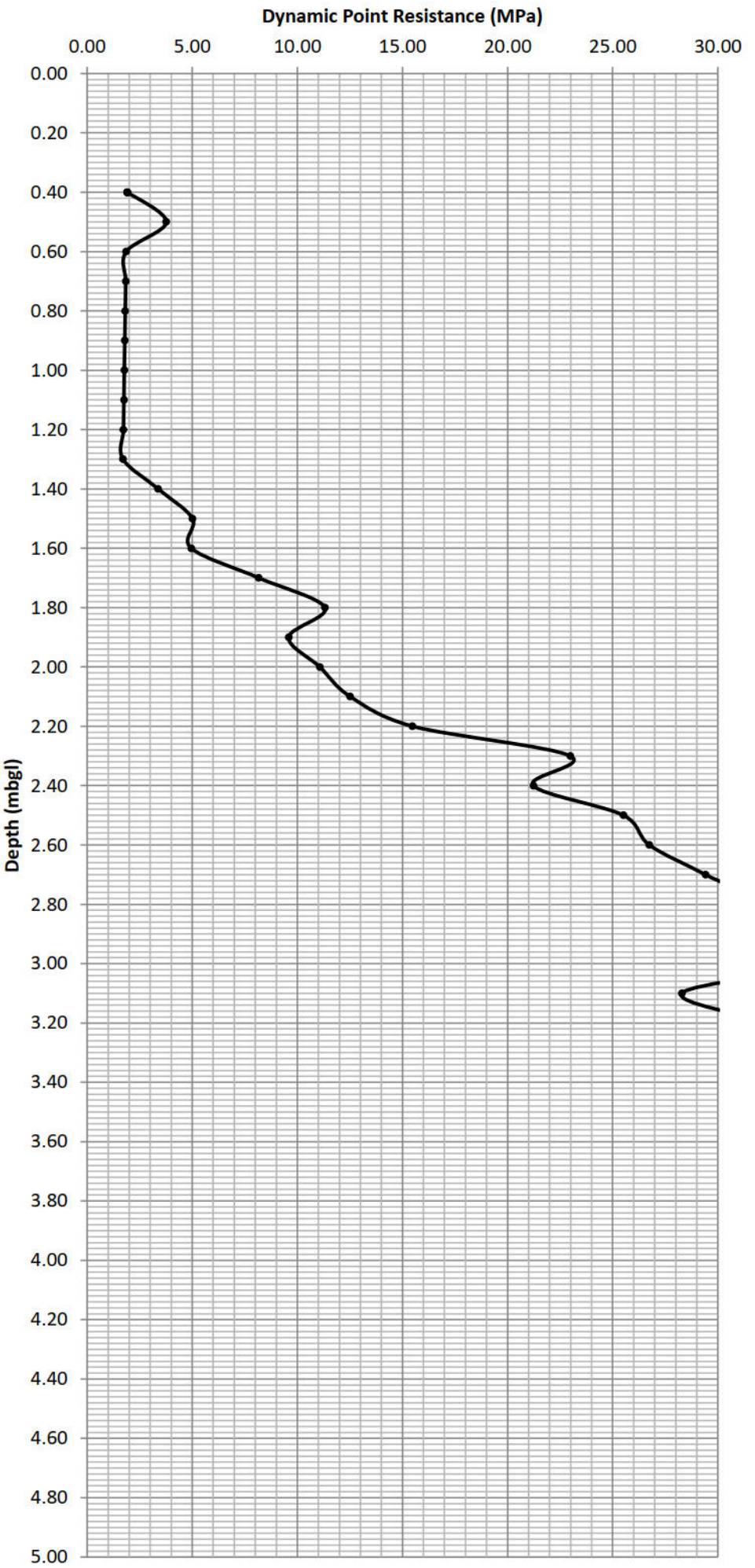
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS145	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	2	0.05	4.09	3.77
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	3	0.03	6.13	5.01
1.60	3	0.03	6.13	4.95
1.70	5	0.02	10.22	8.17
1.80	7	0.01	14.30	11.31
1.90	6	0.02	12.26	9.59
2.00	7	0.01	14.30	11.07
2.10	8	0.01	16.35	12.51
2.20	10	0.01	20.43	15.48
2.30	15	0.01	30.65	22.98
2.40	14	0.01	28.61	21.22
2.50	17	0.01	34.73	25.51
2.60	18	0.01	36.78	26.74
2.70	20	0.01	40.86	29.41
2.80	22	0.00	44.95	32.04
2.90	21	0.00	42.91	30.28
3.00	24	0.00	49.04	34.27
3.10	20	0.01	40.86	28.29
3.20	23	0.00	46.99	32.22
3.30	25	0.00	51.08	34.69
3.40	24	0.00	49.04	33.00
3.50	27	0.00	55.17	36.78
3.60	26	0.00	53.12	35.09
3.70	28	0.00	57.21	37.45
3.80				
3.90				
4.00				
4.10				
4.20				
4.30				
4.40				
4.50				
4.60				
4.70				
4.80				
4.90				
5.00				



Notes:

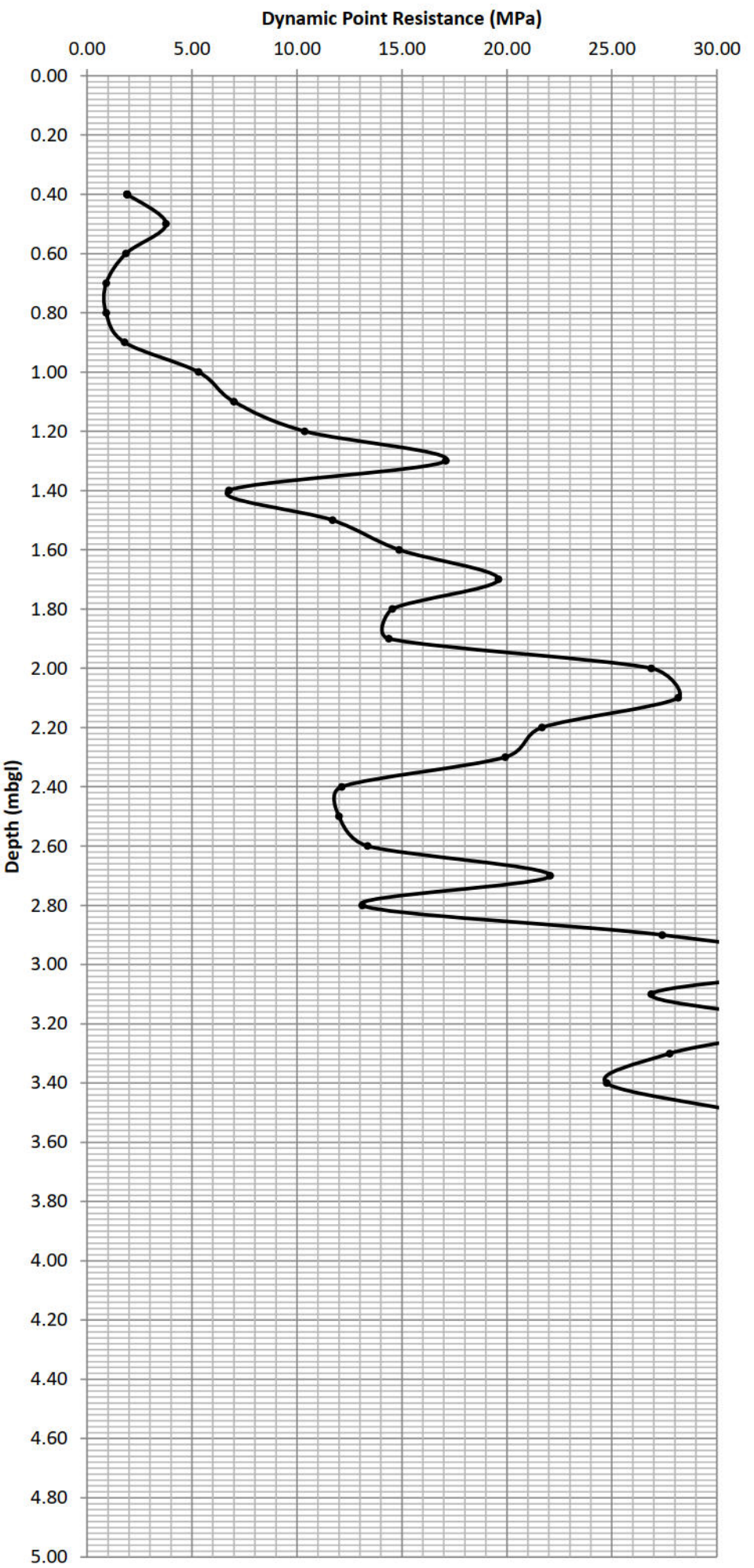
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS146	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30				
0.40	1	0.10	2.04	1.91
0.50	2	0.05	4.09	3.77
0.60	1	0.10	2.04	1.86
0.70	0.5	0.20	1.02	0.92
0.80	0.5	0.20	1.02	0.91
0.90	1	0.10	2.04	1.79
1.00	3	0.03	6.13	5.31
1.10	4	0.03	8.17	7.00
1.20	6	0.02	12.26	10.37
1.30	10	0.01	20.43	17.09
1.40	4	0.03	8.17	6.76
1.50	7	0.01	14.30	11.69
1.60	9	0.01	18.39	14.86
1.70	12	0.01	24.52	19.60
1.80	9	0.01	18.39	14.54
1.90	9	0.01	18.39	14.38
2.00	17	0.01	34.73	26.88
2.10	18	0.01	36.78	28.15
2.20	14	0.01	28.61	21.67
2.30	13	0.01	26.56	19.91
2.40	8	0.01	16.35	12.13
2.50	8	0.01	16.35	12.00
2.60	9	0.01	18.39	13.37
2.70	15	0.01	30.65	22.06
2.80	9	0.01	18.39	13.11
2.90	19	0.01	38.82	27.40
3.00	25	0.00	51.08	35.70
3.10	19	0.01	38.82	26.87
3.20	24	0.00	49.04	33.62
3.30	20	0.01	40.86	27.76
3.40	18	0.01	36.78	24.75
3.50	23	0.00	46.99	31.33
3.60	28	0.00	57.21	37.79
3.70				
3.80				
3.90				
4.00				
4.10				
4.20				
4.30				
4.40				
4.50				
4.60				
4.70				
4.80				
4.90				
5.00				



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

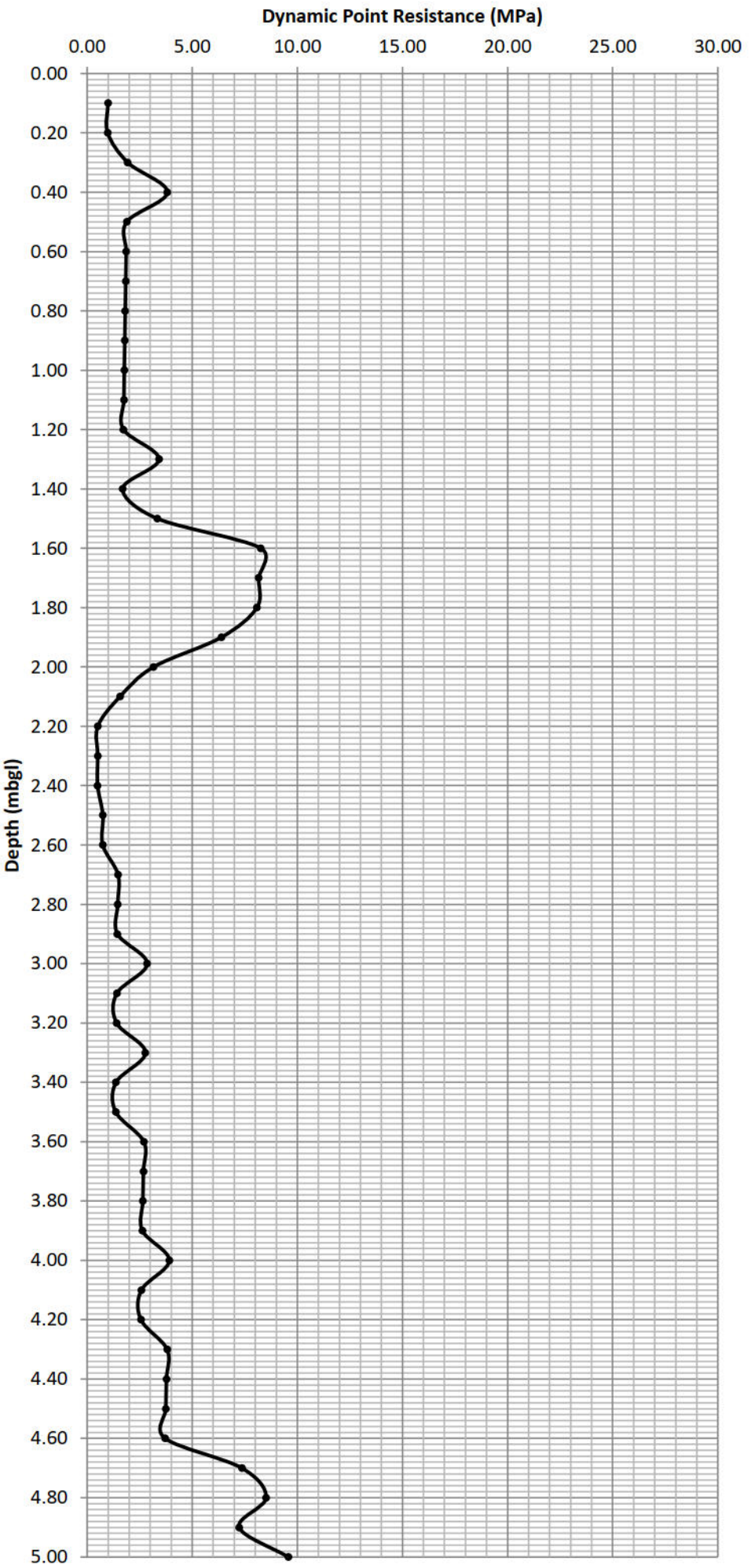
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS147

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	0.5	0.20	1.02	0.99
0.20	0.5	0.20	1.02	0.98
0.30	1	0.10	2.04	1.93
0.40	2	0.05	4.09	3.82
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	2	0.05	4.09	3.42
1.40	1	0.10	2.04	1.69
1.50	2	0.05	4.09	3.34
1.60	5	0.02	10.22	8.26
1.70	5	0.02	10.22	8.17
1.80	5	0.02	10.22	8.08
1.90	4	0.03	8.17	6.39
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	0.33	0.30	0.67	0.51
2.30	0.33	0.30	0.67	0.51
2.40	0.33	0.30	0.67	0.50
2.50	0.5	0.20	1.02	0.75
2.60	0.5	0.20	1.02	0.74
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	2	0.05	4.09	2.86
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	2	0.05	4.09	2.78
3.40	1	0.10	2.04	1.37
3.50	1	0.10	2.04	1.36
3.60	2	0.05	4.09	2.70
3.70	2	0.05	4.09	2.68
3.80	2	0.05	4.09	2.65
3.90	2	0.05	4.09	2.63
4.00	3	0.03	6.13	3.91
4.10	2	0.05	4.09	2.58
4.20	2	0.05	4.09	2.56
4.30	3	0.03	6.13	3.81
4.40	3	0.03	6.13	3.77
4.50	3	0.03	6.13	3.74
4.60	3	0.03	6.13	3.71
4.70	6	0.02	12.26	7.36
4.80	7	0.01	14.30	8.51
4.90	6	0.02	12.26	7.24
5.00	8	0.01	16.35	9.57



Notes:

Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

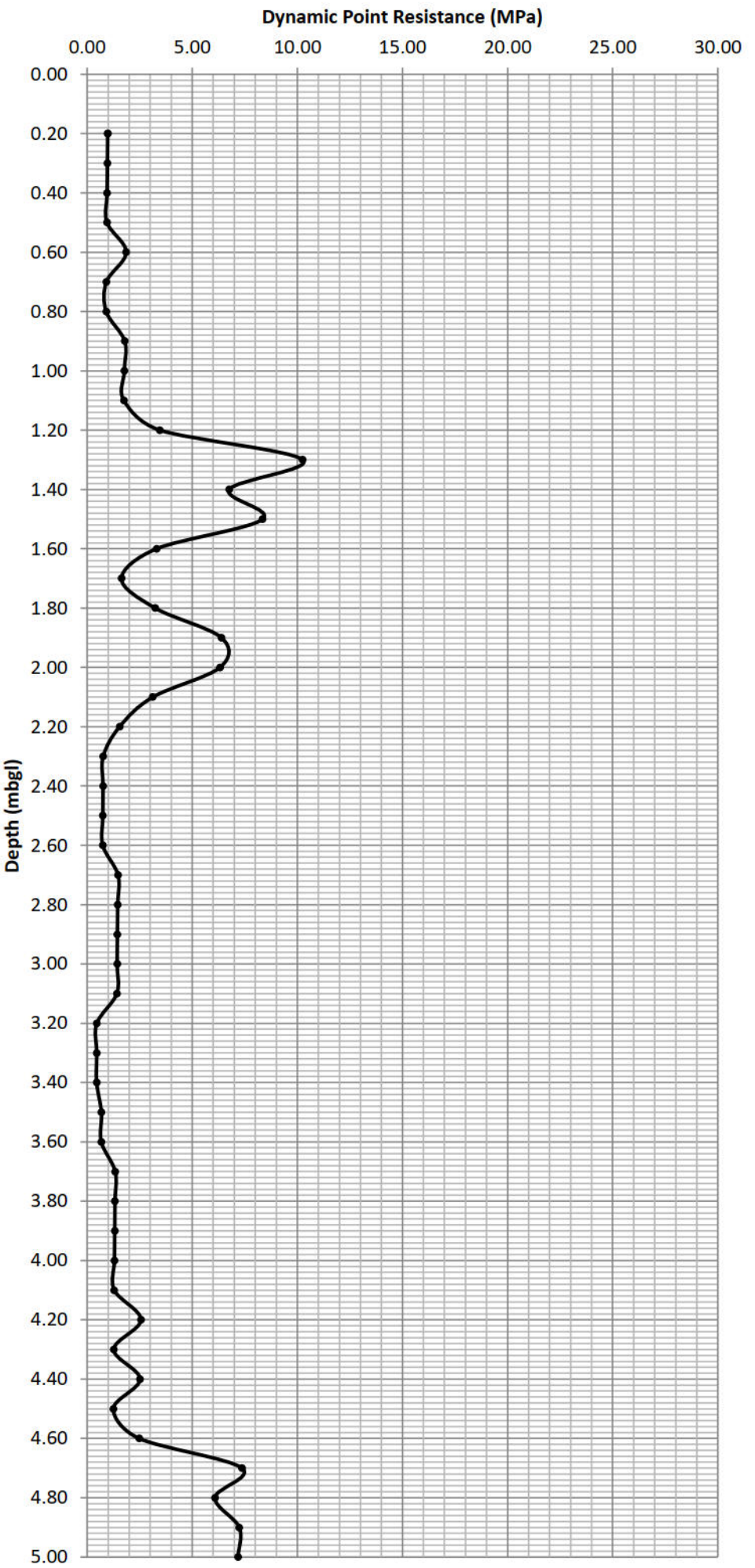
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS148

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20	0.5	0.20	1.02	0.98
0.30	0.5	0.20	1.02	0.97
0.40	0.5	0.20	1.02	0.95
0.50	0.5	0.20	1.02	0.94
0.60	1	0.10	2.04	1.86
0.70	0.5	0.20	1.02	0.92
0.80	0.5	0.20	1.02	0.91
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	2	0.05	4.09	3.46
1.30	6	0.02	12.26	10.25
1.40	4	0.03	8.17	6.76
1.50	5	0.02	10.22	8.35
1.60	2	0.05	4.09	3.30
1.70	1	0.10	2.04	1.63
1.80	2	0.05	4.09	3.23
1.90	4	0.03	8.17	6.39
2.00	4	0.03	8.17	6.32
2.10	2	0.05	4.09	3.13
2.20	1	0.10	2.04	1.55
2.30	0.5	0.20	1.02	0.77
2.40	0.5	0.20	1.02	0.76
2.50	0.5	0.20	1.02	0.75
2.60	0.5	0.20	1.02	0.74
2.70	1	0.10	2.04	1.47
2.80	1	0.10	2.04	1.46
2.90	1	0.10	2.04	1.44
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	0.33	0.30	0.67	0.46
3.30	0.33	0.30	0.67	0.46
3.40	0.33	0.30	0.67	0.45
3.50	0.5	0.20	1.02	0.68
3.60	0.5	0.20	1.02	0.67
3.70	1	0.10	2.04	1.34
3.80	1	0.10	2.04	1.33
3.90	1	0.10	2.04	1.31
4.00	1	0.10	2.04	1.30
4.10	1	0.10	2.04	1.29
4.20	2	0.05	4.09	2.56
4.30	1	0.10	2.04	1.27
4.40	2	0.05	4.09	2.52
4.50	1	0.10	2.04	1.25
4.60	2	0.05	4.09	2.47
4.70	6	0.02	12.26	7.36
4.80	5	0.02	10.22	6.08
4.90	6	0.02	12.26	7.24
5.00	6	0.02	12.26	7.18



Notes:

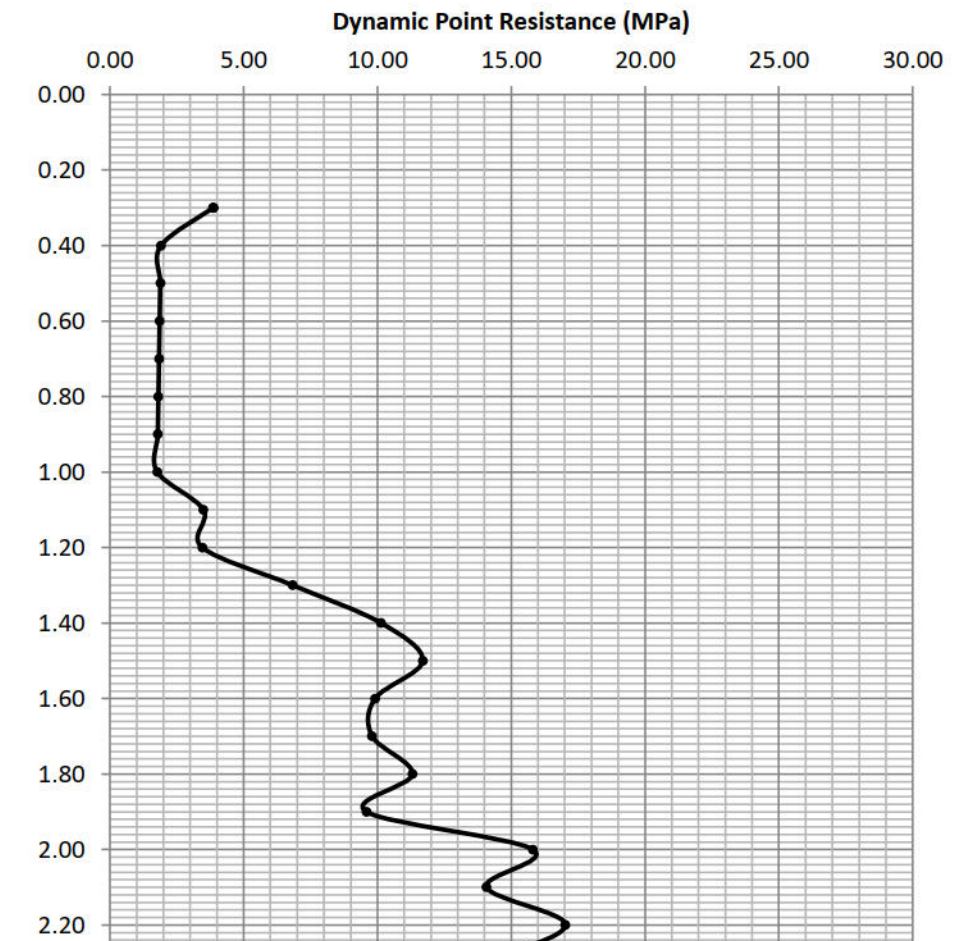
Hammer Mass	63.5 kg
Fall Height	0.76 m
Cone Area	0.0019 m^2
E_{theor}	473 J
Energy Ratio	0.82
Anvil Mass	1 kg
Rod Mass	8.79 kg/m

ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference			WS149	
Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10				
0.20				
0.30	2	0.05	4.09	3.87
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	1	0.10	2.04	1.86
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	2	0.05	4.09	3.50
1.20	2	0.05	4.09	3.46
1.30	4	0.03	8.17	6.84
1.40	6	0.02	12.26	10.14
1.50	7	0.01	14.30	11.69
1.60	6	0.02	12.26	9.91
1.70	6	0.02	12.26	9.80
1.80	7	0.01	14.30	11.31
1.90	6	0.02	12.26	9.59
2.00	10	0.01	20.43	15.81
2.10	9	0.01	18.39	14.08
2.20	11	0.01	22.48	17.03
2.30	9	0.01	18.39	13.79
2.40	6	0.02	12.26	9.10
2.50	5	0.02	10.22	7.50
2.60	3	0.03	6.13	4.46
2.70	6	0.02	12.26	8.82
2.80	5	0.02	10.22	7.28
2.90	4	0.03	8.17	5.77
3.00	5	0.02	10.22	7.14
3.10	7	0.01	14.30	9.90
3.20	7	0.01	14.30	9.81
3.30	4	0.03	8.17	5.55
3.40	6	0.02	12.26	8.25
3.50	13	0.01	26.56	17.71
3.60	14	0.01	28.61	18.90
3.70	15	0.01	30.65	20.06
3.80	9	0.01	18.39	11.93
3.90	6	0.02	12.26	7.88
4.00	11	0.01	22.48	14.32
4.10	15	0.01	30.65	19.36
4.20	12	0.01	24.52	15.35
4.30	8	0.01	16.35	10.15
4.40	9	0.01	18.39	11.32
4.50	7	0.01	14.30	8.73
4.60	8	0.01	16.35	9.89
4.70	7	0.01	14.30	8.59
4.80	7	0.01	14.30	8.51
4.90	6	0.02	12.26	7.24
5.00	7	0.01	14.30	8.38



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

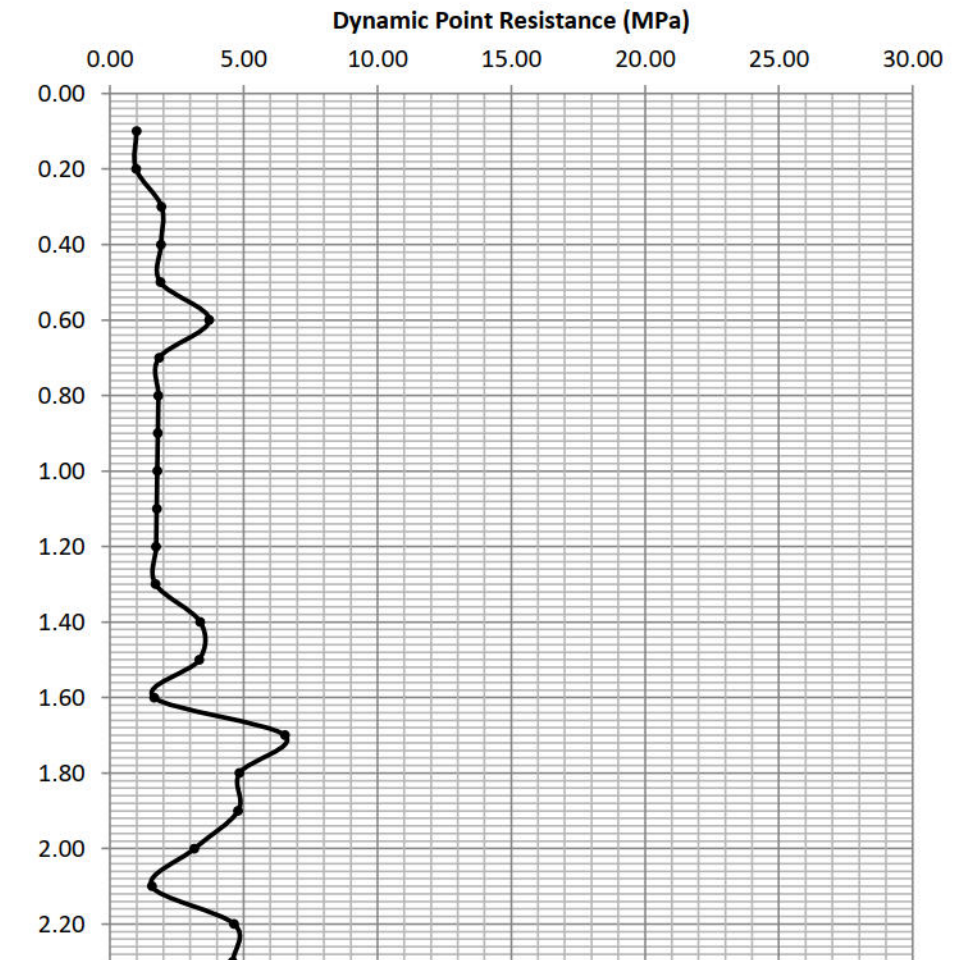
ASHDOWN SITE INVESTIGATION LTD

Dynamic Probe Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS150

Depth (mbgl)	Blows (per 100mm)	Average Penetration per Blow (m)	Unit Point Resistance (MPa)	Dynamic Point Resistance (MPa)
0.10	0.5	0.20	1.02	0.99
0.20	0.5	0.20	1.02	0.98
0.30	1	0.10	2.04	1.93
0.40	1	0.10	2.04	1.91
0.50	1	0.10	2.04	1.88
0.60	2	0.05	4.09	3.72
0.70	1	0.10	2.04	1.84
0.80	1	0.10	2.04	1.81
0.90	1	0.10	2.04	1.79
1.00	1	0.10	2.04	1.77
1.10	1	0.10	2.04	1.75
1.20	1	0.10	2.04	1.73
1.30	1	0.10	2.04	1.71
1.40	2	0.05	4.09	3.38
1.50	2	0.05	4.09	3.34
1.60	1	0.10	2.04	1.65
1.70	4	0.03	8.17	6.53
1.80	3	0.03	6.13	4.85
1.90	3	0.03	6.13	4.79
2.00	2	0.05	4.09	3.16
2.10	1	0.10	2.04	1.56
2.20	3	0.03	6.13	4.64
2.30	3	0.03	6.13	4.60
2.40	3	0.03	6.13	4.55
2.50	2	0.05	4.09	3.00
2.60	2	0.05	4.09	2.97
2.70	2	0.05	4.09	2.94
2.80	1	0.10	2.04	1.46
2.90	2	0.05	4.09	2.88
3.00	1	0.10	2.04	1.43
3.10	1	0.10	2.04	1.41
3.20	1	0.10	2.04	1.40
3.30	1	0.10	2.04	1.39
3.40	0.5	0.20	1.02	0.69
3.50	0.5	0.20	1.02	0.68
3.60	0.2	0.50	0.41	0.27
3.70	0.2	0.50	0.41	0.27
3.80	0.2	0.50	0.41	0.27
3.90	0.2	0.50	0.41	0.26
4.00	0.2	0.50	0.41	0.26
4.10	1	0.10	2.04	1.29
4.20	0.33	0.30	0.67	0.42
4.30	0.33	0.30	0.67	0.42
4.40	0.33	0.30	0.67	0.42
4.50	1	0.10	2.04	1.25
4.60	3	0.03	6.13	3.71
4.70	3	0.03	6.13	3.68
4.80	3	0.03	6.13	3.65
4.90	4	0.03	8.17	4.83
5.00	3	0.03	6.13	3.59



Notes:

Hammer Mass	63.5	kg
Fall Height	0.76	m
Cone Area	0.0019	m^2
E_{theor}	473	J
Energy Ratio	0.82	
Anvil Mass	1	kg
Rod Mass	8.79	kg/m

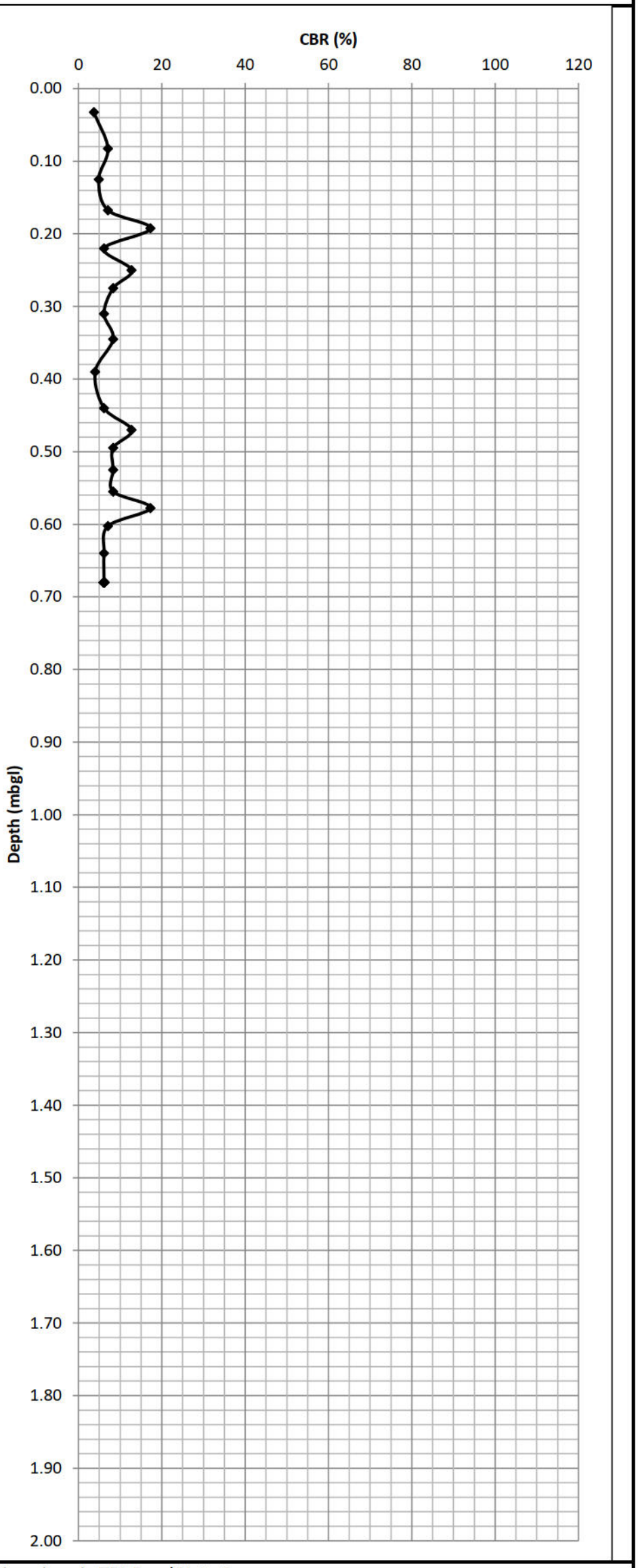
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS101
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		220	0.00	
1	1	285	0.07	4
1	2	320	0.10	7
1	3	370	0.15	5
1	4	405	0.19	7
1	5	420	0.20	17
1	6	460	0.24	6
1	7	480	0.26	13
1	8	510	0.29	8
1	9	550	0.33	6
1	10	580	0.36	8
1	11	640	0.42	4
1	12	680	0.46	6
1	13	700	0.48	13
1	14	730	0.51	8
1	15	760	0.54	8
1	16	790	0.57	8
1	17	805	0.59	17
1	18	840	0.62	7
1	19	880	0.66	6
1	20	920	0.70	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

