



ARCH
ASSOCIATES

APPENDIX 6

GROUNDWATER MONITORING



Factual Report

at

Stopham Road, Pullborough, West Sussex RH20 1DP

for

Stonewater Developments Limited

Reference: 20689/GWT FR/REV 1.01
May 2023

Control Document

Project

Stopham Road, Pullborough, West Sussex RH20 1DP

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This is not a valid document for use in the design of the project unless it is titled Final in the document status box.

Current regulations and good practice were used in the preparation of this report. The recommendations given in this report must be reviewed by an appropriately qualified person at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.



Commission

This document comprises the Factual Report (FR) and incorporates the results to this intrusive works. General site data is recorded below:

Commission Record	
Client:	Stonewater Developments Limited
Site Name:	Stopham Road, Pullborough, West Sussex, RH20 1DP
Grid Reference:	TQ041185
Soils Limited Quotation Ref:	Q27250, dated 3 rd January 2023
Clients Purchase Order:	TO/7411-2/KP dated 19 th January 2023

The record of revision to this document is presented below:

Record Of Revisions		
Revision	Date	Reason
1.01	May 2023	Update final groundwater monitoring data.

Note(s): The latest revised document supersedes all previous revisions of the MIR produced by Soils Limited.

Limitations and Disclaimers

The report was prepared solely for the brief described in Section 1.1 of this report.

The contents, recommendations and advice given in the report are subject to the Terms and Conditions given in Soils Limited's Quotation

Soils Limited disclaims any responsibility to the Client and others in respect of any matters outside the scope of the above.

This report has been prepared by Soils Limited, with all reasonable skill, care and diligence within the terms of the Contract with the Client, incorporation of our General Conditions of Contract of Business and taking into account the resources devoted to us by agreement with the Client.

The report is personal and confidential to the Client and Soils Limited accept no responsibility of whatever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report wholly at its own risk.

The Client may not assign the benefit of the report or any part to any third party without the written consent of Soils Limited.

The ground is a product of continuing natural and artificial processes. As a result, the ground will exhibit a variety of characteristics that vary from place to place across a site, and also with time. Whilst a ground investigation will mitigate to a greater or lesser degree against the resulting risk from variation, the risks cannot be eliminated.

The investigation was prepared for the sole benefit of the Client in accordance with their brief. As such these do not necessarily address all aspects of ground behaviour at the site.

Current regulations and good practice were used in the preparation of this report.

If the term "competent person" is used in this report or any Soils Limited document, it means an engineering geologist or civil engineer with a minimum of three years post graduate experience in the understanding and application of the appropriate codes of practice.

This report is a Factual Report and is not a Ground Investigation Report as defined by EC7 (Eurocode 7 Part 1, §3.4, Part 2, §6.1) or a Geotechnical Design Report (Eurocode 7 Part 1, §2.8) as defined by Eurocode 7 and as such may not characterise the ground conditions and additional works may be required to comply with the requirements of EC7.

Within the report reference to ground level relates to the site level at the time of the investigation, unless otherwise stated.

Exploratory hole is a generic term used to describe a method of direct investigation. The term trial pit, borehole or window sample borehole implies the specific technique used to

produce an exploratory hole.

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Section I Introduction

I.1 Objective of Investigation

The Client commissioned Soils Limited to undertake an intrusive ground investigation and to prepare a Factual Report to supply the Client and their designers with information regarding ground conditions onsite.

The investigation was to be undertaken to provide data for the proposed residential development. The investigation was to be made by means of in-situ exploration and soil logging, and groundwater monitoring within the exploratory holes.

No preliminary investigation or interpretive reporting was commissioned as part of this investigation.

I.2 Site Description

The site comprised a polygon approximately 200m long by 45m wide running in an east-west orientation to the north of Stopham Road. The site was bordered to the west and north by an agricultural crop field, to the east by houses with private gardens, and to the south by Stopham Road. The site was predominantly covered with low shrubs and weeds, and was undulating from east to west, and sloped down to the south around 6 °.

The site location plan is given in Figure 1. An aerial photograph of the site and its close environs has been included in Figure 2.

