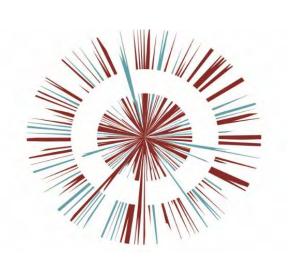


OMEGA ZONE 8, ST HELENS

Omega St Helens Ltd / T. J. Morris Limited



Ground Investigation Report & Remediation Strategy Appendix D Part 2 OPP DOC. 2.6

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD AINLEYS INDUSTRIAL ESTATE ELLAND WEST YORKSHIRE HX5 9JP SPT Hammer Ref: AR2636

Test Date: 15/02/2019

Report Date: 15/02/2019

File Name: AR2636.spt

Test Operator: CM

Instrumented Rod Data

Diameter d_r (mm): 54

Wall Thickness t_r (mm): 6.0

Assumed Modulus E_a (GPa): 208

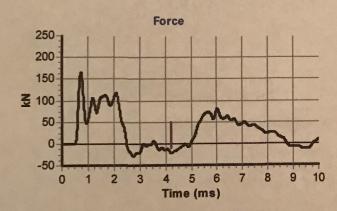
Accelerometer No.1: 7080

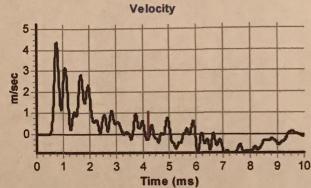
Accelerometer No.2: 11609

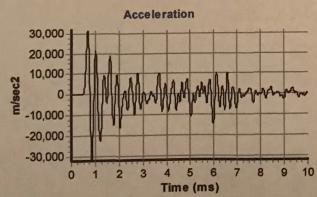
SPT Hammer Information

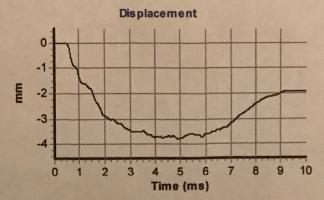
Hammer Mass m (kg): 63.5 Falling Height h (mm): 760 SPT String Length L (m): 10.0

Comments / Location









Calculations

Area of Rod A (mm2): 905 Theoretical Energy E_{theor} (J): 473 Measured Energy E_{meas} (J): 337

Energy Ratio E_r (%):

71

Title: FITTER

The recommended calibration interval is 12 months

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD AINLEYS INDUSTRIAL ESTATE ELLAND WEST YORKSHIRE

SPT Hammer Ref: 6457

Test Date:

01/08/2019

Report Date:

01/08/2019

File Name:

6457.spt

Test Operator:

JL

Instrumented Rod Data

Diameter d_r (mm):

HX5 9JP

54

Wall Thickness t_r (mm):

6.5

Assumed Modulus Ea (GPa): 208

Accelerometer No.1:

7080

Accelerometer No.2:

11609

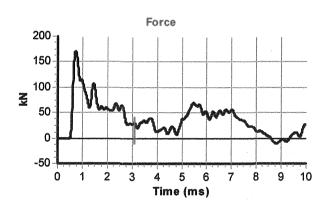
SPT Hammer Information

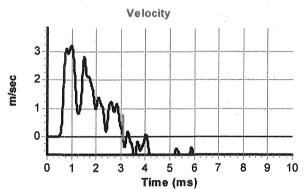
Hammer Mass m (kg): 63.5

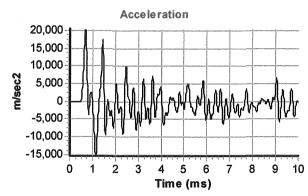
Falling Height h (mm): 760

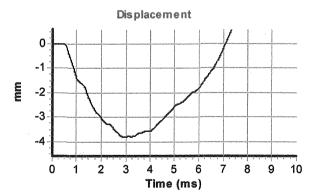
SPT String Length L (m): 10.0

Comments / Location









Calculations

Area of Rod A (mm2):

970

Theoretical Energy E_{theor} (J):

473

Measured Energy E_{meas} (J): 311

Energy Ratio E_r (%):

66

The recommended calibration interval is 12 months



APPENDIX 3

Rock Core Photographs

Project Number: PN 194027



BH8A01 13.50m to 16.50m



BH8A01 16.50m to 19.50m



Project Number: PN194027



BH8A01 19.50m to 22.50m



BH8A01 22.50m to 25.50m



Project Number: PN 194027



BH8A02 | 12.00m to 13.00m



Project Number: PN 194027



BH8A02A 14.50m to 17.50m



BH8A02A 17.50m to 20.50m



Project Number: PN194027



BH8A02A 20.50m to 23.50m



BH8A02A 23.50m to 26.50m



Project Number: PN194027



BH8A03 12.10m to 15.10m



BH8A03 15.10m to 18.10m



Project Number: PN194027



BH8A03 18.10m to 21.10m



BH8A03 21.10m to 24.10m



Project Number: PN194027



BH8A04 10.80m to 13.80m



BH8A04 13.80m to 16.80m



Project Number: PN 194027



BH8A04 16.80m to 19.80m



BH8A04 19.80m to 22.80m



Project Number: PN 194027



BH8A05 9.70m to 12.70m



BH8A05 12.70m to 15.70m



Project Number: PN 194027



BH8A05 15.70m to 18.70m



BH8A05 18.70m to 21.70m



Project Number: PN 194027



BH8A06 12.20m to 15.20m



BH8A06 15.20m to 18.20m



Project Number: PN 194027



BH8A06 18.20m to 21.20m



BH8A06 21.20m to 21.40m



Project Number: PN 194027



BH8A07 16.50m to 19.50m



BH8A07 19.50m to 22.50m



Project Number: PN 194027



BH8A07 22.50m to 25.50m



BH8A07 25.50m to 28.50m



Project Number: PN194027



BH8A08 12.50m to 15.50m



BH8A08 15.50m to 18.50m



Project Number: PN 194027



BH8A08 18.50m to 21.50m



BH8A08 21.50m to 24.50m



Project Number: PN 194027



BH8B03 8.40m to 12.40m



BH8B03 12.40m to 15.40m



Project Number: PN 194027



BH8B03 15.40m to 18.40m



BH8B03 18.40m to 20.40m



APPENDIX 4

Trial Pit Records & Substitute Borehole Records



Sample	e Types	Groundwater		Strata, Continued					
В	Bulk disturbed sample	Water Strike	∇	Mudstone					
BLK	Block sample	Depth Water Rose To	▼						
С	Core sample			6 :1	* * * * *				
D	Small disturbed sample (tub/jar)	Instrumentation	r=1	Siltstone	× × × × × × × × × × × × × × × × × × ×				
E	Environmental test sample		55	Metamorphic Rock					
ES	Environmental soil sample	Seal		Fine Grained	······································				
EW	Environmental water sample		1	Medium Grained	*********				
G	Gas sample		.		~~~				
L	Liner sample	Filter	3	Coarse Grained	$\sim\sim$				
LB	Large bulk disturbed sample		┟╻		\approx				
Р	Piston sample (PF - failed P sample)		3-	Igneous Rock					
TW	Thin walled push in sample		13	Fine Grained	7 7 7 7 7 7				
U	Open Tube - 102mm diameter with blows to	Seal	55		+ + + +				
	diameter with blows to take sample. (UF - failed U sample)			Medium Grained	++++				
UT	Thin wall open drive tube sampler - 102mm diameter	Strata	Legend	Coarse Grained					
	with blows to take sample. (UTF - failed UT sample)	Made Ground Granular		Backfill Materials					
٧	Vial sample	MIG							
W	Water sample	Made Ground Cohesive		Arisings					
#	Sample Not Recovered				8				
Insitu	Testing / Properties	Topsoil		Bentonite Seal					
CBRP	CBR using TRL probe	Califfrant Davidson	(00)						
CHP	Constant Head Permeability Test	Cobbles and Boulders		Concrete					
	Electrical conductivity	Gravel	• • •		-				
TC	Thermal Conductivity		(*)	Fine Gravel Filter					
TR	Thermal Resistivity			Time Graver Friedr					
HV	Strength from Hand Vane	Sand			-				
ICBR	CBR Test			General Fill					
IDEN	Density Test	Silt	(× ()		<u>.</u>				
IRES	Resistivity Test	Sinc .	× × × ×	Court Files					
MEX	CBR using Mexecone Probe Test		× × × }	Gravel Filter	:-				
PKR	Packer Permeability Test	Clay			2				
PLT	Plate Load Test			Grout	//				
PP	Strength from Pocket Penetrometer	Peat	SV/c						
Temp	Temperature	. • • • • • • • • • • • • • • • • • • •	7/1/2	Sand Filter	5 C.				
VHP	Variable Head Permeability Test		N/2 .		99				
VN w%	Strength from Insitu Vane Water content	Note: Composite soil type by combined symbols	es shown	Tarmacadam					
	her strengths from	Chalk	11111						
	ed triaxial testing)	Chan		Rotary Core					
S	Standard Penetration Test (SPT)			RQD Rock Quality D (% of intact cor					
С	SPT with cone	Limestone		FRACTURE INDEX Fractures/metro	е				
N	SPT Result			FRACTURE Maximum	-				
-/-	Blows/penetration (mm) after seating drive	Sandstone		SPACING (m) Minimum NI Non-intact NR No core re					
-*/- (mm)	Total blows/penetration				one of core				
()	Extrapolated value	Coal		(where core recovery is unknot assumed to be at the base of the					



Trial Pit

TP8A01 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 354685.6

Client Ground Level 26.24 m OD WSP 390775.3 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 26.24 G.L. Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and 0.00- 0.40 1 ES 0.20 0.40 25.84 0.40- 0.90 0.40 B D 2 MADE GROUND: Firm to stiff orangish brown slightly sandy gravelly clay with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz. 0.40 HV ES Av=51kPa 0.90 25.34 0.90 D ES 0.90 ΗV Av=67kPa At 0.90m, land drain encountered, running NE to SW. End of Excavation Excavation Groundwater Depth Observe Depth of Pit Plant Width (B) 8 Tonne Tracked Excavator 10/10/2019 Date Length (C) 1.00 Shoring None. Water standing at ground level. Date Backfilled 10/10/2019 Stability Stable during excavation. Remarks Trial Pit terminated at 0.90m depth on encountering a land drain.

ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Figure

Symbols and abbreviations are

explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019



Trial Pit

TP8A02 Project omega development gi Engineer Trial Pit WSP

Project No PN194027

National Grid Coordinates 354690.8 390692.8 Client WSP Ground Level 25.54 m OD

Client wsp	_			Coordinates 390692.8 N	Ground Leve		OD
Samples and	Tests	1		Strata		Scale 1	1
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 - 0.40- 1.40	B ES			Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounde fine to coarse of sandstone, siltstone, mudstone and quartz.	ed	1	25.5
0.40 0.40 0.50 -1.00	D HV ES D ES		Av=48kPa	Firm to stiff orangish brown slightly sandy gravel: CLAY with a low cobble content and rare pockets of light brown fine to coarse sand. Gravel is angula: to subrounded fine to coarse of sandstone, siltston mudstone, quartz and coal.	<u> </u>	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
1.40 1.50	HV D		Av=67kPa	End of Excavation	1.50	0.000	24.04
-							
Excavation		1		Groundwater			
Plant 8 Ton		ked Ex	cavator	Nidth (B) 0.80 Depth Depth Details			
Date 10/10 Shoring None.	/2019			9 17 2000	ountered.		
Remarks 🛄	ES samp	ole = 1	x 60ml gla	ss vial, 2 x 258ml amber glass jars.		Logged by	JN

Remarks

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1 18/12/2019



All dimensions are in metres.

Logged in accordance with BS5930:2015

Trial Pit

TP8A03 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Ground Level 24.93 m OD

Client wsp				Nat Co	tional Grid 354662 ordinates 390634	.6 E .9 N			Ground Lev	el 24.93	m OD
Samples and	Tests			Strata						Scale	
Depth	Туре	Stratum No	Results	Description					Depth	Legend	Level m OD
- 0.00- 0.40 0.20 - 0.40- 1.40 - 0.40 - 0.50 - 1.00	B ES B D HV ES D	110	Av=47kPa	with many fine to c quartz. Firm to s CLAY with light bro to subrou	r TOPSOIL: Soft be rootlets. Grave oarse of sandston tiff orangish brown a low cobble conwn fine to coarse nded fine to coar coal and occasio	l is angue, siltst wn slight tent and sand. G se of san	lar to one, multiple one, mult	subrounded udstone and dy gravelly ockets of is angular	G.L. 0.40		24.93 24.53
_ 1.40	HV		Av=63kPa		land drain encou			NE to SW.	1.50	0.0.0	23.43
1.50	D				End of E	xcavation					
Excavation						Cround	water				
Plant 8 Ton	ne Trac	ked E	kcavator	Width (B)	0.80	Ground Depth	Depth	Details			
	/2019	2		Length (Ć)	1.50	Observed	of Pit	None encount	ered.		
Stability stabl	e durin			Date Backfilled	10/10/2019						
					h running NE to S		pit ex	tended N by	400mm to	Logged by Figure	JN 1 of 1 18/12/2019

Trial Pit

TP8A04 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

National Grid Coordinates 354653.9 390595.9 Ground Level 24.23 m OD

Client	WSP				Co		0595.9 N		G	round Leve	24.23	m OD
Sample	es and	Tests			Strata						Scale	1:50
Depth		Туре	Stratum	Results	Description					Depth	Legend	Level
- 0.00- - 0.20- - 0.40- - 0.40- - 0.40- - 0.50- - 1.00-		B ES B D HV ES D	No	Av=51kPa	Crops ove with many fine to c quartz. Firm to s CLAY with light bro	rootlets. Goarse of sand tiff orangish a low cobble wn fine to co	oft brown sand bravel is angu- stone, siltst brown slight content and brown slight coarse sand. G	cly sand rare po	subangular udstone and ly gravelly ockets of is angular	G.L. 0.40	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	m OD 24.23 23.83 23.83
- -							are coal frag			-	· · · · · · · · · · · · · · · · · · ·	· · · ·
1.40 - 1.50		HV D		Av=63kPa		End	of Excavation	ı		1.50	0.0.0.0	22.73
<u> </u>												
<u>-</u>										_		
<u>-</u> -												
<u>-</u>												
[-												
<u>-</u>										-		
<u>-</u>										-		
<u>-</u>												
<u>-</u> -												
<u> </u>										-		
<u>-</u>										-		
<u>-</u> -												
<u>-</u> -										-		
<u> </u>										<u> </u>		
- -												
- -												
<u>-</u>										E		
- - -												
<u> </u>												
- - -										E		
[- -										E		
Excava	tion						Ground					
Plant Date Shoring	10/10	/2019	cked Ex	kcavator	Width (B) Length (C)	0.80 1.00	Depth Observed	Depth of Pit	Details None encounte	red.		
			ng exca	avation.	Date Backfilled	10/10/2019						
Remark	KS III	ES samp	ple = 1	1 x 60ml g	lass vial, 2 x	258ml amber	glass jars.				Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure



BOREHOLE RECORD - Cable Percussion

Properties

Sampling

Project OMEGA DEVELOPMENT GI Engineer WSP Borehole Project No PN194027

Strata

Client WSP National Grid 354756.4 E Ground Level 25.94 m OD

unping			riopei	1162		Strate	,								Scale	.50
epth	Sample Type	Depth Cased & (to Water)	Strength kPa	w %		Descrip	otion							Depth	Legend	Leve m OD
.00- 0.40	- B - ES	,				Crops	over '	TOPSOIL:	Soft d	ark bro	own sli	ghtly s	andy	_ G.L.		25.
.50- 1.20 .50	Ī			16		Firm	yellow	ish brown Gravel	mottl	ed grey	y sligh	tly gra	velly	0.40	0.00	25.
.00	- - - ES					to co	parse of	f sandsto	ne, mu	dstone	and co	al.				
.20- 1.60	-													‡		
.50 .60- 2.20 .60- 2.20	D B HV		Av=69											<u> </u>	0.000	
.00	_ D					Belov	v 2.20m	, reddish	brown	, sligh	ntly sa	ndy.		<u> </u>	0 0 0	
.20- 2.60 .20- 2.60 .50			Av=107	14				, stiff.						<u> </u>		
.60- 3.00 .80	- В - D													Ė	0.00	
	-							En	d of B	orehole	e			3.00		22.
														<u> </u>		
	Ė													<u> </u>		
	-													<u> </u>		
	<u> </u>													Ė		
	_													_		
	-													Ī		
														<u> </u>		
	<u> </u>													<u> </u>		
	E													<u> </u>		
														‡ ‡		
	E													Ė		
	<u>-</u>													E		
	E													Ė		
	-													<u> </u>		
	E													<u> </u>		
	E													Ė		
	-													<u> </u>		
ina	È				Drogra	200				Crour	odw ot o			<u> </u>		
oth Hole		Technique	e	Crew	Depth of Hole	Depth	Depth to Water	Date	Time	Depth Struck	Depth Cased		in Mine	Depth Sealed		irks on
.20		ion Pit	:	SL SL	G.L. 3.00	Cased	vvater	18/10/19 18/10/19	08:00		Cased		Mins	sealed	None encounte	dwater
0.13															22.204.10	

Remarks Inspection pit hand excavated to 1.20m depth and no services were found.

