

Our ref: JER9890

2 Callaghan Square  
Cardiff  
CF10 5AZ  
T +44 2920 668 662

Date: 02 June 2023

Abley Letchford Partnership  
3 Tealgate  
Charnham Park  
Hungerford  
RG17 0YT

Dear Leigh,

## **GROUND INVESTIGATION AND GROUNDWATER LEVEL MONITORING – FACTUAL REPORT**

### **Land South of the M4, Shinfield**

#### **1 INTRODUCTION**

- 1.1.1 This report, prepared by RPS Consulting Services Ltd (RPS), presents the findings of the recent ground investigation and subsequent groundwater level monitoring undertaken at Land South of the M4, Shinfield, herein referred to as the Assessment Site.
- 1.1.2 It is understood that the feasibility of an infiltration-based drainage scheme is being explored at the Assessment Site, and therefore ground investigation is required to establish ground conditions and groundwater levels across the Assessment Site.
- 1.1.3 RPS was commissioned by Abley Letchford Partnership (ALP), on behalf of their Client, the University of Reading, to undertake ground investigation works to enable groundwater level monitoring to be carried out at the Assessment Site. This would provide an understanding of groundwater levels in the shallow deposits underlying the Assessment Site for consideration within the drainage assessment and determine the feasibility of soakaways as a method for surface water drainage.
- 1.1.4 The above works are required to support a planning application for a mixed-use development comprising commercial units in the north, an eco-park in the central region, and circa 4,500 residential units in the south, of the Assessment Site.
- 1.1.5 The Assessment Site can be seen in the Client provided Site Plan, *Hall Farm Surface Water Strategy* (Reference: A392-D24, dated June 2022) found in Enclosure A, which indicates the proposed surface water drainage features and development parcels.

#### **Background**

- 1.1.6 Previous reports pertaining to the Assessment Site have been submitted as part of various planning applications including the following report:

- WSP, Thames Valley Science Park, Ground Investigation Report, 2015.

1.1.7 This investigation included a number of infiltration tests undertaken within the London Clay Formation which was subsequently assessed as being an unsuitable stratum for viable soakaway drainage. Further pits were excavated within overlying superficial deposits (brickearth) around Shinfield Studios for the purpose of conducting infiltrations tests however the results were not provided.

1.1.8 Additionally, a detailed ground investigation has been undertaken by Enzygo covering an area of circa 29 hectares in the northeast of the site. This ground investigation comprised advancement of a large number of boreholes across the site within the River Terrace Deposits and London Clay. It is noted that the BGS records indicate that the majority does not have superficial deposits, with London Clay bedrock present at the surface. Circa 10 groundwater monitoring installations were installed as part of the investigation with groundwater levels being monitored on three occasions. Groundwater levels ranged between absent to 4.63 m below ground level. The report concluded that soakaways would not be viable based on the low permeability of the underlying strata. This was not demonstrated through infiltration testing.

## Site Setting

1.1.9 The Assessment Site currently comprises predominantly undeveloped fields with a number of properties, farms, industrial and an agricultural research/educational facility. The location and boundary of the Assessment Site can be seen in the Client provided drawing in Enclosure A.

1.1.10 According to the British Geological Survey (BGS) web viewer the Assessment Site is underlain by variables assemblages of superficial deposits (where present) including River Terrace Deposits and Alluvium. The underlying bedrock comprises the London Clay Formation.

1.1.11 The Environment Agency classifies the superficial River Terrace Deposits and Alluvium as a Secondary A aquifer, and the underlying London Clay Formation as an unproductive aquifer. The Assessment Site is located in a groundwater Source Protection Zone (SPZ) for a public water supply. According to the site plan found in Enclosure A, plots 7 to 13 are located within the SPZ.