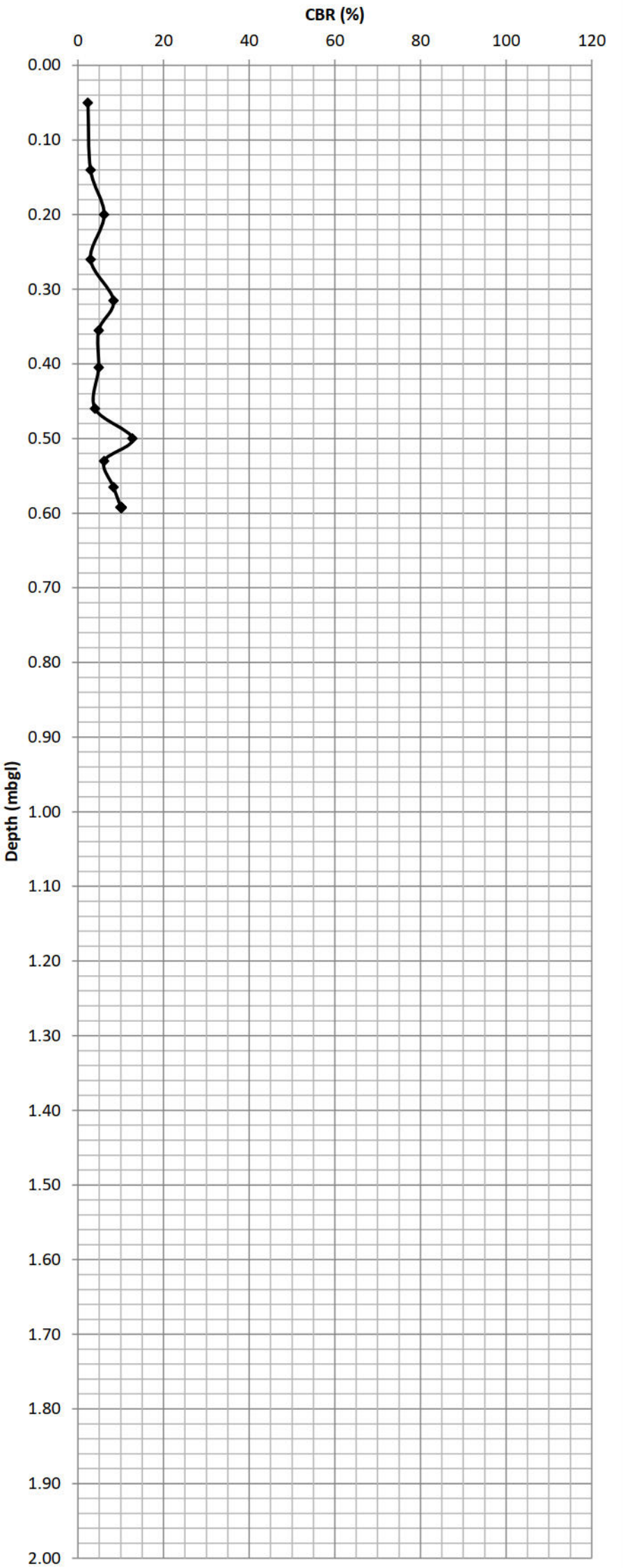
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS102
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		300	0.00	
1	1	400	0.10	2
1	2	480	0.18	3
1	3	520	0.22	6
1	4	600	0.30	3
1	5	630	0.33	8
1	6	680	0.38	5
1	7	730	0.43	5
1	8	790	0.49	4
1	9	810	0.51	13
1	10	850	0.55	6
1	11	880	0.58	8
1	12	905	0.61	10



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

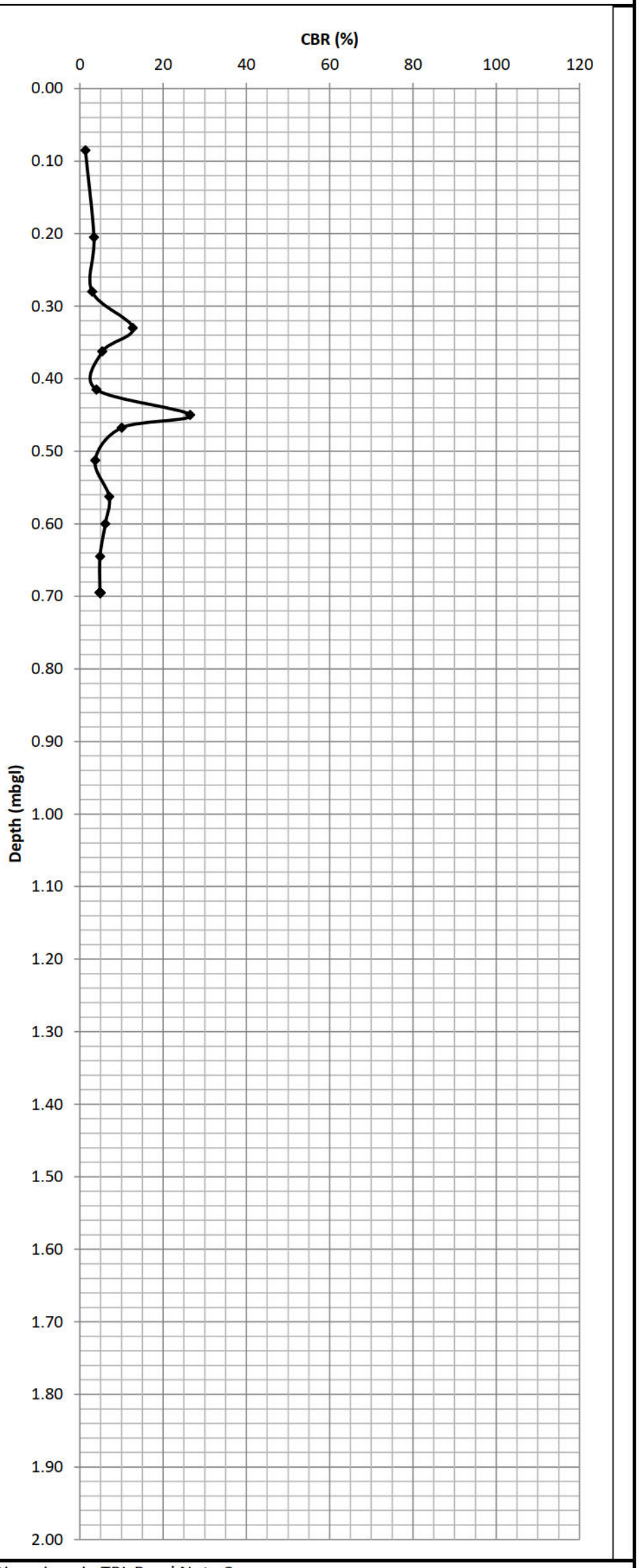
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS103
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		180	0.00	
1	1	350	0.17	1
1	2	420	0.24	3
1	3	500	0.32	3
1	4	520	0.34	13
1	5	565	0.39	5
1	6	625	0.45	4
1	7	635	0.46	26
1	8	660	0.48	10
1	9	725	0.55	4
1	10	760	0.58	7
1	11	800	0.62	6
1	12	850	0.67	5
1	13	900	0.72	5



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

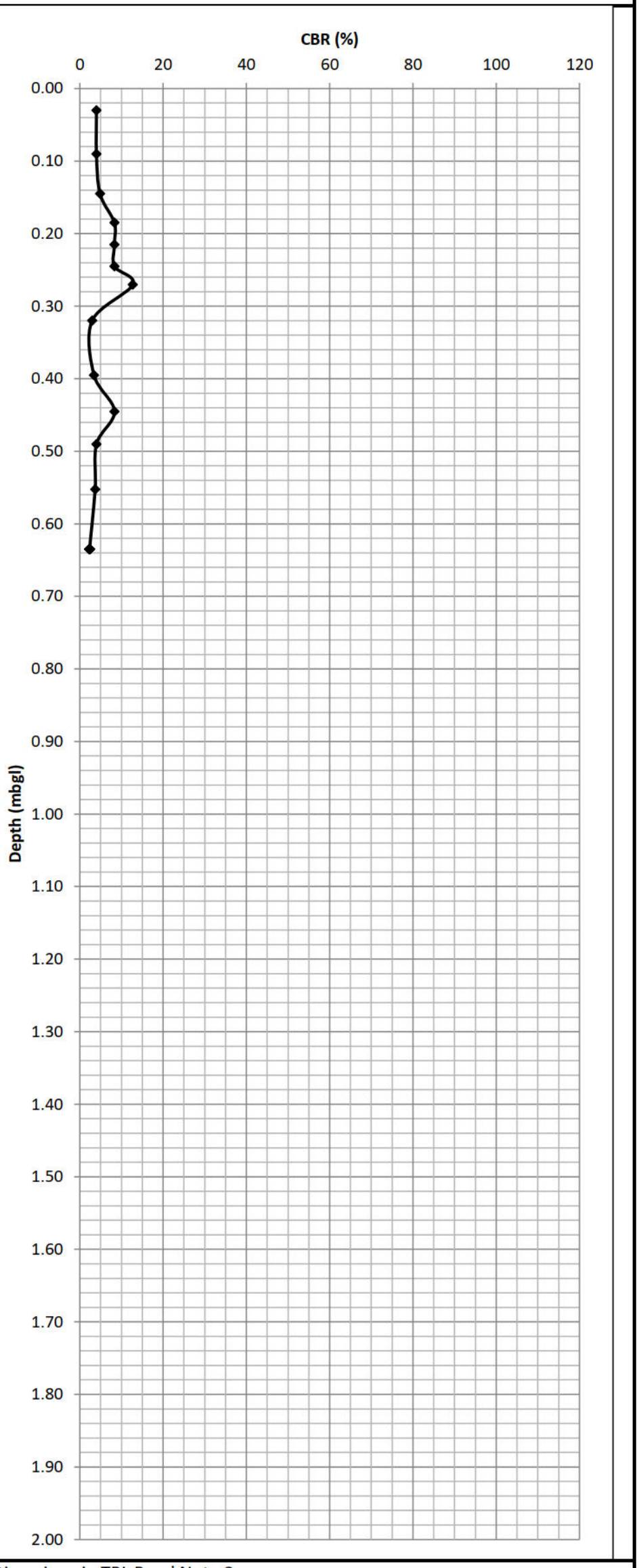
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS104
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		220	0.00	
1	1	280	0.06	4
1	2	340	0.12	4
1	3	390	0.17	5
1	4	420	0.20	8
1	5	450	0.23	8
1	6	480	0.26	8
1	7	500	0.28	13
1	8	580	0.36	3
1	9	650	0.43	3
1	10	680	0.46	8
1	11	740	0.52	4
1	12	805	0.59	4
1	13	905	0.69	2



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

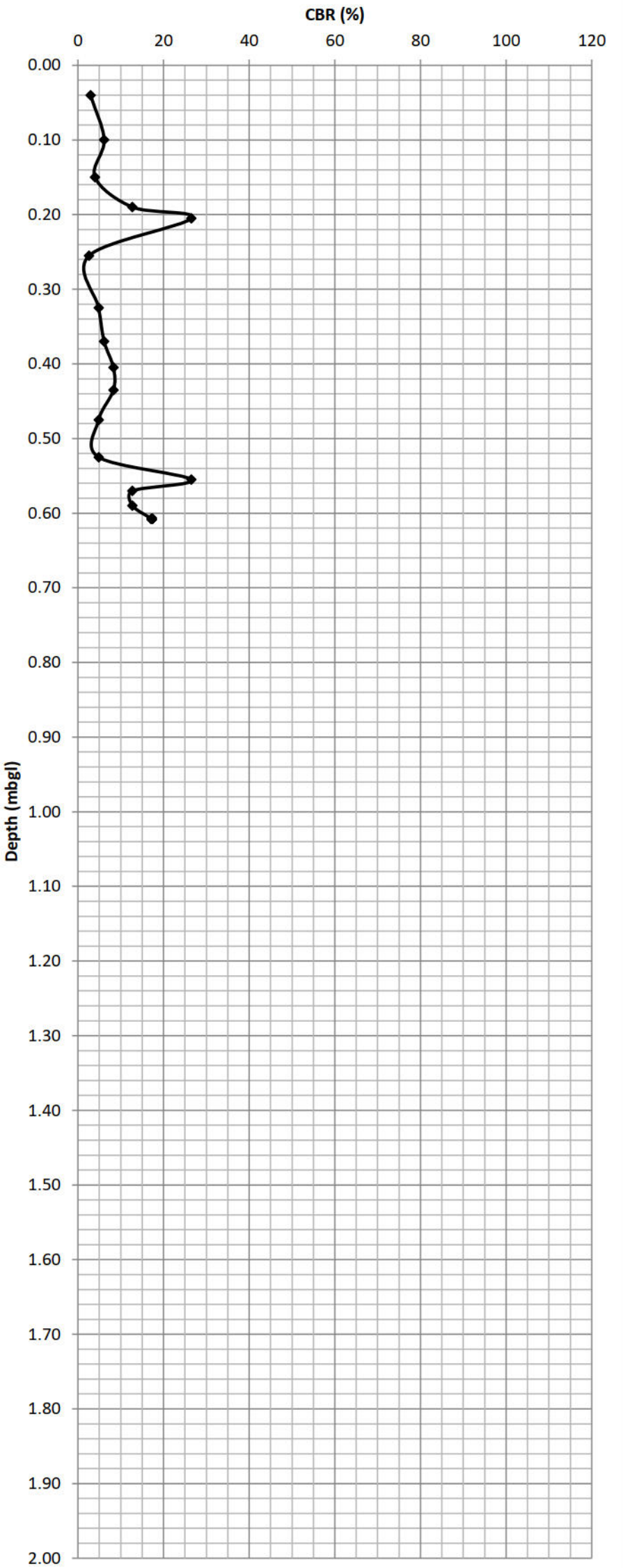
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS105
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		300	0.00	
1	1	380	0.08	3
1	2	420	0.12	6
1	3	480	0.18	4
1	4	500	0.20	13
1	5	510	0.21	26
1	6	600	0.30	3
1	7	650	0.35	5
1	8	690	0.39	6
1	9	720	0.42	8
1	10	750	0.45	8
1	11	800	0.50	5
1	12	850	0.55	5
1	13	860	0.56	26
1	14	880	0.58	13
1	15	900	0.60	13
1	16	915	0.62	17



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

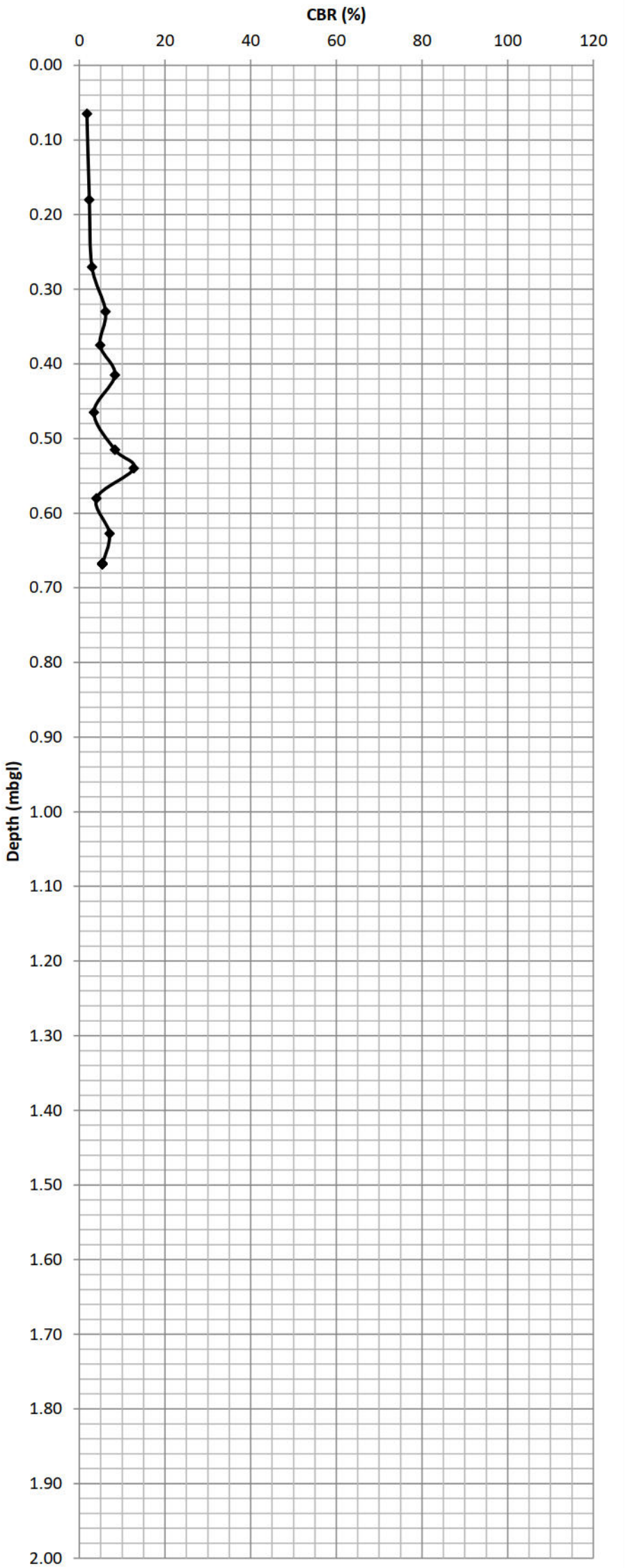
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS106
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	380	0.13	2
1	2	480	0.23	2
1	3	560	0.31	3
1	4	600	0.35	6
1	5	650	0.40	5
1	6	680	0.43	8
1	7	750	0.50	3
1	8	780	0.53	8
1	9	800	0.55	13
1	10	860	0.61	4
1	11	895	0.65	7
1	12	940	0.69	5



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

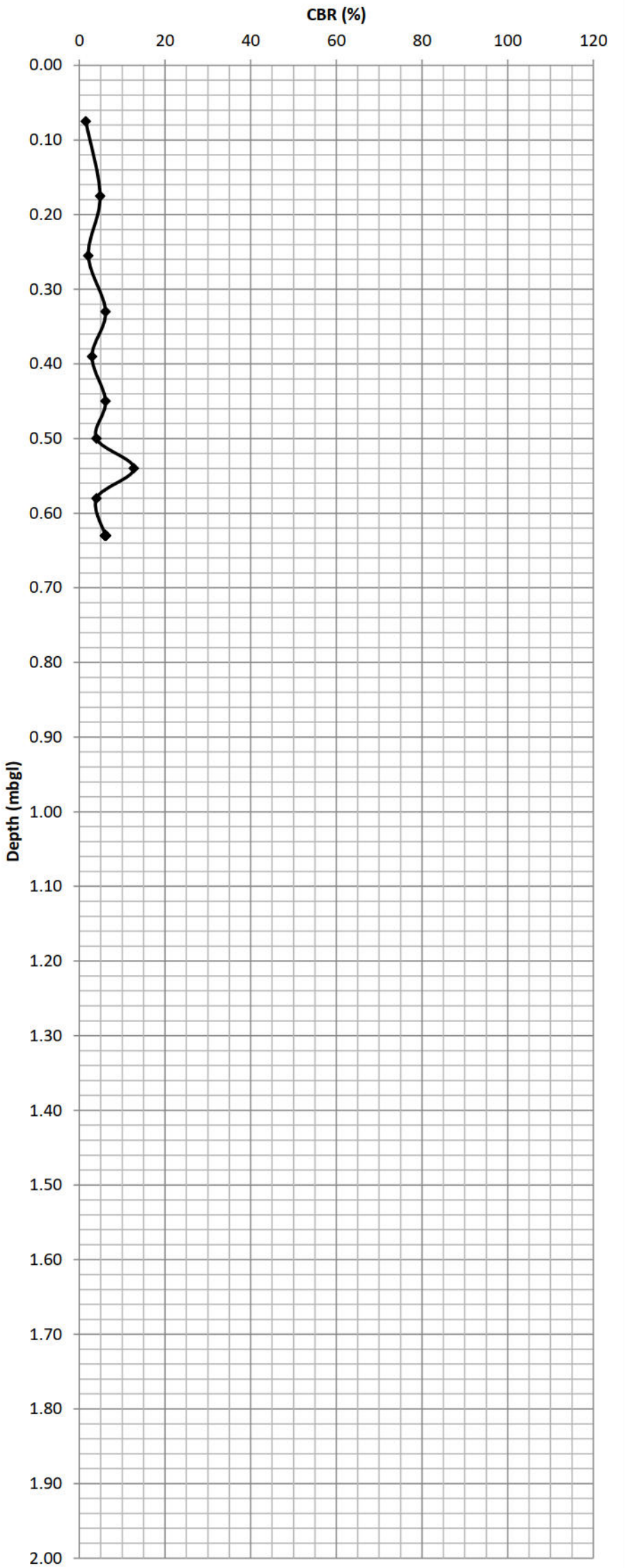
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS107
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	400	0.15	2
1	2	450	0.20	5
1	3	560	0.31	2
1	4	600	0.35	6
1	5	680	0.43	3
1	6	720	0.47	6
1	7	780	0.53	4
1	8	800	0.55	13
1	9	860	0.61	4
1	10	900	0.65	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

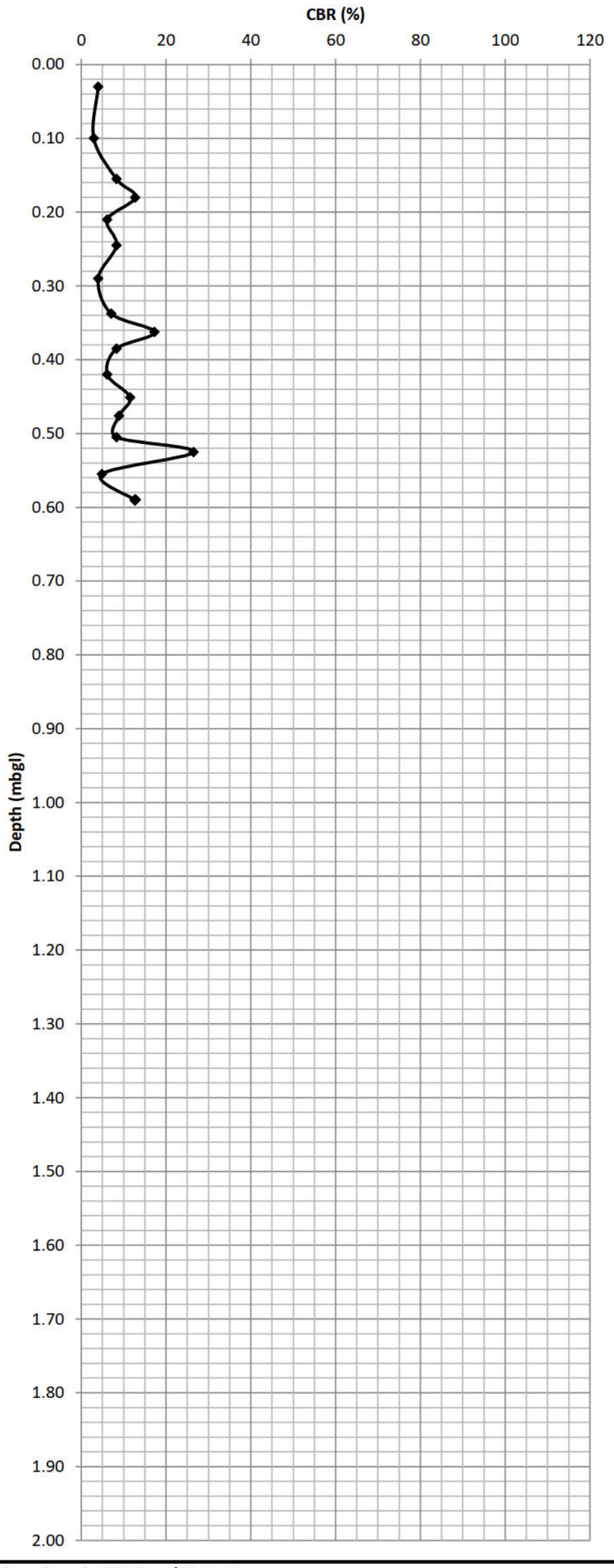
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS109
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		320	0.00	
1	1	380	0.06	4
1	2	460	0.14	3
1	3	490	0.17	8
1	4	510	0.19	13
1	5	550	0.23	6
1	6	580	0.26	8
1	7	640	0.32	4
1	8	675	0.36	7
1	9	690	0.37	17
1	10	720	0.40	8
1	11	760	0.44	6
1	12	782	0.46	12
1	13	810	0.49	9
1	14	840	0.52	8
1	15	850	0.53	26
1	16	900	0.58	5
1	17	920	0.60	13



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

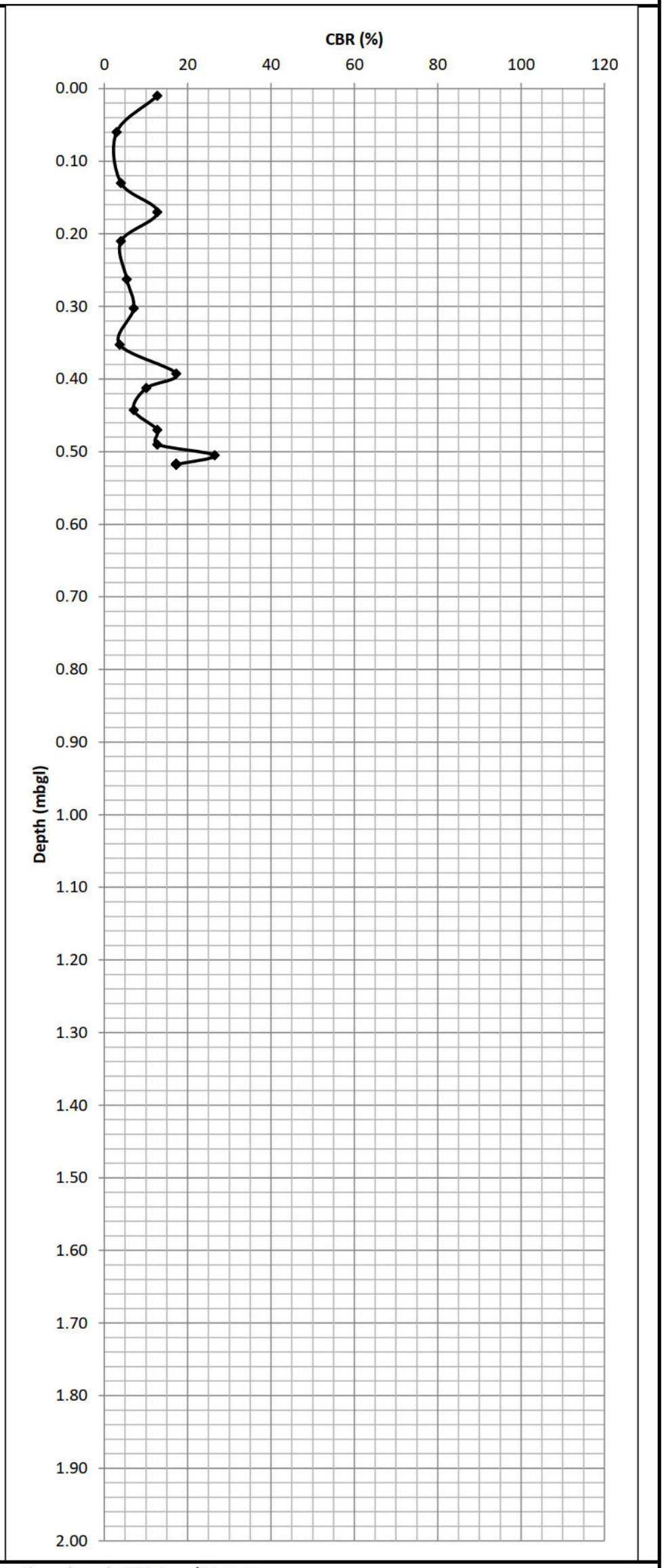
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS110
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		400	0.00	
1	1	420	0.02	13
1	2	500	0.10	3
1	3	560	0.16	4
1	4	580	0.18	13
1	5	640	0.24	4
1	6	685	0.29	5
1	7	720	0.32	7
1	8	785	0.39	4
1	9	800	0.40	17
1	10	825	0.43	10
1	11	860	0.46	7
1	12	880	0.48	13
1	13	900	0.50	13
1	14	910	0.51	26
1	15	925	0.53	17



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

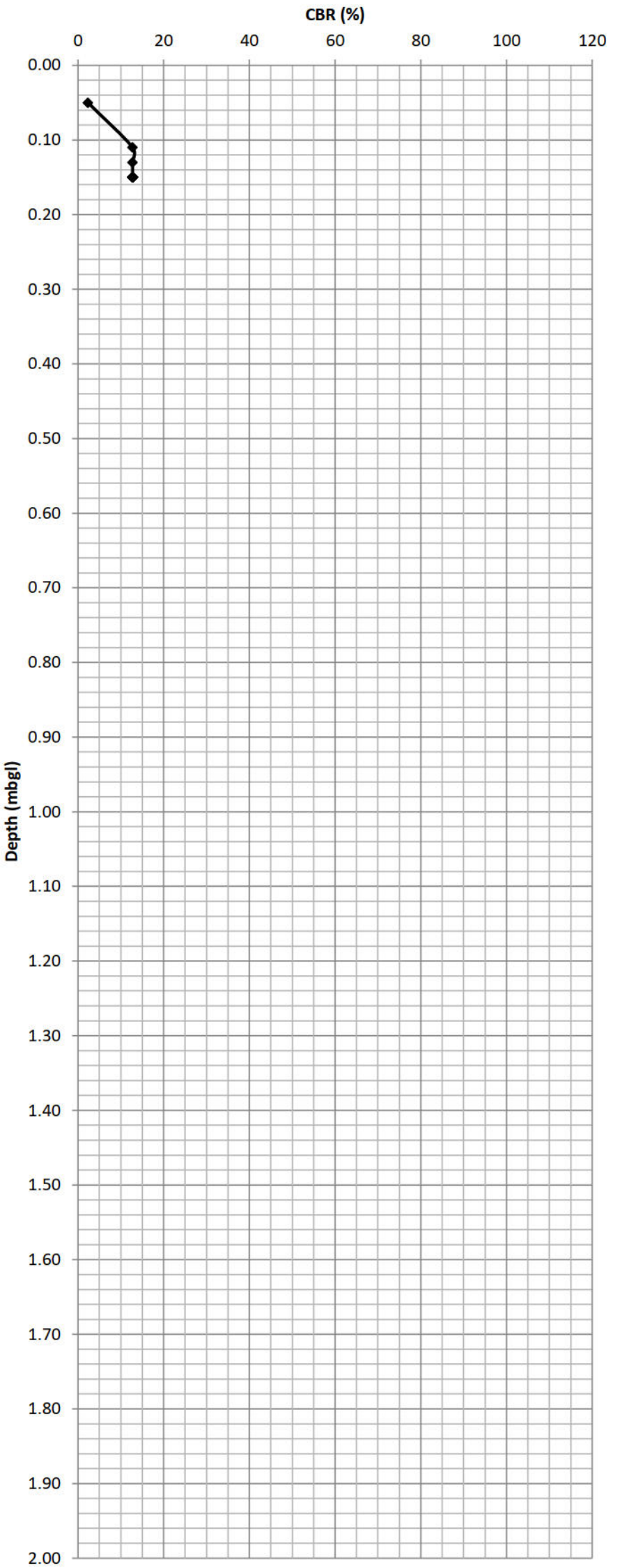
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS111
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		300	0.00	
1	1	400	0.10	2
1	2	420	0.12	13
1	3	440	0.14	13
1	4	460	0.16	13



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

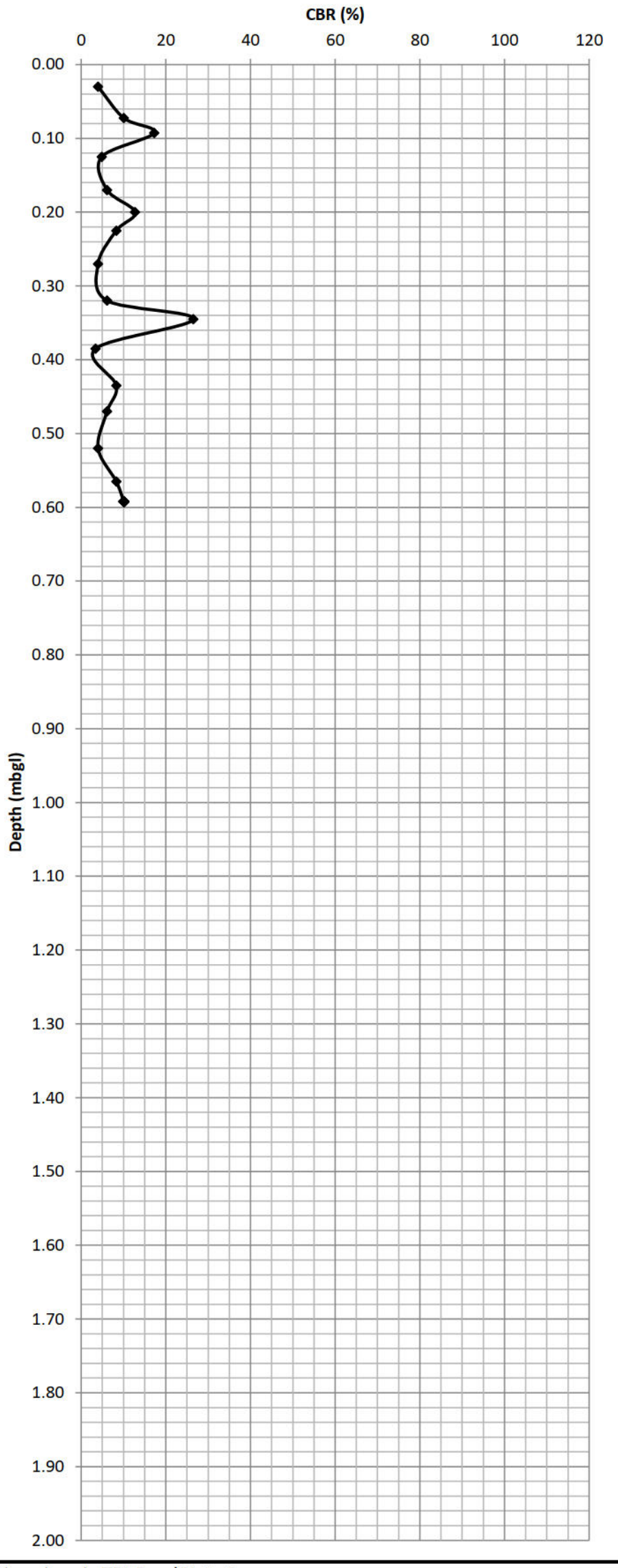
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS112
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		300	0.00	
1	1	360	0.06	4
1	2	385	0.09	10
1	3	400	0.10	17
1	4	450	0.15	5
1	5	490	0.19	6
1	6	510	0.21	13
1	7	540	0.24	8
1	8	600	0.30	4
1	9	640	0.34	6
1	10	650	0.35	26
1	11	720	0.42	3
1	12	750	0.45	8
1	13	790	0.49	6
1	14	850	0.55	4
1	15	880	0.58	8
1	16	905	0.61	10



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

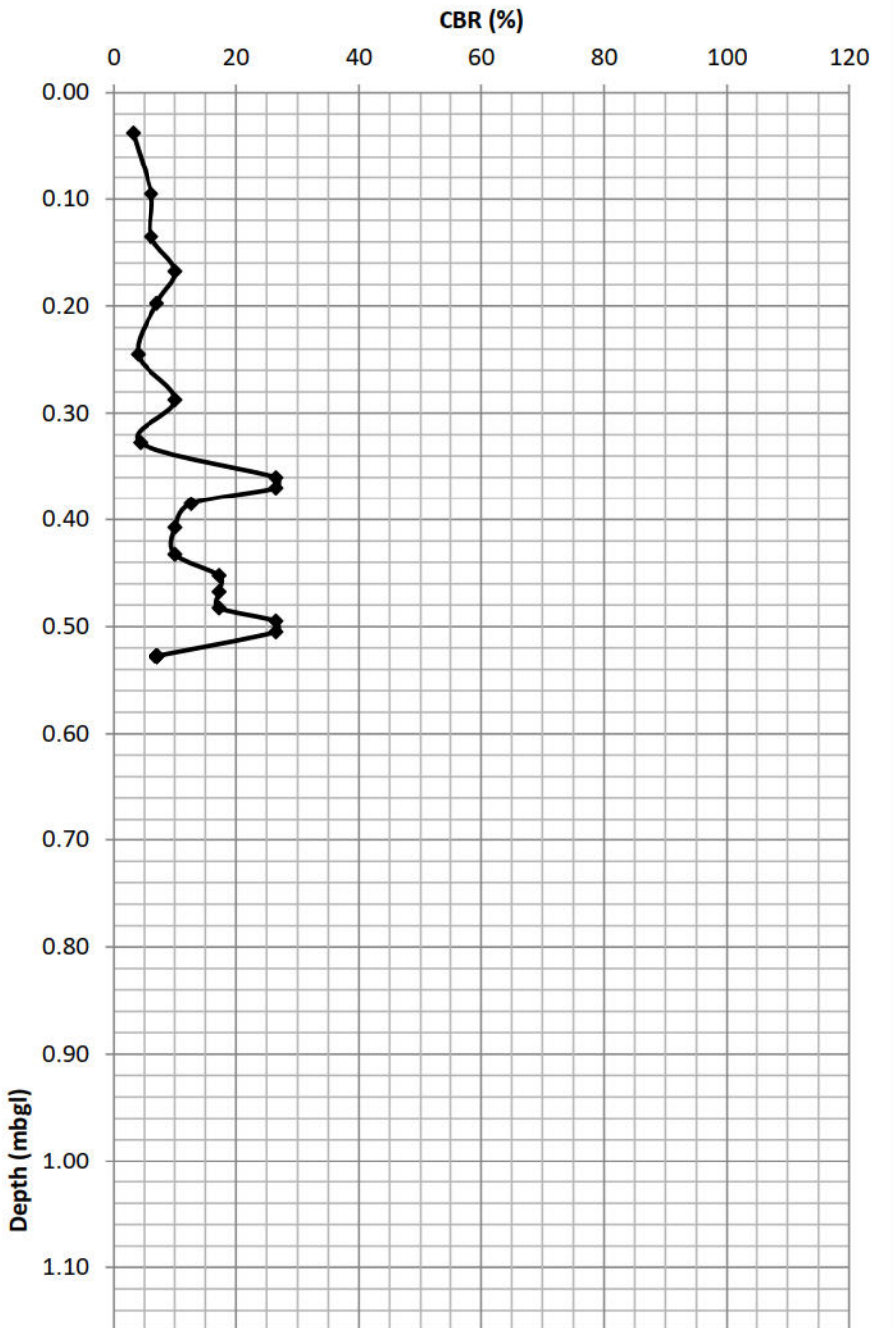
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS113
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		405	0.00	
1	1	480	0.08	3
1	2	520	0.12	6
1	3	560	0.16	6
1	4	585	0.18	10
1	5	620	0.22	7
1	6	680	0.28	4
1	7	705	0.30	10
1	8	760	0.36	4
1	9	770	0.37	26
1	10	780	0.38	26
1	11	800	0.40	13
1	12	825	0.42	10
1	13	850	0.45	10
1	14	865	0.46	17
1	15	880	0.48	17
1	16	895	0.49	17
1	17	905	0.50	26
1	18	915	0.51	26
1	19	950	0.55	7