I.3 Proposed Development

No proposed plans have been provided to Soils Limited at the time of report writing.

I.4 Anticipated Geology

The 1:50,000 BGS map showed the site to be located directly upon the bedrock Folkestone Formation with overlying superficial deposits of Head on the easternmost area of the site.

I.4.1 Head Deposits

Head Deposit are drifts produced by solifluxion, the downslope movement of debris outwash during the periglacial period, and characteristically comprise poorly sorted sands gravels and chalk of local derivation.

I.4.2 Folkestone Formation

The Folkestone Formation comprises poorly consolidated sands with seams of rounded gravel and clay, and bands and discrete boulders of hard ferruginous sandstone known as 'Carstone'. The sands are generally stained yellow to reddish brown although clean white sands also occur and are usually of a fine to medium grain size. Other rock types can occur locally, particularly close to the boundary with the Gault Clay. This can be observed in the Sevenoaks areas where a hard green chert (Ightham Stone) and brown sandstone (Oldbury Stone) are found at the junction.

Section 2 Site Works

2.1 Proposed Project Works

The proposed intrusive investigation was designed to provide information the ground conditions to aid the development of the site.

The intrusive investigation was to include:

- Service cleared using non-intrusive equipment
- 4No (up to) 4m windowless sampler boreholes;
- 4No. (up to) 4m monitoring wells;
- 4No. monthly groundwater monitoring visits

2.1.1 Actual Project Works

The actual project works were undertaken on 26th January 2023, with subsequent sample logging, monitoring, and reporting. The actual works comprised:

- Service cleared using non-intrusive equipment
- 4No 4m windowless sampler boreholes at depths ranging from 3.30 – 4.00m bgl;
- 4No. 4m monitoring wells;
- 4No. groundwater monitoring visits

WS1 – WS4 were backfilled with bentonite and gravel after excavation after the installation of groundwater monitoring wells and fitted with a flush cover for security.

All exploratory hole locations are presented in Figure 3.

2.2 Service Clearance

Each exploratory hole location was service cleared using non-intrusive equipment including, radio detection locators (CAT) and ground penetrating radar (GPR). Visual observation was used to identify surface furniture/features and a combination of methods for locating buried services including, electromagnetic locator, direct connection/tracer cable, sonde, and induction.

2.3 Ground Conditions

All exploratory holes were undertaken at locations selected by Soils Limited using a site plan provided by the Client.

The maximum depths of exploratory holes have been included in Table 2.1.

All exploratory holes were scanned with a CAT and GENNY prior to excavation to ensure the health and safety of the operatives.

Table 2.1 Final Depth of Exploratory Holes

Exploratory Hole	Depth (m bgl)
WS1	3.40
WS2	3.80
WS3	3.30
WS4	4.00

The soil conditions encountered were recorded and soil sampling commensurate with the purposes of the investigation was carried out. The depths given on the exploratory hole logs and quoted in this report were measured from ground level.

The soils encountered from immediately below ground surface have been described in the following manner. Where the soil incorporated an organic content such as either decomposing leaf litter or roots or has been identified as part of the in-situ weathering profile, it has been described as Topsoil both on the logs and within this report. Where man has clearly either placed the soil, or the composition altered, with say greater than an estimated 5% of a non-natural constituent, it has been referred to as Made Ground both on the log and within this report.

For complete information on the ground conditions encountered see the exploratory hole logs presented in Appendix B.1. The succession of conditions encountered in the exploratory holes in descending order can be summarised as:

Made Ground/Topsoil (MG/TS)
Head (HEAD.)
Folkestone Formation (FO.)

The ground conditions encountered in the exploratory holes are summarised in **Error! Reference source not found..**

Table 2.2 Ground Conditions

Strata	Depth Encountered (m bgl)		Typical Thickness (m)	Typical Description
	Top	Bottom		
MG	0.00	0.30	0.30	Soft dark greyish brown slightly sandy gravelly CLAY. Gravel is fine to medium angular flint and tarmac fragments. Frequent organic material and rootlets (WS2 only).
TS	0.00	0.30	0.30	Soft dark brown slightly gravelly sandy CLAY/greyish brown clayey fine to medium SAND. Gravel is subangular to subrounded fine to coarse flint. Frequent to occasional rootlets.