## 2 GROUND INVESTIGATION

2.1.1 The site works were undertaken between the 28<sup>th</sup> of November 2022 to the 2<sup>nd</sup> of December 2022 and comprised the advancement of 15 windowless sampler boreholes, across the Assessment Site using a tracked window sampling rig. An RPS Geo-Environmental Consultant was present on site for the duration of the works to log ground conditions in general accordance with BS5930. In addition, whilst onsite the consultant was able to undertake an initial round of groundwater monitoring immediately following the ground investigation works.

## Site Works

2.1.2 Boreholes were located in 12 areas, representing the proposed development parcels making up the Assessment Site as follows:

- 11 boreholes targeted the superficial deposits
- 4 boreholes targeted the London Clay Formation (where it was anticipated to be at surface).

2.1.3 It was initially proposed to advance 17 boreholes across the Assessment Site, however boreholes WS14 and WS15 were not ultimately drilled due to waterlogged fields and access tracks following heavy rain. It was therefore agreed whilst onsite that these positions would be removed from the scope of works. In addition, borehole WS16 was originally positioned in parcel 12 however due to the waterlogged conditions this position was moved to the southwest, adjacent to the northern boundary of parcel 10. The location of each borehole are shown on the drawing in Enclosure A.

## OUR REF: JER9890

- 2.1.4 Boreholes were advanced to depths of between 1.30 metres below ground level (mbgl) and 4.00 mbgl. Ground conditions were logged by RPS in general accordance with BS5930:2015, with observations of the interface between superficial deposits and the underlying London Clay Formation, any cohesive horizons within the superficial deposits, and any water strikes recorded. Windowless sample logs are presented in Enclosure B.
- 2.1.5 Groundwater monitoring standpipes were installed at each location and the details provided on the windowless sample logs presented in Enclosure B.

### Encountered Ground Conditions

- 2.1.6 Ground conditions encountered during the ground investigation works were generally consistent with that anticipated from the available BGS records. Detailed description of the strata encountered during the ground investigation is provided in the exploratory hole logs in Enclosure B.

#### Topsoil

- 2.1.7 A layer of topsoil was encountered in all locations from ground level to a maximum recorded depth of 0.55 mbgl (WS02). Topsoil was generally encountered as soft and soft to firm, brown and dark brown silty clay with variable sand and gravel content.

#### Made Ground

- 2.1.8 Made ground was encountered at WS05, and comprised a dark brown slightly gravelly clayey silt with rare gravel sized fragments of brick. Given that the borehole was located in an agricultural field, these ground conditions are likely indicative of disturbed ground as a result of ploughing and other agricultural activities.

#### River Terrace Deposits

- 2.1.9 River Terrace Deposits (RTD) were encountered at all exploratory hole positions with the exception of WS06, and WS09.
- 2.1.10 RTD were fully penetrated at WS01 to WS03, WS05, WS08, WS10, WS12, WS13, WS16 and WS17, to a maximum depth of 3.15 mbgl at WS01. Thicknesses at these locations ranged between 0.25 m at WS17 and 2.8 m at WS01, however generally ranging between 1 m and 2 m.
- 2.1.11 At locations WS2 to WS5, WS7, WS8, WS10, WS11, WS13, and WS16, RTD were generally encountered as predominantly granular with variable clay content, however locally cohesive deposits were encountered within the granular RTD. The granular RTD was encountered as orangish brown, grey, and brown sandy gravel and gravelly sand with variable clay and silt content.
- 2.1.12 At WS01 the RTD were predominantly cohesive with a small band of clayey sand between 1.8 and 2.1 mbgl. A thin layer of cohesive RTD were also encountered at WS17, at a thickness of 0.25 m. The cohesive RTD was generally encountered as a soft, soft to firm and firm, orangish brown mottled grey sandy clay with some gravel content.
- 2.1.13 WS04, WS07, and WS11 did not fully penetrate the RTD into the underlying London Clay Formation, with WS04 and WS07 terminated at 2.8 mbgl and 1.3 mbgl respectively due to hard ground, and WS11 terminated at the target depth.