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

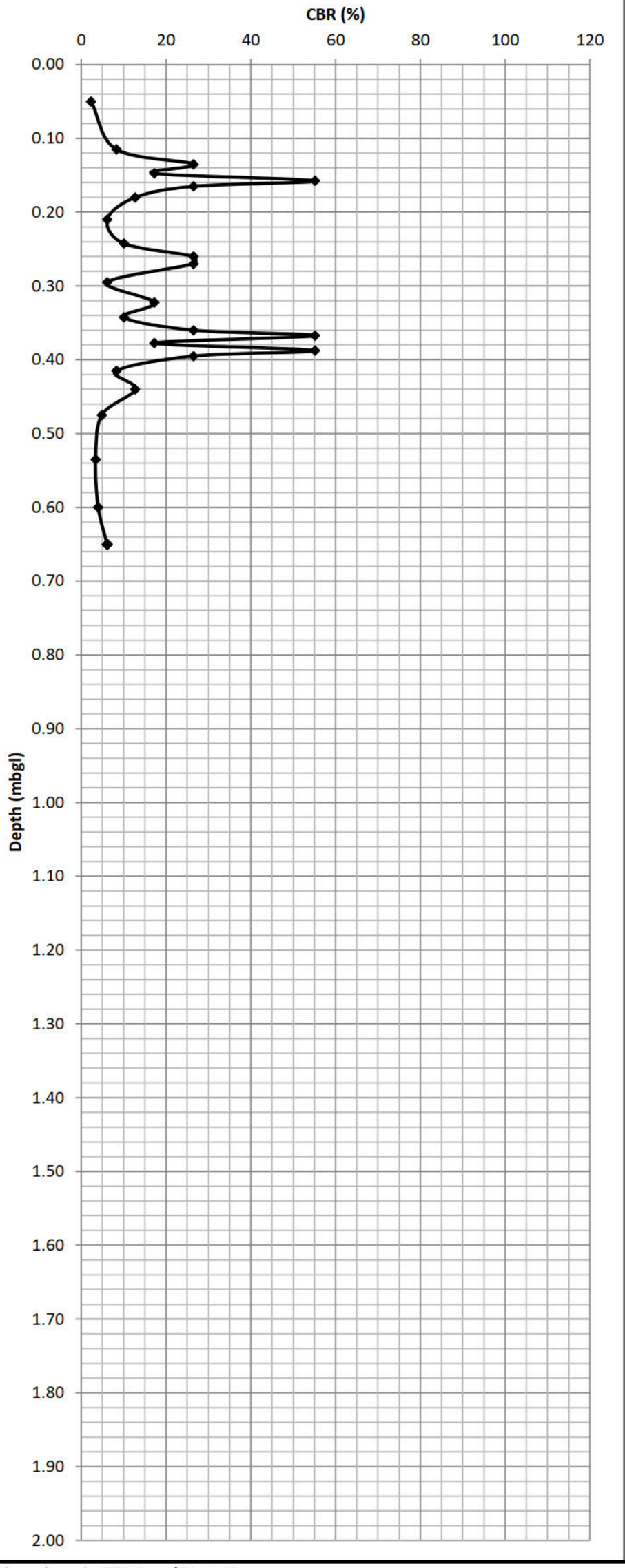
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS114
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	350	0.10	2
1	2	380	0.13	8
1	3	390	0.14	26
1	4	405	0.16	17
1	5	410	0.16	55
1	6	420	0.17	26
1	7	440	0.19	13
1	8	480	0.23	6
1	9	505	0.26	10
1	10	515	0.27	26
1	11	525	0.28	26
1	12	565	0.32	6
1	13	580	0.33	17
1	14	605	0.36	10
1	15	615	0.37	26
1	16	620	0.37	55
1	17	635	0.39	17
1	18	640	0.39	55
1	19	650	0.40	26
1	20	680	0.43	8
1	21	700	0.45	13
1	22	750	0.50	5
1	23	820	0.57	3
1	24	880	0.63	4
1	25	920	0.67	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

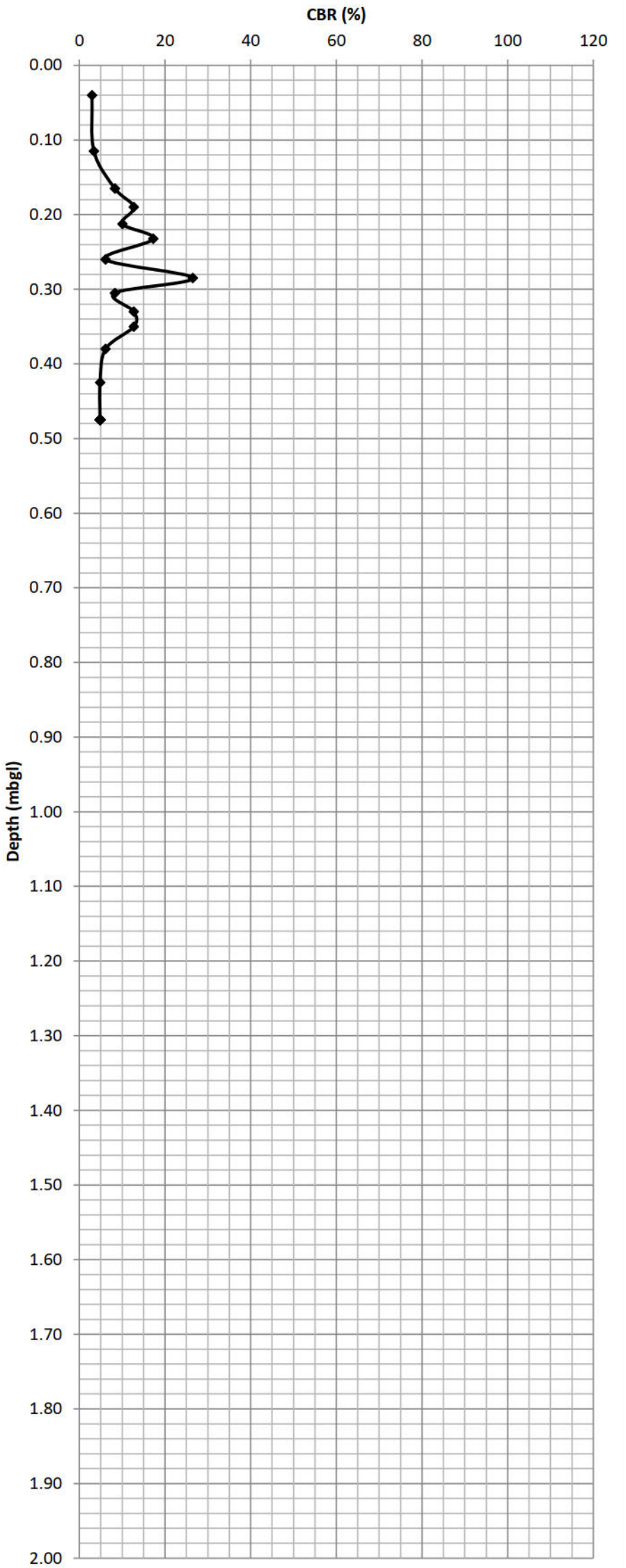
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS115
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		400	0.00	
1	1	480	0.08	3
1	2	550	0.15	3
1	3	580	0.18	8
1	4	600	0.20	13
1	5	625	0.23	10
1	6	640	0.24	17
1	7	680	0.28	6
1	8	690	0.29	26
1	9	720	0.32	8
1	10	740	0.34	13
1	11	760	0.36	13
1	12	800	0.40	6
1	13	850	0.45	5
1	14	900	0.50	5



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

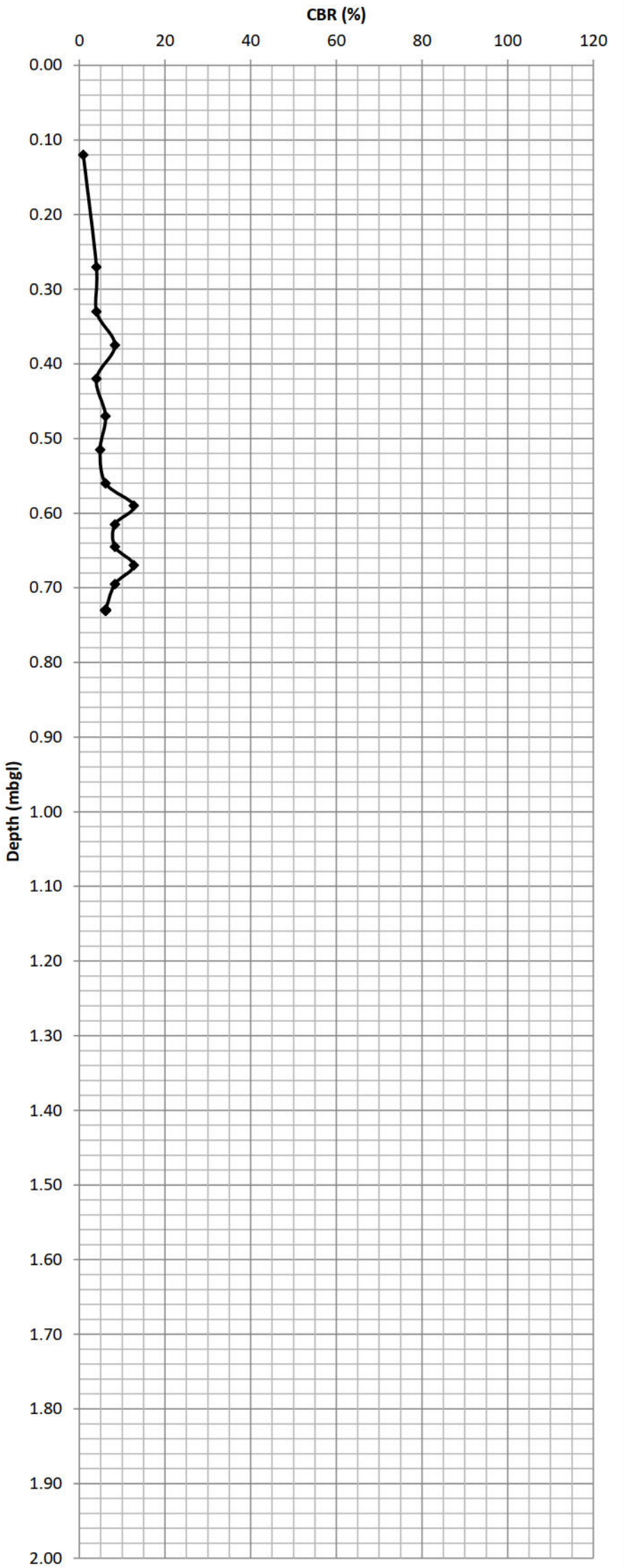
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS116
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		180	0.00	
1	1	420	0.24	1
1	2	480	0.30	4
1	3	540	0.36	4
1	4	570	0.39	8
1	5	630	0.45	4
1	6	670	0.49	6
1	7	720	0.54	5
1	8	760	0.58	6
1	9	780	0.60	13
1	10	810	0.63	8
1	11	840	0.66	8
1	12	860	0.68	13
1	13	890	0.71	8
1	14	930	0.75	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

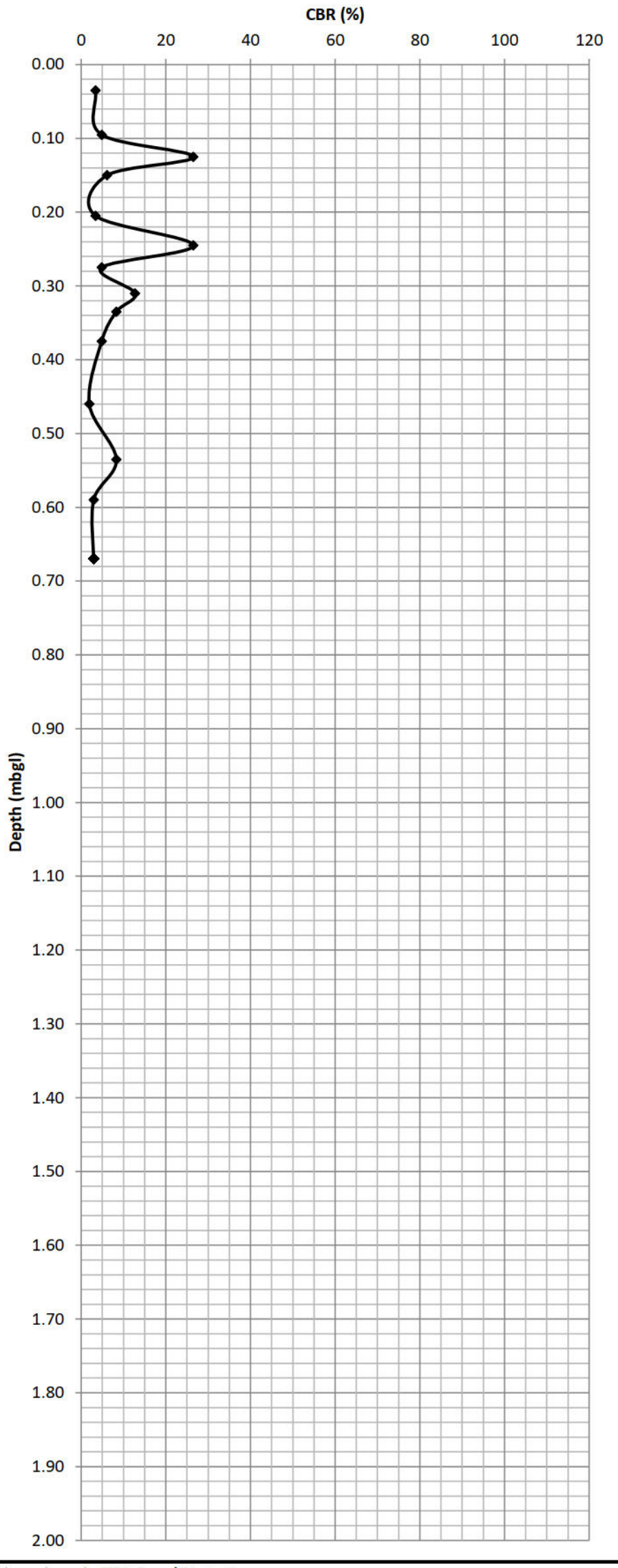
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS117
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		200	0.00	
1	1	270	0.07	3
1	2	320	0.12	5
1	3	330	0.13	26
1	4	370	0.17	6
1	5	440	0.24	3
1	6	450	0.25	26
1	7	500	0.30	5
1	8	520	0.32	13
1	9	550	0.35	8
1	10	600	0.40	5
1	11	720	0.52	2
1	12	750	0.55	8
1	13	830	0.63	3
1	14	910	0.71	3



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

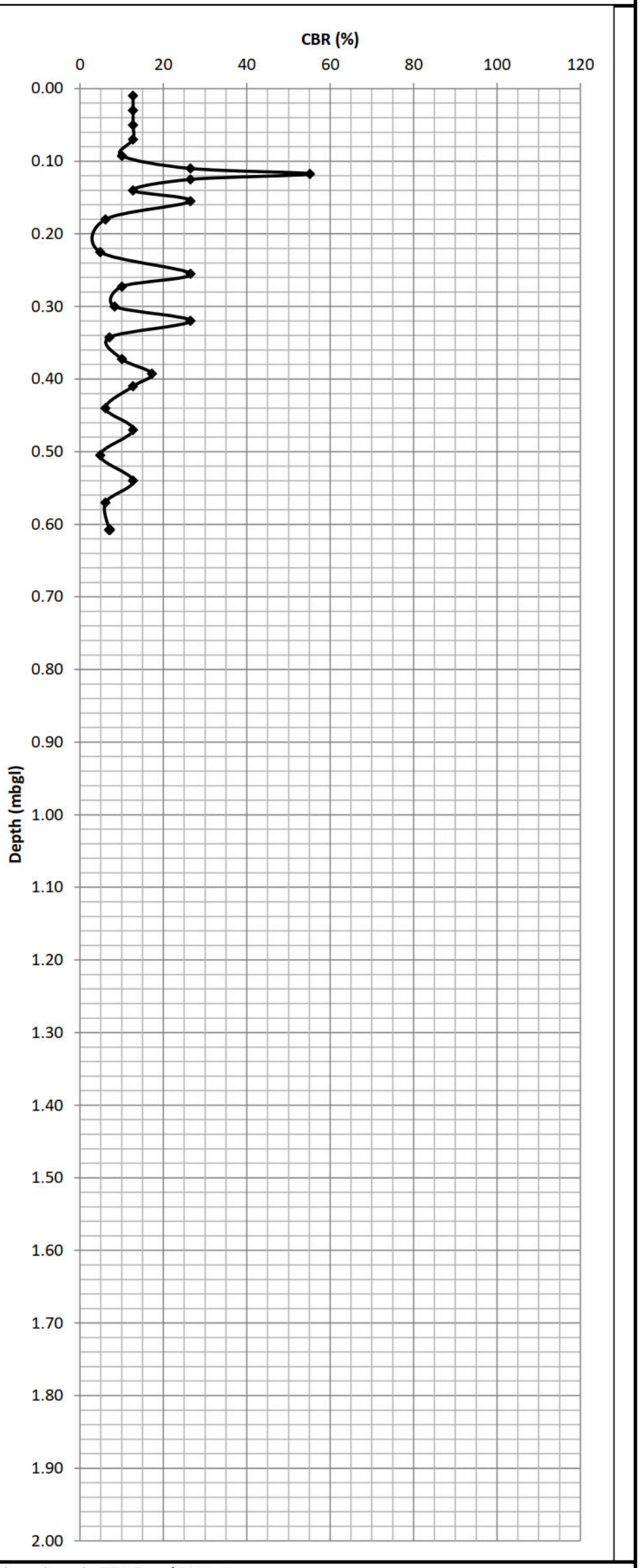
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS118
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		300	0.00	
1	1	320	0.02	13
1	2	340	0.04	13
1	3	360	0.06	13
1	4	380	0.08	13
1	5	405	0.11	10
1	6	415	0.12	26
1	7	420	0.12	55
1	8	430	0.13	26
1	9	450	0.15	13
1	10	460	0.16	26
1	11	500	0.20	6
1	12	550	0.25	5
1	13	560	0.26	26
1	14	585	0.29	10
1	15	615	0.32	8
1	16	625	0.33	26
1	17	660	0.36	7
1	18	685	0.39	10
1	19	700	0.40	17
1	20	720	0.42	13
1	21	760	0.46	6
1	22	780	0.48	13
1	23	830	0.53	5
1	24	850	0.55	13
1	25	890	0.59	6
1	26	925	0.63	7



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

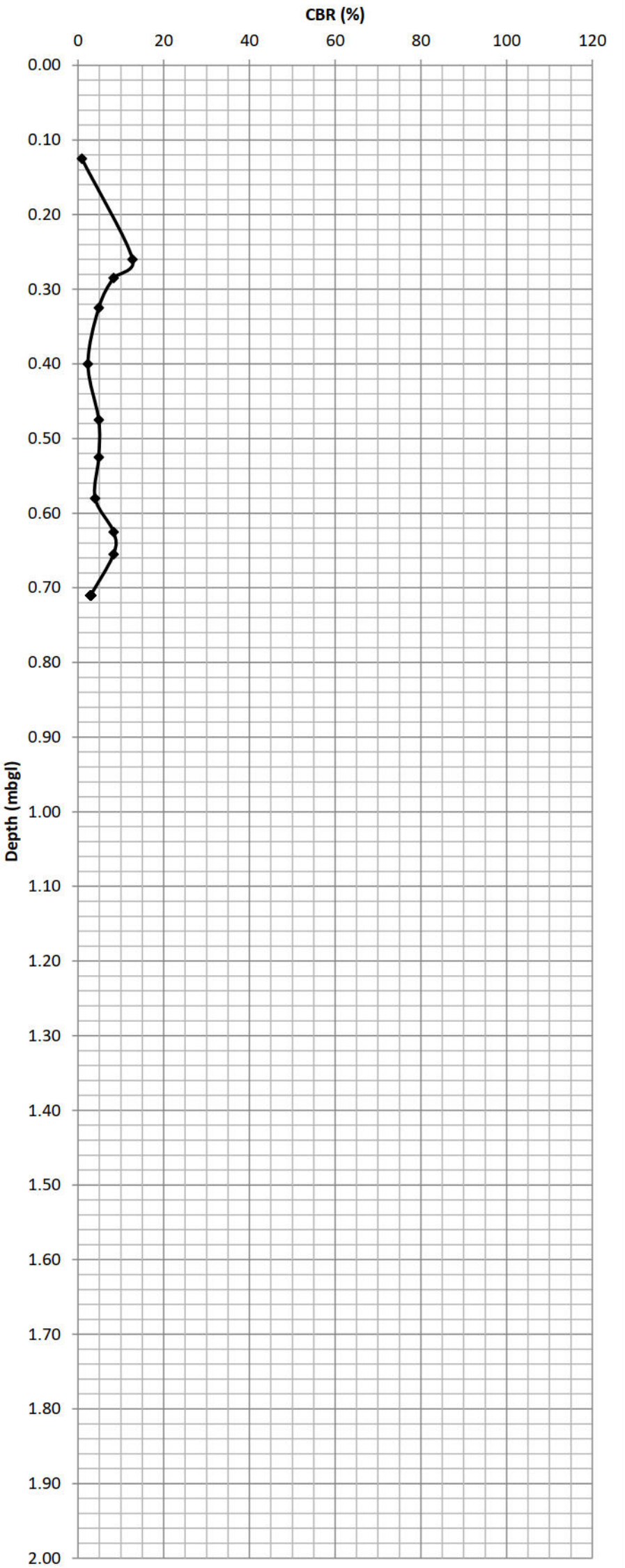
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS119
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		150	0.00	
1	1	400	0.25	1
1	2	420	0.27	13
1	3	450	0.30	8
1	4	500	0.35	5
1	5	600	0.45	2
1	6	650	0.50	5
1	7	700	0.55	5
1	8	760	0.61	4
1	9	790	0.64	8
1	10	820	0.67	8
1	11	900	0.75	3



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

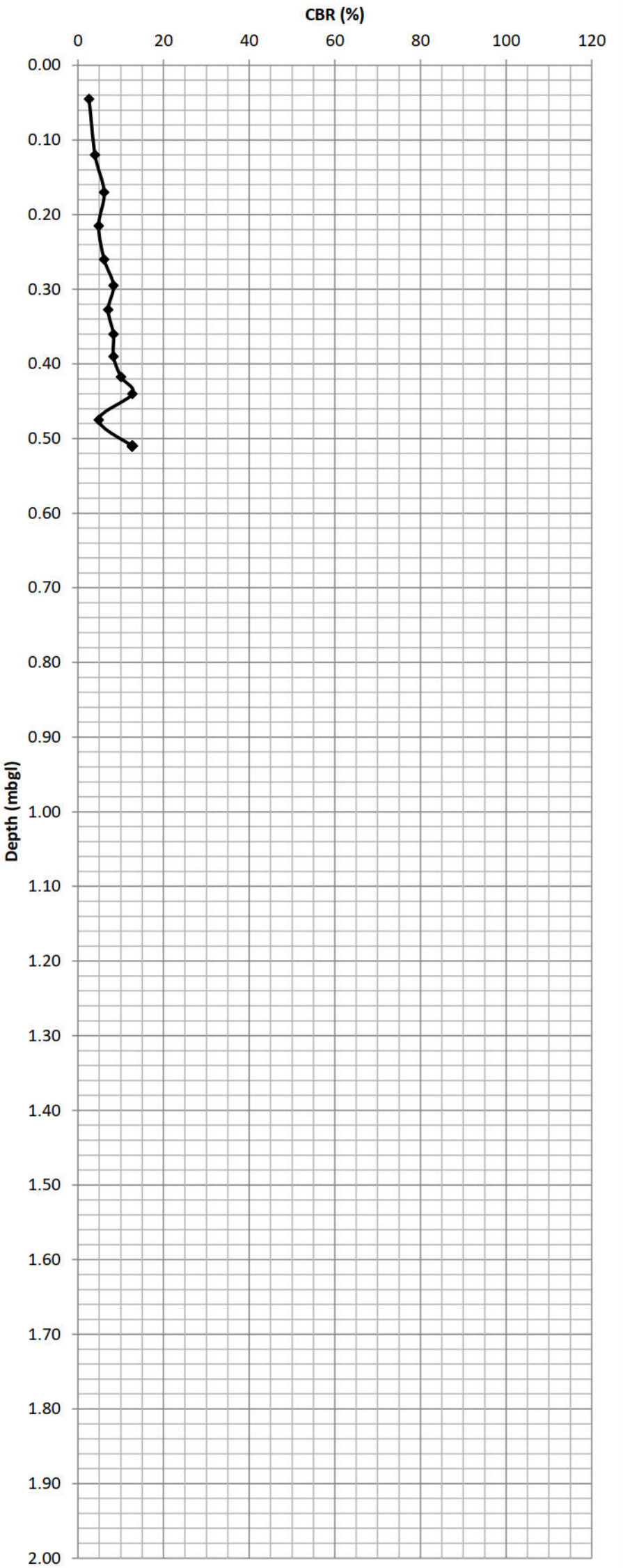
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS120
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		390	0.00	
1	1	480	0.09	3
1	2	540	0.15	4
1	3	580	0.19	6
1	4	630	0.24	5
1	5	670	0.28	6
1	6	700	0.31	8
1	7	735	0.35	7
1	8	765	0.38	8
1	9	795	0.41	8
1	10	820	0.43	10
1	11	840	0.45	13
1	12	890	0.50	5
1	13	910	0.52	13



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

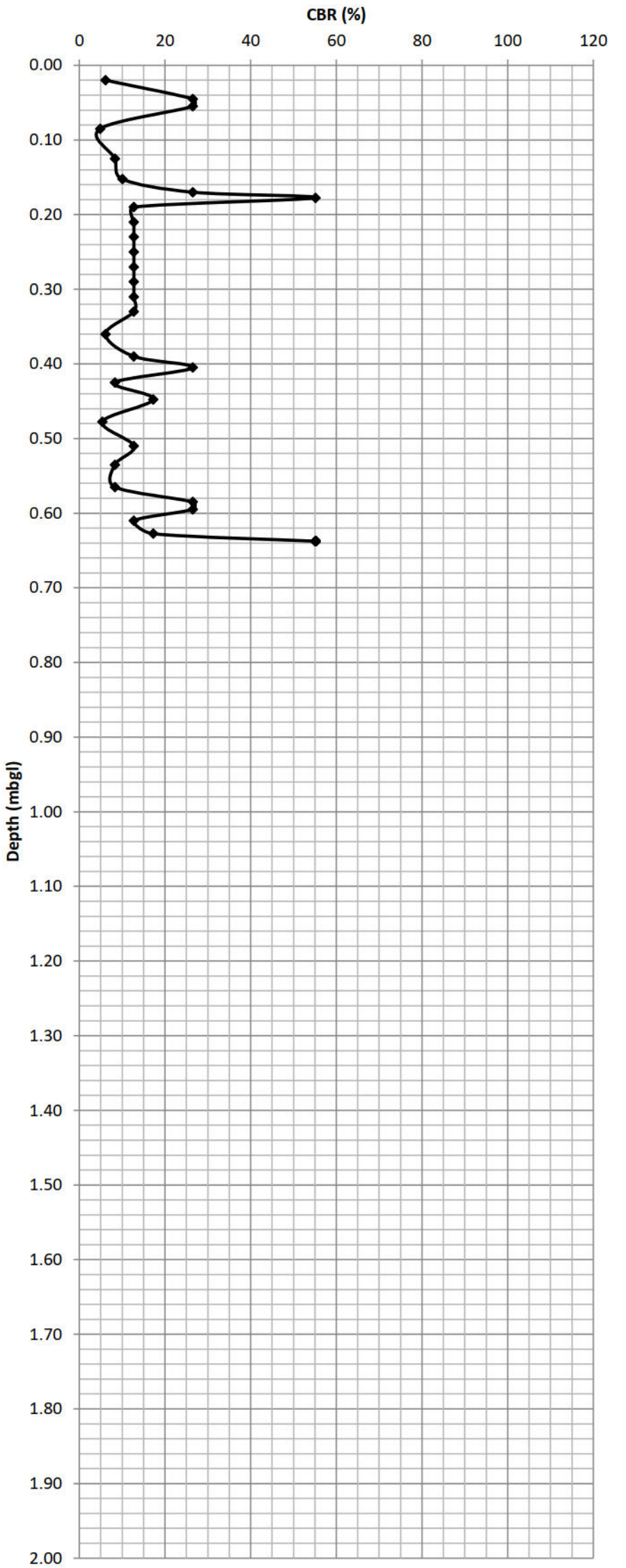
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS121
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		280	0.00	
1	1	320	0.04	6
1	2	330	0.05	26
1	3	340	0.06	26
1	4	390	0.11	5
1	5	420	0.14	8
1	6	445	0.17	10
1	7	455	0.18	26
1	8	460	0.18	55
1	9	480	0.20	13
1	10	500	0.22	13
1	11	520	0.24	13
1	12	540	0.26	13
1	13	560	0.28	13
1	14	580	0.30	13
1	15	600	0.32	13
1	16	620	0.34	13
1	17	660	0.38	6
1	18	680	0.40	13
1	19	690	0.41	26
1	20	720	0.44	8
1	21	735	0.46	17
1	22	780	0.50	5
1	23	800	0.52	13
1	24	830	0.55	8
1	25	860	0.58	8
1	26	870	0.59	26
1	27	880	0.60	26
1	28	900	0.62	13
1	29	915	0.64	17
1	30	920	0.64	55



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

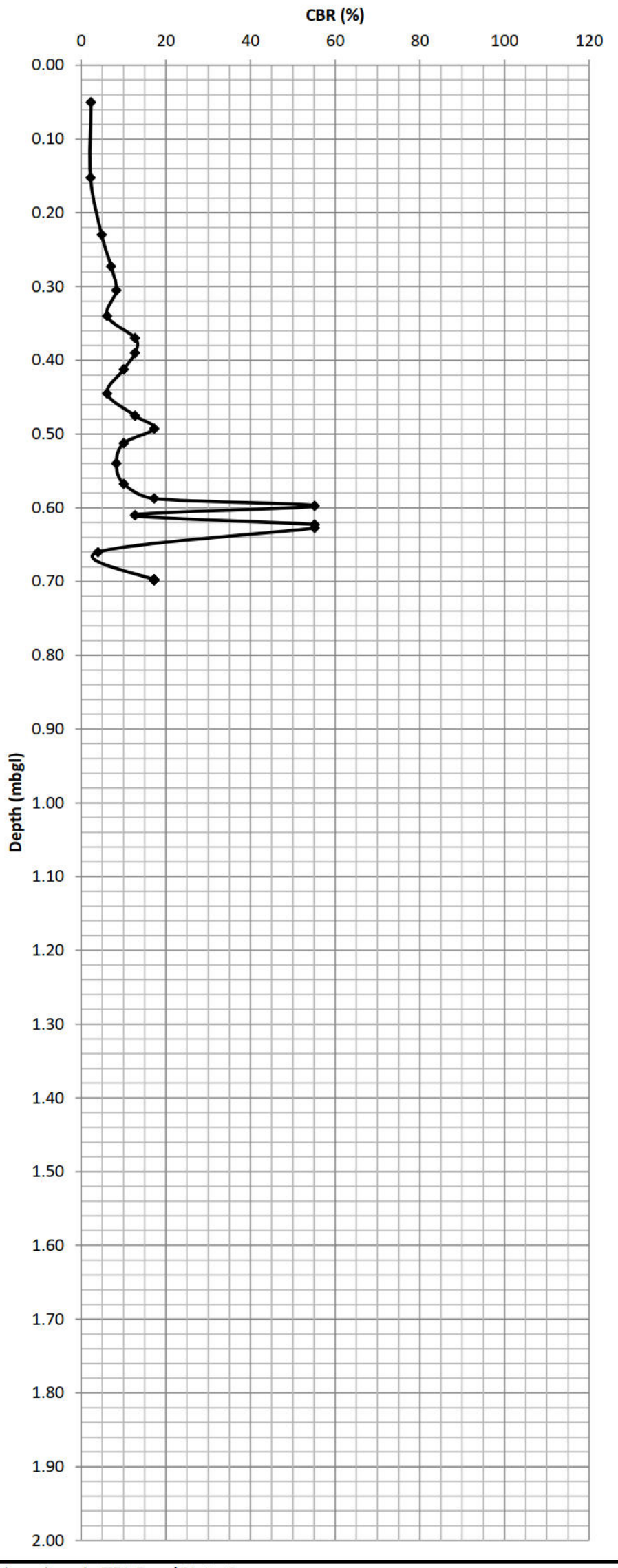
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS122
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		200	0.00	
1	1	300	0.10	2
1	2	405	0.21	2
1	3	455	0.26	5
1	4	490	0.29	7
1	5	520	0.32	8
1	6	560	0.36	6
1	7	580	0.38	13
1	8	600	0.40	13
1	9	625	0.43	10
1	10	665	0.47	6
1	11	685	0.49	13
1	12	700	0.50	17
1	13	725	0.53	10
1	14	755	0.56	8
1	15	780	0.58	10
1	16	795	0.60	17
1	17	800	0.60	55
1	18	820	0.62	13
1	19	825	0.63	55
1	20	830	0.63	55
1	21	890	0.69	4
1	22	905	0.71	17



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

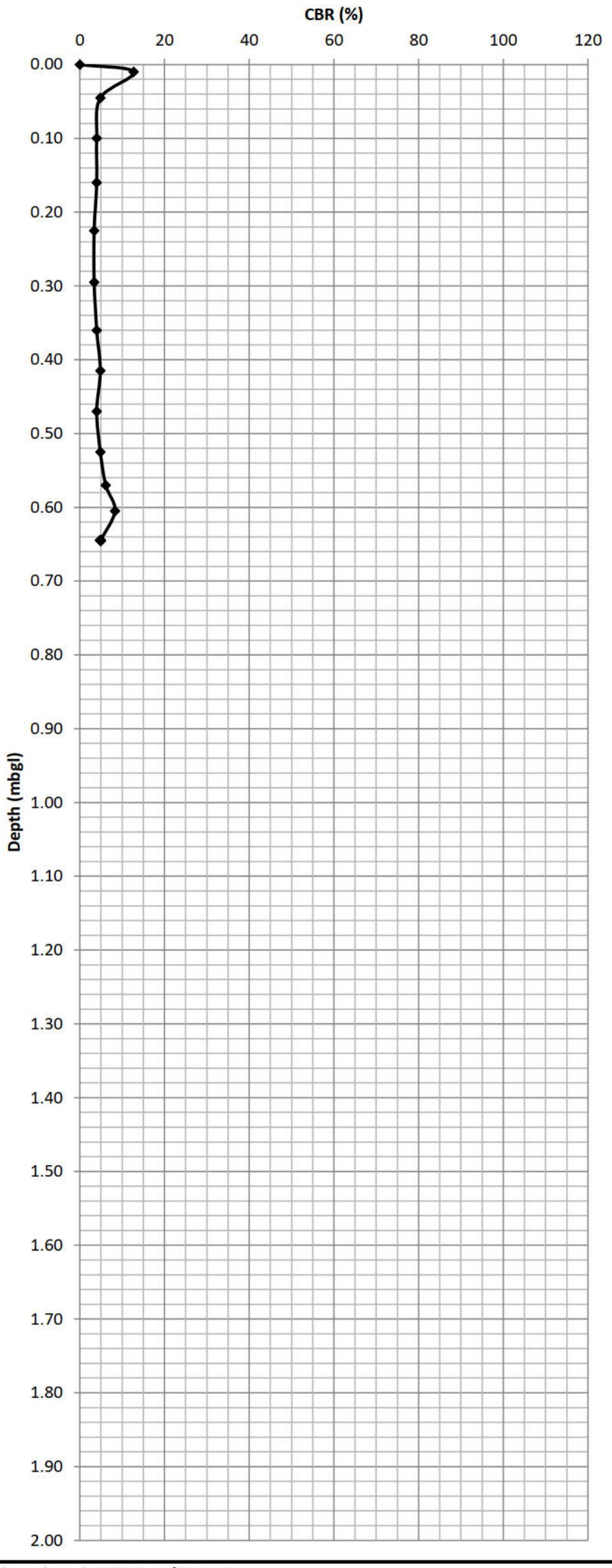
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS123
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	250	0.00	
1	2	270	0.02	13
1	3	320	0.07	5
1	4	380	0.13	4
1	5	440	0.19	4
1	6	510	0.26	3
1	7	580	0.33	3
1	8	640	0.39	4
1	9	690	0.44	5
1	10	750	0.50	4
1	11	800	0.55	5
1	12	840	0.59	6
1	13	870	0.62	8
1	14	920	0.67	5