Strata	Depth Encountered (m bgl)		Typical Thickness (m)	Typical Description
	Top	Bottom		
HEAD	0.30	2.50	1.50	Orangish brown multicoloured slightly clayey SAND AND GRAVEL. Gravel is subangular fine to coarse flint and quartzite. Sand is predominantly coarse. Rare clay and sand lenses (WS3 only). Soft orangish brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint, ironstone and sandstone (WS4 only).
FO	0.60 – 1.30	>4.00 ^{1,2}	Not proven	Orange mottled dark orange and brown SAND with rare clayey lenses over multicoloured SAND. Sand is predominantly medium to coarse. Occasional weakly cemented sandstone gravel.
Note(s): ¹ Final depth of exploratory hole. ² Base of strata not encountered. The depths given in this table are taken from the ground level on-site at the time of investigation.				

2.4 Ground Conditions Encountered in Exploratory Holes

The ground conditions encountered in exploratory holes have been described below in descending order. The engineering logs are presented in Appendix B.1.

2.4.1 Made Ground and Topsoil

Soils described as Made Ground were encountered in one out of the four exploratory holes from ground level to a depth of 0.30m bgl (WS2).

The Made Ground typically comprised soft dark greyish brown slightly sandy gravelly CLAY. Gravel is fine to medium angular flint and tarmac fragments over a band of tarmac gravel. Frequent organic material and rootlets.

Soils described as Topsoil were encountered in three exploratory holes (WS1, WS3, WS4) from ground level to a depth of 0.30m bgl.

The Topsoil comprised soft dark brown slightly gravelly sandy CLAY/greyish brown clayey fine to medium SAND. Gravel is subangular to subrounded fine to coarse flint. Frequent to occasional rootlets.

The established depth of Made Ground and Topsoil found at each exploratory hole location have been included in Table 2.3.

Table 2.3 Established Depth of Made Ground/Topsoil

Exploratory Hole	Strata	Depth (m bgl)
WS1	TS	0.30
WS2	MG	0.30
WS3	TS	0.30

Exploratory Hole	Strata	Depth (m bgl)
WS4	TS	0.30

2.4.2 Head

Soils described as Head were encountered in two exploratory holes (WS3, WS4) directly underlying Topsoil, to depths from 1.30m (WS4) to 2.50m bgl (WS3).

The Head comprised orangish brown multicoloured slightly clayey SAND and GRAVEL of subangular fine to coarse flint and quartzite. Sand is predominantly coarse. Rare clay and sand lenses (WS3 only). WS4 comprised soft orangish brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint, ironstone and sandstone.

The established depth of Head found at each exploratory hole location have been included in Table 2.4.

Table 2.4 Established Depth of Head

Exploratory Hole	Depth (m bgl)
WS1	Not encountered.
WS2	Not encountered.
WS3	2.50
WS4	1.30

2.4.3 Folkestone Formation

Soils described as Folkestone Formation were encountered in all four exploratory holes directly underlying Topsoil and Head, to depths greater than 4.00m bgl (the maximum depth of investigation).

The Folkestone Formation comprised orange mottled dark orange and brown SAND with rare clayey lenses over multicoloured SAND. Sand is predominantly medium to coarse. Occasional weakly cemented sandstone gravel.

The established depth of Folkestone Formation found at each exploratory hole location have been included in Table 2.5.

2.4.4 Table 2.5 Established Depth of Folkestone Formation

Exploratory Hole	Depth (m bgl)
WS1	3.40 ¹
WS2	3.80 ¹
WS3	3.30 ¹
WS4	4.00 ¹

Note(s): ¹ Final depth of exploratory hole.

2.5 Roots

Roots were encountered in each of the four exploratory holes at depths ranging between

0.50 and 1.20m bgl. The established depth of root penetration found at the exploratory hole locations has been included in Table 2.6.