#### London Clay Formation

- 2.1.14 The London Clay Formation was encountered at all exploratory hole positions except for WS04, WS07, and WS11 which were terminated within RTD.
- 2.1.15 Boreholes WS06, and WS09 were advanced directly into the London Clay Formation, with no superficial deposits encountered.

2.1.16 The London Clay Formation was generally encountered as firm and firm to stiff, however was encountered locally soft to firm, and becoming stiff or very stiff with depth. The strata were encountered as brown mottled grey, grey mottled brown and grey clay and silty clay with variable sand content.

### Encountered Groundwater Conditions

2.1.17 Groundwater strikes encountered during the ground investigation works are presented in Table-1 below.

2.1.18 Groundwater strikes encountered within the London Clay Formation occurred at depths where pockets of clayey sand were observed.

**Table-1: Groundwater Conditions Encountered During Ground Investigation Works**

Borehole ID	Water Strike Depth (mbgl)	Strata Encountered
WS01	No Groundwater Strike	-
WS02	1.30	River Terrace Deposits
WS03	0.50	River Terrace Deposits
WS04	1.70	River Terrace Deposits
WS05	1.20	River Terrace Deposits
WS06	1.00	London Clay Formation
WS07	0.90	River Terrace Deposits
WS08	1.60	River Terrace Deposits
WS09	1.70	London Clay Formation
WS10	1.00	River Terrace Deposits
WS11	1.30	River Terrace Deposits
WS12	No Groundwater Strike	-
WS13	1.40	River Terrace Deposits
WS16	1.60	River Terrace Deposits
WS17	No Groundwater Strike	-

## 3 GROUNDWATER LEVEL MONITORING SUMMARY

3.1.1 Monthly groundwater level monitoring has been undertaken at the 15 boreholes installed across the Assessment Site since December 2022 for a period of six months, until May 2023. The groundwater level monitoring results are presented in Table-2. The full groundwater level monitoring data for the 6 month monitoring period can be found in Enclosure C.

3.1.2 Initially deeper groundwater levels were recorded during the first monitoring round however this round was carried out immediately after the completion of the ground investigation works.

3.1.3 Generally, groundwater levels at all monitoring locations, installed in both the River Terrace Deposits and London Clay Formation, have been shown to be between 0.50 m and 1.0 mbgl. Slightly deeper groundwater levels have been recorded at WS04, which have ranged between 1.04 mbgl and 1.74 mbgl.

3.1.4 Shallow groundwater levels of 0.30 mbgl or less have been recorded at WS03, WS05, WS06, WS08, WS09, with groundwater levels recorded at ground surface (0.0 mbgl) at WS05 and WS03 in February 2023 and March 2023 respectively.

3.1.5 Groundwater level was not recorded at WS11 in March 2023 as ploughing of the adjacent field had spread soil across the monitoring well which meant it could not be located on that occasion.

**OUR REF: JER9890**

- 3.1.6 Three rounds of data are available for WS17 due to restricted farm access due to road closures during wet weather, and standing water above the surface of the borehole cover caused by waterlogged ground.
- 3.1.7 No visual or olfactory evidence of contamination to groundwater was observed during the monitoring period