The Borehole was carried out in place of a Trial Pit due to access restrictions.

ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015

Figure 1 of 1

Scale 1:50



BOREHOLE RECORD - Cable Percussion

Project OMEGA DEVELOPMENT GI Engineer WSP Borehole Project No PN194027

Client WSP National Grid 354759.3 E Ground Level 24.02 m OD

Samplir				Drana	rtico		Ctrot	`		1 N					Level 24		
	iig	Sample	Depth	Prope Strength			Strata									Scale 1	1
Depth			Cased & (to Water)		1 W %		Descrip	otion							Depth	Legend	Level m OD
0.00- 0.25		B ES B			18		grave suba	elly sa ngular	TOPSOIL: ndy clay to subro nd brick	with munded f	any ro	otlets.	Grave	el is	G.L. 0.40	.DOOOOOOOOO.	24.02
1.00 1.20-		- ES - - - - ES - - B					grave	elly CL to med	ish brown AY. Grav	vel is	subang	ular to	subrou	inded id	-		
1.20- 1.50 1.60- 1.60-	2.20	HV D B HV D		Av=66 Av=85											-	0.000	
2.00 2.20- 2.20- 2.50 2.60-	2.60 3.00	- D - B - HV - D - B		Av=93	13		Below	w 2.40m	, reddisl	n brown	•				- - - -		
2.60- 2.80	3.00	HV D		Av=70					Ei	nd of B	orehol	e			3.00		21.02
		- - - - - - -													-		
		- - - - -													-		
		<u>-</u>															
		- - - - -													 - - -		
		- - - - - -													-		
		- - - - - -													 		
		- - - -															
		- - - - - -															
		- - - - - -															
Boring	Hole					Progre		Depth to			Grour	ndw at e	1	l in	Denth	Domo	irks on
Depth	Dia		Techniqu		Crew	of Hole		Water	Date	Time	Struck	Depth Cased	Rose to	in Mins	Depth Sealed		dwater
1.20 3.00			ion Pit ercussi		SL SL	G.L. 3.00			18/10/19 18/10/19							None encounte	ered.

Remarks

Tinspection pit hand excavated to 1.20m depth and no services were found.

The Borehole was carried out in place of a Trial Pit due to access restrictions.

Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015

Logged by MM

Figure 1 of 1 18/12/2019



BOREHOLE RECORD - Cable Percussion Engineer Borehole Project OMEGA DEVELOPMENT GI **TP8A07** Project No PN194027 National Grid Coordinates 354850.1 Client Ground Level 23.77 m OD WSP 390542.2 **Properties** Strata Sampling Scale 1:50 Sample Strength Depth Description Depth Legend Type kPa % m OD G.L. 23.77 ${\tt Grass}$ over ${\tt TOPSOIL:}$ ${\tt Soft}$ dark brown slightly sandy clay with many rootlets. 0.00- 0.40 B ES 0.25 23.37 Firm reddish brown mottled grey slightly gravelly sandy CLAY. Gravel is subangular to subrounded 0.50- 1.20 В 0.50 ES fine to coarse of sandstone, mudstone and coal. 1.00 ES 1.20- 1.60 В 14 1.50 D 14 1.60- 2.20 1.60- 2.20 HV Av=67 2.00 D 2.20- 2.60 2.20- 2.60 2.50 Below 2.40m, stiff, slightly sandy. HV Av = 772.60- 3.00 2.60- 3.00 HV Av=100 2.80 3.00 20.77 End of Borehole Boring Progress Groundwater Depth Remarks on Depth Crew Date Time Rose to Technique Mins of Hole Cased Water Struck Cased Sealed Groundwater 5 cm Dia 21/10/19 08:00 21/10/19 18:00 Inspection Pit SL G.L None 3.00 0.15 Cable Percussion SL 3.00 encountered. The Borehole was carried out in place of a Trial Pit due to access restrictions.

Inspection pit hand excavated to 1.20m depth and no services were found.

ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Backfill details from base of hole: bentonite seal up to ground level. Remarks Logged by Symbols and

abbreviations are explained on the accompanying key sheet. All dimensions

are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1 18/12/2019



Trial Pit TRIAL PIT RECORD Project omega development gi Engineer Trial Pit TP8A08 WSP Project No PN194027 National Grid Coordinates 354884.8 Client Ground Level 24.20 m OD WSP 390540.9 Scale 1:50 Samples and Tests Strata Stratum Depth Type Depth Results Description Legend m OD No 24.20 G.L. Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with many rootlets. Gravel angular to subrounded fine to coarse of sandstone, 0.00- 0.40 1 0.20 ES Gravel is 0.40 23.80 0.40- 1.00 0.40 B D siltstone, mudstone and quartz. POSSIBLE MADE GROUND: Firm to stiff orangish brown mottled grey sandy gravelly clay with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and some 2 0.40 HV Av=44kPa ES 1.00- 1.50 в 1.00 23.20 1.00 3 . 1.00 ES coal fragments. Firm to stiff brown sandy gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz 1.40 HV Av=56kPa 1.50 22.70 D 1.50 and some coal fragments. End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator Observe Date Length (Ć) 11/10/2019 1.50 Shoring None. Seepage from ground level. Date Backfilled 11/10/2019 Stability Stable during excavation. Remarks At 1.00m depth, trial pit extended southwards due to possible presence of a land drain.

Secretary At 1.00m depth, trial pit extended southwards due to possible presence of a land drain.

Secretary At 1.00m depth, trial pit extended southwards due to possible presence of a land drain. Logged by JN Symbols and Figure 1 of 1

abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019



BOREHOLE RECORD - Cable Percussion

Project OMEGA DEVELOPMENT GI Engineer Borehole **TP8A09** Project No PN194027

National Grid Coordinates 354948.4 E 390541.1 N Client Ground Level 25.33 m OD WSP

25.3 24.5		Depth	slightly sandy tlets. Gravel urse of	ank brown glid				Strat Descri			Prope Strength kPa	Depth Cased & (to Water)	Sample Type	ıng	Sampli Depth
m OD 25.3 24.5		_ G.L.	tlets. Gravel	ank brown alic			otion	Descri				Cased & (to Water)			Depth
24.5		‡	tlets. Gravel	ank brown alie											
	0 0 0	<u> </u>		h some rootled ine to coarse nts.	ay wit ular f fragme	avelly cl to subang nd brick	ntly grangular stone a	slig is a sand					B ES ES ES	0.60	0.25
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0	<u> </u>	ightly gravelly ounded fine to	r to subrounde	angula	n brown s el is sub andstone	. Grav	CLAY		17			ES B		1.00 1.20-
0.0.0						, stiff.	v 2.00m	Belo		14	Av=50 Av=72		HV D B HV D D D D D D D D D D D D D D D D D D	1.60 2.20 2.20	1.20- 1.50 1.60-
22.3	0 0 0										Av=72 Av=108			2.60 2.60 3.00 3.00	2.20- 2.50 2.60-
	0'0.0	3.00		orehole	d of R	Fit							<u> </u>		2.00
		‡		- -		21							-		
		<u> </u>											_		
1.1		<u> </u>											-		
		F											_		
		Ė l											_		
		<u> </u>											F		
		<u> </u>											-		
		 											-		
		<u> </u>											_		
		<u> </u>											-		
		<u> </u>											_		
		 											<u> </u>		
		Į											<u> </u>		
		 											-		
		Į											_		
		E											_		
		[Ę F		
		Ė											_		
		‡											-		
		<u> </u>											_		
		‡											-		
		<u> </u>											_		
		‡											-		
		F											_		
		‡											-		
		F											_		
		‡											-		
	\sqcup		ater	Groundwater	1			266	Progra						Boring
Remarks on		Depth	pth Door to in	Depth Depth	Timo	Data	Depth to	Depth	Depth	Crow	Δ	Technique		Hole	Ī
Groundwater e	Groun None		sed Mins	Struck Cased			Water	Cased						Dia	•
e ountered.						21/10/19			3.00	SL			Cable I	0.15	3.00
	1			ccess restrict]						
n		Sealed	pth sed Rose to In Mins	Struck Cased	18:00	21/10/19	Depth to Water	Depth	of Hole	Crew SL SL	:	Technique ion Pit ercussi	Inspect	Hole Dia	Boring Depth 1.20 3.00

Remarks
The Borehole was carried out in place of a Trial Pit due to access restrictions.
Inspection pit hand excavated to 1.20m depth and no services were found.

Symbols and abbreviations are

Backfill details from base of hole: bentonite seal up to ground level.

abbreviations are explained on the accompanying key sheet.

All dimensions

are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1 18/12/2019 geolectimies

MM

Logged by

BOREHOLE RECORD -Cable Percussion

Properties

Sampling

Borehole Project OMEGA DEVELOPMENT GI Engineer TP8A10 Project No PN194027

Strata

National Grid Coordinates 354947.8 390471.5 Client Ground Level m OD WSP 24.51

Depth		Sample Type	Depth Cased & (to Water)	Strength kPa	w %		Descrip	otion							Depth	Legend	Level m OD
0.25		ES							TOPSOIL:		ark bro	own sli	ghtly s	andy	G.L.		24.5
0.30- 0.50	0.70	B ES							DE GROUND			grey sl	ightly		0.30		24.2
0.70- 1.00 1.20-	1.60	- B - ES - B		J 50	15		Firm sligh subro	yellow	ish brown avelly CI fine to m	mottl	ed grey	is suba	ngular	to	0.70		23.8
1.20- 1.50 1.60- 1.60- 2.00 2.00-	2.00	_ HV _ D - B - HV - D - HV		Av=52 Av=62 Av=86			Belov	v 2.00m	, stiff,	reddis	h brown	1.					
2.20- 2.50 2.60- 2.60-	2.60	- B - D - B - HV		Av=115													
2.80		_ D							En	d of B	orehole	<u> </u>			3.00	0:0:0	21.5
		- - - - -															
		<u>-</u> -													_		
		<u>-</u> - -													<u> </u>		
		<u>-</u> -													<u></u>		
		- - - -													<u> </u>		
		<u>-</u> - - -													<u></u>		
		<u>-</u> - -													<u> </u>		
		<u> </u>													<u></u>		
		_ _ _													<u> </u>		
		_													<u>-</u>		
		_ - - -													<u> </u>		
		<u> </u>													<u></u>		
		_ - -													<u> </u>		
oring		_				Progre	ess			1	Groun	idw at e	r		<u> </u>		
Depth	Hole Dia	-	Technique	е	Crew	Depth of Hole	Depth	Depth to Water	Date	Time	Depth Struck	Depth Cased	Rose to	in Mins	Depth Sealed		rks on dwater
- 1			ion Pit		SL	G.L.			21/10/19	08.00				-		None	

Inspection pit hand excavated to 1.20m depth and no services were found ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Backfill details from base of hole: bentonite seal up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015

1 of 1 Figure 18/12/2019

Scale 1:50



TP8A11 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 354992.9

Client Ground Level 24.33 m OD WSP 390510.7 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 24.33 G.L. Grass over TOPSOIL: Soft brown slightly gravelly sandy clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and 0.00- 0.40 1 0.20 ES 0.40 23.93 0.40- 1.50 0.40 B D 0.40 HV ES Firm to stiff orangish brown sandy gravelly CLAY with a low cobble content and many pockets of silt. Gravel is angular to subrounded fine to coarse of Av=65kPa 2 0 1.00 D ES 1.00 sandstone, siltstone, mudstone, quartz and coal. Rare rootlets. 1.40 HV Av=64kPa 1.50 22.83 D End of Excavation 1.50 Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 11/10/2019 Observe Date Length (Ć) 1.00 Shoring None. Seepage from ground level. Date Backfilled 11/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and abbreviations are 1 of 1

explained on the accompanying kev sheet. All dimensions are in metres.

Figure 18/12/2019

BOREHOLE RECORD -Cable Percussion

Project OMEGA DEVELOPMENT GI Engineer Borehole TP8A12 Project No PN194027

National Grid Coordinates 354971.4 390806.5 Client Ground Level 24.22 m OD WSP

Sampling			Prope	rties	Į	Strata	3	390000.3	11					LCVCI 24	Scale 1:	
Depth	Sample Type	Depth Cased & (to Water)	Strength kPa	w %		Descrip	otion							Depth	Legend	Level m OD
0.00- 0.50 0.25 0.50- 1.20 0.50	B - B - ES - B - ES -					sligh is su mudst MADE sligh subro	ntly grubangul cone, c GROUND ntly gr	TOPSOIL: avelly cl ar to sub oncrete, : Soft da avelly cl fine to c	ay wit brounde tarmac ark bro ay. G	h some d fine adam an wn slig ravel :	rootle to coa nd bric ghtly s is suba	ts. Gr rse of k fragm andy ngular	avel ents. to	G.L. 0.50		24.22
1.20- 1.60 1.20- 1.60 1.50 1.60- 2.20 1.60- 2.20 2.00	- D - B - HV - D		Av=52 Av=70			Firm sligh	yellow ntly gr ded fin	ragments. ish brown avelly CI e to medi	mottl	ravel:	is suba	ngular	to	1.20		23.02
2.20- 2.60 2.20- 2.60 2.50 2.60- 3.00 2.60- 3.00 2.80	B HV D HV		Av=51 Av=71			Below	w 2.60m	, stiff,		h brown				3.00		21.22
	- - - - - - - -															
	- - - - - - - -													- - - - - -		
	- - - - -															
	- - - - - - -													- - - - - - - -		
	- - - - - - -													<u> </u>		
	- - - - - -															
	- - - - - -													-		
Boring Depth Hole Dia	-	Techniqu	e	Crew	Progre	Depth	Depth to Water	Date	Time	Grour Depth Struck	Depth Cased		in Mins	Depth Sealed	Remai	
1.20	Inspect Cable F	ion Pit	:	SL SL	G.L. 3.00	Caseu	vvalei	22/10/19 22/10/19	08:00		Caseu		IVIIIIS		None encounte	
Remarks 🔛	Inspect	ion pit	hand e	excava	ted to	1.20m d	lepth a	nd no ser	vices	were fo	ound.			Logo	ed by	