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

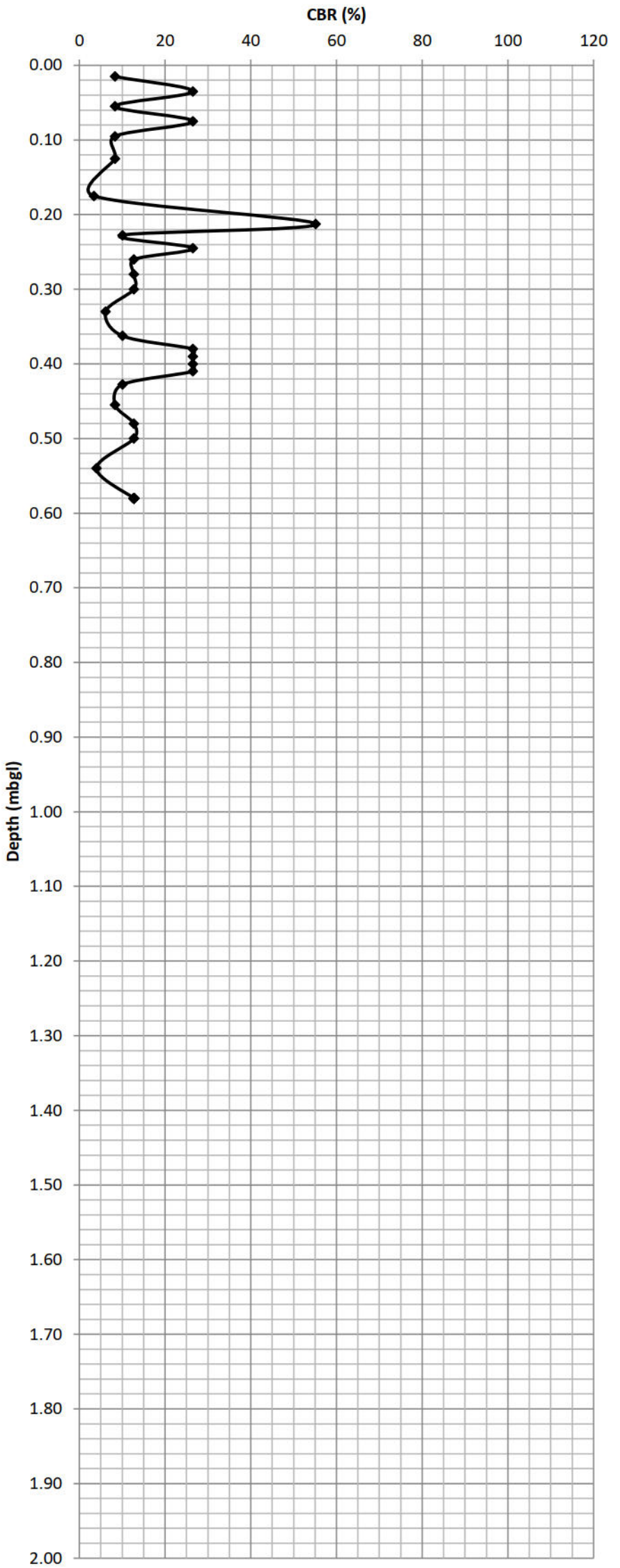
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS124
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		310	0.00	
1	1	340	0.03	8
1	2	350	0.04	26
1	3	380	0.07	8
1	4	390	0.08	26
1	5	420	0.11	8
1	6	450	0.14	8
1	7	520	0.21	3
1	8	525	0.22	55
1	9	550	0.24	10
1	10	560	0.25	26
1	11	580	0.27	13
1	12	600	0.29	13
1	13	620	0.31	13
1	14	660	0.35	6
1	15	685	0.38	10
1	16	695	0.39	26
1	17	705	0.40	26
1	18	715	0.41	26
1	19	725	0.42	26
1	20	750	0.44	10
1	21	780	0.47	8
1	22	800	0.49	13
1	23	820	0.51	13
1	24	880	0.57	4
1	25	900	0.59	13



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

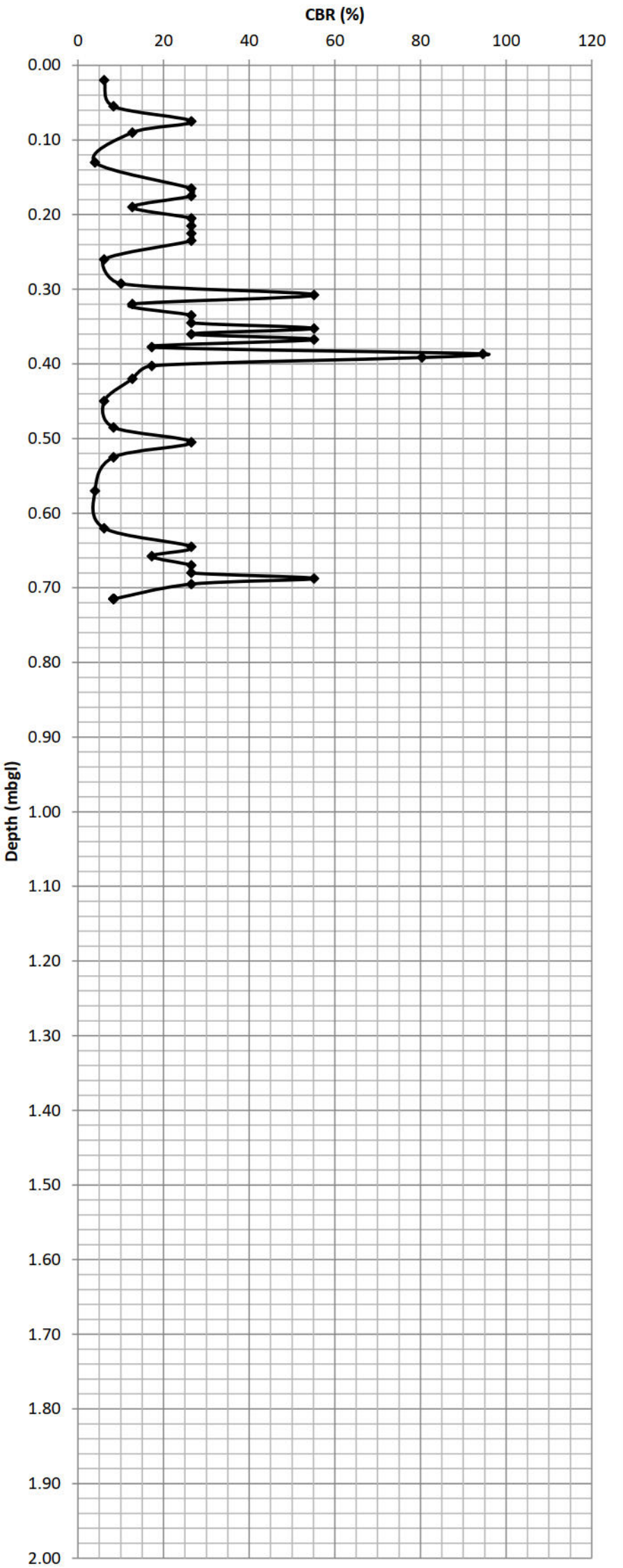
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS125
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		180	0.00	
1	1	220	0.04	6
1	2	250	0.07	8
1	3	260	0.08	26
1	4	280	0.10	13
1	5	340	0.16	4
1	6	350	0.17	26
1	7	360	0.18	26
1	8	380	0.20	13
1	9	390	0.21	26
1	10	400	0.22	26
1	11	410	0.23	26
1	12	420	0.24	26
1	13	460	0.28	6
1	14	485	0.31	10
1	15	490	0.31	55
1	16	510	0.33	13
1	17	520	0.34	26
1	18	530	0.35	26
1	19	535	0.36	55
1	20	545	0.37	26
1	21	550	0.37	55
1	22	565	0.39	17
1	23	568	0.39	95
2	25	575	0.40	80
1	26	590	0.41	17
1	27	610	0.43	13
1	28	650	0.47	6
1	29	680	0.50	8
1	30	690	0.51	26
1	31	720	0.54	8
1	32	780	0.60	4
1	33	820	0.64	6
1	34	830	0.65	26
1	35	845	0.67	17
1	36	855	0.68	26
1	37	865	0.69	26
1	38	870	0.69	55
1	39	880	0.70	26
1	40	910	0.73	8



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

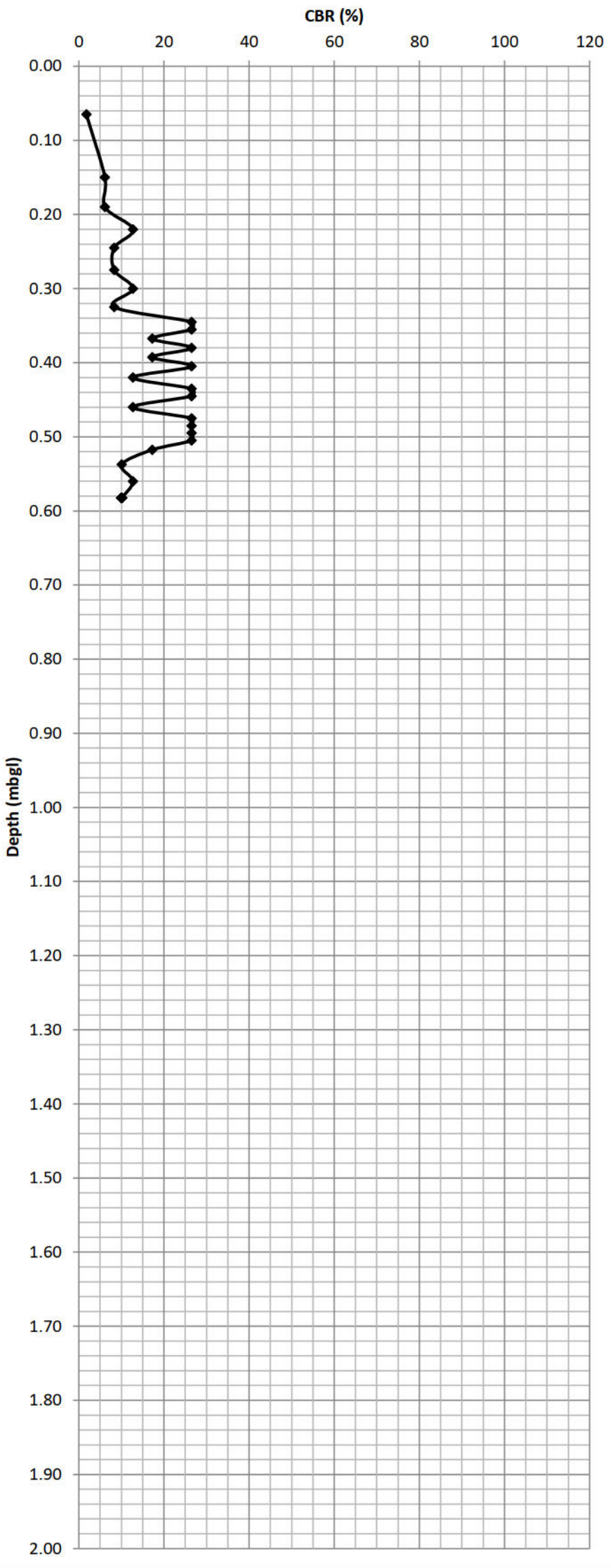
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS126
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		350	0.00	
1	1	480	0.13	2
1	2	520	0.17	6
1	3	560	0.21	6
1	4	580	0.23	13
1	5	610	0.26	8
1	6	640	0.29	8
1	7	660	0.31	13
1	8	690	0.34	8
1	9	700	0.35	26
1	10	710	0.36	26
1	11	725	0.38	17
1	12	735	0.39	26
1	13	750	0.40	17
1	14	760	0.41	26
1	15	780	0.43	13
1	16	790	0.44	26
1	17	800	0.45	26
1	18	820	0.47	13
1	19	830	0.48	26
1	20	840	0.49	26
1	21	850	0.50	26
1	22	860	0.51	26
1	23	875	0.53	17
1	24	900	0.55	10
1	25	920	0.57	13
1	26	945	0.60	10



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

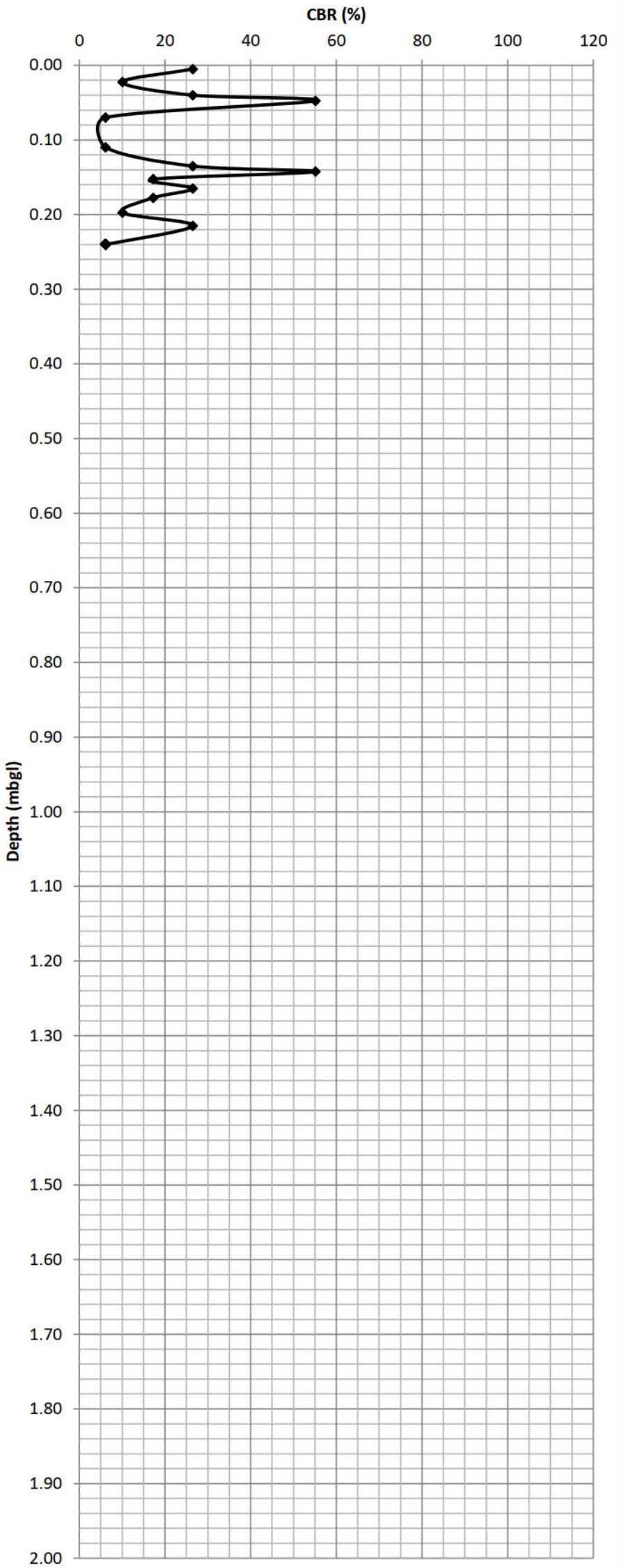
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS127
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	260	0.01	26
1	2	285	0.04	10
1	3	295	0.05	26
1	4	300	0.05	55
1	5	340	0.09	6
1	6	380	0.13	6
1	7	390	0.14	26
1	8	395	0.15	55
1	9	410	0.16	17
1	10	420	0.17	26
1	11	435	0.19	17
1	12	460	0.21	10
1	13	470	0.22	26
1	14	510	0.26	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

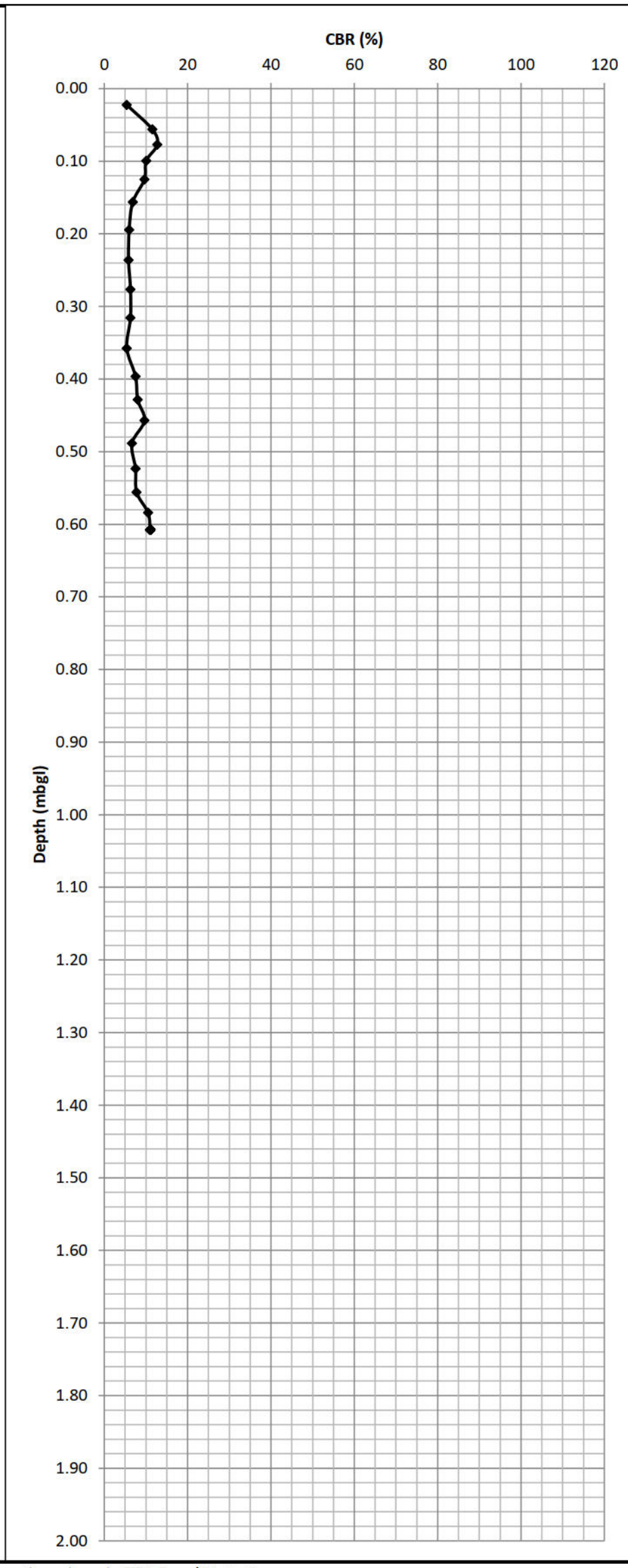
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS128
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		295	0.00	
1	1	340	0.05	5
1	2	362	0.07	12
1	3	382	0.09	13
1	4	407	0.11	10
1	5	433	0.14	10
1	6	469	0.17	7
1	7	510	0.22	6
1	8	552	0.26	6
1	9	591	0.30	6
1	10	630	0.34	6
1	11	675	0.38	5
1	12	708	0.41	7
1	13	739	0.44	8
1	14	765	0.47	10
1	15	802	0.51	7
1	16	835	0.54	7
1	17	867	0.57	8
1	18	891	0.60	10
1	19	914	0.62	11



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

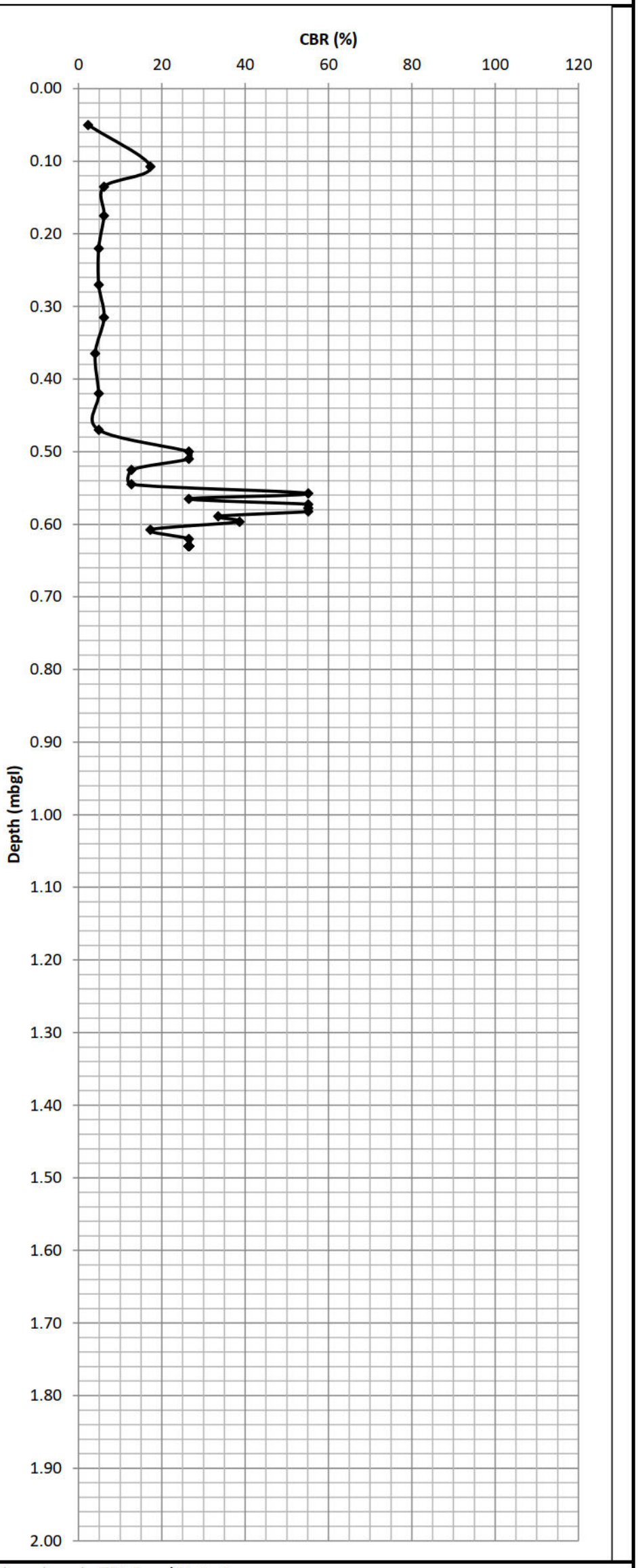
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS129
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		305	0.00	
1	1	405	0.10	2
1	2	420	0.12	17
1	3	460	0.16	6
1	4	500	0.20	6
1	5	550	0.25	5
1	6	600	0.30	5
1	7	640	0.34	6
1	8	700	0.40	4
1	9	750	0.45	5
1	10	800	0.50	5
1	11	810	0.51	26
1	12	820	0.52	26
1	13	840	0.54	13
1	14	860	0.56	13
1	15	865	0.56	55
1	16	875	0.57	26
1	17	880	0.58	55
1	18	885	0.58	55
1	19	890	0.59	55
1	20	898	0.59	34
1	21	905	0.60	39
1	22	920	0.62	17
1	23	930	0.63	26
1	24	940	0.64	26



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

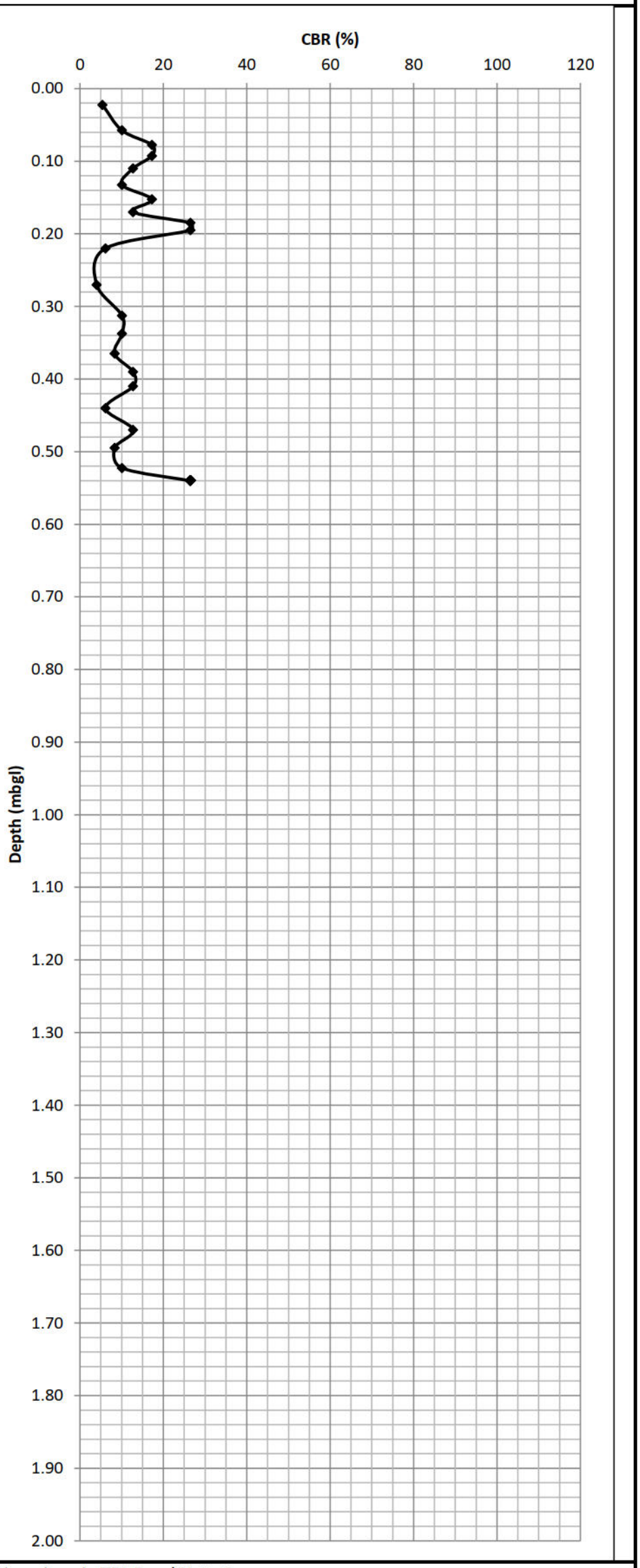
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS130
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		380	0.00	
1	1	425	0.05	5
1	2	450	0.07	10
1	3	465	0.09	17
1	4	480	0.10	17
1	5	500	0.12	13
1	6	525	0.15	10
1	7	540	0.16	17
1	8	560	0.18	13
1	9	570	0.19	26
1	10	580	0.20	26
1	11	620	0.24	6
1	12	680	0.30	4
1	13	705	0.33	10
1	14	730	0.35	10
1	15	760	0.38	8
1	16	780	0.40	13
1	17	800	0.42	13
1	18	840	0.46	6
1	19	860	0.48	13
1	20	890	0.51	8
1	21	915	0.54	10
1	22	925	0.55	26



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

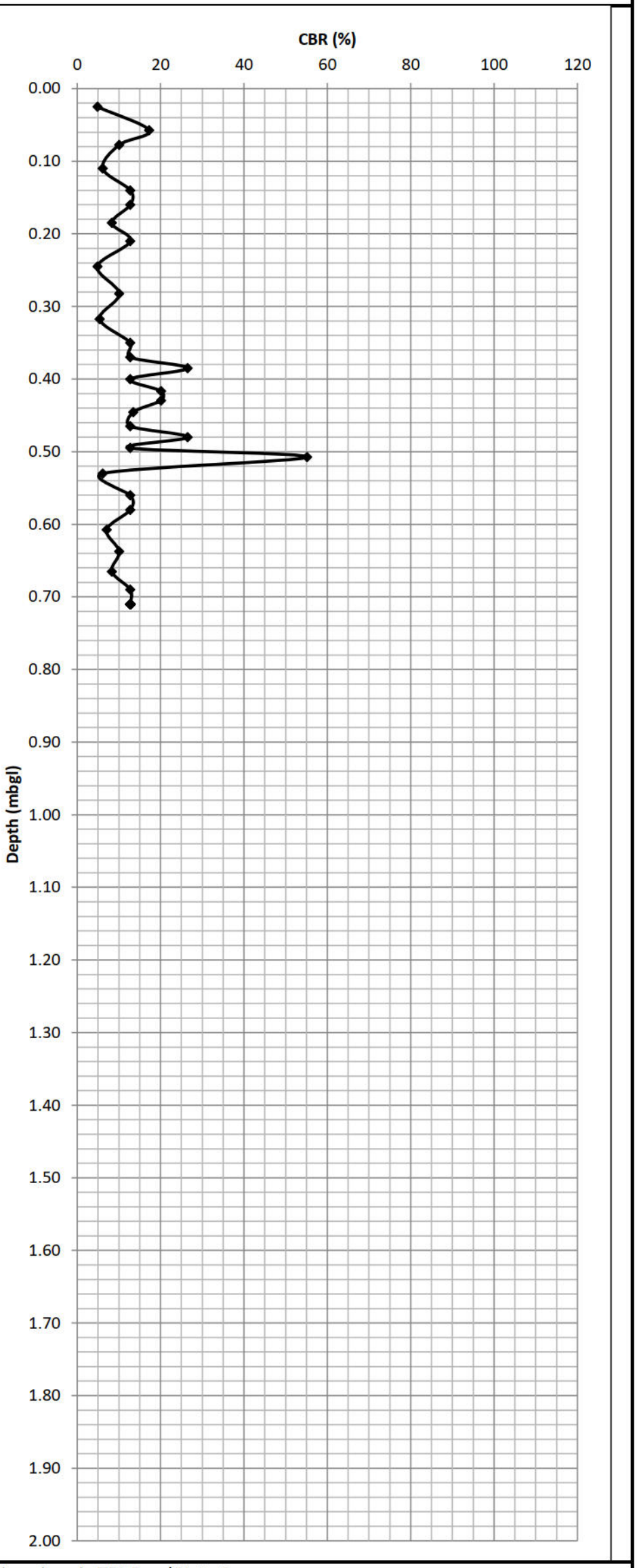
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS131
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		230	0.00	
1	1	280	0.05	5
1	2	295	0.07	17
1	3	320	0.09	10
1	4	360	0.13	6
1	5	380	0.15	13
1	6	400	0.17	13
1	7	430	0.20	8
1	8	450	0.22	13
1	9	500	0.27	5
1	10	525	0.30	10
1	11	570	0.34	5
1	12	590	0.36	13
1	13	610	0.38	13
1	14	620	0.39	26
1	15	640	0.41	13
1	16	653	0.42	20
1	17	666	0.44	20
1	18	685	0.46	13
1	19	705	0.48	13
1	20	715	0.49	26
1	21	735	0.51	13
1	22	740	0.51	55
1	23	780	0.55	6
1	24	800	0.57	13
1	25	820	0.59	13
1	26	855	0.63	7
1	27	880	0.65	10
1	28	910	0.68	8
1	29	930	0.70	13
1	30	950	0.72	13



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

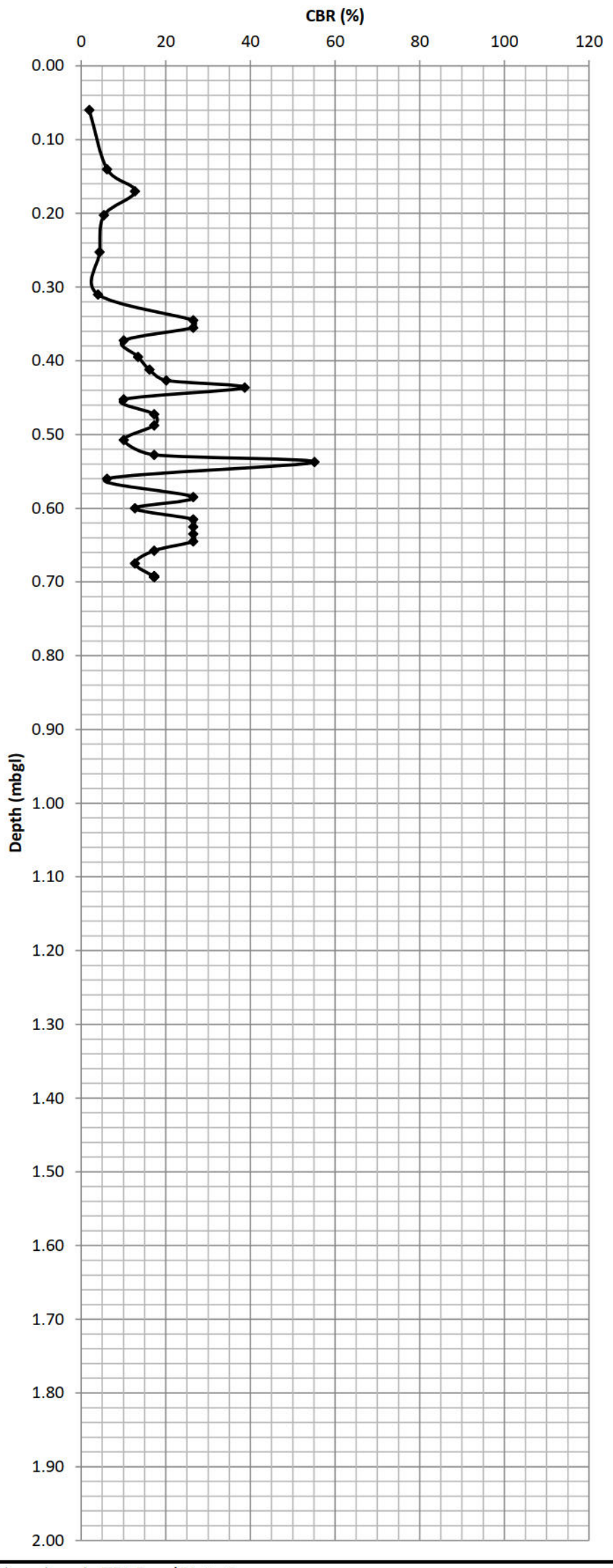
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS132
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		200	0.00	
1	1	320	0.12	2
1	2	360	0.16	6
1	3	380	0.18	13
1	4	425	0.23	5
1	5	480	0.28	4
1	6	540	0.34	4
1	7	550	0.35	26
1	8	560	0.36	26
1	9	585	0.39	10
1	10	604	0.40	13
1	11	620	0.42	16
1	12	633	0.43	20
1	13	640	0.44	39
1	14	665	0.47	10
1	15	680	0.48	17
1	16	695	0.50	17
1	17	720	0.52	10
1	18	735	0.54	17
1	19	740	0.54	55
1	20	780	0.58	6
1	21	790	0.59	26
1	22	810	0.61	13
1	23	820	0.62	26
1	24	830	0.63	26
1	25	840	0.64	26
1	26	850	0.65	26
1	27	865	0.67	17
1	28	885	0.69	13
1	29	900	0.70	17



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

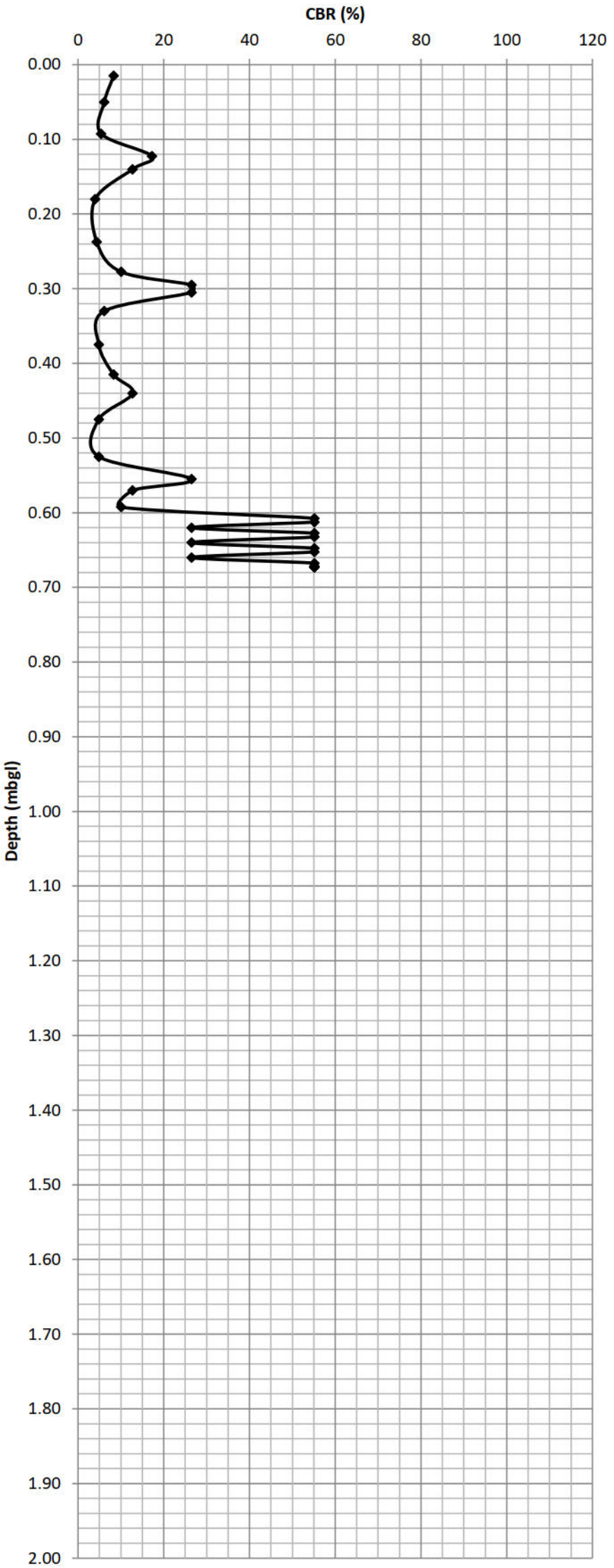
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS133
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	280	0.03	8
1	2	320	0.07	6
1	3	365	0.12	5
1	4	380	0.13	17
1	5	400	0.15	13
1	6	460	0.21	4
1	7	515	0.27	4
1	8	540	0.29	10
1	9	550	0.30	26
1	10	560	0.31	26
1	11	600	0.35	6
1	12	650	0.40	5
1	13	680	0.43	8
1	14	700	0.45	13
1	15	750	0.50	5
1	16	800	0.55	5
1	17	810	0.56	26
1	18	830	0.58	13
1	19	855	0.61	10
1	20	860	0.61	55
1	21	865	0.62	55
1	22	875	0.63	26
1	23	880	0.63	55
1	24	885	0.64	55
1	25	895	0.65	26
1	26	900	0.65	55
1	27	905	0.66	55
1	28	915	0.67	26
1	29	920	0.67	55
1	30	925	0.68	55