Table-2: Groundwater Level Monitoring Data

Borehole ID	Depth to Base of Borehole (mbgl)	Response Zone (m)	Strata	Groundwater Level (mbgl)					
				Round 1 (December 2022)	Round 2 (January 2023)	Round 3 (February 2023)	Round 4 (March 2023)	Round 5 (April 2023)	Round 6 (May 2023)
WS01	3.98	1.00 – 4.00	River Terrace Deposits	1.05	0.40	1.16	0.75	0.76	0.75
WS02	2.99	0.50 – 3.00	River Terrace Deposits	0.97	0.83	0.98	0.92	0.98	0.93
WS03	1.71	0.50 – 2.40	River Terrace Deposits	0.49	0.12	0.10	0.00	0.33	0.42
WS04	2.31	1.00 – 2.60	River Terrace Deposits	1.74	1.04	1.58	1.65	1.38	1.60
WS05	3.01	0.50 – 3.00	River Terrace Deposits	0.87	0.87	0.00	0.25	0.37	0.20
WS06	3.02	1.00 – 3.00	London Clay Formation	2.19	0.15	0.45	0.68	0.54	0.56
WS07	1.08	0.50 – 1.00	River Terrace Deposits	0.82	0.46	0.56	0.67	0.83	0.89
WS08	2.01	1.00 – 2.70	River Terrace Deposits	0.79	0.20	0.25	0.54	0.32	0.82
WS09	2.53	1.00 – 3.00	London Clay Formation	0.93	0.25	0.29	0.67	0.72	0.55
WS10	1.00	0.50 – 1.20	River Terrace Deposits	0.84	0.69	0.85	0.91	0.88	DRY
WS11	2.62	1.00 – 3.00	River Terrace Deposits	0.91	0.49	1.06	-	0.98	0.79
WS12	3.09	1.00 – 3.00	River Terrace Deposits	DRY	2.81	2.24	1.14	1.42	0.89
WS13	1.68	0.50 – 1.70	River Terrace Deposits	1.44	1.14	1.27	1.11	1.49	1.15
WS16	2.29	1.00 – 2.30	River Terrace Deposits	1.68	0.75	0.92	0.91	0.97	0.94
WS17	3.00	0.50 – 3.00	London Clay Formation	0.62	0.51	-	-	0.87	-

Yours sincerely,  
for RPS Consulting Services Ltd

**Owen Davies BSc MSc FGS**

Geo-Environmental Consultant

[owen.davies@rpsgroup.com](mailto:owen.davies@rpsgroup.com)