Remarks Inspection pit hand excavated to 1.20m depth and no services were found. Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Backfill details from base of hole: bentonite seal up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by

Figure 1 of 1 18/12/2019



MM

BOREHOLE RECORD - Cable Percussion

Project OMEGA DEVELOPMENT GI Engineer Borehole **TP8A13** Project No PN194027

National Grid Coordinates 354896.5 390722.8 Client Ground Level 25.05 m OD WSP

ng			Proper	ties	ļ	Strata	a								Scale 1	:50
	Sample Type	Depth Cased & (to Water)	Strength kPa	w %		Descrip	otion							Depth	Legend	Level m OD
0.60	- B - ES - ES - B - ES			10		slight subroand in MADE slight subroand in MADE	ntly grounded Eragmen GROUND otly grounded	avelly cl fine to c ts of bri : Soft da avelly cl fine to c	ay. Goarse ck, ta	ravel : of sand rmac an wn slig ravel :	is subadstone, nd conc ghtly s is suba	mudsto rete. andy	to ne	<u> </u>		25.0
1.60 2.20 2.20	HV D B HV D		Av=52 Av=70	17		sligh round	ntly gr ded fin	avelly CI	AY. G	ravel:	is suba	ngular	to	1.20		23.8
2.603.00	HV D B		Av=51 Av=71			Belo	v 2.70m							3.00	0.0.0	22.0
								En	d of B	orehole	e			† - - - -		
	- - - - -													<u></u>		
	- - - - - -															
	- - - - -													<u></u>		
	- - - - - -													+ - - - - -		
	- - - - -													<u>-</u> 		
	_ - - - -													<u>-</u>		
	- - - - - -													<u>+</u> - - -		
	_				Droar)CC				Grain	odw ot o	r		<u> </u>		
					Progre		Depth to	Date	Time	Depth	ndwate Depth	Rose to	in	Depth	Rema	rke on
Hole Dia		Technique	е	Crew	of Hole	Cased	Water		I IIIII E	Struck	Cased	11036 101	Mins	Sealed	0	dwater
	1.20 1.60 1.60 2.20 2.20 2.60 2.60 3.00	ES -	ES - ES - ES 1.20 - B - ES 1.60 - B 1.60 - HV - D 2.20 - B 2.20 - HV - D - D 3.00 - B 3.00 - HV	ES - ES - ES 1.20 - B - ES 1.60 - B 1.60 - HV	ES -	ES -	ES	ES	ES ES 1.20 ES 1.20 B AV=52 TO AV=70 D AV=70 D AV=71 D Below 2.70m, stiff, Below 2.70m, stiff,	Slightly gravelly clay. G subrounded fine to coarse and fragments of brick, ta MADE GROUND: Soft dark bro slightly gravelly clay. G subrounded fine to coarse and brick fragments. 1.60 B 1.60 HV Av=52 D 2.20 B 2.20 HV Av=70 D 3.00 B 3.00 HV Av=51 D Below 2.70m, stiff, reddis	Slightly gravelly clay. Gravel subrounded fine to coarse of same and fragments of brick, tarmac and mADE GROUND: Soft dark brown slightly gravelly clay. Gravel subrounded fine to coarse of same and brick fragments. 1.60 B 1.6	ES ES 1.20 ES 1.20 B Av=52 D Av=70 D 3.00 B 3.00 HV Av=71 Av=71 BS slightly gravelly clay. Gravel is subasubrounded fine to coarse of sandstone, and fragments of brick, tarmac and concumulated fragments. Slightly gravelly clay. Gravel is subasubrounded fine to coarse of sandstone, and brick fragments. Firm yellowish brown mottled grey slightly gravelly CLAY. Gravel is subarounded fine to medium of sandstone, much coal. Below 2.70m, stiff, reddish brown.	ES ES 1.20 ES 1.20 B Av=52 D 2.20 B Av=70 D 3.00 B 3.00 B 3.00 B 3.00 B Av=71 D Slightly gravelly clay. Gravel is subangular subrounded fine to coarse of sandstone, mudsto and fragments of brick, tarmac and concrete. MADE GROUND: Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular subrounded fine to coarse of sandstone, mudsto and brick fragments. Firm yellowish brown mottled grey slightly san slightly gravelly CLAY. Gravel is subangular rounded fine to medium of sandstone, mudstone coal. Below 2.70m, stiff, reddish brown. Below 2.70m, stiff, reddish brown.	Slightly gravelly clay. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and fragments of brick, tarmac and concrete. MADE GROUND: Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and brick fragments. 1.60 B 1.60 B 1.60 HV D 2.20 B 2.20 B 2.20 HV Av=70 D 3.00 B 3.00 HV Av=71 D Below 2.70m, stiff, reddish brown.	Grass over TOPSOIL: Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and fragments of brick, tarmac and concrete. MADE GROUND: Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and brick fragments. 1.60 B	Grass over TOPSOIL: Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and fragments of brick, tarmac and concrete. MADE GROUND: Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and brick fragments. 1.60 B 1.60 HV Av=52

Remarks
Inspection pit hand excavated to 1.20m depth and no services were found.
The Borehole was carried out in place of a Trial Pit due to access restrictions.

Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions Logged in accordance with BS5930:2015 are in metres.



TP8B01 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355071.8 390500.6

Client wsp			National Grid 355071.8 E Coordinates 390500.6 N	Gro	ound Leve	el 23.16 r	n OD
Samples and	Tests		Strata			Scale	1:50
Depth	Type S	Stratum No Results	Description		Depth	Legend	Level m OD
0.10- 0.40 0.10 0.20 0.40- 1.10	B D ES B HV	Av=61kPa	Rough grass over TOPSOIL: Greyish brown slightly sandy slightly gravelly SILT with many rootlets. Gravel is subangular to subrounded fine to coarse o mudstone, siltstone, limestone and quartz.	æ	G.L. 0.10 0.40		23.1 23.0 22.7
0.40 0.50 -1.00 1.10- 1.50	HV ES ES B	Av=44kPa	MADE GROUND: Greyish brown slightly gravelly SILT. Gravel is subangular to subrounded fine to coarse o mudstone, sandstone and siltstone.	£	1.10		22.0
1.10 1.10 1.50	D HV ES	Av=38kPa	MADE GROUND: Firm reddish brown slightly sandy slightly gravelly clay. Gravel is subangular fine to coarse of mudstone, sandstone and siltstone.	•	1.50	0 0 0 0 0	. 0
-			Firm reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone and limestone.	.a.	- - -		
			End of Excavation		- - -		
					- - -		
-					_ - -		
					<u>-</u> -		
-					- - -		
					· ·		
					-		
					<u>-</u> -		
					- - -		
-					- - -		
					- -		
					<u>.</u>		
					-		
					- - -		
					<u>-</u> -		
					- -		
					- - -		
					_ - -		
					-		
					- - -		
Excavation			Groundwater				
Plant 8 Tonn	ne Track	ed Excavator	Width (B) 0.80 Depth Depth Details				
Date 25/09/ Shoring None.			Length (C) 3.00 Observed of Pit None enco	untere	ed.		
Stability Stable	during	excavation.	Date Dativilled 25/09/2019				
			ass vial, 2 x 258ml amber glass jars.				

Symbols and abbreviations are explained on the accompanying key sheet.

Remarks

Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and

Backfill details from base of hole: arisings up to ground level.

All dimensions are in metres. Logged in accordance with BS5930:2015



Client

WSP

TP8B02 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355078.9 E 390574.5 N Ground Level 23.47 m OD

Client wsp	_		Coordinates 390574.5 N	Ground Leve		
Samples and	Tests		Strata		Scale 1:	
Depth	Type Stratu No		Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 0.20 0.20 0.40- 0.90	B D ES B		TOPSOIL: Soft brown slightly sandy slightly gravelly clay with a low cobble content and occasional rootlets. Gravel is angular to subrounded fine to coarse of sandstone, mudstone and limestone.	G.L.		23.47
0.50	D B		Soft to firm yellowish brown slightly gravelly sandy CLAY with a medium cobble content.	0.90	0.0.0.0.0	22.5
0.90- 1.90 0.90- 1.90 1.00 1.30	HV ES D	Av=67kPa	Firm to stiff orangish brown slightly sandy slightly gravelly CLAY with a low cobble content. Gravel is angular to subangular fine to coarse of sandstone, mudstone, limestone and coal.			
1.70	D			Ē		
-1.90- 2.90 1.90- 2.90	B HV	Av=42kPa		-		
2.30	D			<u> </u>	0 0 0 0 0	
2.70	D			3.00		20.4
_			End of Excavation			20.1
				-		
				_		
				-		
_				<u>-</u>		
				-		
_						
				-		
				<u> </u>		
_						
				<u> </u>		
-				_		
-				-		
				E		
_				<u> </u>		
Excavation			Groundwater			
Plant 8 Toni	ne Tracked	Excavator	Width (B) 0.50 Depth Depth Details			
Date 24/09 Shoring None.			Length (C) 3.00 Observed of Pit Date Backfilled 24/09/2019 None encoun	itered.		
Stability stable	e during ex	cavation.				
Remarks∎∎□	ES sample =	1 x 60ml al	ass vial, 2 x 258ml amber glass jars.		Logged by	ΓN
AGS symbols and		3 -	· · · · · · · · · · · · · · · · · · ·			of 1

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure



TP8B03 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355293.5 E 390517.2 N

Ground Level 21.72 m OD

Client	WSP				Nati Coo	onal Grid 3 rdinates 3	355293.5 390517.2	E N			Grou	and Leve	el 21.72	m O	D
Sample	es and	Tests			Strata								Scale	1:5	0
Depth		Туре	Stratum No	Results	Description							Depth	Legend		Level m OD
	0.80	B D ES B		an CEL-Da	clay with rootlets.	oft brown s a low cobbl Gravel is a sandstone,	le content angular t	t and subr	occasio ounded	fine to		G.L. 0.40			21.72
1.00		HV ES D B HV ES		Av=67kPa Av=39kPa	grey sligh cobble con to coarse	tent. Grave of sandstor	slightly of is angular mudstone, mudstone	gravel ular to one an	ly clay o subro d limes	y with a low ounded fine stone.		0.80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		20.92
1.30		D				land drain rtheast-sou		outh e	nd of t	the pit,	Æ	1.50	V	0 0	20.22
- - - -					sandy slig content. G	iff orangis htly gravel ravel is ar sandstone,	lly CLAY on ngular to	with a subro	medium unded f	n cobble Eine to					
E					At 1.40m, and gravel	occasional	pockets	of fin	e to co	parse sand	Æ				
E							d of Exca	vation			<u> </u>				
E											-				
E											-				
E											-				
											Ŀ				
E											E				
F											E				
F											F				
F											F	•			
-											E				
											E				
E											E				
F											E				
Ē											Ē				
Ė											E				
Ŀ											E				
-											F				
-											F				
Ė											E				
											E	•			
F											F				
F											F				
L											L				
Ė											F				
F											F				
Ē											Ė				
F											F				
Excava	ation			1			G	round	water						
Plant Date			cked Ex	xcavator		0.50		epth served	Depth of Pit	Details					
Shoring	None.					3.00 23/09/2019		1.40		Seepage, no	rise	· ·			
Stability	Stabl	e duri	ng exca	avation.		J, 15, 1015									
Remar	ks 😛	ES samp	ple = 1	1 x 60ml g	lass vial, 2 x		r glass j	ars.		ļ			Logged by	JN	1

Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1 18/12/2019

gadadnia gambalaga

TP8B04 Project omega development gi Engineer Trial Pit WSP Project No PN194027

355210.2

Trial Pit

National Grid Coordinates Client Ground Level 21.78 m OD WSP 390511.5 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 21.78 G.L. TOPSOIL: Soft brown slightly sandy slightly gravelly clay with a low cobble content and occasional rootlets. Gravel is angular to subrounded fine to 0.00- 0.40 0.20 ES 0.40 21.38 0.40- 1.00 0.40- 1.00 в coarse of sandstone, mudstone and limestone. ΗV Av=75kPa 0.50 Firm to stiff orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of sandstone, mudstone, ES D 1.00- 1.50 1.00 ES limestone and coal. 1.00- 1.50 1.30 HV D Av=79kPa At 0.50m, occasional pockets of fine to coarse sand. 1.50 20.28 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 23/09/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 23/09/2019 Stability Stable during excavation.

Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Figure 1 of 1 18/12/2019 ezimbelbeg

JN

Logged by

TP8B05 Project omega development gi Engineer Trial Pit WSP PN194027 Project No

National Grid Coordinates 355198.0 390550.0 Client Ground Level 22.07 m OD WSP

Client wsp			Coordinates 390550.0 N	Grou	nd Leve		OD
Samples and	Tests		Strata			Scale 1	:50
Depth		Results	Description		Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.20 - 0.40- 1.00 - 0.40- 1.00	B D ES B HV	Av=42kPa	TOPSOIL: Soft brown slightly sandy slightly grave clay with occasional rootlets. Gravel is angular subangular fine to coarse sandstone, mudstone and limestone.	d	G.L. 0.40		22.07
- 0.50 - 0.70 - 1.00- 1.50 - 1.00 - 1.00- 1.50	ES D B ES HV	Av=28kPa	Firm to stiff orangish brown mottled grey slightl gravelly sandy CLAY with a medium cobble. Gravel angular to subrounded fine to coarse of sandstone mudstone, limestone and coal.	is			2
1.30	D	IIV-Zonz u	At 1.40m, sandstone boulder.	<u> </u>	1.50	0.0.00	20.57
-			End of Excavation				
<u> </u>							
-				E F			
-				F			
<u> </u>				<u> </u>			
[
[
<u>-</u>				<u>-</u>			
-				-			
-				-			
-				-			
				<u> </u>			
_				<u> </u>			
				-			
				<u> </u>			
- -				- - -			
- - -				- - -			
-				-			
-				<u>-</u> -			
-				<u> </u>			
				- - -			
				-			
-				E E			
-				- -			
-				<u> </u>			
F				<u> </u>			
-				-			
-				<u> </u>			
Excavation			Groundwater				
Plant 8 Tonn		d Excavator	Width (B) 0.50 Depth Depth Observed of Bit Details				
Shoring None.			20.19.11 (0)	ncountered			
Stability Stable	during e	excavation.	21,00,2010				
Demonstra	'C comple	- 1 = 60m ³ =	lass vial, 2 x 258ml amber glass jars.			Logged by	JN

Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015 Logged by JN

1 of 1 18/12/2019 Figure

esimbeloeg

TP8B06 Project omega development gi Engineer Trial Pit WSP

> National Grid Coordinates 355159.0 390583.9

PN194027 Project No

Client Ground Level 22.90 m OD WSP

Client wsp				Coordinates 390583.9 N	Groun	a Leve		
Samples and	Tests			Strata			Scale 1	:50
Depth	Туре	Stratum	Results	Description	De	epth	Legend	Level
- 0.00- 0.40	В	No	results	TOPSOIL: Soft brown slightly sandy slightly gravel	_ (G.L.	Zogona	m OD 22.90
0.20 0.20 0.40-1.00 0.50	D ES B ES			clay with a low cobble content and occasional rootlets. Gravel is angular to subrounded fine to coarse of sandstone, mudstone and limestone.		0.40	· · · · · · · · · · · · · · · · · · ·	22.50
0.70 - 1.00- 1.50 - 1.00	D B ES			Firm to stiff orangish brown mottled grey slightly gravelly sandy CLAY with a medium cobble content. Gravel is angular to subangular fine to coarse of sandstone, mudstone, limestone and coal.	- - - - -		V	
1.30	D			At 0.70m, occasional pockets of fine to coarse sand	d		0. 0. 0. 0. 0. 0.	
- -				End of Excavation		1.50	00.0.	21.40
- - -					<u> </u>			
- -					<u> </u>			
-					E			
- - -					_			
-					<u> </u>			
- - -					E			
- -					þ			
- - -					Ė			
-					<u> </u>			
- - -					E			
-					<u> </u>			
- - -					E			
-					<u> </u>			
- - -					Ē			
-					-			
- - -					Ē			
-					<u> </u>			
- -					E			
- -					F			
-					E			
-					<u> </u>			
- - -					Ē			
-					-			
-					Ė			
<u> </u>					<u> </u>			
- - -					Ē			
- -					<u> </u>			
- -					Ė			
<u>-</u>					E			
- -					F			
-					E			
- -					F			
-					-			
_								
Excavation				Width (B) 0, 50 Depth Depth Details				
Date 24/09		ked Ex	cavator	Length (C) 3.00 Observed of Pit				
Shoring None.				Date Backfilled 24/09/2019 Seepage,	no rise.			
Stability Stabl	e durir	ng exca	avation.					