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

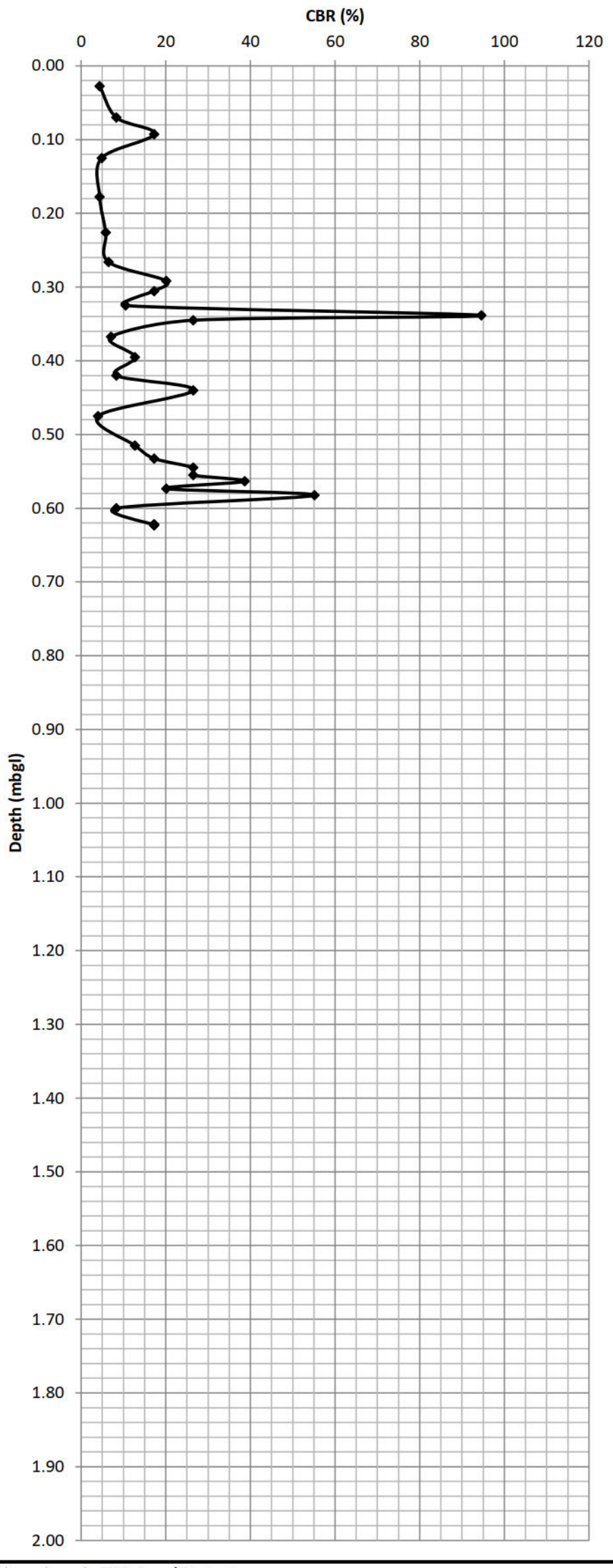
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS135
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		275	0.00	
1	1	330	0.06	4
1	2	360	0.09	8
1	3	375	0.10	17
1	4	425	0.15	5
1	5	480	0.21	4
1	6	522	0.25	6
1	7	560	0.29	6
1	8	573	0.30	20
1	9	588	0.31	17
1	10	612	0.34	10
1	11	615	0.34	95
1	12	625	0.35	26
1	13	660	0.39	7
1	14	680	0.41	13
1	15	710	0.44	8
1	16	720	0.45	26
1	17	780	0.51	4
1	18	800	0.53	13
1	19	815	0.54	17
1	20	825	0.55	26
1	21	835	0.56	26
1	22	842	0.57	39
1	23	855	0.58	20
1	24	860	0.59	55
1	25	890	0.62	8
1	26	905	0.63	17



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

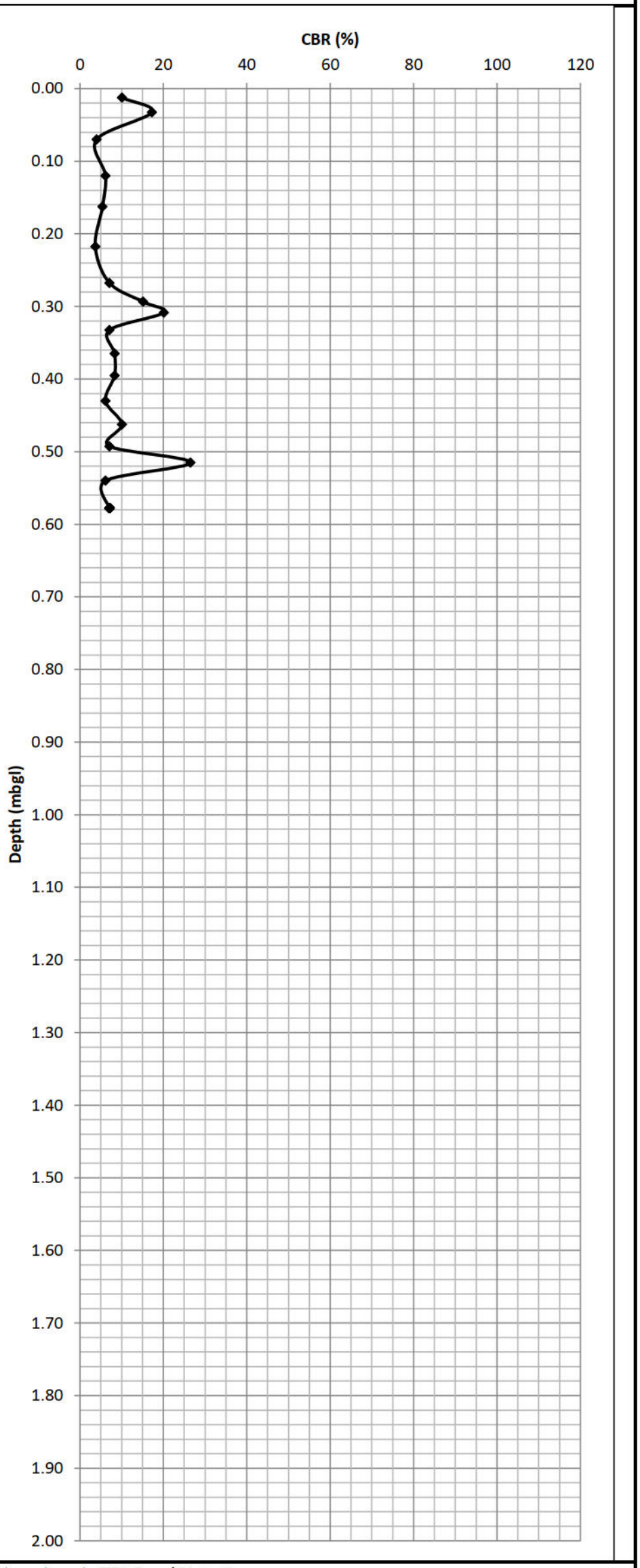
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS137
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		300	0.00	
1	1	325	0.03	10
1	2	340	0.04	17
1	3	400	0.10	4
1	4	440	0.14	6
1	5	485	0.19	5
1	6	550	0.25	4
1	7	585	0.29	7
1	8	602	0.30	15
1	9	615	0.32	20
1	10	650	0.35	7
1	11	680	0.38	8
1	12	710	0.41	8
1	13	750	0.45	6
1	14	775	0.48	10
1	15	810	0.51	7
1	16	820	0.52	26
1	17	860	0.56	6
1	18	895	0.60	7



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

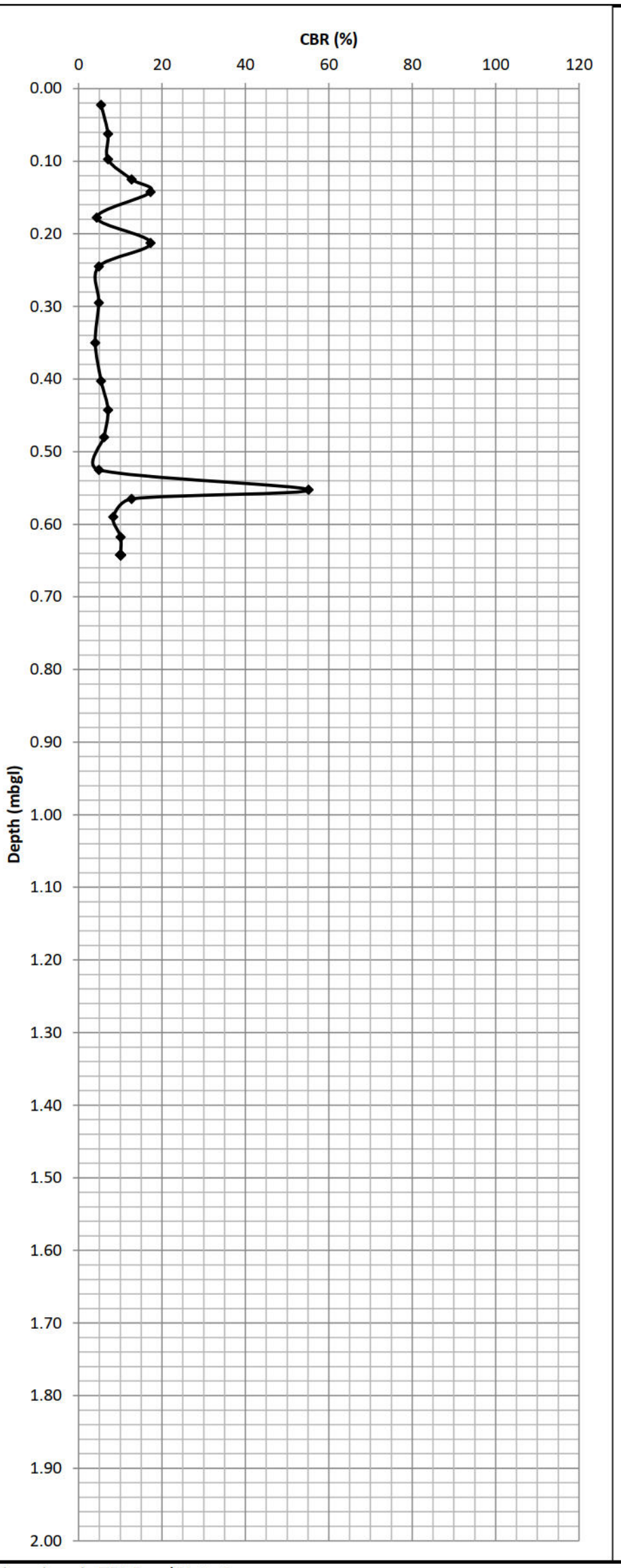
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS138
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		280	0.00	
1	1	325	0.05	5
1	2	360	0.08	7
1	3	395	0.12	7
1	4	415	0.14	13
1	5	430	0.15	17
1	6	485	0.21	4
1	7	500	0.22	17
1	8	550	0.27	5
1	9	600	0.32	5
1	10	660	0.38	4
1	11	705	0.43	5
1	12	740	0.46	7
1	13	780	0.50	6
1	14	830	0.55	5
1	15	835	0.56	55
1	16	855	0.58	13
1	17	885	0.61	8
1	18	910	0.63	10
1	19	935	0.66	10



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

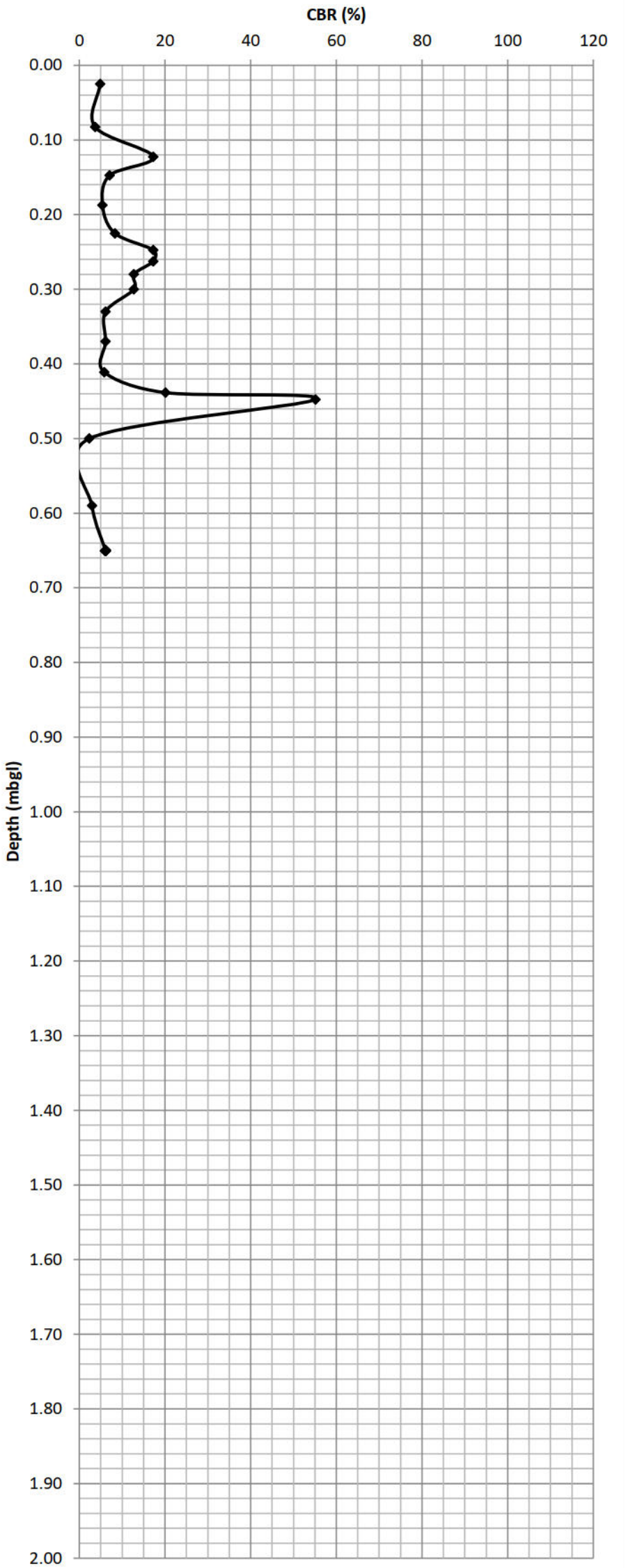
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS139
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	300	0.05	5
1	2	365	0.12	4
1	3	380	0.13	17
1	4	415	0.17	7
1	5	460	0.21	5
1	6	490	0.24	8
1	7	505	0.26	17
1	8	520	0.27	17
1	9	540	0.29	13
1	10	560	0.31	13
1	11	600	0.35	6
1	12	640	0.39	6
1	13	682	0.43	6
1	14	695	0.45	20
1	15	700	0.45	55
1	16	800	0.55	2
1	17	880	0.63	3
1	18	920	0.67	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

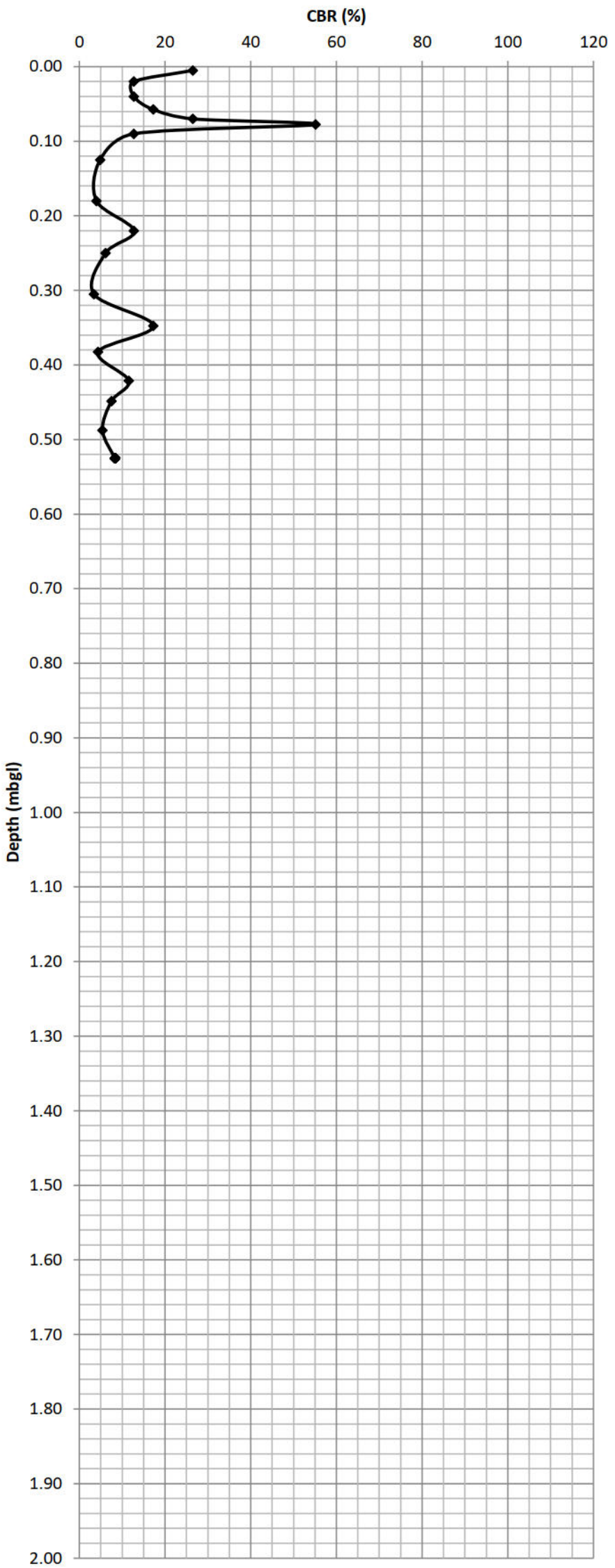
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS140
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		350	0.00	
1	1	360	0.01	26
1	2	380	0.03	13
1	3	400	0.05	13
1	4	415	0.07	17
1	5	425	0.08	26
1	6	430	0.08	55
1	7	450	0.10	13
1	8	500	0.15	5
1	9	560	0.21	4
1	10	580	0.23	13
1	11	620	0.27	6
1	12	690	0.34	3
1	13	705	0.36	17
1	14	760	0.41	4
1	15	782	0.43	12
1	16	815	0.47	7
1	17	860	0.51	5
1	18	890	0.54	8



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

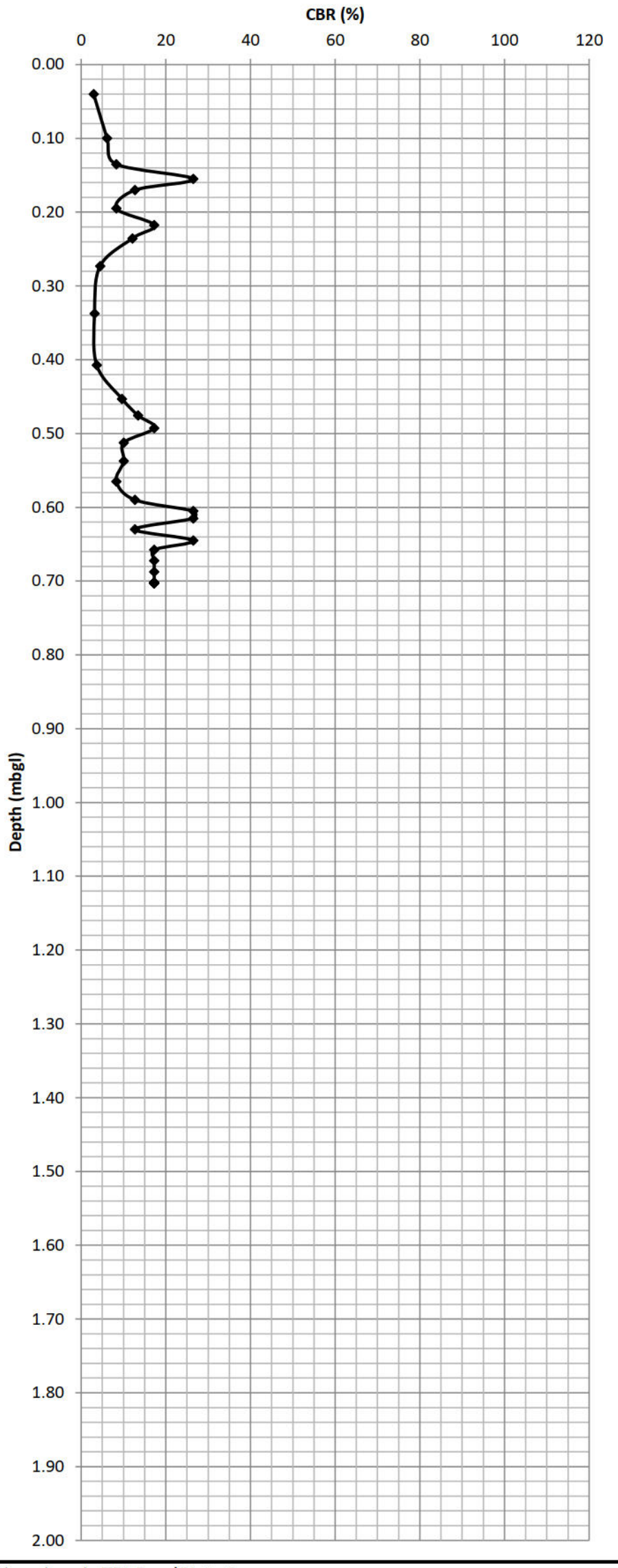
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS141
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		200	0.00	
1	1	280	0.08	3
1	2	320	0.12	6
1	3	350	0.15	8
1	4	360	0.16	26
1	5	380	0.18	13
1	6	410	0.21	8
1	7	425	0.23	17
1	8	446	0.25	12
1	9	500	0.30	4
1	10	575	0.38	3
1	11	640	0.44	4
1	12	666	0.47	10
1	13	685	0.49	13
1	14	700	0.50	17
1	15	725	0.53	10
1	16	750	0.55	10
1	17	780	0.58	8
1	18	800	0.60	13
1	19	810	0.61	26
1	20	820	0.62	26
1	21	840	0.64	13
1	22	850	0.65	26
1	23	865	0.67	17
1	24	880	0.68	17
1	25	895	0.70	17
1	26	910	0.71	17



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

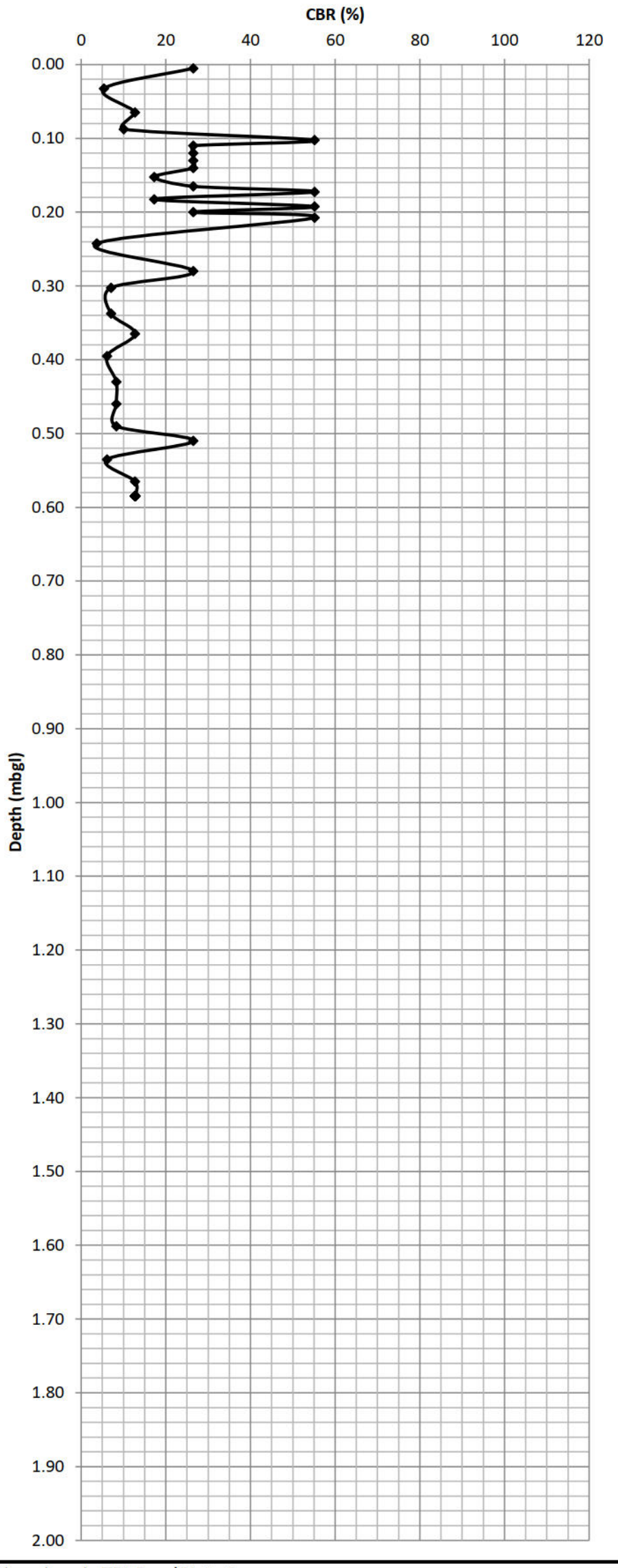
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS142
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		305	0.00	
1	1	315	0.01	26
1	2	360	0.06	5
1	3	380	0.08	13
1	4	405	0.10	10
1	5	410	0.11	55
1	6	420	0.12	26
1	7	430	0.13	26
1	8	440	0.14	26
1	9	450	0.15	26
1	10	465	0.16	17
1	11	475	0.17	26
1	12	480	0.18	55
1	13	495	0.19	17
1	14	500	0.20	55
1	15	510	0.21	26
1	16	515	0.21	55
1	17	580	0.28	4
1	18	590	0.29	26
1	19	625	0.32	7
1	20	660	0.36	7
1	21	680	0.38	13
1	22	720	0.42	6
1	23	750	0.45	8
1	24	780	0.48	8
1	25	810	0.51	8
1	26	820	0.52	26
1	27	860	0.56	6
1	28	880	0.58	13
1	29	900	0.60	13



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

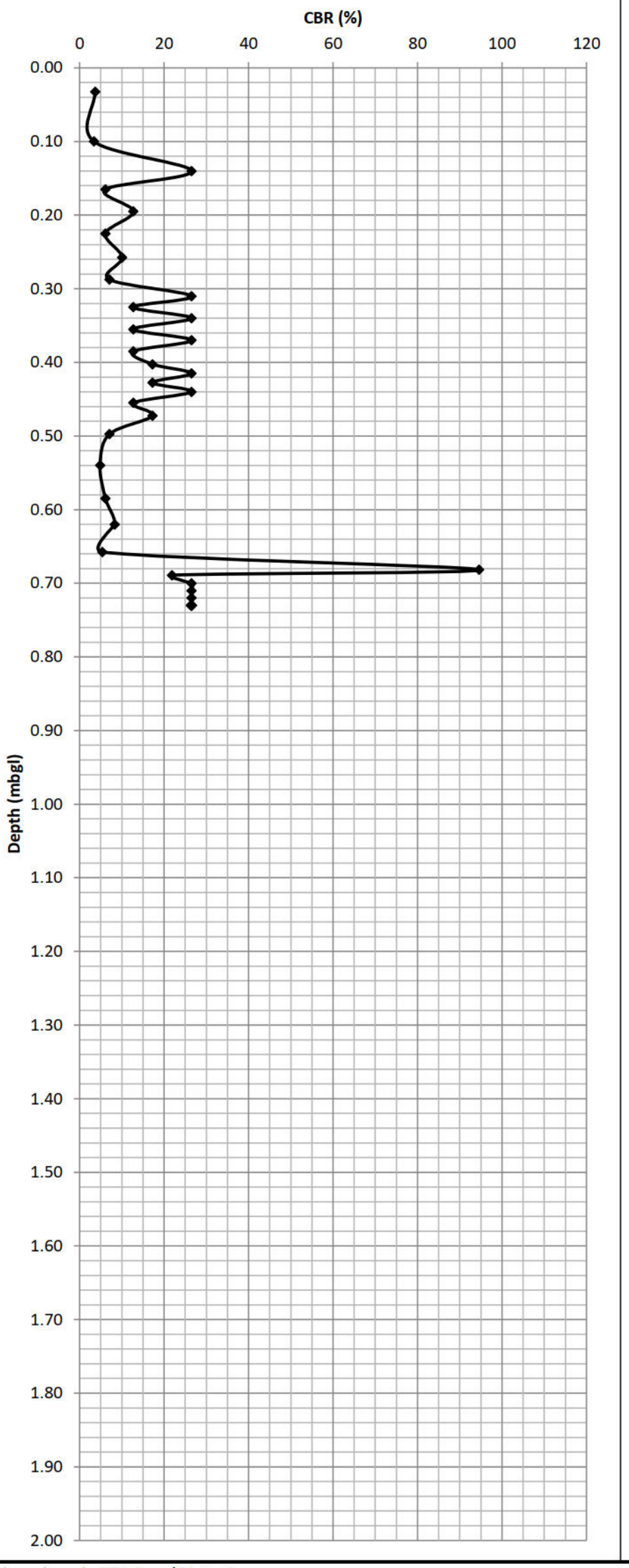
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS143
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		115	0.00	
1	1	180	0.07	4
1	2	250	0.14	3
1	3	260	0.15	26
1	4	300	0.19	6
1	5	320	0.21	13
1	6	360	0.25	6
1	7	385	0.27	10
1	8	420	0.31	7
1	9	430	0.32	26
1	10	450	0.34	13
1	11	460	0.35	26
1	12	480	0.37	13
1	13	490	0.38	26
1	14	510	0.40	13
1	15	525	0.41	17
1	16	535	0.42	26
1	17	550	0.44	17
1	18	560	0.45	26
1	19	580	0.47	13
1	20	595	0.48	17
1	21	630	0.52	7
1	22	680	0.57	5
1	23	720	0.61	6
1	24	750	0.64	8
1	25	795	0.68	5
1	26	798	0.68	95
1	27	810	0.70	22
1	28	820	0.71	26
1	29	830	0.72	26
1	30	840	0.73	26
1	31	850	0.74	26



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

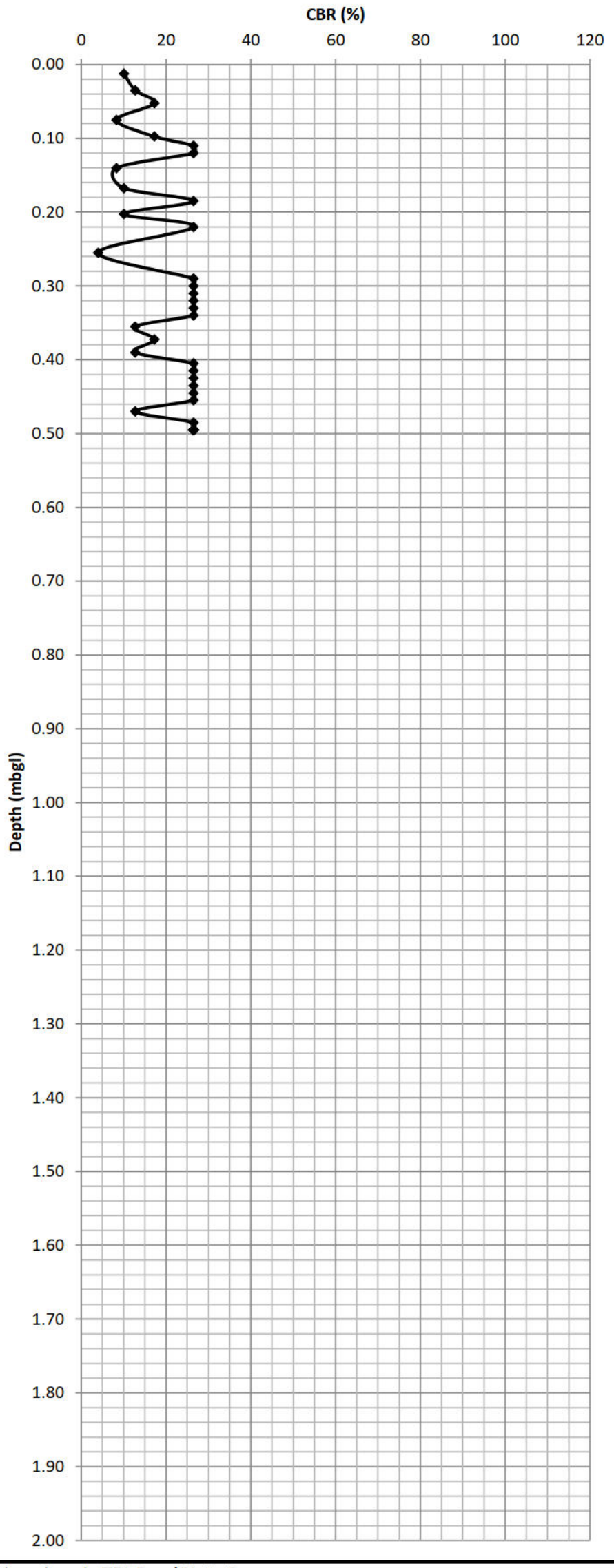
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS144
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		400	0.00	
1	1	425	0.03	10
1	2	445	0.05	13
1	3	460	0.06	17
1	4	490	0.09	8
1	5	505	0.11	17
1	6	515	0.12	26
1	7	525	0.13	26
1	8	555	0.16	8
1	9	580	0.18	10
1	10	590	0.19	26
1	11	615	0.22	10
1	12	625	0.23	26
1	13	685	0.29	4
1	14	695	0.30	26
1	15	705	0.31	26
1	16	715	0.32	26
1	17	725	0.33	26
1	18	735	0.34	26
1	19	745	0.35	26
1	20	765	0.37	13
1	21	780	0.38	17
1	22	800	0.40	13
1	23	810	0.41	26
1	24	820	0.42	26
1	25	830	0.43	26
1	26	840	0.44	26
1	27	850	0.45	26
1	28	860	0.46	26
1	29	880	0.48	13
1	30	890	0.49	26
1	31	900	0.50	26