+442920550687

## **ENCLOSURES**

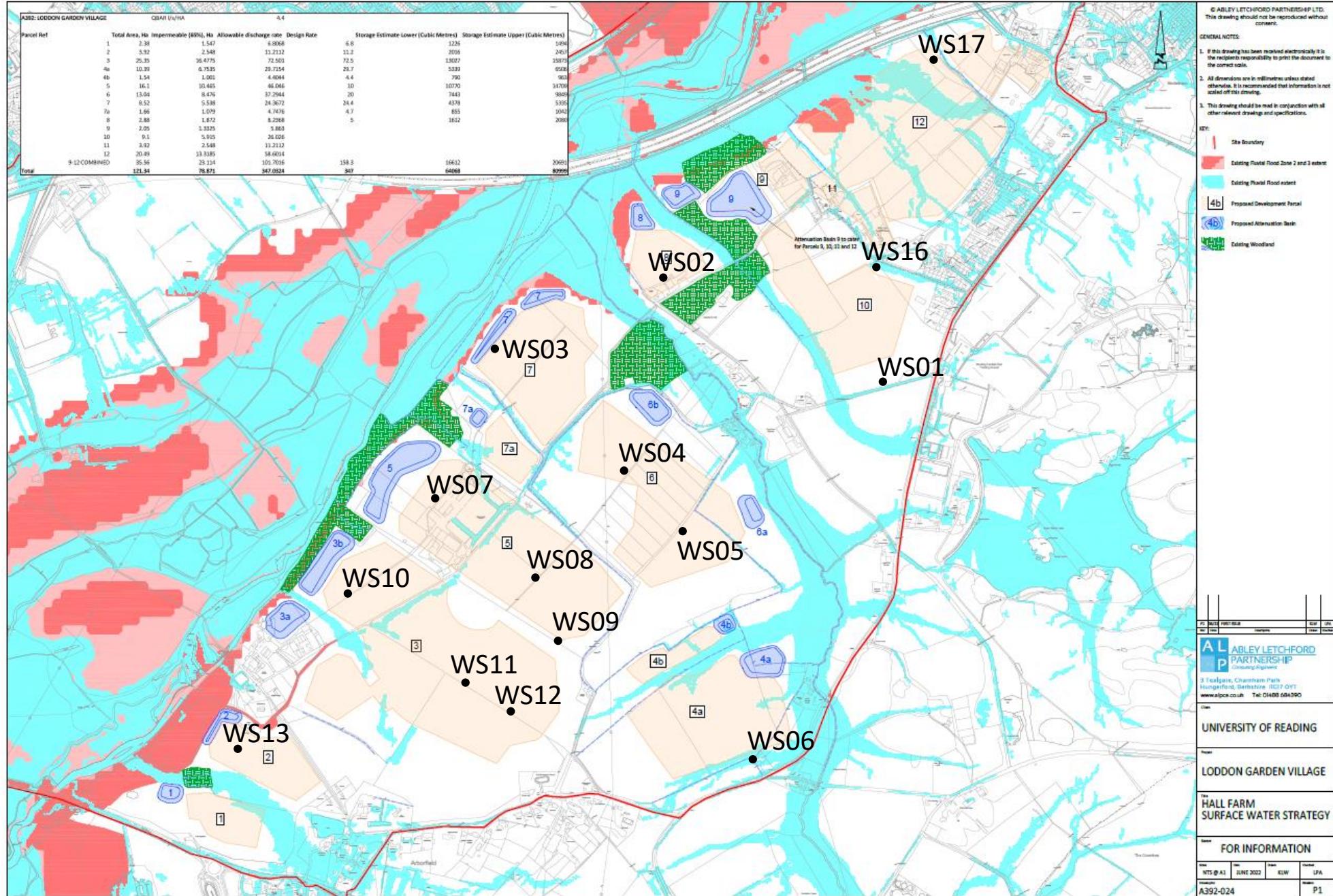
Enclosure A Exploratory Hole Plan

Enclosure B Windowless Sample Logs

Enclosure C Groundwater Level Monitoring Results

**Enclosure A**  
**Exploratory Hole Plan**





**Enclosure B**  
**Windowless Sample Logs**









Contract Name:  
Land South of A4 ALP

Client: Abley Letchford Partnership

Borehole ID:  
WS03  
Sheet 1 of 1

Sheet 1 of 1

## Windowless Borehole Log

Easting:

890

e:

End Date:

Abley Letchford Partnership

FINAL

FINAL

and By:

Sheet 1 of 1

10 of 10

150

## Windowless Borehole Log

Easting:

North

2

## Plant Us

1:

Entered By:

Scale:

Weather:

Termination: Target depth achieved.

Start & End of Shift Observations					Installation					Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Ref	Top (m)	Base (m)	Type	Diameter (mm)					
					1	0.00	0.50	PLAIN	50					
					1	0.50	2.40	SLOTTED	50					
Windowless Sample Run Details					Casing					Water Strikes				
Test Number	Diameter (mm)	Depth Top (m)	Depth Base (m)	Recovery (%)	Depth (m)	Diameter (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks		
							0.50			0		Groundwater encountered at 0.5 m bgl.		
							RPS	WLS Template	Issue Number: 2	Issue Date: 02/01/2018				









Contract Name:  
Land South of A4 ALP

Client: Abley Letchford Partnership

Borehole ID:  
WS07

Sheet 1 of 1

## Windowless Borehole Log

Group:

level: Plant Use

Logged In:

2

## Weather:

1

### Section: Refusal at 1.3

90

## ANSWER

1

10 of 10

## Weather:

termination. Refocal at 1.0 m bgl.

1:50

Start & End of Shift Observations					Installation					Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Ref	Top (m)	Base (m)	Type	Diameter (mm)					
					1	0.00	0.50	PLAIN	50	Groundwater encountered at 0.90 m bgl.				
					1	0.50	1.00	SLOTTED	50	Hole collapsed back to 1.0 m bgl.				
Windowless Sample Run Details					Casing					Water Strikes				
Test Number	Diameter (mm)	Depth Top (m)	Depth Base (m)	Recovery (%)	Depth (m)	Diameter (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks		
							0.90			0		Groundwater encountered at 0.90 m bgl.		
							RPS	WLS Template	Issue Number:	2	Issue Date:	02/01/2018		