Table 2.6 Established Depth of Root Penetration

Exploratory Hole	Depth (m bgl)
WS1	1.20
WS2	0.50
WS3	0.50
WS4	2.00

Roots may be found to greater depth at other locations on the site particularly close to trees and/or trees that have been removed both within the site and its close environs.

It must be emphasised that the probability of determining the maximum depth of roots from a narrow diameter borehole is low. A direct observation such as from within a trial pit is necessary to gain a better indication of the maximum root depth.

Section 3 Groundwater Monitoring

3.1 Groundwater

Groundwater was not observed within any of the exploratory holes during siteworks, with all locations remaining dry during excavation. A summary of groundwater observations made during drilling/excavation are presented in Table 3.1.

Table 3.1 Groundwater Observations

Exploratory Hole	Strike Depth (m bgl)	Remarks
WS1	None	No groundwater encountered.
WS2	None	No groundwater encountered.
WS3	None	No groundwater encountered.
WS4	None	No groundwater encountered.

33mm diameter standpipes were installed into all four of the exploratory holes as outlined in Table 3.2.

Table 3.2 Monitoring Standpipe Details

Hole No.	Internal Diameter (mm)	Final Depth (m bgl)
WS1	33	3.40
WS2	33	3.80
WS3	33	4.00 ¹
WS4	33	4.00

Notes: ¹ Pushed down through base depth of trial hole.

The ground investigation included 4No. of groundwater monitoring visits. The groundwater observations undertaken have been presented below in Table 3.3.

Table 3.3 Groundwater Monitoring

Hole No.	Depth to Water (m bgl)				
	26/01/2023 *	08/03/2023	24/03/2023	12/04/2023	12/05/2023
WS1	Dry	Dry	Dry	Dry	Dry
WS2	Dry	Dry	Dry	Dry	No reading. ²
WS3	Dry	Dry	Dry	Dry	Dry
WS4	Dry	Dry	Dry	3.60 ¹	No reading. ²

Notes: * Date of installation. ¹ Damp at base of trial hole, anticipated condensation within pipe. ² Monitoring well not possible to locate following extensive site strip, assumed to be destroyed.

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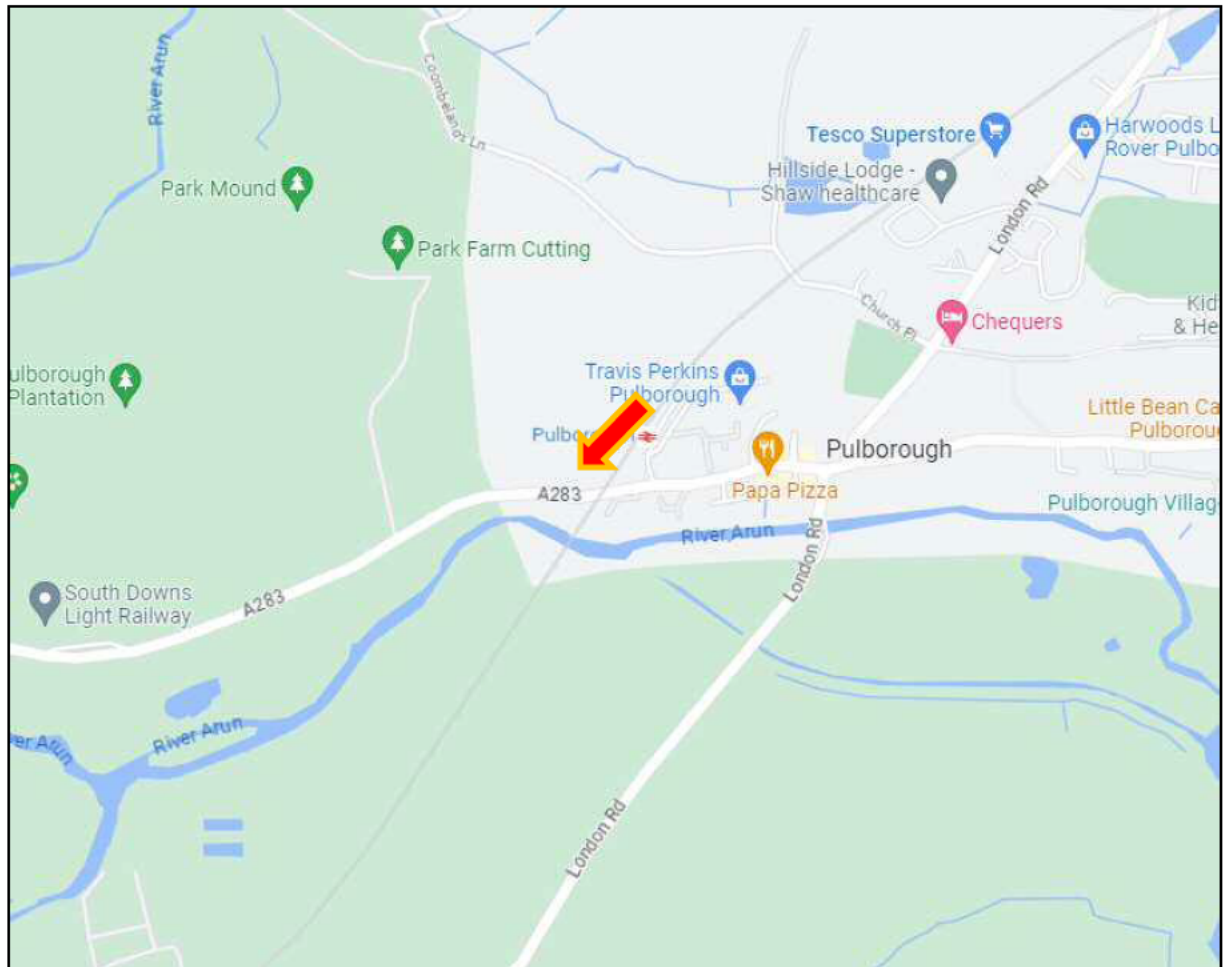
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Appendix A Standards and Resources