Remarks ES sample = $1 \times 60ml$ glass vial, $2 \times 258ml$ amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015 Logged by JN

1 of 1 18/12/2019 Figure esimbeloeg

TP8B07 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355291.0

Client Ground Level 21.93 m OD WSP 390556.3 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 21.93 G.L. Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with a low cobble content and rare rootlets. Gravel is angular to subrounded fine 0.00- 0.40 0.20 ES 0.40 21.53 0.40- 1.00 0.40- 1.00 в to coarse of sandstone and mudstone. ΗV Av=57kPa Firm to stiff orangish brown mottled grey slightly sandy slightly gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, mudstone, limestone and coal. 0.50 ES D 1.00- 1.50 1.00 ES 1.00- 1.50 1.30 HV D Av=41kPa At 0.70m, occasional pockets of fine to coarse sand. 1.50 20.43 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 23/09/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 23/09/2019 Stability Stable during excavation. JN

Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by



TP8B08 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355212.9 390654.2

Ground Level 22.54 m OD

Client WSP Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 22.54 G.L. 0.10- 0.30 0.20 0.20 TOPSOIL: Very soft dark brown slightly sandy clay with some rootlets. D ES 22.19 0.35 0.40- 0.50 0.40 MADE GROUND: Firm fissured slightly sandy slightly gravelly clay with grey silty sand on fissures. Gravel is subangular to subrounded medium to coarse of siltstone, mudstone and quartz. В HV Av=55kPa 0.50 D ES 0.80 21.74 At 0.80m, land drain. End of Excavation Excavation **Groundwater** Depth Observe Depth of Pit Plant Width (B) 8 Tonne Tracked Excavator 26/09/2019 Details Date Length (Ć) 2.60 Shoring None encountered. Date Backfilled 26/09/2019 Stability Stable during excavation. Remarks ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

The Trial Pit was terminated at a depth of 0.80m on encountering a land drain.

Symbols and Backfill details from base of hole: arisings up to ground level. Logged by NC Symbols and abbreviations are Figure 1 of 1 18/12/2019 explained on the

accompanying

kev sheet.

ezimbelbeg

TP8B08A Project omega development gi Engineer Trial Pit WSP PN194027 Project No

National Grid 355213.8 E Client

Ground Level 22 E4 m OD

Client wsp				Coordinates 390654.7 N	Ground Leve	l 22.54 m (DD
Samples and	Tests			Strata		Scale 1:	50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20	B ES			TOPSOIL: Dark brown slightly clayey fine to coarse sand with some rootlets.	G.L.		22.54
- 0.40- 1.00 - 0.40 - 0.50	B D ES			Firm reddish brown sandy CLAY with some rootlets.	- 0.40	· — · · —	22.17
0.70 -1.00-1.50 -1.00	HV B D		Av=73kPa	Firm reddish brown mottled yellow sandy slightly	1.00	7.0.0.0.0.0.0	21.54
1.00 - - 1.50 - 1.50	ES D HV		Av=70kPa	gravelly CLAY with many pockets of fine to medium sand. Gravel is angular to subrounded of sandstone and coal.	1.60		20.94
-			iiv – 7 o iii u	End of Excavation	-		20131
					- - - -		
-					-		
<u></u>					<u></u>		
<u> </u>					-		
-					- - -		
-					-		
<u> </u>					<u>-</u>		
					-		
-					- - - -		
<u>-</u> -					<u>-</u> - -		
[
-					- - -		
<u> </u>					-		
<u>-</u>					- - -		
<u> </u>					-		
Ē					- - -		
<u>-</u>					<u></u>		
<u> </u>							
<u> </u>					-		
Excavation		1	1	Groundwater		1	
Plant 8 Ton Date 26/09 Shoring None.	/2019	ked Ex		Width (B) 0.40 Depth Observed of Pit Details 1.10 Seepage,	no rise		
Stability Stabl		ng exca	avation.	Date Backfilled 26/09/2019			
						Logged by	ov.

Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by MM



TP8B09 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355300.7 WSP 390594.8

Trial Pit

Client Ground Level 21.96 m OD Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 21.96 G.L. Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with a low cobble content and occasional rootlets. Gravel is angular to subrounded 0.00- 0.50 0.20 D ES 0.40 21.56 0.50- 1.10 fine to coarse of sandstone, mudstone and limestone. 0.50 ES Stiff orangish brown mottled grey slightly sandy slightly gravelly CLAY with a medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, mudstone, limestone and coal. 0.50- 1.10 0.70 HV Av=59kPa D 1.00 ES 1.10- 1.60 в 1.10- 1.60 1.30 HV D Av=61kPa 1.60 20.36 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 23/09/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 23/09/2019 Stability Stable during excavation. ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN

Remarks AGS

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015



Trial Pit TP8B10 Project omega development gi Engineer WSP Project No PN194027

National Grid Coordinates 355385.0 390663.6 Client Ground Level 21.88 m OD WSP

Samples and	Tests			Strata		Scale 1	:50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
0.10- 0.30 0.20 0.20	B D ES	.10		TOPSOIL: Very soft dark brown slightly sandy slightly gravelly clay with some rootlets. Gravel is subangular to subrounded fine to medium of siltstone.	G.L.	∇	21.8
0.30- 0.40 0.30 0.50 0.50 1.00- 1.10 1.00	B HV D ES B D ES		Av=73kPa	Firm fissured mottled brownish grey and orange slightly sandy slightly gravelly CLAY with some decayed rootlets and grey silty sand on fissures. Gravel is subangular to subrounded fine to medium including mudstone, sandstone, quartz and coal.	- - - - - 0.95		
1.30	HV		Av=69kPa	Between 0.30-0.95m, rare lenses (up to 20mm) of sand.	<u>/</u> E	0 0 0 0 0	0
1.60	D			Firm to stiff fissured locally friable reddish brown mottled grey slightly sandy slightly gravelly CLAY with a low cobble content and grey silty sand on fissures. Gravel is angular to rounded fine to coarse of various lithologies.	1.60		20.
				Between 0.95-1.60m, some pockets (up to 50mm) of yellow silt.	Æ		
				End of Excavation	- -		
					_		
					E		
					E		
					F		
					E		
					E		
					F		
					Ė		
					Ė		
					F		
					F		
					E		
					Ė		
					E		
					F		
					Ė		
					Ė		
					E		
xcavation				Groundwater			<u> </u>

Excavation Groundwater Depth Observed Depth of Pit Plant Width (B) 8 Tonne Tracked Excavator 26/09/2019 Details Date Length (Ć) 2.50 Shoring None. 0.20 Seepage, no rise. Date Backfilled 26/09/2019 Stability Stable during excavation.

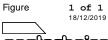
Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by NC



وعواعطسأنع

TP8B11 Project omega development gi Engineer Trial Pit WSP Project No PN194027

355159.5

National Grid Coordinates Client Ground Level 23.01 m OD WSP 390663.1 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 23.01 G.L. 0.10- 0.40 В TOPSOIL: Dark brown very clayey fine to coarse sand with some rootlets. 0.40 22.61 Firm reddish brown slightly sandy slightly gravelly CLAY with some decayed rootlets and pockets of orange fine sand (up to 50mm). Gravel is subangular to rounded fine to coarse of sandstone and coal. 0.40- 1.00 0.40 B D 0.40 HV ES Av=58kPa 1.00- 1.50 B D 1.00 Below 1.00m, low cobble content of sandstone. 1.00 ES 1.50 D 1.50 21.51 HV End of Excavation Av=52kPa 1.50 Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 25/09/2019 Details Observed Date Length (C) 3.00 Shoring None. 0.25 Seepage, no rise. Date Backfilled 25/09/2019 Stability Stable during excavation.

Remarks ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by NC



TP8B12 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Client wsp				Na Co	tional Grid ordinates	355399.8 390789.1	8 E . N			Ground	d Leve	el 21.71 m	OD
Samples and	Tests		,	Strata								Scale 1	:50
Depth	Туре	Stratum No	Results	Description						De	epth	Legend	Level m OD
- 0.00- 0.20 - 0.20- 0.50 - 0.20 - 0.20 - 0.50- 1.20	B B D ES B			sandy cla rootlets.	er TOPSOIL: ny with a lo Gravel is sandstone	ow cobble subangul	contenar conten	t and oubround	occasional ded fine to	E	3.L. 0.20 0.50	.0	21.71 21.51 21.21
0.50 0.50- 1.50 - 0.70 - 1.00	ES HV D ES		Av=53kPa	gravelly subangula mudstone,	r to subro	a medium unded fir and coal	cobble me to co	content arse of	. Gravel is sandstone,				0 0 0 0 0 0
1.30	D			sandy sli content. coarse of	stiff orang: ghtly grave Gravel is a sandstone	elly CLAY angular t , mudstor	with a consultant of suban	medium gular i imestor	n cobble line to ne.		1.60		20.1
<u>-</u> -				\	land drain					 -			
= = =				At 1.40m,	occasiona				parse sand.	IJĘ			
 - -					Eı	nd of Exc	avation			F			
[E			
_										E			
[-										E			
<u> </u>										Ė			
-										-			
- -										Ė			
_ -										E			
<u>-</u>										<u> </u>			
										F			
<u>-</u>										Ė			
										E			
 -										F			
										F			
<u> </u>										Ė			
- -										F			
<u>-</u>										Ė			
<u>-</u>										-			
<u>-</u>										Ē			
<u>-</u>										-			
<u>-</u>										Ŀ			
-										-			
_										Ē			
Ė										F			
										E			
Ė										F			
<u>-</u>										E			
Ė										Ė			
<u> </u>										E			
Excavation						ı	Ground	water					
Disast	ne Tra	cked F	cavator	Width (B)	0.50		Depth	Depth	Details				
D . 0 101	/2019	oneu m	-54 (4001	Length (C)	3.90	<u> </u>	Observed 1.40	of Pit	Seepage, no	rise			
Stability Stabl		ng exc	avation.	Date Backfilled	23/09/2019	9	1.10		_ copage, no				
		5											
Remarks∎™	ES samı	ple = 1	L x 60ml a	lass vial, 2 x	258ml amb	er glass	jars.		ļ			Logged by	JN
Remarks		_	· · 5	, <u> </u>		J						,	

Symbols and abbreviations are explained on the accompanying key sheet.

Figure

1 of 1 18/12/2019 <u>geolec</u>inies

All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8B13 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355153.5 Client WSP 390744.6

Ground Level 22.63 m OD Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 22.63 G.L. 0.00- 0.40 0.00- 0.40 0.20 TOPSOIL: Soft dark brown slightly sandy clay with D ES some rootlets. 0.40 22.23 Firm to stiff reddish brown mottled yellow slightly sandy slightly gravelly CLAY with a low cobble content and occasional pockets of fine to medium sand. Gravel is angular to subangular fine to coarse 0.40- 1.00 0.40- 1.00 B D 0.50 ES HV Av=59kPa 1.00- 1.50 1.00- 1.50 of sandstone and coal. 1.00 1.00 ES HV Av=58kPa 1.50 21.13 End of Excavation Excavation **Groundwater** Depth of Pit Depth Width (B) 8 Tonne Tracked Excavator 26/09/2019 Observed Date Length (C) 3.00 Shoring None. Seepages within sand pockets. Date Backfilled 26/09/2019 Stability Stable during excavation.

Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by MM



Trial Pit TP8B14 Project omega development gi Engineer WSP Project No PN194027

Client	WSP				Na Co		98.1 E 32.2 N		(Ground Le	vel 21.76	m OD
Sampl	es and	Tests			Strata						Scale	1:50
Depth		Туре	Stratum No	Results	Description					Depth	Legend	Level m OD
	0.20	B B D ES			slightly Gravel is	er TOPSOIL: Soft gravelly clay w s subangular to e, mudstone and	ith a low c subrounded	obble o	content.	G.L.		21.7
0.70 0.80- -0.80-	1.50 1.50	D B HV		Av=37kPa	low cobbl	ND: Soft brown e content. Grav coarse of sandst	el is angul	ar to s	subrounded	0.80	0.000	20.9
1.30		ES D			sandy gra Gravel is	tiff orangish be welly CLAY with subangular to a, mudstone and	a medium c subrounded	obble	content.	1.50	0.0.0.0	20.2
					At 0.80m,	land drain in	north east	corner	of the pit.	JF		
-						End of	Excavation			F		
										Ė		
										Ė		
_										_		
										-		
										-		
_										E		
										Ė		
										<u> </u>		
										Ė		
-										_		
										-		
										Ē		
										Ė		
_										_		
										-		
										<u>-</u>		
										Ė		
_										Ė.		
_										-		
										-		
										Ē		
										-		
										-		
										Ē		
										-		
•												
										-		
										E		
										ļ.		
Excava					Midth (D)		Ground Depth	w ater Depth	I			
Plant Date	23/09	2019	cked E	xcavator	Width (B) Length (C)	1.10 3.00	Observed	of Pit	Details			
	None.				Date Backfilled	23/09/2019			None encount	ered.		
otability	Stabl	le duri	ng exc	avation.								
			_	_								
≺emar	KS AGS	ES sam	ple =	l x 60ml g	glass vial, 2 x	: 258ml amber gl	ass jars.				Logged by	JN
ymbols a	and										Figure	1 of 1

Symbols and abbreviations are explained on the accompanying key sheet.