		Contract Name: Land South of A4 ALP				Client: Abley Letchford Partnership			Borehole ID: WS09  Sheet 1 of 1					
		Contract Number: JER9890	Start Date: 29/11/2022	End Date: 29/11/2022	Checked By:	Status: FINAL								
Windowless Borehole Log		Easting:	Northing:	Ground Level:	Plant Used:	Logged By: OD	Scale: 1:50							
Weather:		Termination: Target depth achieved.												
Samples & In Situ Testing				Strata Details					Groundwater					
Depths	Type/ Ref	SPT	Testing	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description			Water Strike	Backfill/ Installation			
							Grass over soft dark brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded flint. <b>TOPSOIL</b> Soft locally soft to firm brown slightly mottled grey slightly sandy silty CLAY. Sand is fine to medium. Rare fragments of fine subangular gravel. <b>LONDON CLAY FORMATION</b>							
					(0.40)					1				
					0.40									
					(0.90)									
					1.30									
					(0.80)		Firm brown mottled grey slightly sandy silty CLAY, with small pockets of clayey fine sand. Sand is fine to medium. <b>LONDON CLAY FORMATION</b> <i>1.30 - 1.40 m Small pocket of brown clayey fine to coarse sand.</i>							
					2.10					2				
					2.25		Yellowish brown clayey SAND. Sand is fine to coarse. <b>LONDON CLAY FORMATION</b>							
					(0.75)		Firm to stiff greyish brown mottled grey slightly sandy silty CLAY. Sand is fine to medium. <b>LONDON CLAY FORMATION</b> <i>2.80- 3.00 m Stiff</i>							
					3.00		End of Borehole at 3.00m			3				
										4				
										5				
										6				
										7				
										8				
										9				
										10				
Start & End of Shift Observations				Installation					Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Ref	Top (m)	Base (m)	Type	Diameter (mm)	Groundwater encountered at 1.7 m bgl.				
					1	0.00	1.00	PLAIN	50					
					1	1.00	3.00	SLOTTED	50					
Windowless Sample Run Details					Casing					Water Strikes				
Test Number	Diameter (mm)	Depth Top (m)	Depth Base (m)	Recovery (%)	Depth (m)	Diameter (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks		
							1.70			0		Groundwater encountered at 1.7 m bgl.		
RPS WLS Template   Issue Number: 2   Issue Date: 02/01/2018														







	Contract Name: Land South of A4 ALP				Client: Abley Letchford Partnership				Borehole ID: <b>WS13</b> Sheet 1 of 1				
	Contract Number: JER9890	Start Date: 30/11/2022	End Date: 30/11/2022	Checked By:	Status: FINAL								
Windowless Borehole Log		Easting:	Northing:	Ground Level:	Plant Used:	Logged By: OD	Scale: 1:50						
Weather:		Termination: Target depth achieved.											
Samples & In Situ Testing				Strata Details					Groundwater				
Depths	Type/ Ref	SPT	Testing	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description			Water Strike	Backfill/ Installation		
							Soft brown slightly sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravel is fine to coarse, rounded to subangular flint. <b>TOPSOIL</b> Brown clayey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, subrounded to angular, flint. <b>RIVER TERRACE DEPOSITS</b> Orangish brown silty sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, subangular to rounded, flint. <b>RIVER TERRACE DEPOSITS</b>						
				(0.45)	0.45					1			
				0.70						2			
				(1.10)						3			
				1.80						4			
				(0.50)						5			
				2.30						6			
				(0.70)						7			
				3.00			End of Borehole at 3.00m			8			
										9			
										10			
Start & End of Shift Observations				Installation					Remarks: Groundwater encountered at 1.4 m bgl. Hole collapsed back to 1.75 m bgl.				
Date	Time	Depth (m)	Casing (m)	Water (m)	Ref	Top (m)	Base (m)	Type					Diameter (mm)
					1 1	0.00 0.50	0.50 1.70	PLAIN SLOTTED	50 50				
Windowless Sample Run Details					Casing					Water Strikes			
Test Number	Diameter (mm)	Depth Top (m)	Depth Base (m)	Recovery (%)	Depth (m)	Diameter (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks	
							1.40			0		Groundwater encountered at 1.4 m bgl.	
RPS WLS Template    Issue Number: 2    Issue Date: 02/01/2018													