Appendix B Site Works

Appendix B.1 Exploratory Hole Logs

**Figure 1 – Site Location Map**

Job Number
20689

Project
Stopham Road, Pulborough, West Sussex, RH20
IDP

Client
Stonewater Developments Limited

Date
May 2023



Figure 2 – Aerial Photograph

Project

Stopham Road, Pullborough, West
Sussex, RH20 1DP

Client

Stonewater Developments Limited

Date

May 2023

Job Number

20689





Figure 3 – Exploratory Hole Plan

Project

Stopham Road, Pullborough, West Sussex, RH20 1DP

Client

Stonewater Developments Limited

Date

May 2023

Job Number

20689



Appendix A Standards and Resources

The site works, soil descriptions and geotechnical testing was undertaken in accordance with the following standards were applicable:

- BS 5930:2015 and BS EN ISO 22476-2 2005+A1:2011
- BS 5930:2015 and BS EN ISO 22476-2&3:2005+A1:2011
- BS 5930:2015 and BS EN ISO 22476-3:2005+A1:2011
- BS EN 1997-1:2004+A1:2013 Eurocode 7. Geotechnical design
- BS EN ISO 14688-1:2018 - Geotechnical investigation and testing - Identification and description
- BS EN ISO 14688-2:2018 - Geotechnical investigation and testing - Principles for a classification
- LCRM 2021 Environment Agency
- Google Earth
- British Geological Survey Website & iGeology App

Appendix B Site Works

Appendix B.1 Exploratory Hole Logs



Contract Name: Land adjacent to Stopham Road			Client: Stonewater			Hole ID: WS1
Contract Number: 20689	Start and End Date: 26/01/23	Logged By: DW	Checked By: DW	Status: FINAL	Hole Type: WS	
Easting:	Northing:	Ground Level:	Plant Used: Premier 3	Print Date: 17/05/2023	Scale: 1:50	