Figure

1 of 1 18/12/2019 <u>geolec</u>inies

All dimensions are in metres. Logged in accordance with BS5930:2015

Trial Pit TP8B15 Project omega development gi Engineer WSP Project No PN194027

> National Grid Coordinates 355319.7 390834.1

Ground Level 22.23 m OD

Client 1	WSP				Na Co	tional Grid 3 ordinates 3	355319.7 E 390834.1 N				Ground Lev	el 22.23 m	OD
Samples	s and	Tests			Strata							Scale ´	1:50
Depth		Type	Stratum No	Results	Description						Depth	Legend	Level m OD
0.00- (0.20- (0.20	0.50	B B D ES			sandy cla rootlets.	er TOPSOIL: S y with a low Gravel is s sandstone,	v cobble con subangular t	ntent to su	and c	ccasional led fine to	G.L. 0.20 - 0.50		22.2
0.50- 0.50 0.50- 0.70 1.00		B ES HV D ES		Av=43kPa	gravelly angular t	ND: Soft bro clay with a o subrounded and limestor	low cobble I fine to co	cont	ent. G	ravel is			0
1.30		D			sandy sli content.	stiff orangis ghtly gravel Gravel is su sandstone,	lly CLAY wit bangular to	th a m	medium rounde	cobble d fine to	1.50		20.
					At 0.50m, pit.	land drain	running acr	ross	centre	of the	E		
					At 1.40m,	occasional	pockets of	fine	to co	earse sand.	JE		
						End	d of Excavat	tion			F		
											Ė		
											E		
											-		
											Ē		
											-		
											-		
											Ē		
											-		
											F		
											F		
											-		
											F		
											E		
											_		
											F		
											E		
											-		
											-		
											Ē		
											-		
											-		
											Ē		
											F		
											-		
											Ė		
											Ē		
											E		
											_		
											-		
											Ē		
											<u> </u>		
											<u> </u>		
xcavat	ion	<u> </u>	1	1	!		Gro	undw	ater			1 1	
lant ;		ne Tra	cked E	xcavator	Width (B)	0.50	Dept	h	Depth	Details			
	23/09	/2019			Length (C)	3.00	Obser	.40	of Pit	Seepage, no	rise.		
			na eva	avation.	Date Backfilled	23/09/2019	1				- •		
	Scant	- uurii	-S CYC	~ · a c 1 O I I •									
mark	SAGS	ES sam	ple = :	1 x 60ml 9	glass vial, 2 x	258ml amber	glass jars	s.		<u> </u>		Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure



TP8B16 Project omega development gi Engineer Trial Pit WSP

> National Grid Coordinates 355209.7 E 390838.3 N

Project No PN194027

Client Ground Level 22.67 m OD WSP

Av-88kGa Time to attiff fisured locally frished orange and coll. Av-88kGa Time to attiff fisured locally frished orange and coll. Between 0.85-1.50, yealow mothed coll. Between 0.85-1.50, orange racked Excavator Width (6) Bod of Excavation Towns are racked Excavator Width (6) Source or racked Excavator Source or racked Excavator Source or racked Excavator Source or racked Excavator Width (6) Source or racked Excavator Source or racked Excavator Source or racked Excavator Source or racked Excavator Sou	Client wsp				Coordinates 390838.3 N	Gro	ound Leve		OD
Ave88krs Ave8krs Ave88krs Ave8krs Ave88krs Ave8krs Ave88krs Ave8krs Ave88krs Ave8krs Ave88krs Ave8krs Ave88krs Ave8krs Ave88krs Ave	Samples and	Tests			Strata			Scale 1	:50
Convertion Accountion Accoun	Depth	Туре		Results	Description		Depth	Legend	Level m OD
### Ave-SkPa ### First fissured brownish grey motted yellow slightly solution and the property of the propert	0.10- 0.40 0.20 0.20	D ES	110		gravelly clay with some rootlets. Gravel is	_	-		22.6
Below 0.50m, vellow motified grey Final property 1.50 21.1	0.40 0.50 0.50 -0.90- 1.00	HV D ES B		Av=45kPa	sandy slightly gravelly CLAY with grey silty sand o fissures. Gravel is subrounded to rounded medium to	n	- - - 0.85 <u>-</u>		21.8
Avesation The state of the property of the pr	1.00 1.00				Below 0.50m, yellow mottled grey.	/=	- - -	0.0.0.0	0
xcavation	- 1.40 1.50			Av=88kPa	mottled grey slightly sandy slightly gravelly CLAY with a low cobble content and grey silty sand on fissures. Gravel is subangular to rounded fine to	wn	1.50	0 0 0 0 0	21.1
XCavation End of Excavation End of Excavation Find of Excavation Find of Excavation Groundwrater Find (B) 0.75 Depth Dep						F	- - -		
Excavation State 26/09/2019 Author Stable during excavation. Width (8) 0.75 Depth 2 Depth	-						= - -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	-				End of Excavation		<u> </u>		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						-	- -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	-						- - -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						-	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	_					-	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						F	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						-	= - -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						-	- -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	_					-	- -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage							-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	•					-	- - -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						-	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	-					Ē			
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage							-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	•					Ė	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						þ	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	_					Ė	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						F	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						F	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage							-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	-					-	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						E	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						F	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						E	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	-					-	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						F	<u>-</u>		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						F	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage						-	- -		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	_					F	-		
ant 8 Tonne Tracked Excavator ate 26/09/2019 Width (B) 0.75 Length (C) 3.00 None. Date Backfilled 26/09/2019 Date Backfilled 26/09/2019 Depth Observed of Pit Depth of Pit Details 0.95 Seepage	Excavation		1		Groundwater				
horing None. Date Backfilled 26/09/2019 tability Stable during excavation. Date Backfilled 26/09/2019	Plant 8 Ton		ked E	xcavator	Width (B) 0.75 Depth Depth Details				
tability Stable during excavation.	Shoring None.	/2019			0.95 Seepage				
	Stability Stable	e durir	ng exca	avation.	Date Dackfilled 26/09/2019				
emarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by NC									
	Remarks 😛	ES samp	ole = 1	l x 60ml gl	ass vial, 2 x 258ml amber glass jars.			Logged by	NC

Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015



Project omega development gi Engineer Trial Pit TP8B17 WSP Project No PN194027

National Grid Coordinates 355125.1

Client Ground Level 23.51 m OD WSP 390831.4 Scale 1:50 Samples and Tests Strata Stratum Depth Type Depth Results Description Leaend m OD No 23.51 G.L. TOPSOIL: Very soft dark brown sandy slightly gravelly clay with a low cobble content and rare rootlets. Gravel is subangular to rounded medium to coarse of 0.10- 0.40 0.20 ES D 0.40 23.11 0.40- 0.70 В siltstone and sandstone. 0.40 ΗV Av=56kPa Soft to firm fissured grey mottled orange and yellow slightly sandy slightly gravelly CLAY with many decayed rootlets and grey silty sand on fissures. Gravel is subangular to rounded fine to coarse 0.50 0.70 22.81 ES 0.70- 1.00 1.00 В 1.00 ES including siltstone, sandstone and quartz. Firm to stiff fissured slightly sandy slightly gravelly CLAY with a low cobble content and grey silty sand on fissures. Gravel is subangular to subrounded fine to medium of siltstone, sandstone, quartz and coal. Locally friable. 1.40- 1.50 В 1.50 22.01 HV Av=51kPa 1.40 1.50 D End of Excavation **Groundwater** Excavation Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator Details Observe Date Length (C) 25/09/2019 3.80 Shoring None. None encountered. Date Backfilled 25/09/2019 Stability Stable during excavation. NC

Remarks \square ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Plate load test undertaken at 0.50mbgl.

Symbols and abbreviations are explained on the

Backfill details from base of hole: arisings up to ground level.

kev sheet. All dimensions are in metres. Logged in accordance with BS5930:2015

accompanying

Logged by



TP8B18 Project omega development gi Engineer Trial Pit WSP PN194027 Project No

Ground Level 24.36

	WSP										Ground Level 24.36 m OD			
Sample	es and				Strata						Scale 1			
Depth		Type	Stratum No	Results	Description					Depth	Legend	Level m OD		
=					gravelly	Very soft dar clay with som ir fine to med	e rootlets. G	ravel i	ndy slightly is	G.L. - 0.35 - 0.50		24.3 24.0 23.8		
					slightly	ND: Firm yell gravelly CLAY d medium to c	. Gravel is s	ubangul	sandy Lar to		***************************************	23.0		
-					At 0.50m,	land drain.				-				
						End	of Excavation			-				
										- - -				
•														
										_				
										-				
										-				
										_				
										- - -				
-										<u> </u>				
-										<u> </u>				
										-				
-										_				
										-				
										-				
-										_				
										- - -				
										<u>-</u> -				
										[- -				
										-				
										- - -				
										_				
-										-				
Excava	ation						Ground		1		1			
Plant Date	25/09/		ked Ex	cavator	Width (B) Length (C)	0.70 3.00	Depth Observed	Depth of Pit	Details					
Shoring Stability		durir	ıg exca	vation.	Date Backfilled	25/09/2019			None encounter	red.				
-														

Symbols and abbreviations are explained on the accompanying key sheet.

AGS drain. Excavator moved 2m north to TP8B18A.

Backfill details from base of hole: arisings up to ground level.

Figure

1 of 1 18/12/2019 **EDIMBE**

All dimensions are in metres. Logged in accordance with BS5930:2015

TP8B18A Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355056.9

Client Ground Level 24.31 m OD WSP 390839.2 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 24.31 G.L. 0.10- 0.30 0.20 0.20 TOPSOIL: Very soft dark brown sandy clay with rare D rootlets. ES 0.35 23.96 MADE GROUND: Firm to stiff fissured orange brown mottled grey slightly sandy slightly gravelly clay with a low cobble content and grey silty sand on fissures. Gravel is subangular to rounded fine to 0.35 0.35 D HV Av=64kPa 0.40- 0.80 0.50 ES 0.85 23.46 coarse of siltstone and quartz. At 0.85m, land drain. End of Excavation Excavation **Groundwater** Depth of Pit Depth Width (B) 8 Tonne Tracked Excavator 25/09/2019 Details Observe Date Length (C) 3.00 Shoring None. None encountered. Date Backfilled 25/09/2019 Stability Stable during excavation. Remarks The Trial Pit was terminated at a depth of 0.85m on encountering a land drain.

Symbols and Backfill details from base of hole: arisings up to ground level. Logged by NC Figure 1 of 1

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

18/12/2019 esimbetoeg

Logged in accordance with BS5930:2015

Trial Pit Project No TP8B18B PN194027 Project omega development gi Engineer WSP

National Grid 355052.2 E

Client wsp				National Grid 355052.2 Coordinates 390839.2	E N	Ground Lev	vel 24.13 m	OD
Samples and	Tests			Strata			Scale 1	:50
Depth	Туре	Stratum No	Results	Description		Depth	Legend	Level m OD
0.10- 0.40 0.10 0.20 0.20 0.40- 0.80	B D D ES B			Grass over TOPSOIL: Greyish brogravelly silt with many rootlet subangular to subrounded fine sandstone and limestone.	ts. Gravel is	G.L. - 0.10 - 0.40	X X X X X X X	4
0.40 0.50 -1.00	D ES ES			Soft greyish brown slightly say SILT. Gravel is subangular to a coarse of mudstone, siltstone a	subrounded fine to			-
1.30- 1.50 1.50	B D			Soft to firm orangish brown mot slightly sandy slightly gravel: subangular to subrounded fine t siltstone and sandstone.	ly CLAY. Gravel is	1.50	0.0.0.00	22.
-				Below 1.10m, occasional lenses fine to medium silty sand.	(up to 50mm) of grey			
				End of Excava	ation	-		
						<u> </u>		
						-		
						-		
						Ē		
						E E		
						<u> </u>		
						<u> </u>		
						<u>-</u>		
						E		
						-		
						<u>-</u>		
						-		
						<u>-</u>		
						<u> </u>		
						-		
						_		
Excavation					oundwater	<u>'</u>		
	/2019	cked Ex	cavator	Width (B) 0.80 Der Obs Length (C) 2.50	pth Depth of Pit Details None encoun	ut or od		
stability Stabl		ng exca	vation.	Date Backfilled 27/09/2019	None encoun	reered.		
				ass vial, 2 x 258ml amber glass ja			Logged by	JD
				ase of hole: arisings up to ground				1 of 1

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019



TP8B19 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355389.0

18/12/2019

esimbeloeg

Client Ground Level 21.31 m OD WSP 390913.1 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 21.31 G.L. Crops over TOPSOIL: Very soft brown sandy gravelly clay with some rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and 1 0.40 20.91 End of Excavation Excavation **Groundwater** Depth Observe Depth of Pit Plant Width (B) 8 Tonne Tracked Excavator 01/10/2019 Details Date Length (C) 2.50 Shoring None. Fast inflow from ground surface flooding Date Backfilled 01/10/2019 trial pit. Stability Stable during excavation. Remarks No samples taken as the Trial Pit was terminated at 0.40m depth due to groundwater inflow flooding the pit. Excavator moved 20m to the north to TP8B19A. Logged by JN Symbols and abbreviations are Figure 1 of 1

Logged in accordance with BS5930:2015

explained on the accompanying

key sheet. All dimensions are in metres. Project OMEGA DEVELOPMENT GI Engineer WSP Trial Pit Project No PN194027

National Grid 355374.3 E

Client	WSP				National Grid 355374.3 E Coordinates 390912.0 N	Grou	ınd Lev	el 21.24 m	OD
Sample	es and	Tests			Strata			Scale 1	:50
Depth		Туре	Stratum No	Results	Description		Depth	Legend	Level m OD
0.40 0.50 0.60 0.80	0.40	B ES B D ES HV D		Av=64kPa	Crops over TOPSOIL: Very soft brown sandy gravelly clay with some rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone quartz. MADE GROUND: Soft to firm orangish brown mottled slightly gravelly sandy clay with many pockets (up 10mm) of yellow fine to coarse sand. Gravel is	grey p to	G.L. 0.40 0.90		20.84
1.00		ES			angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	, E			
Ė					At 0.80m, land drain encountered, running NE to SW	w. /			
F					End of Excavation				
F						_			
Ė						- - -			
Ė						E			
F						E			
F						F			
E						E			
†						-			
Ę.						E			
ļ.						Ė			
Ė						E			
-						E			
F						<u> </u>			
Ė						E			
 						F			
Ę						Ė			
E						-			
†						-			
F						F			
E									
Ė						E			
-						E			
Ę						Ė			
F						<u> </u>			
-						-			
F						F			
Ė						Ė			
E						F			
F						F			
F						Ė			
E						E			
	.:								
Excava		no =====	alsod =	raarra+a	Groundwater				
Date Shoring	01/10	/2019	жес Е	kcavator	Length (C) 2.50 Observed of Pit Details	flow from	land	drain	
			ng exca	avation.	Date Backfilled 01/10/2019	TION IION	. Talla	<u> </u>	
Remar					lass vial, 2 x 258ml amber glass jars. Inated at a depth of 0.90m due to water inflow from lar	nd drain		Logged by	JN
Symbols a abbreviation explained	ind ons are	floodir			and a depen of 0.70m and to water introw from fair	~ araiii			1 of 1 18/12/2019

Symbols and abbreviations are explained on the accompanying key sheet.

kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Trial Pit

Project omega development gi Engineer Trial Pit TP8B20 WSP Project No PN194027

> National Grid Coordinates 355279.1 390824.9

Client Ground Level 22.55 m OD WSP Scale 1:50 Samples and Tests Strata Stratum Depth Type Depth Legend Results Description m OD No 22.55 G.L. Grass over TOPSOIL: Soft brown sandy gravelly clay with a low cobble content of concrete. Gravel is angular to subrounded fine to coarse of sandstone, 0.00- 0.40 1 ES 0.20 0.40 22.15 0.40- 0.70 0.40 B D siltstone, mudstone, quartz and brick fragments. 2 Some rootlets. 0.40 HV Av=55kPa 0.70 21.85 ES POSSIBLE MADE GROUND: Soft to firm brown sandy 0.70- 1.70 0.70 в gravelly clay. Gravel is subrounded fine to of sandstone, siltstone, mudstone and quartz. Gravel is subrounded fine to coarse 1.00 ES Firm to stiff orangish brown mottled grey slightly gravelly sandy CLAY with a low cobble content and some pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, 1.40 HV Av=73kPa 1.50 3 -1.70- 2.70 в siltstone, mudstone, quartz and coal. 2.00 D Av=120+kPa 2.40 HV Below 2.40m, very stiff. 2.50 D 2.70 19.85 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator Details Observe Date Length (C) 01/10/2019 2.50 Shoring None. None encountered. Date Backfilled 01/10/2019 Stability Stable during excavation. Remarks Es sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

The Trial Pit was terminated at 2.70m depth due to the stiffness of the clay. Logged by JN Symbols and Figure 1 of 1 abbreviations are 18/12/2019 explained on the accompanying وعفاعطنمنع