Contract Name:  
Land South of A4 ALP

Client: Abley Letchford Partnership

Borehole ID:  
WS17

Sheet 1 of 1

## Windowless Borehole Log

Group:

level: Plant Us

id: Logged By

By:

### Weather:

1

#### Location: Target depth

reved

100

111

## Weather:

termination: target depth achieved.

1:50

Start & End of Shift Observations					Installation					Remarks:									
Date	Time	Depth (m)	Casing (m)	Water (m)	Ref	Top (m)	Base (m)	Type	Diameter (mm)										
					1	0.00	0.50	PLAIN	50										
					1	0.50	3.00	SLOTTED	50										
Windowless Sample Run Details							Casing												
Test Number	Diameter (mm)	Depth Top (m)	Depth Base (m)	Recovery (%)			Depth (m)	Diameter (mm)	Water Strikes										
									Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks					
									RPS	WLS Template	Issue Number: 2	Issue Date: 02/01/2018							

**Enclosure C**  
**Groundwater Level Monitoring Results**



Location ID	Date	Groundwater monitoring		Install Depth (mbGL)	Additional notes / Comments
		WDEP	m below ground level		
		m below ground level	m below ground level		
WS01	02/12/2022	1.05	3.98	4.00	Dip
WS02	02/12/2022	0.97	2.99	3.00	Dip
WS03	02/12/2022	0.49	1.71	3.00	Dip, Silty/greyish brown Water
WS04	02/12/2022	1.74	2.31	2.80	Dip
WS05	02/12/2022	0.87	3.01	3.00	Dip
WS06	02/12/2022	2.19	3.02	3.00	Dip
WS07	02/12/2022	0.82	1.08	1.30	Dip
WS08	02/12/2022	0.79	2.01	3.00	Dip
WS09	02/12/2022	0.93	2.53	3.00	Dip
WS10	02/12/2022	0.84	1.00	3.00	Dip
WS11	02/12/2022	0.91	2.62	3.00	Dip
WS12	02/12/2022		3.09	3.00	Dip, Dry
WS13	02/12/2022	1.44	1.68	3.00	Dip
WS16	02/12/2022	1.68	2.29	3.00	Dip
WS17	02/12/2022	0.62	3.00	3.00	Dip
WS01	17/01/2022	0.40	3.93	4.00	Dip
WS02	17/01/2022	0.83	3.00	3.00	Dip
WS03	17/01/2022	0.12	1.60	3.00	Dip, Silty Water
WS04	17/01/2022	1.04	2.28	2.80	Dip
WS05	17/01/2022	0.87	3.01	3.00	Dip
WS06	17/01/2022	0.15	2.97	3.00	Dip
WS07	17/01/2022	0.46	1.00	1.30	Dip
WS08	17/01/2022	0.20	1.93	3.00	Dip
WS09	17/01/2022	0.25	2.52	3.00	Dip
WS10	17/01/2022	0.69	1.00	3.00	Dip
WS11	17/01/2022	0.49	2.51	3.00	Dip
WS12	17/01/2022	2.81	3.09	3.00	Dip, Dry
WS13	17/01/2022	1.14	1.66	3.00	Dip
WS16	17/01/2022	0.75	2.25	3.00	Dip
WS17	17/01/2022	0.51	3.00	3.00	Dip
WS01	17/02/2023	1.16	3.99	4.00	Dip
WS02	17/02/2023	0.98	2.99	3.00	Dip
WS03	17/02/2023	0.10	1.60	3.00	Dip
WS04	17/02/2023	1.58	2.20	2.80	Dip
WS05	17/02/2023	0.00	1.65	3.00	Dip, SW Present
WS06	17/02/2023	0.45	2.97	3.00	Dip, Clear Water
WS07	17/02/2023	0.56	1.00	1.30	Dip
WS08	17/02/2023	0.25	2.01	3.00	Dip
WS09	17/02/2023	0.29	2.50	3.00	Dip
WS10	17/02/2023	0.85	0.97	3.00	Dip
WS11	17/02/2023	1.06	2.47	3.00	Dip
WS12	17/02/2023	2.24	3.10	3.00	Dip
WS13	17/02/2023	1.27	1.65	3.00	Dip
WS16	17/02/2023	0.92	2.13	3.00	Dip, Clear Water
WS17	17/02/2023			3.00	Not Accessible
WS01	17/03/2023	0.75	1.55	4.00	Dip
WS02	17/03/2023	0.92	2.95	3.00	Dip
WS03	17/03/2023	0.00	1.55	3.00	Dip
WS04	17/03/2023	1.65	2.23	2.80	Dip