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

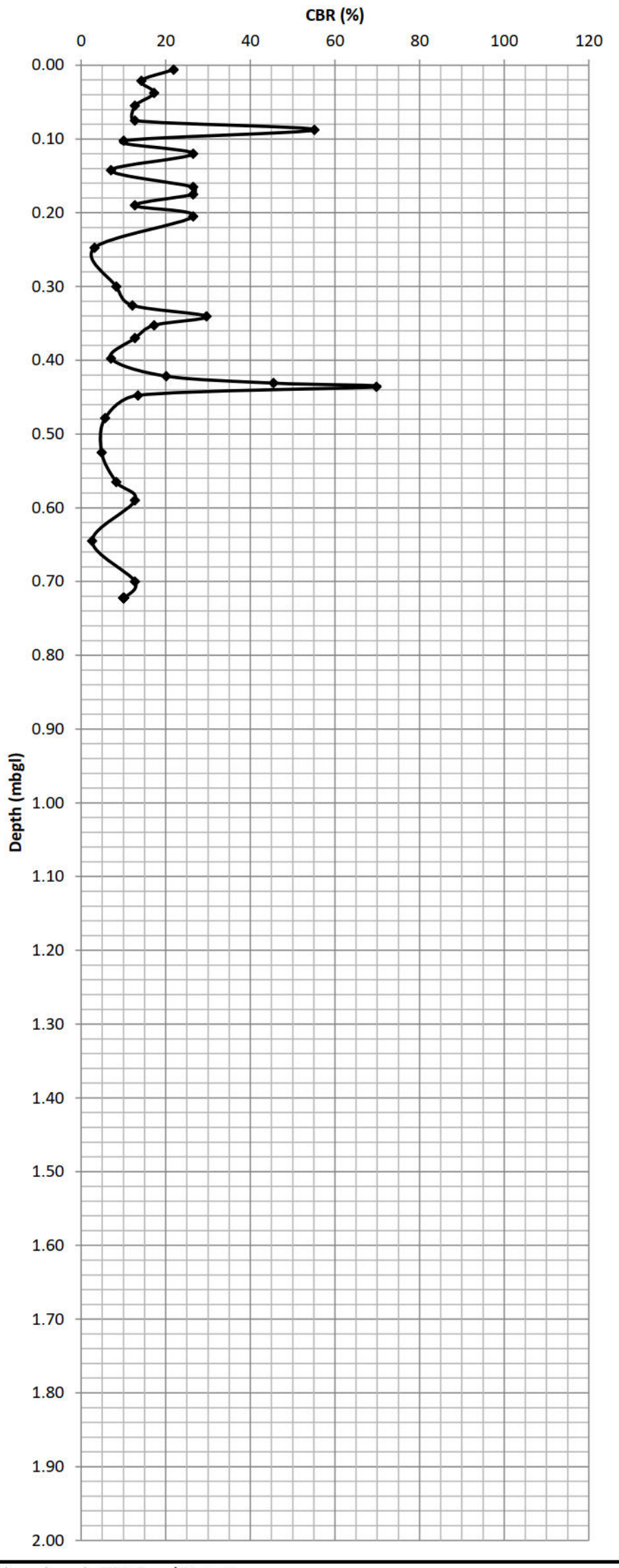
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS145
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		200	0.00	
1	1	212	0.01	22
1	2	230	0.03	14
1	3	245	0.05	17
1	4	265	0.07	13
1	5	285	0.09	13
1	6	290	0.09	55
1	7	315	0.12	10
1	8	325	0.13	26
1	9	360	0.16	7
1	10	370	0.17	26
1	11	380	0.18	26
1	12	400	0.20	13
1	13	410	0.21	26
1	14	485	0.29	3
1	15	515	0.32	8
1	16	536	0.34	12
1	17	545	0.35	30
1	18	560	0.36	17
1	19	580	0.38	13
1	20	615	0.42	7
1	21	628	0.43	20
1	22	634	0.43	45
1	23	638	0.44	70
1	24	657	0.46	13
1	25	700	0.50	6
1	26	750	0.55	5
1	27	780	0.58	8
1	28	800	0.60	13
1	29	890	0.69	3
1	30	910	0.71	13
1	31	935	0.74	10



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

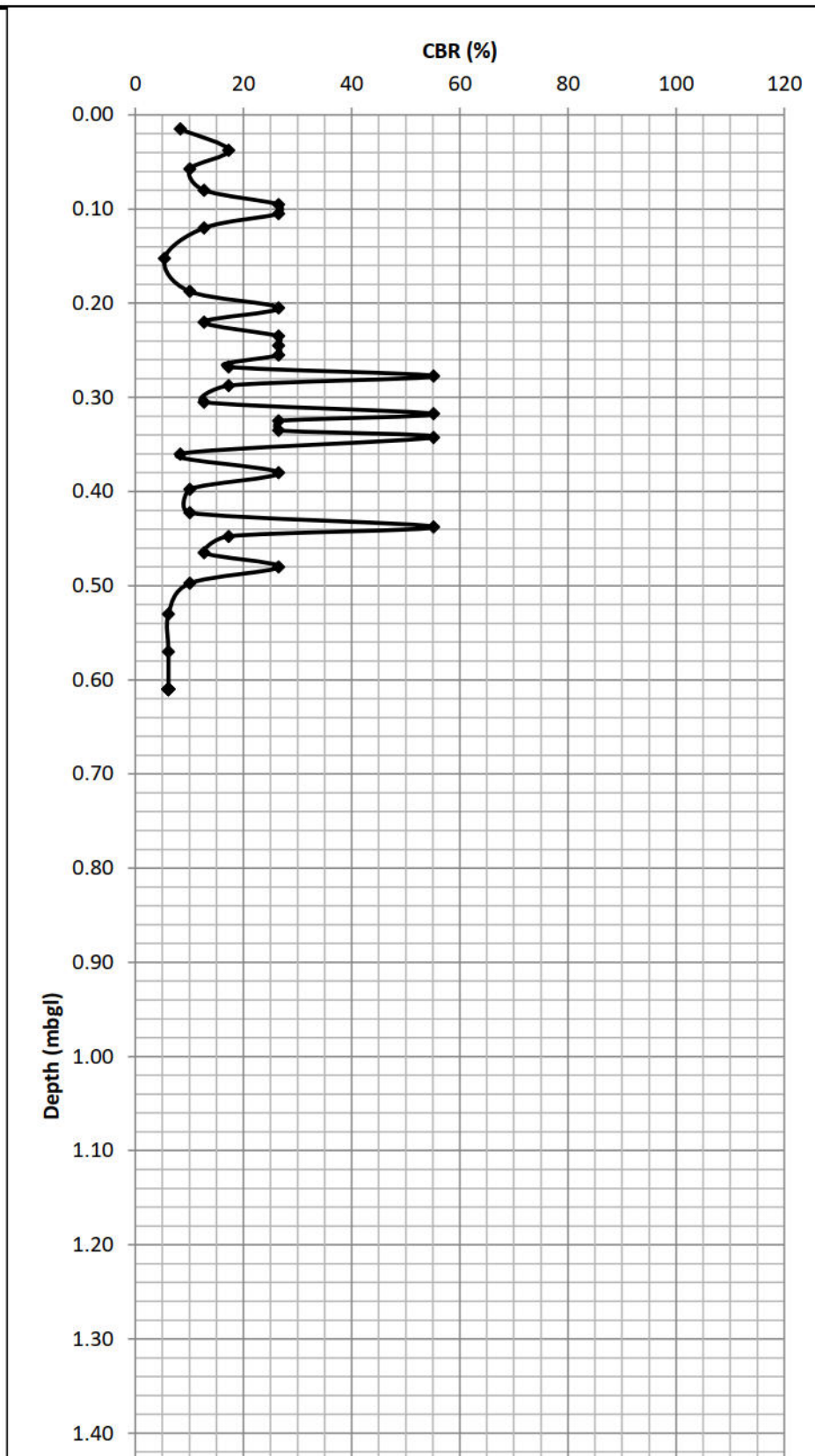
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS146
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	280	0.03	8
1	2	295	0.05	17
1	3	320	0.07	10
1	4	340	0.09	13
1	5	350	0.10	26
1	6	360	0.11	26
1	7	380	0.13	13
1	8	425	0.18	5
1	9	450	0.20	10
1	10	460	0.21	26
1	11	480	0.23	13
1	12	490	0.24	26
1	13	500	0.25	26
1	14	510	0.26	26
1	15	525	0.28	17
1	16	530	0.28	55
1	17	545	0.30	17
1	18	565	0.32	13
1	19	570	0.32	55
1	20	580	0.33	26
1	21	590	0.34	26
1	22	595	0.35	55
1	23	625	0.38	8
1	24	635	0.39	26
1	25	660	0.41	10
1	26	685	0.44	10
1	27	690	0.44	55
1	28	705	0.46	17
1	29	725	0.48	13
1	30	735	0.49	26
1	31	760	0.51	10
1	32	800	0.55	6
1	33	840	0.59	6
1	34	880	0.63	6



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

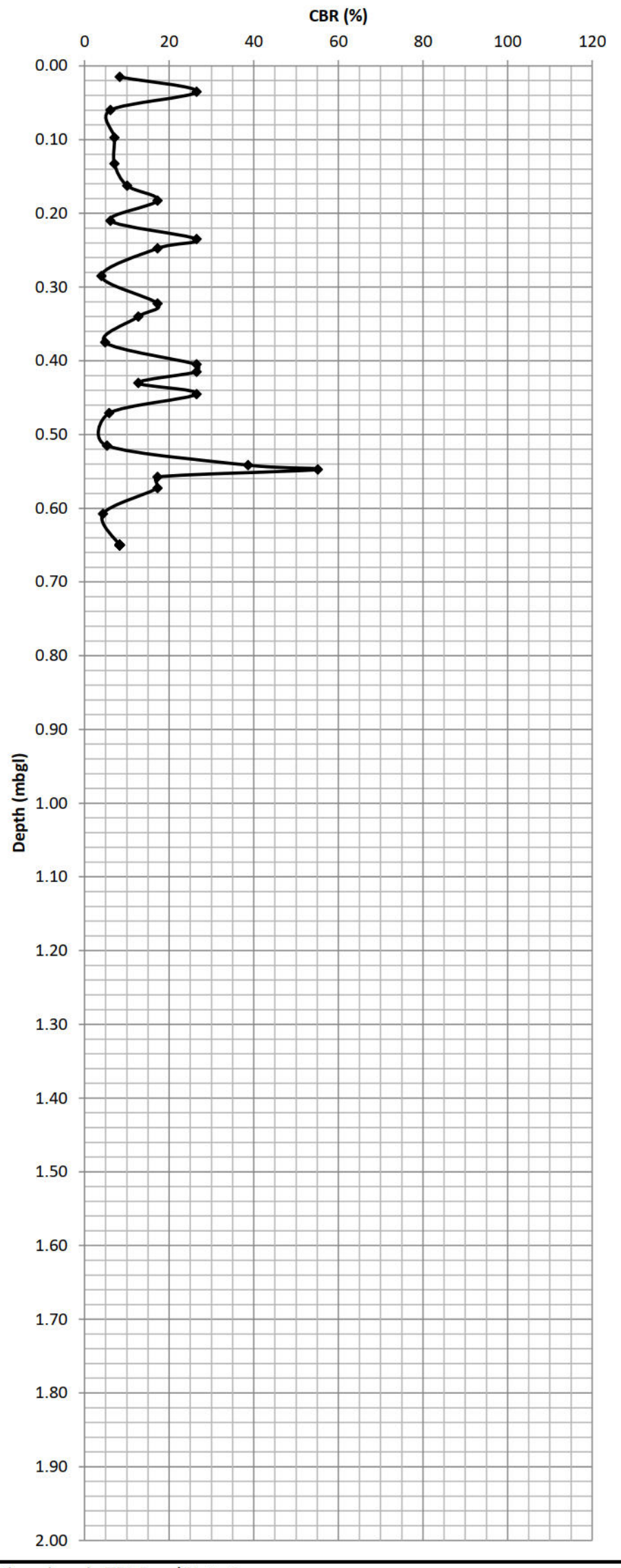
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS149
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		250	0.00	
1	1	280	0.03	8
1	2	290	0.04	26
1	3	330	0.08	6
1	4	365	0.12	7
1	5	400	0.15	7
1	6	425	0.18	10
1	7	440	0.19	17
1	8	480	0.23	6
1	9	490	0.24	26
1	10	505	0.26	17
1	11	565	0.32	4
1	12	580	0.33	17
1	13	600	0.35	13
1	14	650	0.40	5
1	15	660	0.41	26
1	16	670	0.42	26
1	17	690	0.44	13
1	18	700	0.45	26
1	19	742	0.49	6
1	20	788	0.54	5
1	21	795	0.55	39
1	22	800	0.55	55
1	23	815	0.57	17
1	24	830	0.58	17
1	25	885	0.64	4
1	26	915	0.67	8



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

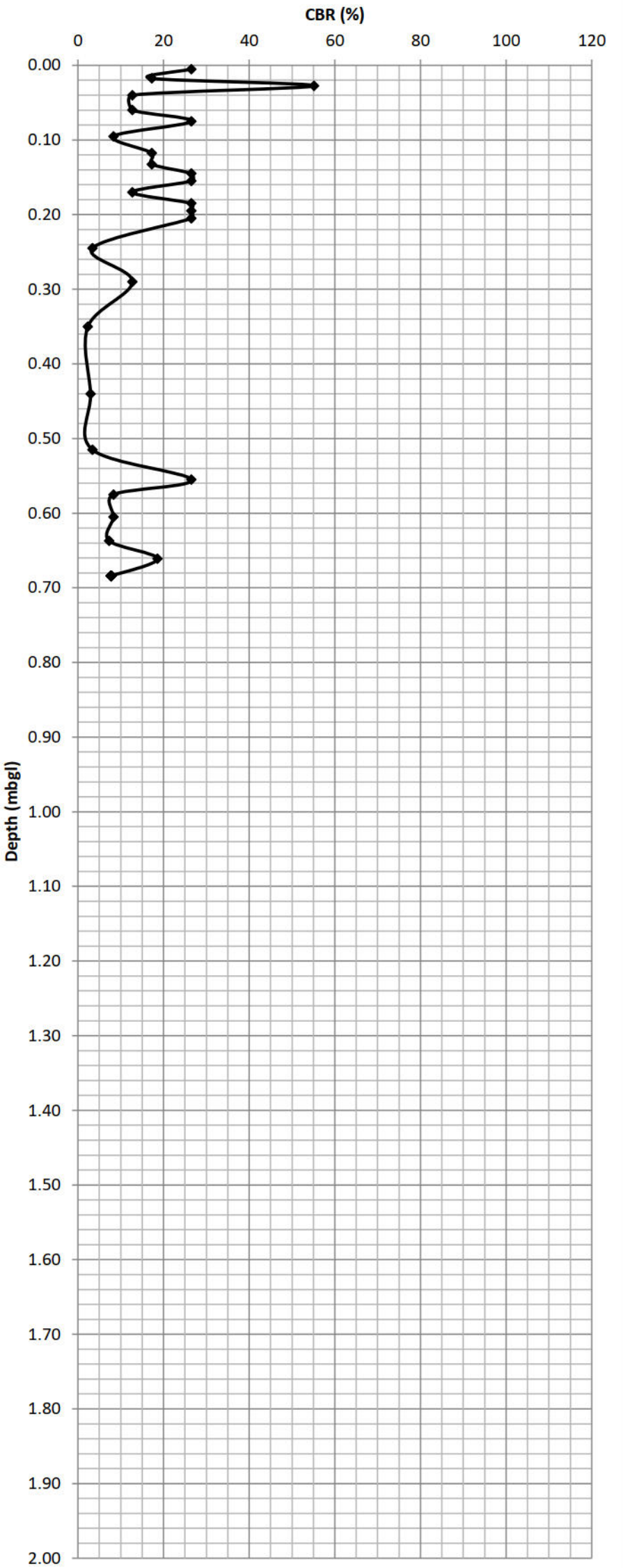
ASHDOWN SITE INVESTIGATION LTD

TRL Dynamic Cone Penetrometer Record

SITE Land South of Summer Lane, Pagham, West Sussex **Report Ref.** R18-13402

Test Location Reference	WS150
Depth of Start of Test (mbgl)	0.00

No. Blows	Total Blows	Reading (mm)	Depth (mbgl)	CBR%
DCP Zero Reading		200	0.00	
1	1	210	0.01	26
1	2	225	0.03	17
1	3	230	0.03	55
1	4	250	0.05	13
1	5	270	0.07	13
1	6	280	0.08	26
1	7	310	0.11	8
1	8	325	0.13	17
1	9	340	0.14	17
1	10	350	0.15	26
1	11	360	0.16	26
1	12	380	0.18	13
1	13	390	0.19	26
1	14	400	0.20	26
1	15	410	0.21	26
1	16	480	0.28	3
1	17	500	0.30	13
1	18	600	0.40	2
1	19	680	0.48	3
1	20	750	0.55	3
1	21	760	0.56	26
1	22	790	0.59	8
1	23	820	0.62	8
1	24	854	0.65	7
1	25	868	0.67	19
1	26	900	0.70	8



Notes: CBR Value calculated in accordance with the TRRL equation given in TRL Road Note 8.

ASHDOWN SITE INVESTIGATION LIMITED

Site: Land South of Summer Lane, Pagham, West Sussex	Report No.: R18-13402 Sheet No.: 1 of 5

SUMMARY OF BOREHOLE FALLING HEAD SOAKAGE TEST RESULTS

WS103	
Time (mins)	Depth to water (m bgl)
0	0.00
0.16	0.08
1	0.15
3	0.28
5	0.44
8	0.60
10	0.67
12	0.88
15	0.95
20	1.20
25	1.35
30	1.45
45	1.50
60	1.55
80	1.56
120	1.56
160	1.57
200	1.57
240	1.59
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	2.60

WS105 (Test 1)	
Time (mins)	Depth to water (m bgl)
0	0.00
0.16	0.05
0.5	0.10
1	0.35
2	0.45
3	0.68
5	0.90
10	1.15
15	1.60
20	1.95
25	2.15
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	2.00

WS105 (Test 2)	
Time (mins)	Depth to water (m bgl)
0	0.11
0.08	0.20
0.50	0.30
1	0.48
2	0.60
4	0.80
5	0.95
10	1.12
14	1.25
20	1.66
25	1.88
30	2.22
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	2.00

Notes: bgl – below ground level.

ASHDOWN SITE INVESTIGATION LIMITED

Site: Land South of Summer Lane, Pagham, West Sussex	Report No.: R18-13402 Sheet No.: 2 of 5

SUMMARY OF BOREHOLE FALLING HEAD SOAKAGE TEST RESULTS

WS112	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.02
2	0.03
4	0.05
8	0.09
10	0.11
12	0.11
15	0.12
20	0.12
25	0.12
30	0.13
45	0.13
60	0.13
80	0.13
120	0.13
140	0.13
180	0.13
220	0.14
240	0.14
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	2.00

WS118	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.03
2	0.04
4	0.04
6	0.05
8	0.05
10	0.50
12	0.06
4	0.06
15	0.06
20	0.07
30	0.07
45	0.07
60	0.08
80	0.08
120	0.08
140	0.09
180	0.10
200	0.11
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	1.30

Notes: bgl – below ground level.

ASHDOWN SITE INVESTIGATION LIMITED

Site: Land South of Summer Lane, Pagham, West Sussex	Report No.: R18-13402 Sheet No.: 3 of 5

SUMMARY OF BOREHOLE FALLING HEAD SOAKAGE TEST RESULTS

WS120 (Test 1)	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.70
2	1.20
3	1.39
4	1.56
5	1.60
15	1.70
20	1.70
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	1.70

WS120 (Test 2)	
Time (mins)	Depth to water (m bgl)
0	0.00
0.5	0.60
1	0.85
2	1.40
3	1.61
4	1.67
5	1.70
6	1.70
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	1.70

WS128	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.04
2	0.08
3	0.12
4	0.14
8	0.18
10	0.22
12	0.25
13	0.26
20	0.29
30	0.34
45	0.41
60	0.55
80	0.60
125	0.68
145	0.73
160	0.80
174	0.82
195	0.83
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	1.45

Notes: bgl – below ground level.

ASHDOWN SITE INVESTIGATION LIMITED

Site: Land South of Summer Lane, Pagham, West Sussex	Report No.: R18-13402 Sheet No.: 4 of 5

SUMMARY OF BOREHOLE FALLING HEAD SOAKAGE TEST RESULTS

WS130	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.25
2	0.27
5	0.31
6	0.33
8	0.35
9	0.36
10	0.38
12	0.40
15	0.41
18	0.41
20	0.42
40	0.44
60	0.45
80	0.46
95	0.46
115	0.47
130	0.48
150	0.48
185	0.48
200	0.49
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	1.40

WS137	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.04
2	0.04
4	0.05
5	0.05
8	0.05
10	0.06
15	0.06
22	0.07
25	0.07
32	0.07
40	0.07
60	0.07
80	0.07
92	0.07
115	0.08
125	0.08
164	0.08
180	0.08
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	1.50

WS144	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.10
2	0.12
4	0.12
6	0.12
8	0.12
13	0.12
18	0.13
21	0.13
28	0.13
32	0.13
40	0.13
60	0.13
75	0.13
84	0.13
95	0.13
105	0.14
115	0.14
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	0.70

Notes: bgl – below ground level.

ASHDOWN SITE INVESTIGATION LIMITED

Site: Land South of Summer Lane, Pagham, West Sussex	Report No.: R18-13402 Sheet No.: 5 of 5

SUMMARY OF BOREHOLE FALLING HEAD SOAKAGE TEST RESULTS

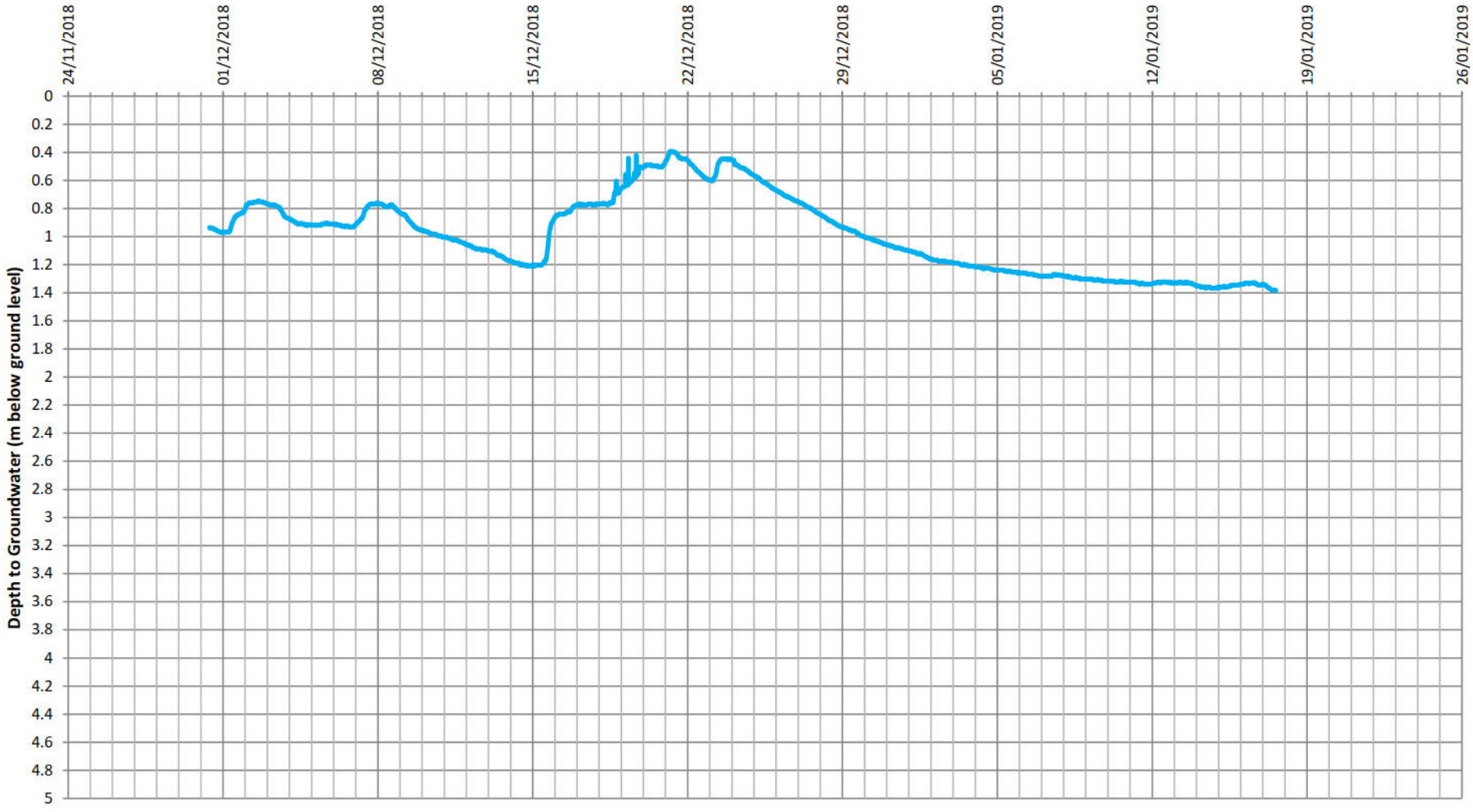
WS149	
Time (mins)	Depth to water (m bgl)
0	0.00
1	0.25
2	0.35
4	0.37
5	0.38
6	0.40
8	0.42
10	0.42
15	0.43
18	0.48
24	0.54
31	0.61
45	0.64
60	0.84
70	0.99
80	1.10
120	1.15
140	1.18
165	1.22
184	1.28
205	1.33
Borehole Depth (m bgl)	3.00
Casing Depth (m bgl)	2.00
Borehole Diameter (mm)	92.00
Casing Diameter (mm)	105.00
Ground water (m bgl)	2.20

Notes: bgl – below ground level.