Project omega development gi Engineer Trial Pit TP8C01 WSP Project No PN194027

National Grid Coordinates 355192.9 WSP 389954.3

Client Ground Level 20.98 m OD Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.98 G.L. Grass over TOPSOIL: Soft brown sandy gravelly silt with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, 0.00- 0.40 1 0.20 ES 0.40 20.58 0.40- 1.40 0.40 B D mudstone and quartz. Many rootlets. Firm to stiff orangish brown sandy gravelly CLAY with a medium cobble content and some pockets of grey fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz 0.40 HV ES Av=71kPa 1.00 D ES 1.00 1.40- 2.40 В Between 0.70-2.00m, large pocket of grey fine to HV Av=130+kPa 1.40 coarse sand. 2 1.50 D Below 1.60m, stiff, brown. 2.00 D 2.40- 3.00 В Below 2.40m, locally friable and fissured. 2.40 2.50 HV Av=47kPa D _ 3.00 D 3.00 17.98 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 07/10/2019 Details Observe Date Length (C) 3.00 Shoring None. None encountered. Date Backfilled 07/10/2019 Stability Stable during excavation. JN

Remarks AGS

ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by



Project omega development gi Engineer wsp Trial Pit TP8C02
Project No PN194027

National Grid 355012.6 E

0 11 1 00

Client ws	P				tional Grid 35 ordinates 39	5012.6 E 0317.5 N		(Grou	nd Level	21.74	m OD	
Samples a	and Tests	3		Strata							Scale	1:50	
Depth	Туре	Stratum No	Results	Description					I	Depth	Legend	Lev m OE	
- 0.00- 0. - 0.20 - 0.40- 1.	ES			with many	er TOPSOIL: So r rootlets. G	ravel is angu	lar to	subangular	-	G.L. 0.40	1		.74
- 0.40 - 0.40 - 0.50 - 1.00 - 1.	D HV ES		Av=47kPa	gravelly pockets o subangula	NND: Firm to s clay with a l of fine to coa r fine to coa quartz, coal	ow cobble con rse sand. Gr rse of sandst	tent an avel is one, si	d rare angular to ltstone,		1.00	2	20	.74
1.40	HV D		Av=59kPa	cobble co	stiff brown sa ontent. Grave e of sandstone	l is angular	to subr	ounded fine	E	1.50		20	.24
<u>-</u> -				At 1.00m,	land drain e	ncountered, r	unning	N to S.	∄				
- - -									F				
- - -									Ė				
Excavatio	n					Ground	water						
Plant 8	Tonne Tra	cked E	xcavator	Width (B)	0.80	Depth Observed	Depth	Details					
Date 11 Shoring No Stability st		.ng exc	avation.	Length (C) Date Backfilled	1.50 11/10/2019	Observed	OI PIL	Inflow from	land	drain.			
Remarke=	Th ES san	mple =	1 x 60ml a	lass vial. 2 s	258ml amber	glass jars.					Logged by	JN	
Symbols and abbreviations a explained on th	re		_ 1. OOMI 9	viai, 2 2	258ml amber	Jaro.					Figure	1 of 1	

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015

Project omega development gi Engineer Trial Pit TP8C03 WSP Project No PN194027

> National Grid Coordinates 355145.3

Client Ground Level 21.05 m OD WSP 390252.5 Scale 1:50 Samples and Tests Strata Stratum Depth Type Depth Results Description Legend m OD No 21.05 G.L. Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and mudstone. 0.00- 0.40 1 0.20 ES 0.40 20.65 0.40- 0.90 0.40 B D MADE GROUND: Firm to stiff orangish brown sandy 2 0.40 gravelly clay with a low cobble content and occasional rootlets. Gravel is angular to subrounded HV Av=57kPa ES 0.90 20.15 0.90- 1.50 0.90 В mc=12% fine to coarse of sandstone, siltstone, mudstone, quartz and coal. mc = 14%3 1.00 ES Stiff brown sandy gravelly CLAY with a low cobble content and occasional pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and 1.40 HV Av=130+kPa 1.50 19.55 D 1.50 coal. At 0.90m, land drain encountered, running N to S. End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator Observe Date Length (C) 11/10/2019 1.50 Shoring None. Slow inflow from land drain. Date Backfilled 11/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and Figure 1 of 1

abbreviations are explained on the accompanying kev sheet.

18/12/2019 ezimbelbeg

TP8C04 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

1 of 1 18/12/2019

<u>geolec</u>inies

Figure

ACSAVATION AXCSSVALION AXCSSVALION BY BY BY BY BY BY BY BY BY B	Client wsp				Na Co	tional Grid ordinates	354799. 390162.	в E в N			Grou	nd Leve	el 23.02 m	OD
AND SERVE AND ANY SPREAD ANY	Samples and	Tests			Strata								Scale 1	:50
xcsvalion 0.00 - 0.40 B Re	Depth	Type		Results	Description							Depth	Legend	
XCavation att 8 Tomes Tracked Excavator ability stable during excavation. Width (6) 0.80 Despite Depth Openhouse of State County after the County of State County and County after the County of State County after the County of State County after the County of State Cou	- 0.00- 0.40 - 0.20 - 0.40- 1.40 - 0.40 - 0.40	ES B D HV		Av=58kPa	with many fine to contact and firm to s	rootlets. oarse of s d brick fr	Gravel sandstone agments.	is angu , siltst wn sandy	lar to one, mu	subangular idstone,				23.02
XCZVZIION ATT 8 TORNE TRACKED EXCAVATOR ATT 8 TORNE TRACKED	-1.00 -1.00	D ES		Av=59kPa	fine to c	oarse sand	l. Grave	l is ang	ular to	subrounded	- - - - -	1.50		21.52
ant 8 Tonne Tracked Excavator ate 10/10/2019	- 1.40 - 1.50			AV=59RPa		E	and of Ex	cavation			F	1.50		21.52
ant 8 Tonne Tracked Excavator ate 10/10/2019	- 1.50	D					ind of Exc	cavation						
ant 8 Tonne Tracked Excavator ate 10/10/2019	 - -										-			
ant 8 Tonne Tracked Excavator ate 10/10/2019	-										F			
ant 8 Tonne Tracked Excavator ate 10/10/2019	<u>-</u> -										F			
ant 8 Tonne Tracked Excavator ate 10/10/2019	-										F			
ate 10/10/2019 Length (C) 1.00 None. Date Backfilled 10/10/2019 Stable during excavation. Date Backfilled 10/10/2019	Excavation	ı	1	I						1			I I	ı.
Date Backfilled 10/10/2019 Stability Stable during excavation. Inflow from ground level.	Date 10/10	/2019	cked Ex	cavator					Depth of Pit					
	Shoring None.						.9			Inflow from	grou	nd lev	el.	
	Stability Stabl	e durin	ng exca	avation.										
			_			0.5.5							Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8C05 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

Client w	SP			Na Co	tional Grid 3 ordinates 3	55064.4 E 90095.5 N			Grou	nd Lev	el 20.34 I	m OD
Samples	and Tests			Strata							Scale	
Depth	Туре	Stratum No	Results	Description					-	Depth	Legend	Level m OD
- 0.00- 0 - 0.20 - 0.40- 1	ES .40 B D		202hpa	with a hi is angula siltstone	gh cobble co ar to subroun a and mudston		y rootle parse of	ts. Gravel sandstone,		G.L. 0.40	V 1	20.34
0.40 0.50 	HV ES D		Av=92kPa	a low cob subrounde	ble content.	h brown sandy Gravel is an arse of sands coal.	ngular t	0		1 50		
- 1.40 - 1.50	D HV		Av=130+kPa		End	of Excavation	n		Ē	1.50	000	18.84
Excavation Plant g		alaca =		Width (B)	0.80	Ground	Depth	Dotaila				
	Tonne Tra 1/10/2019	cked E	kcavator	Length (C)	0.80 1.50	Observed	of Pit	Details				
Stability st	table duri			Date Backfilled	11/10/2019	0.40		Slow inflow				
Remarks	ES sam	ple = :	1 x 60ml gla	ass vial, 2 x	258ml amber	glass jars.	<u> </u>				Logged by	JN
Symbols and abbreviations explained on t	are										Figure	1 of 1 18/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

TP8C06 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 354903.4 390092.9

Ground Level 21.10 m OD

Client WSP Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 21.10 G.L. Crops over TOPSOIL: Soft brown slightly sandy gravelly clay with many rootlets. Gravel is angular to subangular fine to coarse of sandstone, siltstone, 0.00- 0.40 1 ES 0.20 0.40 20.70 0.40- 1.40 0.40 mc=14% mc=19% B D mudstone and quartz. Firm to stiff orangish brown slightly gravelly to gravelly sandy CLAY, in places grading to clayey silt. Low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, 0.40 HV ES Av=35kPa 2 0 1.00 D ES 1.00 mudstone and coal. 1.40 HV Av=98kPa 1.50 19.60 D End of Excavation 1.50 Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 10/10/2019 Details Observe Date Length (C) 1.00 Shoring None. None encountered. Date Backfilled 10/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN 1 of 1

Symbols and abbreviations are explained on the accompanying kev sheet.

Figure 18/12/2019

ezimbelbeg

TP8C07 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 354997.9

Client Ground Level 19.66 m OD WSP 389922.5 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 19.66 G.L. Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and mudstone. 0.00- 0.40 1 ES 0.20 0.40 19.26 0.40- 1.40 0.40 B D mc=15% mc=29% Firm to stiff orangish brown sandy gravelly CLAY with a low cobble content. Many rootlets and some pockets of brown fine to coarse sand. Gravel is angular to 0.40 HV ES Av=52kPa 2 0 1.00 D ES subangular fine to coarse of sandstone, siltstone, mudstone, quartz and coal. 1.00 1.40 HV Av=74kPa 1.50 18.16 D End of Excavation 1.50 Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 11/10/2019 Details Observe Date Length (C) 1.50 Shoring None. None encountered. Date Backfilled 11/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN

Symbols and abbreviations are

explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1 18/12/2019 ezimbelbeg

TP8C08 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

National Grid Coordinates 354963.6 E 390372.9 N Ground Level 23.12 m OD

Client wsp	!	National Grid 354963. Coordinates 390372.	6 E 9 N		(Ground Leve	el 23.12 m	OD
Samples and Tests	Strata						Scale	1:50
Depth Type Stratum No Res	ults Description	n				Depth	Legend	Level m OD
- 0.00- 0.40 B ES - 0.40- 1.40 B D	with a is angu	ver TOPSOIL: Soft br low cobble content a lar to subrounded fi ne, mudstone and qua	nd many r ne to coa	ootlet	s. Gravel	G.L. 0.40	1	23.12
	CLAY wi subroun	stiff orangish brow th a low cobble cont ded fine to coarse c e, quartz and coal.	ent. Gra	vel is	angular to	- E		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.40 HV Av=	76kPa	End of Ex	cavation			1.50	0.000	21.62
· -						-		
						- - -		
						- - -		
· -						<u>-</u> -		
: - -						- - -		
						<u>-</u>		
- : -						-		
· - -						<u>-</u>		
<u>:</u>						<u>-</u>		
						<u>-</u> -		
-						_ - -		
<u>:</u>						-		
· -						<u>-</u> -		
						- - -		
<u>-</u> <u>-</u>						<u>-</u> -		
· -						<u>-</u>		
						<u> </u>		
- :						<u>-</u> - -		
· -						-		
<u>:</u>						<u> </u>		
						<u>-</u>		
-						_ - -		
<u>:</u>						<u> </u>		
Excavation			Groundv	vater				
Plant 8 Tonne Tracked Excav	width (B) Length (C)	0.80 1.50	Depth Observed	Depth of Pit	Details			
Shoring None. Stability Stable during excavat	Date Backfille				None encounte	ered.		
Remarks Es sample = 1 x	60ml glass vial, 2	x 258ml amber glass	jars.		•		Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet.

Figure

1 of 1 18/12/2019 esimbeloeg

All dimensions are in metres. Logged in accordance with BS5930:2015

TP8D01 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355379.0 389919.6

Ground Level 20.57 m OD

Client wsp				National Grid 355379.0 E Coordinates 389919.6 N	Ground Lev	el 20.57 m	OD
Samples and	Tests			Strata		Scale 1	
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.40	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounder fine to coarse of sandstone, siltstone, mudstone and quartz.		1 0 · 0 · 0 · 0 · 0 · 0 · 0	20.57
0.40 0.40 0.50 -1.00	D HV ES D ES		Av=68kPa	Firm to stiff brown mottled grey sandy gravelly CLA with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.			2
1.40- 2.40 - 1.40 - 1.50 - 2.00	B HV D		Av=130+kPa mc=11%	At 1.50m, large sandstone boulder.	-	2 0 0 0 0 0	0
2.40- 3.00	В			Below 2.40m, stiff, brown, very gravelly.	-	0.0.00	-
- 2.40 - 2.50	HV D		Av=130+kPa	At 2.60m, large pocket (400mm) of yellow fine to coarse sand.	- -		0
3.00	D			End of Excavation	3.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17.57
<u> </u>					-		
-					F		
					<u> </u>		
-					-		
[<u> </u>		
-					<u>-</u> -		
[-		
-					-		
-					-		
<u> </u>							
-					F		
Ė					E		
-					<u> </u>		
<u> </u>					-		
					<u> </u>		
-					-		
[-		
-					-		
<u> </u>					E		
_					<u>L</u>		
<u> </u>					Ė		
-					E		
<u> </u>					Ė		
_					E		
-					-		
[E		
-					 -		
From C							
Excavation Plant 8 Ton			A)	Groundwater			
Date 04/10	/2019	cked Ex		ength (C) 3.00 Observed of Pit Details			
Shoring None.				Date Backfilled 04/10/2019 2.60 Inflow from	om sand pocke	t.	
Stability Stabl	e durir	ng exca	avation.				
Remarks	ES samp	ple = 1	l x 60ml glas	ss vial, 2 x 258ml amber glass jars.		Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure



Engineer Trial Pit TP8D02 Project omega development gi WSP Project No PN194027

Client wsp				National Grid 355328.8 E Coordinates 389924.5 N	Ground L		m OD
Samples and				Strata	ı	Scale	
Depth	Type	Stratum No	Results	Description	Depth	n Legend	Lev m OE
0.00- 0.40 0.20 0.40- 1.40	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.		0	20
0.40 0.40 0.50 1.00	D HV ES D ES		Av=84kPa	Firm to stiff orangish brown mottled grey sandy gravelly CLAY with a medium cobble content and rare pockets (up to 10mm) of silt. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.			
1.40- 2.40 1.40	B HV		Av=123kPa	Below 1.10m, stiff. brown.	_	· · · · · · · · · · · · · · · · · · ·	0.0
1.50 2.00	D D			Below 1.80m, very gravelly.	-		• •
2.40- 3.00 2.40 2.50 2.70	B HV D		Av=130+kPa	At 2.70m, boulder.			
3.00	D		İ	End of Excavation	3.0	0	17
					-		
					-		
			ı				
					-		
					_		
					<u> </u>		
					<u>-</u>		
					-		
					<u>-</u>		
					-		
			ı		-		
			l		-		
			İ				
			1		<u> </u>		
			1		<u> </u>		
xcavation				Groundwater			
lant 8 Tor	ne Track	ced Ex		Nidth (B) 0.80 Depth Depth Details			
horing None.			ſ	Date Backfilled 04/10/2019 None encou	intered.		
tability st ab l							
Remarks	ES sampl	le = 1	x 60ml gla	ss vial, 2 x 258ml amber glass jars.		Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet.