Weather:	Termination:	Sheet 1 of 1
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Samples & In Situ Testing			Strata Details					Groundwater	
Depth	Type	Results	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	Backfill/ Installation
				(0.30)		Greyish brown clayey fine to medium SAND. Frequent rootlets. TOPSOIL.			
				0.30					
				(0.30)		Reddish brown clayey fine to medium SAND. Occasional sub-angular to well rounded medium to coarse flint gravel. Occasional woody roots. Rare rootlets. Rare black speckles and sand sized chalk. Woody root 8mm diameter at 0.6m bgl.			
				0.60					
				(0.35)		Yellowish brown mottled multicoloured clayey fine to medium SAND. Frequent rootlets and roots.			
				0.95		Rare very sandy clay lenses. FOLKESTONE FORMATION.			
				1.20		Light yellowish brown slightly silty fine to medium SAND. Frequent roots. FOLKESTONE FORMATION.	1		
				(0.70)		Orangish brown mottled brown and dark brown, slightly clayey/silty fine to medium SAND. Fines reduce with depth. FOLKESTONE FORMATION.			
				1.90					
				(0.60)		Reddish brown mottled dark brown and orangish brown becoming black with depth, slightly gravelly fine to medium SAND. Gravel is sub-angular to sub-rounded fine to coarse weakly cemented sandstone. Becomes clayey with depth. FOLKESTONE FORMATION.	2		
				2.50					
				(0.50)		Greyish brown mottled yellowish brown and white, clayey fine to medium SAND. Occasional white clayey laminations and fine inclusions. Occasional fine lignite and coarse sand sized ferruginous nodules. FOLKESTONE FORMATION.			
				3.00					
				(0.40)		Yellow banded brown and black, slightly silty fine to medium SAND. Occasional beds of medium sand. FOLKESTONE FORMATION.	3		
				3.40					
						End of Borehole at 3.40m			
							4		
							5		
							6		
							7		
							8		
							9		
							10		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	
									Rootlets identified to 1.20m bgl.

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)						
									Rootlets identified to 0.50m bgl.					
									Water Strikes					
Chiselling					Installation				Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
From (m)	To (m)	Duration	Remarks		Top (m)	Base (m)	Type	Dia (mm)				0	0.00	No groundwater encountered.
					0.00 1.00	1.00 3.80	PLAIN SLOTTED	33 33						
Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.														

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)						
									Rootlets identified to 0.50m bgl.					
									Water Strikes					
Chiselling					Installation				Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
From (m)	To (m)	Duration	Remarks		Top (m)	Base (m)	Type	Dia (mm)				0	0.00	No groundwater encountered.
					0.00 1.00	1.00 4.00	PLAIN SLOTTED	33 33						
Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.														



Contract Name: Land adjacent to Stopham Road			Client: Stonewater			Hole ID: WS4
Contract Number: 20689	Start and End Date: 26/01/23	Logged By: DW	Checked By: DW	Status: FINAL	Hole Type: WS	
Easting:	Northing:	Ground Level:	Plant Used: Premier 3	Print Date: 17/05/2023	Scale: 1:50	

Weather:	Termination:	Sheet 1 of 1
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Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Type	Results	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
				(0.30)		Soft dark brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse flint. Occasional rootlets. TOPSOIL.		
				0.30		Soft orangish brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint, ironstone and sandstone. Ironstone and sandstone are platy. Occasional rootlets. HEAD.		
				(1.00)			1	
				1.30		Light yellowish brown mottled orangish brown slightly clayey fine to medium SAND. Frequent roots. FOLKESTONE FORMATION.		
				(0.70)				
				2.00		Orange mottled dark orange and brown SAND. Sand is predominantly medium to coarse. Rare clayey lenses. FOLKESTONE FORMATION.	2	
				(0.80)				
				2.80		Orange mottled dark orange and reddish brown SAND. Sand is predominantly medium to coarse. FOLKESTONE FORMATION.	3	
				(1.20)				
				4.00			4	
						End of Borehole at 4.00m		
							5	
							6	
							7	
							8	
							9	
							10	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:											
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Rootlets identified to 2.00m bgl.											
Chiselling					Installation				Water Strikes											
From (m)	To (m)	Duration	Remarks		Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks						
					0.00	1.00	PLAIN	33				0	0.00	No groundwater encountered.						
					1.00	4.00	SLOTTED	33												
Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.																				

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