Ashdown Site Investigation Limted

Site: Land South of Summer Lane, Pagham, West Sussex	Report No. R18-13402

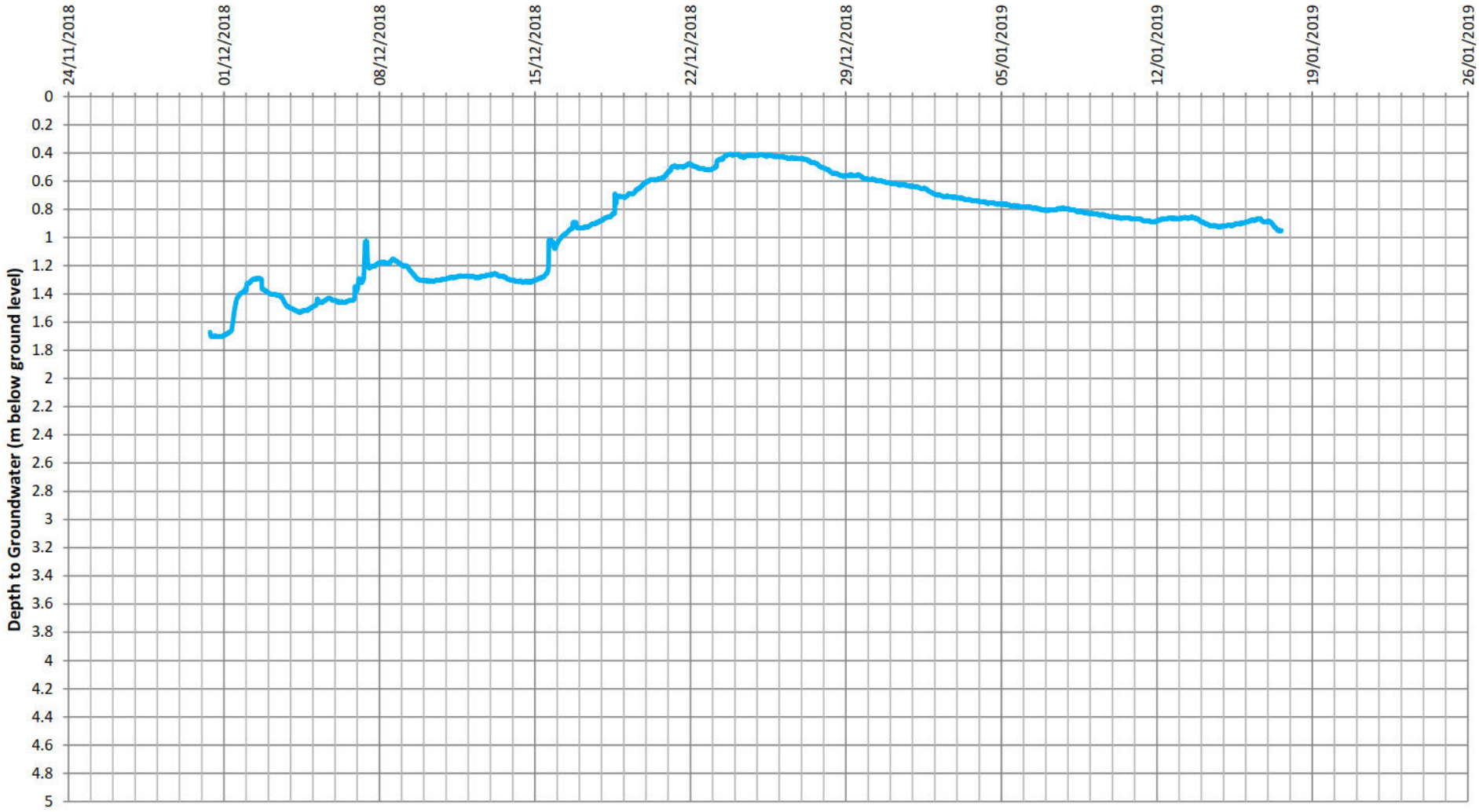
Groundwater Monitoring Results - WS101



Ashdown Site Investigation Limted

Site: Land South of Summer Lane, Pagham, West Sussex	Report No. R18-13402

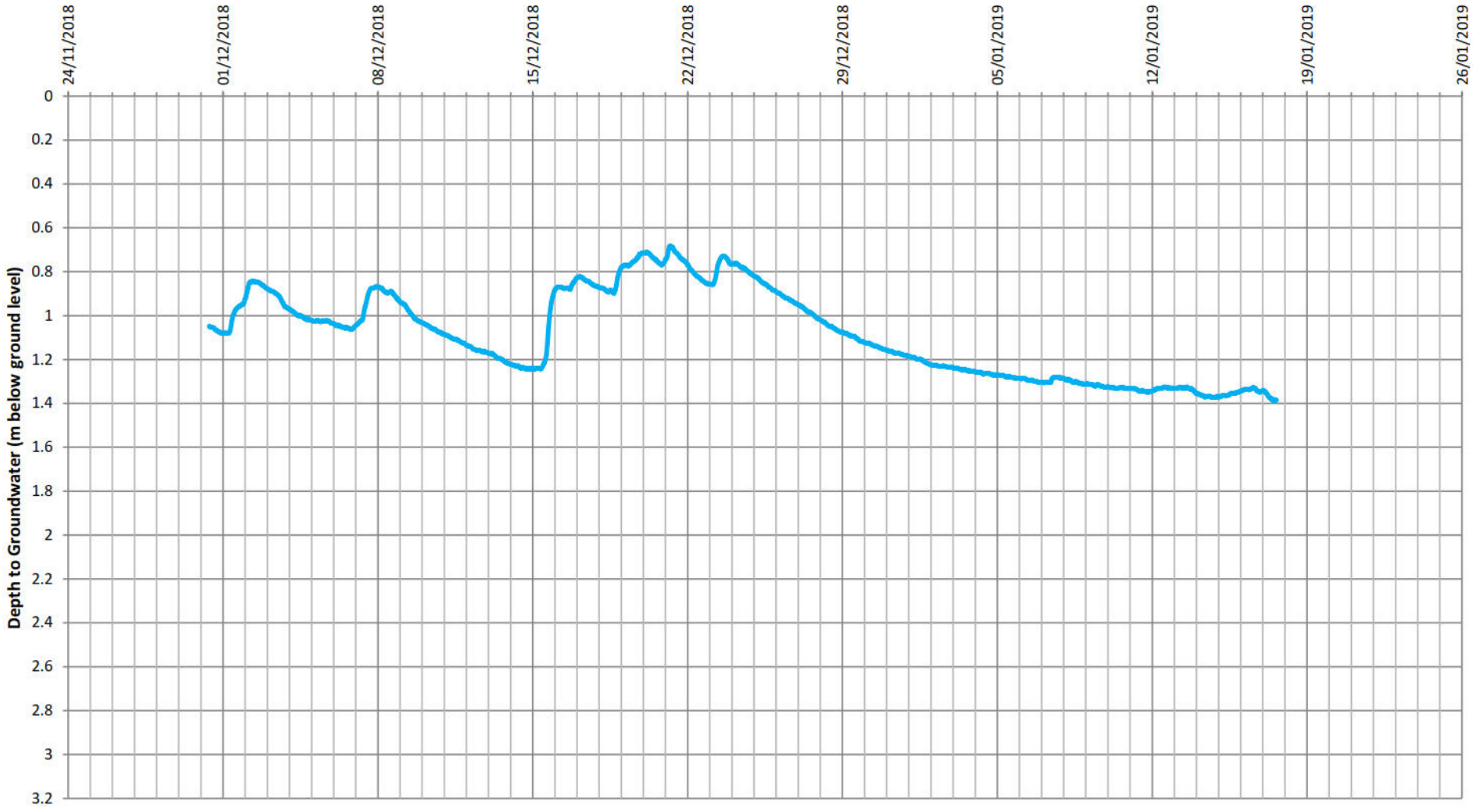
Groundwater Monitoring Results - WS114



Ashdown Site Investigation Limted

Site: Land South of Summer Lane, Pagham, West Sussex	Report No. R18-13402

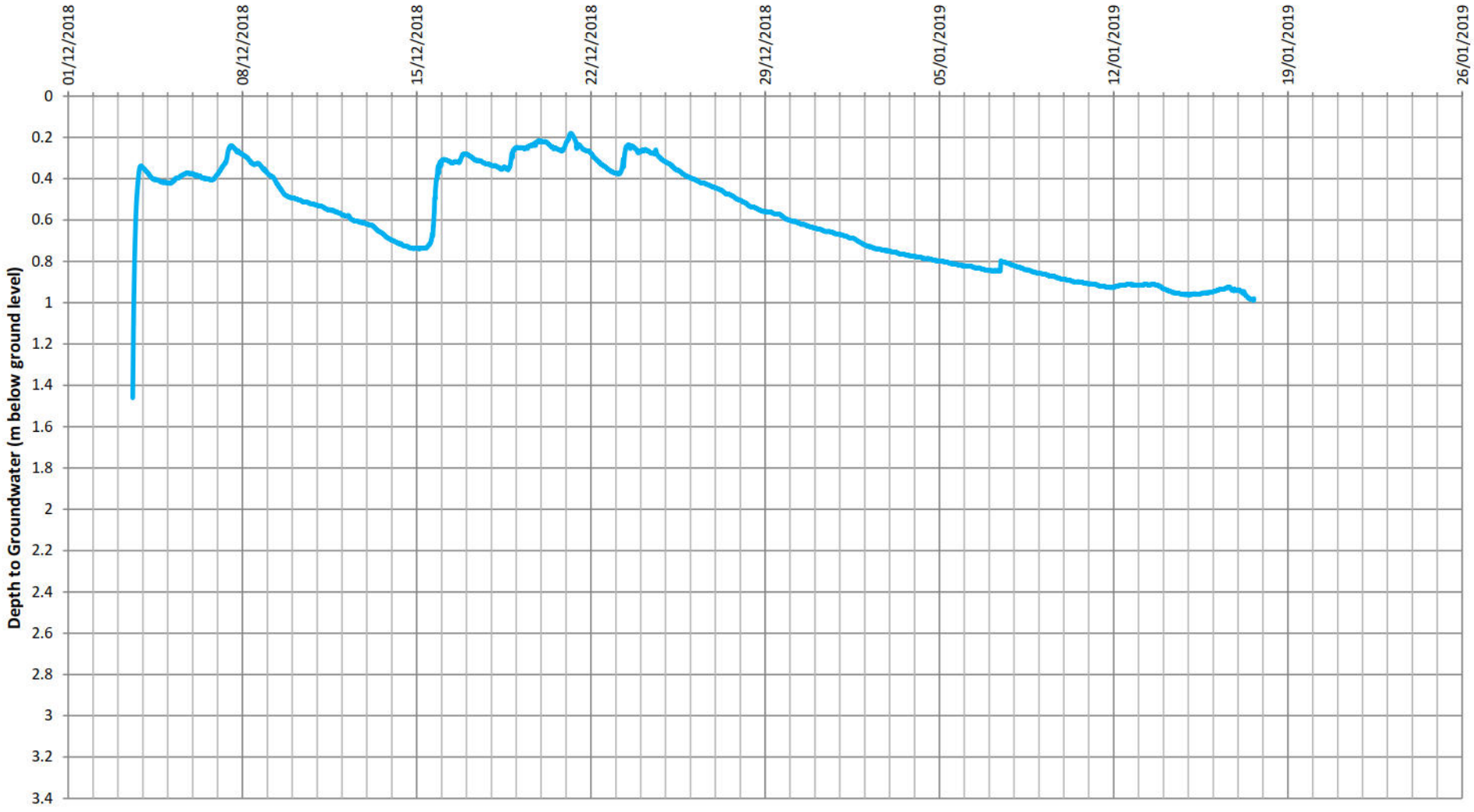
Groundwater Monitoring Results - WS123



Ashdown Site Investigation Limted

Site: Land South of Summer Lane, Pagham, West Sussex	Report No. R18-13402

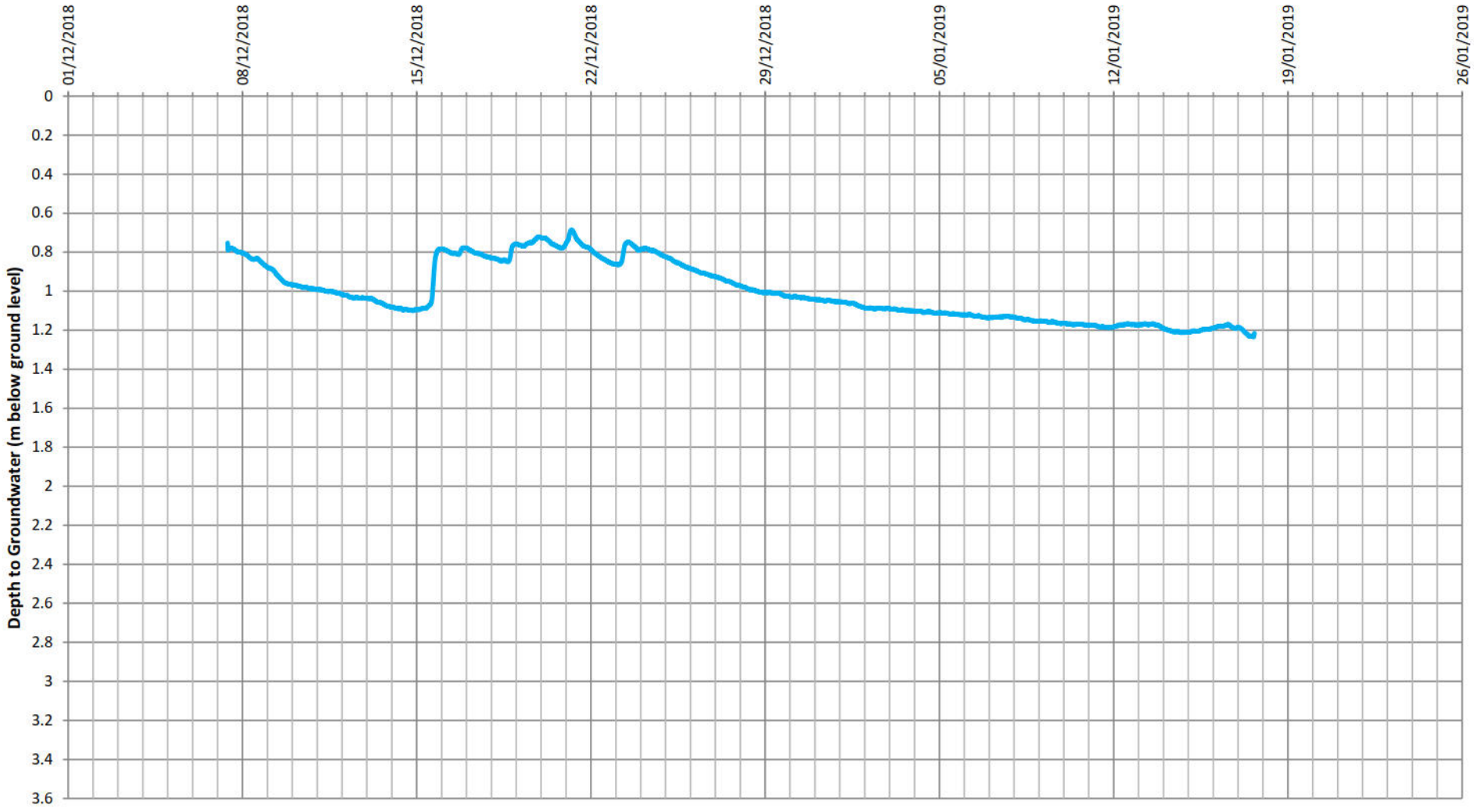
Groundwater Monitoring Results - WS134



Ashdown Site Investigation Limted

Site: Land South of Summer Lane, Pagham, West Sussex	Report No. R18-13402

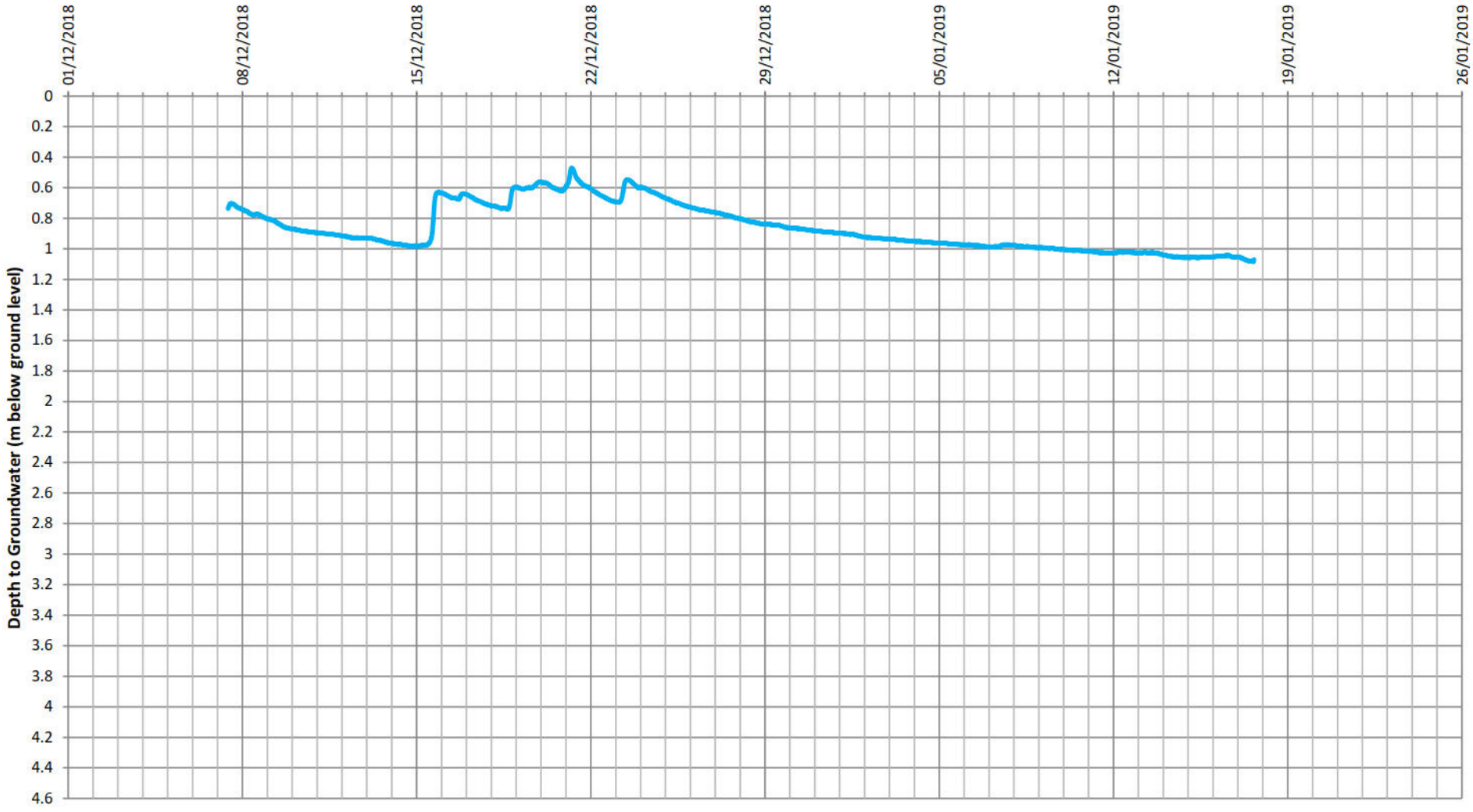
Groundwater Monitoring Results - WS135



Ashdown Site Investigation Limted

Site: Land South of Summer Lane, Pagham, West Sussex	Report No. R18-13402

Groundwater Monitoring Results - WS150



APPENDIX D

Geotechnical Test Results
Contamination Test Results

ASHDOWN SITE INVESTIGATION LIMITED

Soil Classification Summary

Site Name:	Land south of Summer Lane, Pagham, West Sussex	Job No:	R18-13402

BH/TP No.	Depth (m)	Nat. Moist. Cont. (w %)	Equiv. Moist. Cont. (wa %)	Atterberg Limits			Class'n	Cons. Index (Ic)	% passing 425 µm sieve	Visual Description of Sample
				Wl %	Wp %	Ip %				
WS101	1.20	19		43	19	24	CI	1.00*	59	Very stiff brown slightly sandy gravelly CLAY. Gravel is fine to coarse flint.
WS102	2.50	28		52	24	28	CH	0.86*	96	Stiff brown slightly gravelly CLAY. Gravel is fine to medium flint and siltstone.
WS103	2.90	30		58	23	35	CH	0.80*	100	Stiff brown slightly sandy CLAY.
WS104	1.80	27		38	19	19	CI	0.58*	98	Firm orange mottled grey slightly gravelly sandy CLAY. Gravel is fine flint.
WS105	0.50	23		46	22	24	CI	0.96*	100	Stiff brown silty CLAY.
WS106	2.80	34		56	24	32	CH	0.69*	85	Firm brown slightly gravelly CLAY. Gravel is medium to coarse flint.
WS107	1.20	19		36	21	15	CI	1.13*	98	Very stiff brown slightly gravelly silty CLAY. Gravel is medium flint.
WS108	0.50	26		52	21	31	CH	0.84*	98	Stiff brown slightly gravelly slightly sandy CLAY. Gravel is fine iron-stained sandstone.
WS109	1.20	20		34	18	16	CL	0.88*	100	Stiff brown silty CLAY.
WS110	2.80	27		46	19	27	CI	0.70*	95	Firm brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium weakly cemented sandstone.

Test Method: Classification Tests BS1377: Part 2: 1990: Method 4.4, 5.3 and 5.4

* Consistency index based on natural moisture content and not the equivalent moisture content.

ASHDOWN SITE INVESTIGATION LIMITED

Soil Classification Summary

Site Name:	Land south of Summer Lane, Pagham, West Sussex	Job No:	R18-13402

BH/TP No.	Depth (m)	Nat. Moist. Cont. (w %)	Equiv. Moist. Cont. (wa %)	Atterberg Limits			Class'n	Cons. Index (Ic)	% passing 425 µm sieve	Visual Description of Sample
				Wl %	Wp %	Ip %				
WS111	1.80	16		27	15	12	CL	0.92*	100	Stiff orange sandy CLAY.
WS112	1.20	16		23	14	9	CL	0.78*	100	Stiff orange brown mottled grey sandy CLAY.
WS113	0.50	24		49	20	29	CI	0.86*	97	Stiff brown slightly gravelly CLAY. Gravel is fine to medium iron-stained sandstone.
WS114	1.30	15		27	15	12	CL	1.00*	90	Very stiff orange brown mottled grey slightly gravelly CLAY. Gravel is fine to medium flint.
WS115	2.70	25		36	19	17	CI	0.65*	100	Firm grey mottled brown CLAY.
WS116	1.50	16		31	17	14	CL	1.07*	99	Very stiff orange and grey mottled slightly gravelly silty CLAY. Gravel is fine flint.
WS117	0.60	24		51	22	29	CH	0.93*	100	Stiff orange brown silty CLAY.
WS118	1.20	16		24	15	9	CL	0.89*	100	Stiff orange brown mottled grey sandy CLAY.
WS119	2.50	24		37	19	18	CI	0.72*	100	Firm brown silty CLAY.
WS120	1.30	18		32	18	14	CL	1.00*	100	Very stiff brown silty CLAY.

Test Method: Classification Tests BS1377: Part 2: 1990: Method 4.4, 5.3 and 5.4

Sheet No. 2

* Consistency index based on natural moisture content and not the equivalent moisture content.

ASHDOWN SITE INVESTIGATION LIMITED

Soil Classification Summary

Site Name:	Land south of Summer Lane, Pagham, West Sussex	Job No:	R18-13402

BH/TP No.	Depth (m)	Nat. Moist. Cont. (w %)	Equiv. Moist. Cont. (wa %)	Atterberg Limits			Class'n	Cons. Index (Ic)	% passing 425 µm sieve	Visual Description of Sample
				Wl %	Wp %	Ip %				
WS121	2.20	28		50	21	29	CI/CH	0.76*	100	Stiff brown mottled grey silty CLAY.
WS122	1.20	21		41	20	21	CI	0.95*	95	Stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine flint.
WS123	1.20	17		33	15	18	CL	0.89*	95	Stiff grey mottled orange brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium flint.
WS124	2.80	26		50	19	31	CI/CH	0.77*	100	Stiff brown slightly sandy CLAY.
WS125	0.60	22		50	22	28	CI/CH	1.00*	98	Very stiff brown mottled black slightly gravelly silty CLAY. Gravel is fine flint.
WS126	1.20	23		35	19	16	CL/CI	0.75*	95	Stiff brown slightly gravelly CLAY. Gravel is fine to medium flint.
WS127	1.50	26		39	20	19	CI	0.68*	99	Firm orange brown slightly gravelly silty CLAY. Gravel is fine to medium siltstone.
WS128	2.80	22		41	20	21	CI	0.90*	100	Stiff orange brown sandy CLAY.
WS129	1.80	14		33	14	19	CL	1.00*	53	Very stiff orange brown gravelly silty CLAY. Gravel is fine to coarse flint.
WS130	1.20	24		48	22	26	CI	0.92*	100	Stiff orange brown silty CLAY.

Test Method: Classification Tests BS1377: Part 2: 1990: Method 4.4, 5.3 and 5.4

Sheet No. 3

* Consistency index based on natural moisture content and not the equivalent moisture content.

ASHDOWN SITE INVESTIGATION LIMITED

Soil Classification Summary

Site Name:	Land south of Summer Lane, Pagham, West Sussex	Job No:	R18-13402

BH/TP No.	Depth (m)	Nat. Moist. Cont. (w %)	Equiv. Moist. Cont. (wa %)	Atterberg Limits			Class'n	Cons. Index (Ic)	% passing 425 µm sieve	Visual Description of Sample
				Wl %	Wp %	Ip %				
WS131	2.80	26		46	21	25	CI	0.80*	99	Stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine siltstone.
WS132	0.60	26		52	23	29	CH	0.90*	100	Stiff brown silty CLAY.
WS133	2.30	25		39	18	21	CI	0.67*	95	Firm brown slightly gravelly sandy CLAY. Gravel is fine to medium flint.
WS134	1.10	22		35	20	15	CL/CI	0.87*	95	Stiff light brown slightly gravelly silty CLAY. Gravel is fine to medium flint.
WS135	1.50	19		32	17	15	CL	0.87*	88	Stiff brown slightly gravelly silty CLAY. Gravel is fine to medium flint.
WS136	0.70	25		36	21	15	CI	0.73*	99	Firm brown mottled orange slightly gravelly silty CLAY. Gravel is fine to medium flint.
WS137	1.20	17		30	17	13	CL	1.00*	85	Very stiff orange slightly gravelly CLAY. Gravel is fine to coarse flint.
WS138	1.50	18		33	13	20	CL	0.75*	78	Stiff brown slightly gravelly sandy silty CLAY. Gravel is fine to medium chalk and flint.
WS139	2.80	28		35	20	15	CL/CI	0.47*	96	Soft brown slightly gravelly silty CLAY. Gravel is fine to medium flint.
WS140	1.20	25		41	19	22	CI	0.73*	100	Firm orange brown mottled black silty CLAY.

Test Method: Classification Tests BS1377: Part 2: 1990: Method 4.4, 5.3 and 5.4

Sheet No. 4

* Consistency index based on natural moisture content and not the equivalent moisture content.

ASHDOWN SITE INVESTIGATION LIMITED

Soil Classification Summary

Site Name:	Land south of Summer Lane, Pagham, West Sussex	Job No:	R18-13402

BH/TP No.	Depth (m)	Nat. Moist. Cont. (w %)	Equiv. Moist. Cont. (wa %)	Atterberg Limits			Class'n	Cons. Index (Ic)	% passing 425 µm sieve	Visual Description of Sample
				Wl %	Wp %	Ip %				
WS141	0.60	25		46	22	24	CI	0.88*	98	Stiff brown slightly gravelly silty CLAY. Gravel is fine to medium flint.
WS142	2.50	28		40	24	16	CI	0.75*	100	Stiff brown slightly sandy CLAY.
WS143	0.50	24		47	21	26	CI	0.88*	95	Stiff brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse flint.
WS144	2.60	28		41	19	22	CI	0.59*	100	Firm grey brown slightly sandy CLAY.
WS145	0.50	25		47	21	26	CI	0.85*	100	Stiff brown slightly sandy CLAY with occasional black iron staining.
WS146	1.20	12		36	13	23	CI	1.04*	70	Very stiff orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse flint.
WS147	2.50	26		42	18	24	CI	0.67*	100	Firm grey CLAY.
WS148	0.50	22		34	17	17	CL	0.71*	85	Firm brown slightly gravelly silty CLAY. Gravel is fine to medium flint.
WS149	0.60	22		46	20	26	CI	0.92*	100	Stiff dark orange brown slightly sandy CLAY.
WS150	1.20	17		30	18	12	CL	1.08*	99	Very stiff orange brown mottled grey slightly gravelly sandy CLAY.Gravel is fine to medium flint.

Test Method: Classification Tests BS1377: Part 2: 1990: Method 4.4, 5.3 and 5.4

Sheet No. 5

* Consistency index based on natural moisture content and not the equivalent moisture content.

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20822
Issue:	1
Date of Issue:	06/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-6985
Customer Reference:	R18-13402
Date Received:	30/11/2018
Date Approved:	06/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20822

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159227	WS101 3.50	26/11/2018	30/11/2018	Clayey loam	
159228	WS103 1.20	26/11/2018	30/11/2018	Silty loam	
159229	WS105 2.90	27/11/2018	30/11/2018	Silty loam	
159230	WS107 1.80	27/11/2018	30/11/2018	Sand	
159231	WS109 2.50	27/11/2018	30/11/2018	Sandy silty loam	

Results Summary

Report No.: 18-20822

			ELAB Reference	159227	159228	159229	159230	159231
			Customer Reference					
			Sample ID					
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS101	WS103	WS105	WS107	WS109
			Sample Depth (m)	3.50	1.20	2.90	1.80	2.50
			Sampling Date	26/11/2018	26/11/2018	27/11/2018	27/11/2018	27/11/2018
Determinand	**Codes**	**Units**	**LOD**					
Anions								
Water Soluble Sulphate	M	g/l	0.02	0.13	0.03	0.02	< 0.02	0.02
Inorganics								
Total Sulphur	N	%	0.01	0.30	0.02	0.01	0.01	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.21	0.05	0.04	0.03	0.04
Miscellaneous								
pH	M	pH units	0.1	8.1	8.5	7.9	8.5	8.3

Method Summary

Report No.: 18-20822

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	05/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/12/2018	115	Ion Chromatography
Water soluble anions	M	Air dried sample	04/12/2018	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	04/12/2018	216	IR

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20822

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20865
Issue:	1
Date of Issue:	10/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-6996
Customer Reference:	R18-13402
Date Received:	04/12/2018
Date Approved:	10/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20865

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159477	WS111 1.60	28/11/2018	04/12/2018	Sandy loam	
159478	WS113 1.20	28/11/2018	04/12/2018	Silty loam	
159479	WS115 2.70	28/11/2018	04/12/2018	Silty loam	
159480	WS117 1.60	28/11/2018	04/12/2018	Sandy silty loam	
159481	WS119 0.80	29/11/2018	04/12/2018	Silty loam	
159482	WS121 2.20	29/11/2018	04/12/2018	Sandy loam	
159483	WS123 1.90	28/11/2018	04/12/2018	Sand + stones	
159484	WS125 1.40	29/11/2018	04/12/2018	Sandy silty loam	
159485	WS127 2.50	29/11/2018	04/12/2018	Sandy loam	

Results Summary

Report No.: 18-20865

			ELAB Reference	159477	159478	159479	159480	159481	159482
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS111	WS113	WS115	WS117	WS119	WS121
			Sample Depth (m)	1.60	1.20	2.70	1.60	0.80	2.20
			Sampling Date	28/11/2018	28/11/2018	28/11/2018	28/11/2018	29/11/2018	29/11/2018
Determinand	**Codes**	**Units**	**LOD**						
Anions									
Water Soluble Sulphate	M	g/l	0.02	0.05	< 0.02	0.03	0.02	0.02	0.02
Inorganics									
Total Sulphur	N	%	0.01	0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.04	0.05	0.03	0.07	0.06
Miscellaneous									
pH	M	pH units	0.1	8.4	7.6	8.3	8.2	7.7	7.8

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 18-20865

ELAB Reference	159483	159484	159485
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS123	WS125	WS127
Sample Depth (m)	1.90	1.40	2.50
Sampling Date	28/11/2018	29/11/2018	29/11/2018

Determinand	Codes	Units	LOD			
Anions						
Water Soluble Sulphate	M	g/l	0.02	^ 0.02	0.02	< 0.02
Inorganics						
Total Sulphur	N	%	0.01	< 0.01	0.01	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02	0.06	0.04
Miscellaneous						
pH	M	pH units	0.1	^ 8.2	8.2	8.0

Method Summary

Report No.: 18-20865

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	07/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	10/12/2018	115	Ion Chromatography
Water soluble anions	M	Air dried sample	06/12/2018	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	06/12/2018	216	IR

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20865

Key

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M	hold MCERTS and UKAS accreditation
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^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
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SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
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U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
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PCB congener results may include any coeluting PCBs
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Deviation Codes

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b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
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TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20906
Issue:	1
Date of Issue:	12/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-7016
Customer Reference:	R18-13402
Date Received:	06/12/2018
Date Approved:	12/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20906

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159808	WS129 1.20	30/11/2018	06/12/2018	Sandy loam	
159809	WS131 1.50	03/12/2018	06/12/2018	Sandy clayey loam	
159810	WS133 2.80	03/12/2018	06/12/2018	Sandy clayey loam	
159811	WS135 4.50	04/12/2018	06/12/2018	Sandy silty loam	
159812	WS137 0.70	04/12/2018	06/12/2018	Silty loam	
159813	WS139 1.80	04/12/2018	06/12/2018	Sandy clayey loam	

Results Summary

Report No.: 18-20906

			ELAB Reference	159808	159809	159810	159811	159812	159813
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS129	WS131	WS133	WS135	WS137	WS139
			Sample Depth (m)	1.20	1.50	2.80	4.50	0.70	1.80
			Sampling Date	30/11/2018	03/12/2018	03/12/2018	04/12/2018	04/12/2018	04/12/2018
Determinand	**Codes**	**Units**	**LOD**						
Anions									
Water Soluble Sulphate	M	g/l	0.02	< 0.02	< 0.02	0.03	0.03	0.02	0.02
Inorganics									
Total Sulphur	N	%	0.01	< 0.01	< 0.01	0.01	0.01	< 0.01	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04	0.05	0.03	0.04	0.05	0.04
Miscellaneous									
pH	M	pH units	0.1	8.3	7.9	8.1	8.2	7.8	8.0

Tests marked N are not UKAS accredited.

Method Summary

Report No.: 18-20906

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	10/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	12/12/2018	115	Ion Chromatography
Water soluble anions	M	Air dried sample	10/12/2018	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	10/12/2018	216	IR

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20906

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20992
Issue:	1
Date of Issue:	18/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-7041
Customer Reference:	R18-13402
Date Received:	11/12/2018
Date Approved:	18/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20992

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
160267	WS141 D 1.20	06/12/2018	11/12/2018	Sandy clayey loam	
160268	WS143 D 2.20	06/12/2018	11/12/2018	Sandy clayey loam	
160269	WS145 D 1.50	07/12/2018	11/12/2018	Loamy sand	
160270	WS147 D 2.50	05/12/2018	11/12/2018	Sandy loam	
160271	WS149 D 2.20	05/12/2018	11/12/2018	Loamy sand	

Results Summary

Report No.: 18-20992

			ELAB Reference	160267	160268	160269	160270	160271
			Customer Reference	D	D	D	D	D
			Sample ID					
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS141	WS143	WS145	WS147	WS149
			Sample Depth (m)	1.20	2.20	1.50	2.50	2.20
			Sampling Date	06/12/2018	06/12/2018	07/12/2018	05/12/2018	05/12/2018
Determinand	**Codes**	**Units**	**LOD**					
Anions								
Water Soluble Sulphate	M	g/l	0.02	0.02	0.02	< 0.02	< 0.02	< 0.02
Inorganics								
Total Sulphur	N	%	0.01	< 0.01	0.01	0.01	0.01	< 0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02	0.03	< 0.02	< 0.02	0.04
Miscellaneous								
pH	M	pH units	0.1	7.3	7.7	7.7	7.8	8.1

Method Summary

Report No.: 18-20992

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	14/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	18/12/2018	115	Ion Chromatography
Water soluble anions	M	Air dried sample	13/12/2018	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	13/12/2018	216	IR

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20992

Key

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M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
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SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

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ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20782
Issue:	1
Date of Issue:	04/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-6982
Customer Reference:	R18-13402
Date Received:	28/11/2018
Date Approved:	04/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20782

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
158975	WS105 0.05	27/11/2018	28/11/2018	Silty loam	
158976	WS110 0.05	27/11/2018	28/11/2018	Silty loam	

Results Summary

Report No.: 18-20782

			ELAB Reference	158975	158976
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	WS105	WS110
			Sample Depth (m)	0.05	0.05
			Sampling Date	27/11/2018	27/11/2018
Determinand	**Codes**	**Units**	**LOD**		
Metals					
Arsenic	M	mg/kg	1	10.7	8.6
Cadmium	M	mg/kg	0.5	0.8	< 0.5
Chromium	M	mg/kg	5	31.4	27.5
Copper	M	mg/kg	5	16.8	14.2
Lead	M	mg/kg	5	22.8	18.7
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	17.3	15.5
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	54.1	51.5
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.03
Acid Soluble Sulphate (SO4)	N	mg/kg	200	480	300
Water Soluble Boron	N	mg/kg	0.5	0.8	1.1
Miscellaneous					
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	n/t
Loss On Ignition (450°C)	M	%	0.01	3.20	n/t
pH	M	pH units	0.1	6.9	6.6
Soil Organic Matter	U	%	0.1	1.5	2.0
Total Organic Carbon	N	%	0.01	0.58	n/t
Organics					
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0	< 1.0

Results Summary

Report No.: 18-20782

			ELAB Reference	158975	158976
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	WS105	WS110
			Sample Depth (m)	0.05	0.05
			Sampling Date	27/11/2018	27/11/2018
Determinand	**Codes**	**Units**	**LOD**		
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4
Total PAH (Including Coronene)	N	mg/kg	2	< 2	n/t
BTEX					
Total BTEX	M	mg/kg	0.01	< 0.01	n/t
Total Petroleum Hydrocarbons					
Mineral Oil	U	mg/kg	5	7	n/t
PCB (ICES 7 congeners)					
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	n/t

Results Summary

Report No.: 18-20782

WAC Analysis								
Elab Ref:	158975					**Landfill Waste Acceptance Criteria Limits**		
Sample Date:	27/11/2018					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	WS105							
Depth (m)	0.05							
Site:	Land South of Summer Lane, Pagham, West Sussex							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		0.58	3	5	6
Loss on Ignition		M	%		3.2	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		7	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			6.9	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	< 1		< 10.0	1000	20000	50000
Total Dissolved Solids		N	27		274.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	14.500		145.00	500	800	1000
Leach Test Information								
pH		N	6.4					
Conductivity (uS/cm)		N	41					
Dry mass of test portion (g)			102.000					
Dry Matter (%)			80					
Moisture (%)			25					
Eluent Volume (ml)			967					

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 18-20782

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
158975	0.05	WS105	brown soil (clay) with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
158976	0.05	WS110	brown soil (clay) with stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-20782

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	30/11/2018	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	03/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	30/11/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	30/11/2018	133	GC-FID
Water soluble boron	N	Air dried sample	30/11/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	30/11/2018	218	GC-FID
Soil organic matter	U	Air dried sample	01/12/2018	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	30/11/2018	PMAN	Microscopy
Leachate					
Arsenic*	N		04/12/2018	101	ICPMS
Cadmium*	N		04/12/2018	101	ICPMS
Chromium*	N		04/12/2018	101	ICPMS
Lead*	N		04/12/2018	101	ICPMS
Nickel*	N		04/12/2018	101	ICPMS
Copper*	N		04/12/2018	101	ICPMS
Zinc*	N		04/12/2018	101	ICPMS
Mercury*	N		04/12/2018	101	ICPMS
Selenium*	N		04/12/2018	101	ICPMS
Antimony	N		04/12/2018	101	ICPMS
Barium*	N		04/12/2018	101	ICPMS
Molybdenum*	N		04/12/2018	101	ICPMS
pH Value*	N		04/12/2018	113	Electrometric
Electrical Conductivity*	N		04/12/2018	136	Probe
Dissolved Organic Carbon	N		04/12/2018	102	TOC analyser
Chloride*	N		04/12/2018	131	Ion Chromatography
Fluoride*	N		04/12/2018	131	Ion Chromatography
Sulphate*	N		04/12/2018	131	Ion Chromatography
Total Dissolved Solids	N		04/12/2018	144	Gravimetric
Phenol index	N		04/12/2018	121	HPLC
WAC Solids analysis	N				
pH Value**	M	Air dried sample	03/12/2018	113	Electrometric
Total Organic Carbon	N	Air dried sample	03/12/2018	210	IR
Loss on Ignition**	M	Air dried sample	04/12/2018	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	03/12/2018	NEN 737	Electrometric
Total BTEX**	M	As submitted sample	03/12/2018	181	GCMS
Mineral Oil**	U	As submitted sample	30/11/2018	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	30/11/2018	120	GCMS
Total PAH (17)**	N	As submitted sample	03/12/2018	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20782

Key

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Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
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f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

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TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20783
Issue:	1
Date of Issue:	03/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-6983
Customer Reference:	R18-13402
Date Received:	28/11/2018
Date Approved:	03/12/2018
Details:	Land South of Summer Lane, Pagham South, Chichester, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20783

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
158977	WS104 0.80	26/11/2018	28/11/2018	Silty loam	
158978	WS107 0.80	27/11/2018	28/11/2018	Silty loam	

Results Summary

Report No.: 18-20783

				ELAB Reference	158977	158978
				Customer Reference		
				Sample ID		
				Sample Type	SOIL	SOIL
				Sample Location	WS104	WS107
				Sample Depth (m)	0.80	0.80
				Sampling Date	26/11/2018	27/11/2018
Determinand	**Codes**	**Units**	**LOD**			
Metals						
Arsenic	M	mg/kg	1		14.8	12.3
Cadmium	M	mg/kg	0.5		< 0.5	< 0.5
Chromium	M	mg/kg	5		41.2	33.5
Copper	M	mg/kg	5		17.6	16.6
Lead	M	mg/kg	5		15.1	12.7
Mercury	M	mg/kg	0.5		< 0.5	< 0.5
Nickel	M	mg/kg	5		33.4	28.4
Selenium	M	mg/kg	1		< 1.0	< 1.0
Zinc	M	mg/kg	5		56.9	52.7
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8		< 0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02		0.03	0.04
Water Soluble Boron	N	mg/kg	0.5		0.6	< 0.5
Miscellaneous						
Moisture Content	N	%	0.1		22.1	17.9
pH	M	pH units	0.1		7.4	8.1
Soil Organic Matter	U	%	0.1		0.5	0.2
Organics						
>C8-C10 BCB	N	mg/kg	1		< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1		< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1		< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1		< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1		< 1.0	< 1.0
>C35-C40 BCB	N	mg/kg	1		< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1		< 1.0	< 1.0
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1		< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1		< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1		< 0.1	< 0.1
Fluorene	M	mg/kg	0.1		< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1		< 0.1	< 0.1
Anthracene	M	mg/kg	0.1		< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1		< 0.1	< 0.1
Pyrene	M	mg/kg	0.1		< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1		< 0.1	< 0.1
Chrysene	M	mg/kg	0.1		< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1		< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1		< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1		< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1		< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1		< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1		< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4		< 0.4	< 0.4

Method Summary

Report No.: 18-20783

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	30/11/2018	110	Colorimetry
pH	M	Air dried sample	03/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	03/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	30/11/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	30/11/2018	133	GC-FID
Water soluble boron	N	Air dried sample	30/11/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	30/11/2018	218	GC-FID
Soil organic matter	U	Air dried sample	01/12/2018	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20783

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20823
Issue:	1
Date of Issue:	06/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-6989
Customer Reference:	R18-13402
Date Received:	30/11/2018
Date Approved:	06/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20823

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159232	WS112 0.15	28/11/2018	30/11/2018	Silty loam	
159233	WS119 0.10	29/11/2018	30/11/2018	Silty loam	
159234	WS123 0.15	28/11/2018	30/11/2018	Silty loam	
159235	WS125 0.10	29/11/2018	30/11/2018	Silty loam	

Results Summary

Report No.: 18-20823

			ELAB Reference	159232	159233	159234	159235
			Customer Reference				
			Sample ID				
			Sample Type	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS112	WS119	WS123	WS125
			Sample Depth (m)	0.15	0.10	0.15	0.10
			Sampling Date	28/11/2018	29/11/2018	28/11/2018	29/11/2018
Determinand	**Codes**	**Units**	**LOD**				
Metals							
Arsenic	M	mg/kg	1	13.2	8.7	7.5	8.4
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	40.5	27.0	23.9	25.2
Copper	M	mg/kg	5	20.1	14.0	12.6	14.3
Lead	M	mg/kg	5	18.3	20.1	21.5	20.9
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	36.7	14.6	13.1	14.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	66.8	52.9	53.2	60.7
Inorganics							
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04	0.05	0.05	0.06
Acid Soluble Sulphate (SO4)	N	mg/kg	200	400	490	510	610
Water Soluble Boron	N	mg/kg	0.5	0.6	0.6	0.7	1.0
Miscellaneous							
pH	M	pH units	0.1	7.5	6.4	6.9	7.6
Soil Organic Matter	U	%	0.1	0.6	1.6	1.6	2.1
Organics							
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 18-20823

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
159232	0.15	WS112	Brown soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
159233	0.10	WS119	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t
159234	0.15	WS123	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t
159235	0.10	WS125	Brown soil,stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-20823

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	04/12/2018	110	Colorimetry
pH	M	Air dried sample	05/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	04/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	04/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	04/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	04/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	04/12/2018	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	04/12/2018	PMAN	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20823

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U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
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g	Sample age exceeds stability time (sampling to analysis)

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Unit A2
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East Sussex
TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20824
Issue:	1
Date of Issue:	06/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-6990
Customer Reference:	R18-13402
Date Received:	30/11/2018
Date Approved:	06/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20824

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159236	WS114 0.70	26/11/2018	30/11/2018	Silty loam	
159237	WS117 0.50	28/11/2018	30/11/2018	Silty loam	
159238	WS118 0.60	29/11/2018	30/11/2018	Silty loam	
159239	WS127 0.80	29/11/2018	30/11/2018	Silty loam	

Results Summary

Report No.: 18-20824

			ELAB Reference	159236	159237	159238	159239
			Customer Reference				
			Sample ID				
			Sample Type	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS114	WS117	WS118	WS127
			Sample Depth (m)	0.70	0.50	0.60	0.80
			Sampling Date	26/11/2018	28/11/2018	29/11/2018	29/11/2018
Determinand	**Codes**	**Units**	**LOD**				
Metals							
Arsenic	M	mg/kg	1	11.0	11.1	12.3	13.4
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	36.3	36.2	38.5	40.7
Copper	M	mg/kg	5	16.5	15.0	15.8	22.1
Lead	M	mg/kg	5	13.7	14.5	14.0	15.1
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	28.3	21.0	35.6	45.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	56.1	55.8	58.3	67.1
Inorganics							
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.04	0.06	0.04
Water Soluble Boron	N	mg/kg	0.5	< 0.5	0.6	0.7	< 0.5
Miscellaneous							
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	< 0.1	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	2.27	n/t
Moisture Content	N	%	0.1	17.5	23.5	22.6	23.1
pH	M	pH units	0.1	7.7	7.2	7.0	7.5
Soil Organic Matter	U	%	0.1	0.9	0.7	0.5	0.3
Total Organic Carbon	N	%	0.01	n/t	n/t	0.30	n/t
Organics							
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0

Results Summary

Report No.: 18-20824

			ELAB Reference	159236	159237	159238	159239
			Customer Reference				
			Sample ID				
			Sample Type	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS114	WS117	WS118	WS127
			Sample Depth (m)	0.70	0.50	0.60	0.80
			Sampling Date	26/11/2018	28/11/2018	29/11/2018	29/11/2018
Determinand	**Codes**	**Units**	**LOD**				
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4
Total PAH (Including Coronene)	N	mg/kg	2	n/t	n/t	< 2	n/t
BTEX							
Total BTEX	M	mg/kg	0.01	n/t	n/t	< 0.01	n/t
Total Petroleum Hydrocarbons							
Mineral Oil	U	mg/kg	5	n/t	n/t	< 5	n/t
PCB (ICES 7 congeners)							
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	< 0.03	n/t

Results Summary

Report No.: 18-20824

WAC Analysis								
Elab Ref:	159238					**Landfill Waste Acceptance Criteria Limits**		
Sample Date:	29/11/2018					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	WS118							
Depth (m)	0.6							
Site:	Land South of Summer Lane, Pagham, West Sussex							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		0.30	3	5	6
Loss on Ignition		M	%		2.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			7.0	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	0.005		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	3		27.20	1000	20000	50000
Total Dissolved Solids		N	30		300.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	13.100		131.00	500	800	1000
Leach Test Information								
pH		N	7.4					
Conductivity (uS/cm)		N	45					
Dry mass of test portion (g)			101.000					
Dry Matter (%)			82					
Moisture (%)			22					
Eluent Volume (ml)			950					