1 of 1 18/12/2019 geolednies

All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8D03 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355327.6 E 389876.2 N Ground Level 19.66 m OD

Client ws	ı			National Grid 355327.6 E Coordinates 389876.2 N	Gro	und Leve	el 19.66 I	m OD
Samples a	nd Tests			Strata			Scale	
Depth	Туре	Stratum No	Results	Description	T	Depth	Legend	Level m OD
- 0.00- 0.4 - 0.20 - 0.40- 1.0	ES 0 B			Grass over TOPSOIL: Soft brown slightly sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.		0.40	1	19.66 19.26
0.40 0.40 0.50 -1.00-2.0 1.00	D HV ES 0 B D ES		Av=43kPa	MADE GROUND: Firm to stiff orangish brown sandy gravelly clay with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz, coal and clay pipe fragments.		_ 1.00	2	18.66
- 1.40 - 1.50	HV D		Av=47kPa mc=14%	At 0.90m, land drain encountered, running NE to SW. Stiff orangish brown sandy gravelly CLAY with a	_/[0
2.00- 3.0 - 2.00	0 B			medium cobble content and occasional pockets of black organic clay. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.		_	3	0
2.40 - 2.50	HV D		Av=130+kPa					. 0
3.00	D			End of Excavation	_	_ 3.00		16.66
- - - -								
<u>-</u> -					-	_		
					F			
- - - - -						_		
- - - -					-			
<u>-</u> - - -					Ė	_		
<u>-</u> - -					F			
- - - -						_		
_ - - - -						•		
- - -						_		
- - - - -						· _		
- - - -					-			
- -					Ė			
-					F	_		
Excavation)			Groundwater				
	onne Trac 10/2019 e.	cked E		Nidth (B)	fro	m land	drain.	
Stability sta			avation.					
Remarks Symbols and abbreviations ar		ple = :	1 x 60ml gla	ss vial, 2 x 258ml amber glass jars.			Logged by Figure	JN 1 of 1 18/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

Trial Pit TP8D04 Project omega development gi Engineer WSP Project No PN194027

Client wsp				National Grid 355268.1 E Coordinates 389927.8 N	Ground Lev	el 20.87 m	OD
Samples and	Tests		I	Strata		Scale 1	1
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Leve m OD
0.00- 0.40 0.20 0.40- 1.40	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly silt with many rootlets. Gravel is angular to subangular fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L. - 0.40	1	20.
0.40 0.40 0.50 1.00	D HV ES D ES		Av=58kPa	Firm to stiff orangish brown mottled grey sandy gravelly CLAY with a medium cobble content and some pockets of yellow silt. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.			- : -
1.40- 2.40 1.40 1.50	B HV D		Av=80kPa	Below 1.50m, stiff, brown.	-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
2.40- 3.00 2.40 2.50	B HV D		Av=130+kPa	Below 2.60m, locally friable and fissured.			-
.3.00	D			End of Excavation	3.00		17
					- - - -		
					- - - -		
					- - - -		
					- - - -		
					- - - -		
					- - - -		
					- - -		
					- - - -		
					- - - -		
					- - - - -		
					<u>-</u> - - -		
					- - - -		
Excavation				Groundwater			
Plant 8 Ton	ne Trac	ked F		Width (B) 0.80 Depth Depth Details			
	/2019			Length (C) 3.00 Observed of Pit	ges from sil	t pockets.	
Remarks AGS	ES samp	le = 1	l x 60ml gla	ss vial, 2 x 258ml amber glass jars.			JN 1 of

Symbols and abbreviations are explained on the accompanying key sheet.

Figure

1 of 1 18/12/2019 <u>geole</u>dmies

All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8D05 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

National Grid 355331.0 E

Client wsp					ordinates 38996	31.0 E 59.6 N		G	round Leve	el 21.43 m	OD
Samples and	d Tests			Strata						Scale 1:	50
Depth	Туре	Stratum No	Results	Description					Depth	Legend	Level m OD
0.00- 0.40 0.20 0.40- 0.80 0.40- 0.50	B ES B D HV ES	NO	Av=66kPa	with a lo is angula siltstone	er TOPSOIL: Soft ow cobble content ar to subrounded e, mudstone and c JND: Firm to stif clay with a low	t and many refine to coaquartz.	rootlet arse of brown	ss. Gravel sandstone, sandy	G.L. 0.40	2	21.0
-0.80- 1.80 0.80 1.00	B D ES			occasiona fine to c and clay	al rootlets. Gra coarse of sandsto pipe fragments.	avel is angu one, siltsto	ular to one, qu	subrounded martz, coal	- 0.30		20.
1.40 1.50 1.80- 2.80 - 2.00	HV D B D		Av=50kPa	content.	own sandy gravell Gravel is angul E sandstone, silt	lar to subro	ounded	fine to	- - - -	30.00	
2.40			120.bp-		, land drain enco	untered, ru	ınning	N to S.	- - -		
2.40 2.50	D HV		Av=130+kPa						- - - -		
3.00	D				End of	Excavation			3.00		18.
									E		
									F		
									E		
•									F		
									E		
									-		
									E		
									_		
									F		
									E		
									_		
									F		
									E		
									F		
									F		
									E		
									Ė		
									E		
									E		
									-		
									E		
									-		
									F		
									E		
									F		
									F		
									E		
									ļ.		
									F		
Everyotion						Ground	N at ar				
Excavation		alaca =		Width (B)		Groundy Depth	N ater Depth	Details			
Date 04/10	7/2019	скес Е	xcavator	Length (C)	0.80 3.00	Observed	of Pit		<u> </u>		
Shoring None				Date Backfilled	04/10/2019	0.80		Slow inflow fr	rom land	drain.	
Stability Stab	le duri	ng exc	avation.								
emarks 🛺	ES sam	ple =	1 x 60ml gl	ass vial, 2 x	k 258ml amber gla	ıss jars.				Logged by	IN
mhole and										Figure 1	of .

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure

1 of 1 18/12/2019

esimbeloeg

TP8D06 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

> National Grid 355270.0 E

Client wsp				National Grid 355270.0 Coordinates 389974.3	N N		Ground Leve	l 21.51 m	OD
Samples and	Tests			Strata				Scale 1	:50
Depth	Туре	Stratum No	Results	Description			Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.30	B ES B	140	A	Grass over TOPSOIL: Soft brown with many rootlets. Gravel in fine to coarse of sandstone, a quartz.	s angular to siltstone, m	subrounded udstone and	G.L. 0.40	1	21.51
0.40 0.50 -1.00 1.00	HV ES D ES		Av=62kPa	Firm to stiff orangish brown a gravelly CLAY with a low cobb occasional pockets of grey fin Gravel is angular to subrounde sandstone, siltstone, mudstone	le content a ne to coarse ed fine to c	nd sand. oarse of			
- 1.40 - 1.50 - - - 2.00	HV D		Av=75kPa	Below 1.30m, stiff, brown.			-	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2.30- 3.00 - 2.40 - 2.50	B HV D		Av=130+kPa	Below 2.50m, locally friable a	and fissured	ı .			
3.00	D			End of Exca	vation		3.00	0	18.51
- - - - - - - -							- - - - - - -		
- : : : - -							- - - - -		
- -									
- - - - - -							-		
Excavation				10	Groundwater				
Plant 8 Ton	ne Trac	ked E		/idth (B) 0.80 Di	epth Depth	Details			
	/2019			ength (C) 3.00	oserved of Pit	None encount	ered.		
Stability stabl	e durin		vation.	ate Backfilled 07/10/2019					
Remarks AGS	ES samp	ole = 1	x 60ml gla	s vial, 2 x 258ml amber glass ja	ars.				JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure

esimbeloeg

TP8D07 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355213.8 389978.8

Ground Level 21.40 m OD

Client wsp				National Grid 355213.8 E Coordinates 389978.8 N	Ground Leve	el 21.40 m	OD
Samples and	Tests			Strata		Scale 1	
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.80	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly silt with many rootlets. Gravel is angular to subangular fine to coarse of sandstone, siltstone, mudstone and quartz.		1	21.40
- 0.40 - 0.40 - 0.50 - 0.80 - 1.80 - 1.00	D HV ES B D ES		Av=64kPa	Firm orangish brown mottled grey sandy gravelly CLAY with pockets of greyish brown silt and occasional rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	0.80		20.60
1.40 - 1.50 - 1.80- 2.80	HV D B		Av=130+kPa	Firm brown sandy gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.			
2.00	D			Below 2.10m, very gravelly. Occasional pockets of grey fine to coarse sand.	<u></u>	3	
- 2.40 - 2.50 3.00	HV D		Av=130+kPa		3.00		18.40
F 3.00	2			End of Excavation	= 3.00		10.10
<u> </u>					Ē		
-					E		
-					-		
-					Ē		
E					-		
-					-		
-					-		
E					E		
-					Ē		
<u> </u>					<u> </u>		
-					E		
-					Ē		
E					Ė		
F					F		
-					Ē		
<u>-</u>					E		
-					-		
F					F		
E					E		
E					E		
<u> -</u>					<u> </u>		
F					Ē		
F					Ė		
E					E		
F					F		
Excavation		1	1	Groundwater		1 1	ı
Date 07/10	ne Trac /2019	cked E		Vidth (B) 0.80 Depth Observed of Pit Details			
Shoring None. Stability stabl		ng exc	[avation.		rom sand poc	kets.	
Remarks	ES samı	ole = :	l x 60ml glas	ss vial, 2 x 258ml amber glass jars.		Logged by	JN
Symbols and abbreviations are			3			Figure :	l of 1 18/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

TP8D08 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355186.4 390024.9 Client WSP Ground Level 21.31 m OD

Client wsp	_			Coordinates 390024.9 N	Ground Leve		
Samples and		1		Strata		Scale 1	1
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.60	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L. - 0.40 - - 0.60	1	20.91
0.40 0.50 - 0.60- 1.60	HV ES B		Av=43kPa	Firm to stiff yellow mottled grey sandy gravelly CLAY. Gravel is subrounded fine to medium of sandstone and mudstone.	- 0.00		20.71
1.00 - 1.40 1.50 1.60- 2.40	ES HV D B		Av=58kPa	Stiff brown sandy gravelly CLAY with a low cobble content and occasional pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.		0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	
_ 2.00	D				-		
2.40	HV D		Av=130+kPa		-		10 21
_ 3.00	D			End of Excavation	3.00		18.31
					_		
,					E		
<u>. </u>					<u> </u>		
=							
					-		
=							
					-		
_							
_					E		
					E		
_							
					E		
					E		
_					E I		
					-		
					E		
_					-		
					E		
					E		
					F		
						<u>l</u>	
Excavation				Groundwater			
Date 08/10		ked Ex		/idth (B) 0.80 Depth Observed of Pit Details			
Shoring None.					surface wat	er.	
Stability stable	e during	g exca	avation.				
Remarks 🛄	ES samp	le = 1	1×60 ml glas	s vial, 2 x 258ml amber glass jars.		Logged by	JN

Remarks

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by

Figure 1 of 1 18/12/2019

وعماعطسانع

TP8D09 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

> National Grid 355223.1 E

Client wsp				National Grid 355223.1 E Coordinates 390016.2 N	Ground Leve	el 21.52 m	OD
Samples and	Tests			Strata		Scale 1	:50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 . 0.40- 1.40 0.40 0.40 0.50	B ES B D HV ES		mc=19% mc=23% Av=46kPa	Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz. Firm to stiff yellowish brown slightly gravelly to	G.L. 0.40	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.5
-1.00 1.00 1.40- 2.40	D ES B			gravelly sandy CLAY with a low cobble content and occasional pockets of yellow fine to coarse sand. In places grading to clayey silt. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	-		2
1.40 1.50 _ 2.00	HV D D		Av=66kPa	Below 1.10m, brown mottled grey. Below 1.50m, stiff.	-	2 0 0 0	2
2.40- 3.00 2.40 2.50	B HV D		Av=130+kPa				2
_ 3.00	D			End of Excavation	3.00	0 0 0	18.5
•					-		
_					<u> </u>		
					<u> </u>		
					Ė I		
					E		
=					F		
					Ė		
					E		
					ļ l		
-							
					Ė		
					E		
_					E		
					Ė		
					-		
-					-		
					E		
					E		
					Ė.		
-							
					<u> </u>		
					-		
-							
Excavation				Groundwater			
Plant 8 Ton	ne Trac	ked F		Width (B) 0.80 Depth Depth Details			
Date 03/10 Shoring None.		12	aca vacor	Length (C) 3.00 Observed of Pit None encoun	tered.		
Stability Stabl	e durir	ng exca	avation.	Date Backfilled 03/10/2019			
	.		1 60 7 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Logged by	TM
Remarks AGS	es samp	оте = 1	ıx 60ml gla	ss vial, 2 x 258ml amber glass jars.		,	JN 1 of 1

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure

esimbeloeg

TP8D10 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

> National Grid 355325.3 E

Client wsp				National Coordina	ates 355325.				Ground Leve	el 21.44 m	n OD
Samples and	Tests			Strata						Scale	1:50
Depth	Туре	Stratum No	Results	Description					Depth	Legend	Level m OD
0.00- 0.40 0.20 . 0.40- 1.40	B ES B	140		with a low col	PSOIL: Soft br bble content a subrounded fi mudstone.	nd many	rootlet	s. Gravel	G.L. 0.40	1	21.4
0.40 0.40 0.50 -1.00	HV ES D ES		Av=48kPa	with a medium	brown mottled cobble contenne to coarse ortz and coal.	nt. Grav	el is a	ingular to	- - - - - - -		0 0 0
1.40- 2.40 1.40 1.50	B HV D		Av=76kPa	Below 1.60m,	stiff, brown.					2 · · · · · · · · · · · · · · · · · · ·	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2.40- 3.00 2.40 2.50	B HV D		Av=118kPa	Below 2.40m,	very gravelly.				-		0 0 0 0 0 0
_3.00	D				End of Ex	cavation			3.00	0 0 0	18.4
- - -											
<u>_</u>									<u> </u>		
Excavation				Width (P)		Ground Depth	water Depth	D-4-"			
Date na /1n	/2019	ked E	kcavator	Width (B) 0.86 Length (C) 3.06		Observed	of Pit	Details			
Shoring None.		ng exca	avation.	Date Backfilled 08/	10/2019			None encount	ered.		
Remarks AGS	ES samp	ole = :	l x 60ml gl	ass vial, 2 x 2581	ml amber glass	jars.		<u> </u>		Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure

esimbeloeg

TP8D11 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355390.8 390015.9

Client wsp				National Grid 355390.8 E Coordinates 390015.9 N	Ground Leve	el 21.61 m	OD
Samples and	Tests			Strata		Scale 1	
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.40	B ES			Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.61
- 0.40 - 0.40 - 0.50 - 1.00 - 1.00	D HV ES D ES		Av=77kPa	Firm to stiff brown sandy gravelly CLAY with a medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.			-
- 1.40- 2.40 - 1.40 - 1.50 - 2.00	B HV D		Av=81kPa			2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
- 2.40- 3.00 - 2.40 - 2.50	B HV D		Av=130+kPa		E E E		2
_ 3.00	D			End of Excavation	3.00		18.61
[_ _ _							
					<u> </u>		
- - - - -					<u>-</u>		
- - - - -							
[- - - -							
[_ _ _ _							
-							
<u>-</u> - - - - -					-		
Excavation				Groundwater	<u> </u>		
Plant 8 Ton	ne Track	ced Ex		Vidth (B) 0.80 Depth Depth Details			
Date 08/10 Shoring None. Stability Stabl		g exca	С	ength (C) 3.00 Date Backfilled 08/10/2019 Observed of Pit None encoun	tered.		
Remarks AGS Symbols and abbreviations are	ES sampl	le = 1	l x 60ml glas	ss vial, 2 x 258ml amber glass jars.		Figure :	JN 1 of 1 18/12/2019

abbreviations are explained on the accompanying key sheet.