Location ID	Date	Groundwater monitoring		Install Depth (mbGL)	Additional notes / Comments
		WDEP	m below ground level		
		m below ground level	m below ground level		
WS05	17/03/2023	0.25	3.03	3.00	Dip
WS06	17/03/2023	0.68	2.96	3.00	Dip
WS07	17/03/2023	0.67	0.99	1.30	Dip
WS08	17/03/2023	0.54	2.00	3.00	Dip
WS09	17/03/2023	0.67	2.87	3.00	Dip
WS10	17/03/2023	0.91	0.96	3.00	Dip
WS11	17/03/2023			3.00	Covered
WS12	17/03/2023	1.14	3.02	3.00	Dip
WS13	17/03/2023	1.11	1.64	3.00	Dip
WS16	17/03/2023	0.91	4.95	3.00	Dip
WS17	17/03/2023			3.00	Not Accessible
WS01	21/04/2023	0.76	3.96	4.00	Dip
WS02	21/04/2023	0.98	3.01	3.00	Dip
WS03	21/04/2023	0.33	1.62	3.00	Dip, Silty Water
WS04	21/04/2023	1.38	2.23	2.80	Dip
WS05	21/04/2023	0.37	3.03	3.00	Dip
WS06	21/04/2023	0.54	2.95	3.00	Dip
WS07	21/04/2023	0.83	0.99	1.30	Dip
WS08	21/04/2023	0.32	1.98	3.00	Dip
WS09	21/04/2023	0.72	2.53	3.00	Dip
WS10	21/04/2023	0.88	0.98	3.00	Dip
WS11	21/04/2023	0.98	2.46	3.00	Dip
WS12	21/04/2023	1.42	3.11	3.00	Dip, Dry
WS13	21/04/2023	1.49	1.64	3.00	Dip
WS16	21/04/2023	0.97	2.12	3.00	Dip
WS17	21/04/2023	0.87	3.00	3.00	Dip
WS01	15/05/2023	0.75	3.64	4.00	Dip
WS02	15/05/2023	0.93	2.96	3.00	Dip
WS03	15/05/2023	0.42	1.55	3.00	Dip
WS04	15/05/2023	1.60	2.20	2.80	Dip
WS05	15/05/2023	0.20	3.00	3.00	Dip
WS06	15/05/2023	0.56	2.91	3.00	Dip
WS07	15/05/2023	0.89	0.94	1.30	Dip
WS08	15/05/2023	0.82	1.93	3.00	Dip
WS09	15/05/2023	0.55	2.50	3.00	Dip
WS10	15/05/2023		1.01	3.00	Damp, Silt at Base
WS11	15/05/2023	0.79	2.55	3.00	Dip
WS12	15/05/2023	0.89	3.09	3.00	Dip
WS13	15/05/2023	1.15	1.66	3.00	Dip
WS16	15/05/2023	0.94	2.08	3.00	Dip
WS17	15/05/2023			3.00	Not Accessible