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

Method Summary

Report No.: 18-20824

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	04/12/2018	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	06/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	04/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	04/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	04/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	04/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	04/12/2018	BS1377:P3	Titrimetry
Leachate					
Arsenic*	N		06/12/2018	101	ICPMS
Cadmium*	N		06/12/2018	101	ICPMS
Chromium*	N		06/12/2018	101	ICPMS
Lead*	N		06/12/2018	101	ICPMS
Nickel*	N		06/12/2018	101	ICPMS
Copper*	N		06/12/2018	101	ICPMS
Zinc*	N		06/12/2018	101	ICPMS
Mercury*	N		06/12/2018	101	ICPMS
Selenium*	N		06/12/2018	101	ICPMS
Antimony	N		06/12/2018	101	ICPMS
Barium*	N		06/12/2018	101	ICPMS
Molybdenum*	N		06/12/2018	101	ICPMS
pH Value*	N		06/12/2018	113	Electrometric
Electrical Conductivity*	N		06/12/2018	136	Probe
Dissolved Organic Carbon	N		06/12/2018	102	TOC analyser
Chloride*	N		06/12/2018	131	Ion Chromatography
Fluoride*	N		06/12/2018	131	Ion Chromatography
Sulphate*	N		06/12/2018	131	Ion Chromatography
Total Dissolved Solids	N		06/12/2018	144	Gravimetric
Phenol index	N		06/12/2018	121	HPLC
WAC Solids analysis	N				
pH Value**	M	Air dried sample	05/12/2018	113	Electrometric
Total Organic Carbon	N	Air dried sample	05/12/2018	210	IR
Loss on Ignition**	M	Air dried sample	06/12/2018	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	05/12/2018	NEN 737	Electrometric
Total BTEX**	M	As submitted sample	04/12/2018	181	GCMS
Mineral Oil**	U	As submitted sample	04/12/2018	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	05/12/2018	120	GCMS
Total PAH (17)**	N	As submitted sample	05/12/2018	133	GCFID

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Report Information

Report No.: 18-20824

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d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20866
Issue:	1
Date of Issue:	10/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-7012
Customer Reference:	R18-13402
Date Received:	04/12/2018
Date Approved:	10/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20866

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159486	WS128 0.10	30/11/2018	04/12/2018	Silty loam	

Results Summary

Report No.: 18-20866

ELAB Reference	159486
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS128
Sample Depth (m)	0.10
Sampling Date	30/11/2018

Determinand	Codes	Units	LOD	
Metals				
Arsenic	M	mg/kg	1	8.4
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	25.4
Copper	M	mg/kg	5	12.6
Lead	M	mg/kg	5	20.4
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	14.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	49.7
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.07
Acid Soluble Sulphate (SO4)	N	mg/kg	200	670
Water Soluble Boron	N	mg/kg	0.5	0.7
Miscellaneous				
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1
Loss On Ignition (450°C)	M	%	0.01	3.31
pH	M	pH units	0.1	7.2
Soil Organic Matter	U	%	0.1	1.6
Total Organic Carbon	N	%	0.01	0.76
Organics				
>C8-C10 BCB	N	mg/kg	1	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0
>C21-C35 BCB	N	mg/kg	1	2.3
>C35-C40 BCB	N	mg/kg	1	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	2.3

Results Summary

Report No.: 18-20866

ELAB Reference	159486
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS128
Sample Depth (m)	0.10
Sampling Date	30/11/2018

Determinand	Codes	Units	LOD	
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4
Total PAH (Including Coronene)	N	mg/kg	2	< 2
BTEX				
Total BTEX	M	mg/kg	0.01	< 0.01
Total Petroleum Hydrocarbons				
Mineral Oil	U	mg/kg	5	< 5
PCB (ICES 7 congeners)				
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 18-20866

WAC Analysis								
Elab Ref:	159486					**Landfill Waste Acceptance Criteria Limits**		
Sample Date:	30/11/2018					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	WS128							
Depth (m)	0.1							
Site:	Land South of Summer Lane, Pagham, West Sussex							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		0.76	3	5	6
Loss on Ignition		M	%		3.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			7.2	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	0.009		0.09	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	3		28.50	1000	20000	50000
Total Dissolved Solids		N	37		373.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	9.680		97.00	500	800	1000
Leach Test Information								
pH		N	6.5					
Conductivity (uS/cm)		N	56					
Dry mass of test portion (g)			102.000					
Dry Matter (%)			81					
Moisture (%)			24					
Eluent Volume (ml)			957					

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 18-20866

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
159486	0.10	WS128	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-20866

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	06/12/2018	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	10/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	06/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	06/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	06/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	06/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	07/12/2018	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	07/12/2018	PMAN	Microscopy
Leachate					
Arsenic*	N		10/12/2018	101	ICPMS
Cadmium*	N		10/12/2018	101	ICPMS
Chromium*	N		10/12/2018	101	ICPMS
Lead*	N		10/12/2018	101	ICPMS
Nickel*	N		10/12/2018	101	ICPMS
Copper*	N		10/12/2018	101	ICPMS
Zinc*	N		10/12/2018	101	ICPMS
Mercury*	N		10/12/2018	101	ICPMS
Selenium*	N		10/12/2018	101	ICPMS
Antimony	N		10/12/2018	101	ICPMS
Barium*	N		10/12/2018	101	ICPMS
Molybdenum*	N		10/12/2018	101	ICPMS
pH Value*	N		10/12/2018	113	Electrometric
Electrical Conductivity*	N		10/12/2018	136	Probe
Dissolved Organic Carbon	N		10/12/2018	102	TOC analyser
Chloride*	N		10/12/2018	131	Ion Chromatography
Fluoride*	N		10/12/2018	131	Ion Chromatography
Sulphate*	N		10/12/2018	131	Ion Chromatography
Total Dissolved Solids	N		10/12/2018	144	Gravimetric
Phenol index	N		10/12/2018	121	HPLC
WAC Solids analysis	N				
pH Value**	M	Air dried sample	07/12/2018	113	Electrometric
Total Organic Carbon	N	Air dried sample	07/12/2018	210	IR
Loss on Ignition**	M	Air dried sample	07/12/2018	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	07/12/2018	NEN 737	Electrometric
Total BTEX**	M	As submitted sample	06/12/2018	181	GCMS
Mineral Oil**	U	As submitted sample	06/12/2018	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	06/12/2018	120	GCMS
Total PAH (17)**	N	As submitted sample	07/12/2018	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20866

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]

2683

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-20867

Issue: 1

Date of Issue: 10/12/2018

Contact: Lab Results

Customer Details: Ashdown Site Investigation Ltd
Unit 3 The Grain Store
Ditchling Common Business Park
Ditchling Common
West Sussex
BN6 8SG

Quotation No: Q15-00267

Order No: P18-7011

Customer Reference: R18-13402

Date Received: 04/12/2018

Date Approved: 10/12/2018

Details: Land South of Summer Lane, Pagham, West Sussex

Approved by: [redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20867

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159487	WS134 0.60	03/12/2018	04/12/2018	Silty loam	

Results Summary

Report No.: 18-20867

ELAB Reference	159487
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS134
Sample Depth (m)	0.60
Sampling Date	03/12/2018

Determinand	Codes	Units	LOD	
Metals				
Arsenic	M	mg/kg	1	13.3
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	42.5
Copper	M	mg/kg	5	19.1
Lead	M	mg/kg	5	16.0
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	40.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	61.4
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.07
Water Soluble Boron	N	mg/kg	0.5	< 0.5
Miscellaneous				
Moisture Content	N	%	0.1	22.7
pH	M	pH units	0.1	7.7
Soil Organic Matter	U	%	0.1	0.3
Organics				
>C8-C10 BCB	N	mg/kg	1	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4

Method Summary

Report No.: 18-20867

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	06/12/2018	110	Colorimetry
pH	M	Air dried sample	07/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	10/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	06/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	06/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	06/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	06/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	07/12/2018	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20867

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PCB congener results may include any coeluting PCBs
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Deviation Codes

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b	No time of sampling supplied (Waters Only)
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g	Sample age exceeds stability time (sampling to analysis)

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Sample Retention and Disposal

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Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20907
Issue:	1
Date of Issue:	12/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-7023
Customer Reference:	R18-13402
Date Received:	06/12/2018
Date Approved:	12/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20907

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159814	WS136 0.05	04/12/2018	06/12/2018	Silty loam	
159815	WS148 0.05	05/12/2018	06/12/2018	Silty clayey loam	

Results Summary

Report No.: 18-20907

			ELAB Reference	159814	159815
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	WS136	WS148
			Sample Depth (m)	0.05	0.05
			Sampling Date	04/12/2018	05/12/2018
Determinand	**Codes**	**Units**	**LOD**		
Metals					
Arsenic	M	mg/kg	1	9.0	8.2
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	28.2	30.1
Copper	M	mg/kg	5	9.0	9.9
Lead	M	mg/kg	5	18.6	21.4
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	14.9	15.2
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	52.9	59.8
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.05
Acid Soluble Sulphate (SO4)	N	mg/kg	200	470	540
Water Soluble Boron	N	mg/kg	0.5	0.9	0.9
Miscellaneous					
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	< 0.1
Loss On Ignition (450°C)	M	%	0.01	n/t	3.05
pH	M	pH units	0.1	7.1	6.8
Soil Organic Matter	U	%	0.1	1.5	1.3
Total Organic Carbon	N	%	0.01	n/t	0.58
Organics					
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0	< 1.0

Results Summary

Report No.: 18-20907

			ELAB Reference	159814	159815
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	WS136	WS148
			Sample Depth (m)	0.05	0.05
			Sampling Date	04/12/2018	05/12/2018
Determinand	**Codes**	**Units**	**LOD**		
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4
Total PAH (Including Coronene)	N	mg/kg	2	n/t	< 2
BTEX					
Total BTEX	M	mg/kg	0.01	n/t	< 0.01
Total Petroleum Hydrocarbons					
Mineral Oil	U	mg/kg	5	n/t	< 5
PCB (ICES 7 congeners)					
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	< 0.03

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 18-20907

WAC Analysis								
Elab Ref:	159815					**Landfill Waste Acceptance Criteria Limits**		
Sample Date:	05/12/2018					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	WS148							
Depth (m)	0.05							
Site:	Land South of Summer Lane, Pagham, West Sussex							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		0.58	3	5	6
Loss on Ignition		M	%		3.1	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			6.8	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	0.002		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	0.009		0.09	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	1		12.20	1000	20000	50000
Total Dissolved Solids		N	14		140.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	10.700		107.00	500	800	1000
Leach Test Information								
pH		N	7.1					
Conductivity (uS/cm)		N	21					
Dry mass of test portion (g)			103.000					
Dry Matter (%)			82					
Moisture (%)			22					
Eluent Volume (ml)			968					

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
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Results Summary

Report No.: 18-20907

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
159814	0.05	WS136	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
159815	0.05	WS148	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-20907

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	10/12/2018	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	12/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	10/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	10/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	10/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	10/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	10/12/2018	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	10/12/2018	PMAN	Microscopy
Leachate					
Arsenic*	N		12/12/2018	101	ICPMS
Cadmium*	N		12/12/2018	101	ICPMS
Chromium*	N		12/12/2018	101	ICPMS
Lead*	N		12/12/2018	101	ICPMS
Nickel*	N		12/12/2018	101	ICPMS
Copper*	N		12/12/2018	101	ICPMS
Zinc*	N		12/12/2018	101	ICPMS
Mercury*	N		12/12/2018	101	ICPMS
Selenium*	N		12/12/2018	101	ICPMS
Antimony	N		12/12/2018	101	ICPMS
Barium*	N		12/12/2018	101	ICPMS
Molybdenum*	N		12/12/2018	101	ICPMS
pH Value*	N		12/12/2018	113	Electrometric
Electrical Conductivity*	N		12/12/2018	136	Probe
Dissolved Organic Carbon	N		12/12/2018	102	TOC analyser
Chloride*	N		12/12/2018	131	Ion Chromatography
Fluoride*	N		12/12/2018	131	Ion Chromatography
Sulphate*	N		12/12/2018	131	Ion Chromatography
Total Dissolved Solids	N		12/12/2018	144	Gravimetric
Phenol index	N		12/12/2018	121	HPLC
WAC Solids analysis	N				
pH Value**	M	Air dried sample	10/12/2018	113	Electrometric
Total Organic Carbon	N	Air dried sample	11/12/2018	210	IR
Loss on Ignition**	M	Air dried sample	12/12/2018	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	10/12/2018	NEN 737	Electrometric
Total BTEX**	M	As submitted sample	10/12/2018	181	GCMS
Mineral Oil**	U	As submitted sample	10/12/2018	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	10/12/2018	120	GCMS
Total PAH (17)**	N	As submitted sample	11/12/2018	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20907

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
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^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
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PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-20908

Issue: 1

Date of Issue: 12/12/2018

Contact: Lab Results

Customer Details: Ashdown Site Investigation Ltd
Unit 3 The Grain Store
Ditchling Common Business Park
Ditchling Common
West Sussex
BN6 8SG

Quotation No: Q15-00267

Order No: P18-7024

Customer Reference: R18-13402

Date Received: 06/12/2018

Date Approved: 12/12/2018

Details: Land South of Summer Lane, Pagham, West Sussex

Approved by: [redacted]

John Wilson, Operations M

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20908

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159816	WS135 0.60	04/12/2018	06/12/2018	Silty loam	
159817	WS147 0.60	05/12/2018	06/12/2018	Silty loam	

Results Summary

Report No.: 18-20908

			ELAB Reference	159816	159817
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	WS135	WS147
			Sample Depth (m)	0.60	0.60
			Sampling Date	04/12/2018	05/12/2018
Determinand	**Codes**	**Units**	**LOD**		
Metals					
Arsenic	M	mg/kg	1	14.2	15.5
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	49.6	45.3
Copper	M	mg/kg	5	16.1	14.9
Lead	M	mg/kg	5	14.3	13.2
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	35.4	33.1
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	68.7	64.5
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.06
Water Soluble Boron	N	mg/kg	0.5	< 0.5	0.7
Miscellaneous					
Moisture Content	N	%	0.1	23.5	22.6
pH	M	pH units	0.1	7.0	6.9
Soil Organic Matter	U	%	0.1	0.8	0.3
Organics					
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0	< 1.0
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4

Method Summary

Report No.: 18-20908

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	10/12/2018	110	Colorimetry
pH	M	Air dried sample	10/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	12/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	10/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	10/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	10/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	10/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	10/12/2018	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20908

Key

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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20930
Issue:	1
Date of Issue:	13/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-7031
Customer Reference:	R18-13402
Date Received:	07/12/2018
Date Approved:	13/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20930

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
160002	WS143 0.05	06/12/2018	07/12/2018	Silty loam	

Results Summary

Report No.: 18-20930

ELAB Reference	160002
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS143
Sample Depth (m)	0.05
Sampling Date	06/12/2018

Determinand	Codes	Units	LOD	
Metals				
Arsenic	M	mg/kg	1	8.1
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	28.8
Copper	M	mg/kg	5	12.0
Lead	M	mg/kg	5	24.8
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	15.6
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	47.9
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04
Acid Soluble Sulphate (SO4)	N	mg/kg	200	410
Water Soluble Boron	N	mg/kg	0.5	0.8
Miscellaneous				
pH	M	pH units	0.1	7.2
Soil Organic Matter	U	%	0.1	1.4
Organics				
>C8-C10 BCB	N	mg/kg	1	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
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Results Summary

Report No.: 18-20930

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
160002	0.05	WS143	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-20930

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	11/12/2018	110	Colorimetry
pH	M	Air dried sample	12/12/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	13/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	11/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	12/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	11/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	12/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	11/12/2018	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	11/12/2018	PMAN	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20930

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I/S	Insufficient Sample
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<	means "less than"
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a	No date of sampling supplied
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Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

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[redacted]

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	18-20931
Issue:	1
Date of Issue:	13/12/2018
Contact:	Lab Results
Customer Details:	Ashdown Site Investigation Ltd Unit 3 The Grain Store Ditchling Common Business Park Ditchling Common West Sussex BN6 8SG
Quotation No:	Q15-00267
Order No:	P18-7032
Customer Reference:	R18-13402
Date Received:	07/12/2018
Date Approved:	13/12/2018
Details:	Land South of Summer Lane, Pagham, West Sussex
Approved by:	[redacted]

John Wilson, Operations Manager

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Sample Summary

Report No.: 18-20931

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
160003	WS142 0.60	06/12/2018	07/12/2018	Silty loam	

Results Summary

Report No.: 18-20931

ELAB Reference	160003
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS142
Sample Depth (m)	0.60
Sampling Date	06/12/2018

Determinand	Codes	Units	LOD	
Metals				
Arsenic	M	mg/kg	1	15.2
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	49.9
Copper	M	mg/kg	5	19.0
Lead	M	mg/kg	5	17.7
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	45.7
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	66.3
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03
Water Soluble Boron	N	mg/kg	0.5	0.6
Miscellaneous				
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1
Loss On Ignition (450°C)	M	%	0.01	2.46
Moisture Content	N	%	0.1	22.8
pH	M	pH units	0.1	7.4
Soil Organic Matter	U	%	0.1	0.1
Total Organic Carbon	N	%	0.01	0.30
Organics				
>C8-C10 BCB	N	mg/kg	1	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0

Results Summary

Report No.: 18-20931

ELAB Reference	160003
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS142
Sample Depth (m)	0.60
Sampling Date	06/12/2018

Determinand	Codes	Units	LOD	
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4
Total PAH (Including Coronene)	N	mg/kg	2	< 2
BTEX				
Total BTEX	M	mg/kg	0.01	< 0.01
Total Petroleum Hydrocarbons				
Mineral Oil	U	mg/kg	5	< 5
PCB (ICES 7 congeners)				
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03

Results Summary

Report No.: 18-20931

WAC Analysis								
Elab Ref:	160003					**Landfill Waste Acceptance Criteria Limits**		
Sample Date:	06/12/2018					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	WS142							
Depth (m)	0.6							
Site:	Land South of Summer Lane, Pagham, West Sussex							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		0.30	3	5	6
Loss on Ignition		M	%		2.5	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			7.4	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	3		25.70	1000	20000	50000
Total Dissolved Solids		N	30		302.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	9.160		92.00	500	800	1000
Leach Test Information								
pH		N	7.2					
Conductivity (uS/cm)		N	45					
Dry mass of test portion (g)			100.000					
Dry Matter (%)			81					
Moisture (%)			24					
Eluent Volume (ml)			953					

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

Method Summary

Report No.: 18-20931

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	11/12/2018	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	13/12/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	11/12/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	12/12/2018	133	GC-FID
Water soluble boron	N	Air dried sample	11/12/2018	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	12/12/2018	218	GC-FID
Soil organic matter	U	Air dried sample	11/12/2018	BS1377:P3	Titrimetry
Leachate					
Arsenic*	N		13/12/2018	101	ICPMS
Cadmium*	N		13/12/2018	101	ICPMS
Chromium*	N		13/12/2018	101	ICPMS
Lead*	N		13/12/2018	101	ICPMS
Nickel*	N		13/12/2018	101	ICPMS
Copper*	N		13/12/2018	101	ICPMS
Zinc*	N		13/12/2018	101	ICPMS
Mercury*	N		13/12/2018	101	ICPMS
Selenium*	N		13/12/2018	101	ICPMS
Antimony	N		13/12/2018	101	ICPMS
Barium*	N		13/12/2018	101	ICPMS
Molybdenum*	N		13/12/2018	101	ICPMS
pH Value*	N		13/12/2018	113	Electrometric
Electrical Conductivity*	N		13/12/2018	136	Probe
Dissolved Organic Carbon	N		13/12/2018	102	TOC analyser
Chloride*	N		13/12/2018	131	Ion Chromatography
Fluoride*	N		13/12/2018	131	Ion Chromatography
Sulphate*	N		13/12/2018	131	Ion Chromatography
Total Dissolved Solids	N		13/12/2018	144	Gravimetric
Phenol index	N		13/12/2018	121	HPLC
WAC Solids analysis	N				
pH Value**	M	Air dried sample	12/12/2018	113	Electrometric
Total Organic Carbon	N	Air dried sample	12/12/2018	210	IR
Loss on Ignition**	M	Air dried sample	13/12/2018	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	12/12/2018	NEN 737	Electrometric
Total BTEX**	M	As submitted sample	11/12/2018	181	GCMS
Mineral Oil**	U	As submitted sample	12/12/2018	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	12/12/2018	120	GCMS
Total PAH (17)**	N	As submitted sample	12/12/2018	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 18-20931

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

APPENDIX E

HazWaste Online Output Sheets

ASHDOWN SITE INVESTIGATION L·I·M·I·T·E·D

HazWasteOnline™

Waste Classification Report

N7BZ6-WMC9G-S29L4

Job name

R18-13402 New Development, Pagham South, Chichester_1

Description/Comments

Topsoil/Subsoil

Project

R18-13402

Site

New Development, Pagham South, Chichester

Related Documents

#	Name	Description
None		

Waste Stream Template

ASI Elab

Classified by

Name:
Stuart Card
Date:
14 Jan 2019 11:20 GMT
Telephone:
[redacted]

Company:
Ashdown Site Investigation Limited
The Old Dairy
Swanborough Farm, Swanborough
Lewes
BN7 3PF

Report

Created by: Stuart Card
Created date: 14 Jan 2019 11:20 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	WS105	0.05	Non Hazardous		3
2	WS110	0.05	Non Hazardous		5
3	WS112	0.15	Non Hazardous		7
4	WS119	0.1	Non Hazardous		9
5	WS123	0.15	Non Hazardous		11
6	WS125	0.1	Non Hazardous		13
7	WS128	0.1	Non Hazardous		15
8	WS136	0.05	Non Hazardous		17
9	WS143	0.05	Non Hazardous		19
10	WS148	0.05	Non Hazardous		21

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	23
Appendix B: Rationale for selection of metal species	24
Appendix C: Version	24

Classification of sample: WS105

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS105	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.05 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.7 mg/kg	1.32	14.127 mg/kg	0.00141 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.8 mg/kg	1.285	1.028 mg/kg	0.00008 %		
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31.4 mg/kg	1.462	45.893 mg/kg	0.00459 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		16.8 mg/kg	3.929	66.008 mg/kg	0.0066 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22.8 mg/kg	1.56	35.564 mg/kg	0.00228 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17.3 mg/kg	2.976	51.489 mg/kg	0.00515 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				54.1 mg/kg	2.774	150.081 mg/kg	0.015 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8 mg/kg	13.43	10.744 mg/kg	0.00107 %		
12	pH			PH		6.9 pH		6.9 pH	6.9 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0369 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS110

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS110	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.05 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.6 mg/kg	1.32	11.355 mg/kg	0.00114 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27.5 mg/kg	1.462	40.193 mg/kg	0.00402 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		14.2 mg/kg	3.929	55.793 mg/kg	0.00558 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18.7 mg/kg	1.56	29.169 mg/kg	0.00187 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15.5 mg/kg	2.976	46.132 mg/kg	0.00461 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				51.5 mg/kg	2.774	142.869 mg/kg	0.0143 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1 mg/kg	13.43	14.773 mg/kg	0.00148 %		
12	pH			PH		6.6 pH		6.6 pH	6.6 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0338 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS112

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS112	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.15 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.2 mg/kg	1.32	17.428 mg/kg	0.00174 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		40.5 mg/kg	1.462	59.193 mg/kg	0.00592 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		20.1 mg/kg	3.929	78.974 mg/kg	0.0079 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18.3 mg/kg	1.56	28.545 mg/kg	0.00183 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36.7 mg/kg	2.976	109.229 mg/kg	0.0109 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				66.8 mg/kg	2.774	185.313 mg/kg	0.0185 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %		
12	pH			PH		7.5 pH		7.5 pH	7.5 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0484 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS119

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS119	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.1 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.7 mg/kg	1.32	11.487 mg/kg	0.00115 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		14 mg/kg	3.929	55.007 mg/kg	0.0055 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20.1 mg/kg	1.56	31.352 mg/kg	0.00201 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14.6 mg/kg	2.976	43.453 mg/kg	0.00435 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				52.9 mg/kg	2.774	146.752 mg/kg	0.0147 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %		
12	pH			PH		6.4 pH		6.4 pH	6.4 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0332 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS123

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS123	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.15 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.5 mg/kg	1.32	9.902 mg/kg	0.00099 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23.9 mg/kg	1.462	34.931 mg/kg	0.00349 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		12.6 mg/kg	3.929	49.506 mg/kg	0.00495 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21.5 mg/kg	1.56	33.536 mg/kg	0.00215 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13.1 mg/kg	2.976	38.989 mg/kg	0.0039 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				53.2 mg/kg	2.774	147.585 mg/kg	0.0148 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	9.401 mg/kg	0.00094 %		
12	pH			PH		6.9 pH		6.9 pH	6.9 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.032 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS125

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS125	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.1 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.4 mg/kg	1.32	11.091 mg/kg	0.00111 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25.2 mg/kg	1.462	36.831 mg/kg	0.00368 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		14.3 mg/kg	3.929	56.185 mg/kg	0.00562 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20.9 mg/kg	1.56	32.6 mg/kg	0.00209 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.976	41.668 mg/kg	0.00417 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
9	zinc { zinc chromate }	024-007-00-3				60.7 mg/kg	2.774	168.391 mg/kg	0.0168 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<LOD
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1 mg/kg	13.43	13.43 mg/kg	0.00134 %		
12	pH			PH		7.6 pH		7.6 pH	7.6 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0356 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS128

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS128	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.1 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.4 mg/kg	1.32	11.091 mg/kg	0.00111 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25.4 mg/kg	1.462	37.124 mg/kg	0.00371 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		12.6 mg/kg	3.929	49.506 mg/kg	0.00495 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20.4 mg/kg	1.56	31.82 mg/kg	0.00204 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14.4 mg/kg	2.976	42.858 mg/kg	0.00429 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				49.7 mg/kg	2.774	137.875 mg/kg	0.0138 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	9.401 mg/kg	0.00094 %		
12	pH			PH		7.2 pH		7.2 pH	7.2 pH		
13	TPH (C6 to C40) petroleum group			TPH		2.3 mg/kg		2.3 mg/kg	0.00023 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0317 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product identified. TPH unlikely to be flammable at concentrations <500mg/kg and not at concentrations recorded.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00023%)

Classification of sample: WS136

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS136	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.05 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28.2 mg/kg	1.462	41.216 mg/kg	0.00412 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		9 mg/kg	3.929	35.361 mg/kg	0.00354 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18.6 mg/kg	1.56	29.013 mg/kg	0.00186 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14.9 mg/kg	2.976	44.346 mg/kg	0.00443 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				52.9 mg/kg	2.774	146.752 mg/kg	0.0147 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.9 mg/kg	13.43	12.087 mg/kg	0.00121 %		
12	pH			PH		7.1 pH		7.1 pH	7.1 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0318 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS143

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS143	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.05 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.1 mg/kg	1.32	10.695 mg/kg	0.00107 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28.8 mg/kg	1.462	42.093 mg/kg	0.00421 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		12 mg/kg	3.929	47.149 mg/kg	0.00471 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	24.8 mg/kg	1.56	38.683 mg/kg	0.00248 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15.6 mg/kg	2.976	46.43 mg/kg	0.00464 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				47.9 mg/kg	2.774	132.882 mg/kg	0.0133 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8 mg/kg	13.43	10.744 mg/kg	0.00107 %		
12	pH			PH		7.2 pH		7.2 pH	7.2 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0323 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS148

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS148	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.05 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2 mg/kg	1.32	10.827 mg/kg	0.00108 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30.1 mg/kg	1.462	43.993 mg/kg	0.0044 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		9.9 mg/kg	3.929	38.898 mg/kg	0.00389 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21.4 mg/kg	1.56	33.38 mg/kg	0.00214 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15.2 mg/kg	2.976	45.239 mg/kg	0.00452 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				59.8 mg/kg	2.774	165.894 mg/kg	0.0166 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.9 mg/kg	13.43	12.087 mg/kg	0.00121 %		
12	pH			PH		6.8 pH		6.8 pH	6.8 pH		
13	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
15	•	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
16	•	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
17	•	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
18	•	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
19	•	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
20	•	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
21	•	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
22		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
27	•	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29	•	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
										Total:	0.0346 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non CLP determinands

chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Conversion factor: 13.43
Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Hazard Statements: Skin Corr. 1B H314 , Skin Corr. 1A H314 , Acute Tox. 2 H300 , Acute Tox. 2 H330 , EUH014

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species

cadmium {cadmium sulfide}

Worst case species

chromium in chromium(III) compounds {chromium(III) oxide}

Worst case species

copper {copper sulphate pentahydrate}

Worst case species

lead {lead chromate}

Worst case species

mercury {mercury dichloride}

Worst case species

nickel {nickel chromate}

Worst case species

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species

zinc {zinc chromate}

Worst case species

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2019.3.3745.7658 (03 Jan 2019)
HazWasteOnline Database: 2019.3.3745.7658 (03 Jan 2019)

This classification utilises the following guidance and legislation:
WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

ASHDOWN SITE INVESTIGATION L·I·M·I·T·E·D

HazWasteOnline™

Waste Classification Report

QSFGX-G2G86-4A7QS

Job name

R18-13402 New Development, Pagham South, Chichester_2

Description/Comments

River Terrace Deposits

Project

R18-13402

Site

New Development, Pagham South, Chichester

Related Documents

#	Name	Description
None		

Waste Stream Template

ASI Elab

Classified by

Name:
Stuart Card
Date:
14 Jan 2019 11:20 GMT
Telephone:
01273 483119

Company:
Ashdown Site Investigation Limited
The Old Dairy
Swanborough Farm, Swanborough
Lewes
BN7 3PF

Report

Created by: Stuart Card
Created date: 14 Jan 2019 11:20 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	WS104	0.8	Non Hazardous		3
2	WS107	0.8	Non Hazardous		5
3	WS114	0.7	Non Hazardous		7
4	WS117	0.5	Non Hazardous		9
5	WS118	0.6	Non Hazardous		11
6	WS127	0.8	Non Hazardous		13
7	WS134	0.6	Non Hazardous		15
8	WS135	0.6	Non Hazardous		17
9	WS142	0.6	Non Hazardous		19
10	WS147	0.6	Non Hazardous		21

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	23
Appendix B: Rationale for selection of metal species	24
Appendix C: Version	24

Classification of sample: WS104

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS104
Sample Depth:
0.8 m
Moisture content:
22.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14.8 mg/kg	1.32	19.541 mg/kg	0.00195 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		41.2 mg/kg	1.462	60.216 mg/kg	0.00602 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		17.6 mg/kg	3.929	69.151 mg/kg	0.00692 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.1 mg/kg	1.56	23.553 mg/kg	0.00151 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33.4 mg/kg	2.976	99.407 mg/kg	0.00994 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				56.9 mg/kg	2.774	157.849 mg/kg	0.0158 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %		
12	pH			PH		7.4 pH		7.4 pH	7.4 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0437 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS107

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS107
Sample Depth:
0.8 m
Moisture content:
17.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17.9% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.3	mg/kg	1.32	16.24	mg/kg	0.00162 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33.5	mg/kg	1.462	48.962	mg/kg	0.0049 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		16.6	mg/kg	3.929	65.222	mg/kg	0.00652 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12.7	mg/kg	1.56	19.81	mg/kg	0.00127 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.4	mg/kg	2.976	84.526	mg/kg	0.00845 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				52.7	mg/kg	2.774	146.198	mg/kg	0.0146 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<**LOD**
12	pH			PH		8.1	pH		8.1	pH	8.1 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene	201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene	201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene	205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene	204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene 601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene	205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0388 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS114

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS114
Sample Depth:
0.7 m
Moisture content:
17.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		36.3	mg/kg	1.462	53.054	mg/kg	0.00531 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		16.5	mg/kg	3.929	64.829	mg/kg	0.00648 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13.7	mg/kg	1.56	21.369	mg/kg	0.00137 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.3	mg/kg	2.976	84.228	mg/kg	0.00842 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
9	zinc { zinc chromate }	024-007-00-3				56.1	mg/kg	2.774	155.63	mg/kg	0.0156 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
12	pH			PH		7.7	pH		7.7	pH	7.7 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0401 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS117

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS117
Sample Depth:
0.5 m
Moisture content:
23.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11.1	mg/kg	1.32	14.656	mg/kg	0.00147 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		36.2	mg/kg	1.462	52.908	mg/kg	0.00529 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		15	mg/kg	3.929	58.936	mg/kg	0.00589 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14.5	mg/kg	1.56	22.617	mg/kg	0.00145 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	62.502	mg/kg	0.00625 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				55.8	mg/kg	2.774	154.797	mg/kg	0.0155 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	8.058	mg/kg	0.000806 %		
12	pH			PH		7.2	pH		7.2	pH	7.2 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0374 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS118

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS118
Sample Depth:
0.6 m
Moisture content:
22.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.3	mg/kg	1.32	16.24	mg/kg	0.00162 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		38.5	mg/kg	1.462	56.27	mg/kg	0.00563 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		15.8	mg/kg	3.929	62.079	mg/kg	0.00621 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14	mg/kg	1.56	21.837	mg/kg	0.0014 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		35.6	mg/kg	2.976	105.955	mg/kg	0.0106 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				58.3	mg/kg	2.774	161.733	mg/kg	0.0162 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
12	pH			PH		7	pH		7	pH	7pH		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13	●	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
											Total:	0.0434 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS127

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS127
Sample Depth:
0.8 m
Moisture content:
23.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.4	mg/kg	1.32	17.692	mg/kg	0.00177 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		40.7	mg/kg	1.462	59.485	mg/kg	0.00595 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		22.1	mg/kg	3.929	86.832	mg/kg	0.00868 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.1	mg/kg	1.56	23.553	mg/kg	0.00151 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		45	mg/kg	2.976	133.932	mg/kg	0.0134 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				67.1	mg/kg	2.774	186.145	mg/kg	0.0186 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<**LOD**
12	pH			PH		7.5	pH		7.5	pH	7.5 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0514 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS134

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS134
Sample Depth:
0.6 m
Moisture content:
22.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.3	mg/kg	1.32	17.56	mg/kg	0.00176 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		42.5	mg/kg	1.462	62.116	mg/kg	0.00621 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		19.1	mg/kg	3.929	75.045	mg/kg	0.0075 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16	mg/kg	1.56	24.957	mg/kg	0.0016 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		40.4	mg/kg	2.976	120.241	mg/kg	0.012 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				61.4	mg/kg	2.774	170.333	mg/kg	0.017 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<**LOD**
12	pH			PH		7.7	pH		7.7	pH	7.7 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0476 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS135

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS135
Sample Depth:
0.6 m
Moisture content:
23.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14.2	mg/kg	1.32	18.749	mg/kg	0.00187 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		49.6	mg/kg	1.462	72.493	mg/kg	0.00725 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		16.1	mg/kg	3.929	63.258	mg/kg	0.00633 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14.3	mg/kg	1.56	22.305	mg/kg	0.00143 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		35.4	mg/kg	2.976	105.36	mg/kg	0.0105 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				68.7	mg/kg	2.774	190.584	mg/kg	0.0191 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<**LOD**
12	pH			PH		7	pH		7	pH	7pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0479 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS142

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS142
Sample Depth:
0.6 m
Moisture content:
22.8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15.2	mg/kg	1.32	20.069	mg/kg	0.00201 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		49.9	mg/kg	1.462	72.932	mg/kg	0.00729 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		19	mg/kg	3.929	74.652	mg/kg	0.00747 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17.7	mg/kg	1.56	27.609	mg/kg	0.00177 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		45.7	mg/kg	2.976	136.015	mg/kg	0.0136 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				66.3	mg/kg	2.774	183.926	mg/kg	0.0184 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	8.058	mg/kg	0.000806 %		
12	pH			PH		7.4	pH		7.4	pH	7.4 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0521 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS147

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS147
Sample Depth:
0.6 m
Moisture content:
22.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15.5	mg/kg	1.32	20.465	mg/kg	0.00205 %		
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.5	mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<**LOD**
3	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		45.3	mg/kg	1.462	66.208	mg/kg	0.00662 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		14.9	mg/kg	3.929	58.543	mg/kg	0.00585 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13.2	mg/kg	1.56	20.59	mg/kg	0.00132 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<**LOD**
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33.1	mg/kg	2.976	98.514	mg/kg	0.00985 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3				64.5	mg/kg	2.774	178.932	mg/kg	0.0179 %		
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
12	pH			PH		6.9	pH		6.9	pH	6.9 pH		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13	●	TPH (C6 to C40) petroleum group		TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
14		naphthalene											
		601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	●	acenaphthylene											
			205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
16	●	acenaphthene											
			201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	●	fluorene											
			201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	●	phenanthrene											
			201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	●	anthracene											
			204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	●	fluoranthene											
			205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	●	pyrene											
			204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	●	indeno[123-cd]pyrene											
			205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	●	benzo[ghi]perylene											
			205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0453 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non CLP determinands

chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Conversion factor: 13.43
Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Hazard Statements: Skin Corr. 1B H314 , Skin Corr. 1A H314 , Acute Tox. 2 H300 , Acute Tox. 2 H330 , EUH014

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species

cadmium {cadmium sulfide}

Worst case species

chromium in chromium(III) compounds {chromium(III) oxide}

Worst case species

copper {copper sulphate pentahydrate}

Worst case species

lead {lead chromate}

Worst case species

mercury {mercury dichloride}

Worst case species

nickel {nickel chromate}

Worst case species

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species

zinc {zinc chromate}

Worst case species

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2019.3.3745.7658 (03 Jan 2019)
HazWasteOnline Database: 2019.3.3745.7658 (03 Jan 2019)

This classification utilises the following guidance and legislation:
WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010