18/12/2019

All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8D12 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

National Grid Coordinates 355376.3 E 390078.6 N Ground Level 21.43 m OD

Client wsp				National Grid 355376.3 E Coordinates 390078.6 N	Ground Lev	el 21.43 m	OD
Samples and	Tests			Strata		Scale 1	:50
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.80	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly silt with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.		1	21.43
- 0.40 - 0.40 - 0.50 - 0.80 - 1.80 - 0.80	D HV ES B D ES		Av=70kPa mc=18%	MADE GROUND: Firm orangish brown mottled grey sandy gravelly clay with a low cobble content and occasional pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	0.80	2 	20.63
- 1.40 - 1.50 - 1.80- 2.80 - 2.00	HV D B D		Av=69kPa	Stiff brown slightly gravelly to gravelly sandy CLAY in places grading to clayey silt. Medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2
- - 2.40 - 2.50	HV D		Av=130+kPa	At 0.80m, land drain encountered, running NE to SW.	- - - -		-
3.00	D			End of Excavation	3.00		18.43
- - - - - - -					- - - - - - -		
					-		
<u>-</u> -					- - - - -		
					-		
<u>-</u> - -					-		
- - - - -					-		
					-		
-					- - - -		
-					-		
F					-		
Excavation	Ĭ.	1	I	Groundwater	ı	1 1	ı
	/2019		L	Vidth (B) 0.80 Depth Observed of Pit Details ate Backfilled 03/10/2019 Depth Observed of Pit Details 0.80 Fast inflored	w from land	drain.	
Remarks AGS Symbols and abbreviations are	ES samp	ole = :	L x 60ml glas	s vial, 2 x 258ml amber glass jars.		Figure	JN 1 of 1 18/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015



TP8D13 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355331.5 E 390070.3 N WSP

Ground Level 21.56 m OD

Client wsp			National Grid 355331.5 E Coordinates 390070.3 N	Ground Leve	el 21.56 m	OD
Samples and	l Tests		Strata		Scale 1	
Depth	Type	Stratum Results	Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 0.40 0.40- 0.70 0.40 0.50 - 0.70- 1.70	B ES B D HV ES B	Av=65kPa	Grass over TOPSOIL: Soft brown sandy gravelly clay with a low cobble content and many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and mudstone. MADE GROUND: Firm to stiff orangish brown and grey sandy gravelly clay with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and rare coal	G.L. - - - - - - - - - - - - - - - - - -	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	21.5
1.00 1.40 1.50 1.70- 2.70	ES HV D B	Av=74kPa	fragments. At 0.50m, large pocket (400mm) of brown fine to coarse sand. Stiff brown sandy gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and coal. At 0.70m, land drain encountered, running NE to SW.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2.40	HV D	Av=130+kPa	Below 2.00m, very gravelly.	Ē		•
_ 3.00	D		End of Excavation	3.00		18.5
<u>-</u>				<u>-</u>		
				E		
				E		
				E		
				-		
				Ē		
				<u>-</u>		
				-		
				Ė		
				Ė		
				E		
			1 Community and the			
Excavation	ne Tra	cked Excavator	Width (B) 0.80 Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of Change of C			
,	/2019	neu Excavator	Length (C) 3.00 Observed of Pit Details On the control of Pit Details On the control of Pit Details On the control of Pit Details	from land	drain.	
		ng excavation.	Date Backfilled 08/10/2019			

Remarks ES sample = $1 \times 60ml$ glass vial, $2 \times 258ml$ amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by JN

1 of 1 18/12/2019 Figure



TP8D14 Project omega development gi Engineer Trial Pit WSP Project No PN194027

Client wsp				Nat Co	tional Grid 355231. ordinates 390066.	9 E 3 N			Grou	ınd Leve	el 21.37	m OD
Samples and	Tests			Strata							Scale	1:50
Depth	Туре	Stratum No	Results	Description						Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.60	B ES			with many fine to c	r TOPSOIL: Soft br rootlets. Gravel oarse of sandstone	is angul	lar to one and	subrounded mudstone.		G.L. 0.40	1	21.37
- 0.40 - 0.40 - 0.50 0.60- 1.60	D HV ES B		Av=67kPa	occasiona Stiff bro	tiff orangish brow l rootlets. wn sandy gravelly	CLAY with	n a lov	v cobble	_/	0.60		20.77
- 0.60 - 1.00 - 1.40	D ES HV		Av=68kPa		Gravel is angular sandstone, siltst				-			
- 1.50 - 1.60- 2.60 - 2.00	D B D								[-		3	. 0
- - 2.40 - 2.50	HV D		Av=130+kPa									· · · · · · · · · · · · · · · · · · ·
- 3.00 -	D				End of Ex	cavation				3.00	0 0 0	18.37
- - - -									-			
- - - -									F			
									-			
<u>-</u> -									-			
-									-			
- - -									E			
<u>-</u> -												
-												
<u>-</u> -									-			
- - - -									-			
<u> </u>									-			
- - - -									-			
_									-			
Excavation		I .	ı	+		Ground		I			1	1
Plant 8 Ton Date 08/10 Shoring None.		ked E		Width (B) Length (C)	0.80 3.00	Depth Observed	Depth of Pit	Details None encount	ered	ı .		
Stability Stable			evation.	Date Backfilled	08/10/2019					- •		
Remarks	ES samp	ole = 1	l x 60ml gla	ss vial, 2 x	258ml amber glass	jars.					Logged by	JN
Symbols and abbreviations are explained on the											Figure	1 of 1 18/12/2019
accompanying key sheet. All dimensions												

All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8D15 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

National Grid Coordinates 355367.9 E 390122.8 N Ground Level 21.08 m OD

Client wsp				National Grid 355367.9 E Coordinates 390122.8 N	Ground Leve	el 21.08 m	OD
Samples and	Tests			Strata		Scale 1	
Depth	Type S	tratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.40 - 0.40	B ES B			Grass over TOPSOIL: Soft brown sandy gravelly silt with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and mudstone. Firm to stiff orangish brown mottled grey sandy	G.L. 0.40		21.08
0.40 0.50 -1.00 1.00	HV ES D ES		Av=50kPa	gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and coal. Some small pockets of orangish brown fine to coarse sand.			
- 1.40- 2.40 - 1.40 - 1.50 - 2.00	B HV D		Av=70kPa	Below 1.40m, stiff, brown.	- - - - -		
2.40- 3.00 - 2.40 - 2.50	B HV D		Av=60kPa				
_ 3.00	D			End of Excavation	3.00	0	18.08
- - - -							
-					-		
- - - -					-		
- - - -					<u>-</u> 		
- - - -					-		
<u> </u>					- - - -		
<u>-</u> - -							
- - - -					-		
[- -					-		
<u> -</u> - -							
- - - - -					-		
Evenyation				Groundwater			
Excavation Plant 8 Ton	ne Track	ed Ex		Width (B) 0.80			
Date 09/10 Shoring None. Stability Stabl	/2019			Length (C) 3.00 Observed of Pit	rom sand poc	kets.	
Remarks AGS Symbols and abbreviations are	ES sampl	e = 1	x 60ml gla	ss vial, 2 x 258ml amber glass jars.		Figure :	JN l of 1

abbreviations are explained on the accompanying key sheet.

18/12/2019

Project omega development gi Engineer wsp Trial Pit TP8D16
Project No PN194027

National Grid 355322.5 E

National Grid Coordinates Client Ground Level 21.09 m OD WSP 390122.7 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 21.09 G.L. Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with many rootlets. Gravel angular to subrounded fine to coarse of sandstone, 0.00- 0.40 1 0.20 ES Gravel is 0.40 20.69 0.40- 1.00 0.40 B D siltstone and mudstone. MADE GROUND: Firm to stiff orangish brown sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and rare fragments of clay pipe. 2 0.40 HV Av=48kPa ES 1.00- 2.00 в 1.00 20.09 1.00 1.00 ES Stiff brown sandy gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and coal. 1.40 HV Av=60kPa D 1.50 At 1.00m, land drain encountered, running E to W. 2.00- 3.00 ° 3 ≟ 2.00 D Av=78kPa 2.40 ΗV 2.50 D _3.00 D 3.00 18.09 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 09/10/2019 Details Observed Date Length (Ć) 3.00 Shoring None. 1.00 Inflow from land drain. Date Backfilled 09/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1
18/12/2019
0201341143

TP8D17 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355263.9 E 390126.1 N

Client wsp				National Grid 355263.9 E Coordinates 390126.1 N	Ground Lev	el 20.93 m	OD
Samples ar	nd Tests			Strata		Scale 1	
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.4 - 0.20 - 0.40- 1.4	ES) B			Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L.	1	20.93
- 0.40 - 0.40 - 0.50 - 1.00	D HV ES D ES		Av=73kPa	Firm to stiff brown mottled grey sandy gravelly CLAY with a medium cobble content and rare pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.			
1.40- 2.4 - 1.40 - 1.50 - 2.00	D B HV D		Av=130+kPa mc=13%	Below 1.70m, stiff, very gravelly. Locally friable.	-		-
2.40- 3.0 - 2.40- 3.0 - 2.50 - 3.00	D B HV D		Av=130+kPa		3.00		17.9
3.00 - -	Б			End of Excavation	3.00		1 17.9
- - -					<u>-</u>		
-					E		
<u>-</u>					<u>-</u>		
<u>-</u>					E		
<u>-</u> -					Ē		
-					Ē		
_					-		
-					E		
- -					Ē		
- 					_		
-							
- - -					Ē		
-					-		
<u>-</u>					<u> </u>		
- - -					-		
-					-		
-					E		
- -							
-					E		
<u>-</u>					E		
- - -							
- -					-		
= = =					E E		
- -					Ė		
-					F		
Excavation			. 1	Groundwater Width (B) 0, 80 Depth Depth Details			
~ ·	L0/2019	cked E	l	ength (C) 3.00 Observed of Pit None encour	ntered.		
Stability sta			avation.	Date Backfilled 03/10/2019			
Remarks	ES sam	ple =	1 x 60ml gla	ss vial, 2 x 258ml amber glass jars.		Logged by	JN
Symbols and abbreviations are	_						1 of 1

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

TP8D18 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Ground Level 20 62

Client wsp			National Grid 355377.5 E Coordinates 390176.7 N	Groun	d Leve	el 20.62 m (OD
Samples and	l Tests		Strata			Scale 1:	50
Depth	Type Stratum	Results	Description	D	epth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.40 - 0.40	B ES B D		Grass over TOPSOIL: Soft brown sandy gravelly countries with many rootlets. Gravel is angular to subrofine to coarse of sandstone, siltstone, mudston quartz.	clay ounded ne and	G.L. 0.40	1	20.62
- 0.40 - 0.50 - 1.00 - 1.00	HV ES D ES	Av=57kPa	Firm to stiff orangish brown mottled grey sandy gravelly CLAY with a low cobble content. Grave angular to subrounded fine to coarse of sandsto siltstone, mudstone, quartz and coal. Below 1.20m, stiff, brown, very gravelly.	el is			
1.40- 2.40 - 1.40 - 1.50 - 2.00	B HV D	Av=78kPa		- - - - - -		2 · · · · · · · · · · · · · · · · · · ·	
- - - 2.40- 3.00 - 2.50	B D			- - - - - -			
- - - 3.00	D				3.00		17.62
_ 3.00 - -			End of Excavation		3.00		17.02
- - - - - -				-			
 - - - - -							
; - - - -				- - - - -			
- - - -				- - - - - -			
- - - - -				- - - - - -			
- - - - -				- - - -			
- - - - -				- - - - -			
· — - -				- - - -			
- - - - -				- - - - -			
- - - -				- - - - -			
- - -				- - -			
_							
Excavation Plant 8 Ton			Width (B) 0.80 Groundwater Depth Depth Detai	ile			
_ 0 101	ne Tracked E 1/2019	xcavator	Length (C) 3.00 Observed of Pit	encountered.			
Stability stabl	e during exc	avation.	Date Backfilled 09/10/2019				
Remarks	ES sample =	1 x 60ml gla	nss vial, 2 x 258ml amber glass jars.			Logged by	'n
Symbols and abbreviations are							of 1 8/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

ggolischnics

TP8D19 Project omega development gi Engineer Trial Pit WSP

> National Grid Coordinates 355268.6

Project No PN194027

Client Ground Level 20.84 m OD WSP 390169.5 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.84 G.L. Grass over TOPSOIL: Soft brown slightly gravelly sandy clay with some rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone and 0.00- 0.40 1 ES 0.20 0.40 20.44 0.40- 1.40 0.40 B D 0.40 HV ES Firm to stiff brown slightly sandy gravelly CLAY with a low cobble content. Gravel is angular to Av=40kPa 1.00 D ES subrounded fine to coarse of sandstone, siltstone, 1.00 mudstone and coal. Between 0.70-3.00m, occasional boulders of sandstone 1.40- 2.40 В and mudstone. HV Av=81kPa 1.40 2 1.50 D 2.00 D 2.40- 3.00 В Below 2.40m, medium cobble content. 2.40 2.50 HV Av=130+kPa D _ 3.00 D 3.00 17.84 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 09/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 09/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and Figure 1 of 1

abbreviations are explained on the accompanying kev sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

TP8D20 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355230.5

Client Ground Level 20.89 m OD WSP 390170.2 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.89 G.L. Grass over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and 0.00- 0.40 1 ES 0.20 0.40 20.49 0.40- 1.40 0.40 B D 0.40 HV ES Firm to stiff brown slightly sandy gravelly CLAY with a low cobble content. Gravel is angular to Av=55kPa 1.00 D ES subrounded fine to coarse of sandstone, siltstone, 1.00 mudstone and coal. At 1.20m, large pocket of brown fine to coarse sand. 1.40- 2.40 В HV Av=130+kPa 1.40 2 1.50 D 2.00 D Below 2.10m, stiff, very gravelly. Locally fissured and friable. 2.40- 3.00 В 2.40 2.50 HV Av=130+kPa D _ 3.00 D 3.00 17.89 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 09/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 09/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and Figure

abbreviations are explained on the accompanying kev sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019

TP8D21 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355269.0

Client Ground Level 20.22 m OD WSP 390223.3 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.22 G.L. Grass over TOPSOIL: Soft brown slightly sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, 0.00- 0.40 1 ES 0.20 0.40 19.82 0.40- 1.40 0.40 B D mudstone and quartz. Firm to stiff orangish brown slightly sandy gravelly CLAY with a low cobble content and rare pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, 0.40 HV ES Av=67kPa 1.00 D ES 1.00 mudstone, quartz and coal. 1.40- 2.40 В HV Av=130+kPa 1.40 2 1.50 D 2.00 D 2.40- 3.00 В 2.40 2.50 HV Av=130+kPa D _ 3.00 D 3.00 17.22 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 16/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. Inflow from ground level. Date Backfilled 16/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN 1 of 1

Symbols and abbreviations are explained on the accompanying

Figure 18/12/2019

TP8D22 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

> National Grid 355324.4 E

Client wsp				Co		5324.4 E 0220.8 N		C	Ground Leve	el 20.49 m	OD
Samples and	Tests			Strata						Scale 1	
Depth	Туре	Stratum No	Results	Description					Depth	Legend	Level m OD
0.00- 0.40 0.20 - 0.40- 1.40	B ES	INO		slightly angular t	or TOPSOIL: So gravelly clay so subrounded e, mudstone an	with many ro fine to coars	otlets.	Gravel is	G.L. - 0.40	1	20.49
0.40 0.40 0.50 -1.00	D HV ES D ES		Av=59kPa	a low cob to coarse	stiff orangish able content a s sand. Grave of sandstone	nd rare pocke l is angular	ts of y	rellow fine counded fine	7		0 0 0 0 0 0 0 0
1.40- 2.40 1.40 1.50	B HV D		Av=89kPa						-		0
- 2.40- 3.00 2.40 2.50	B HV D		Av=130+kPa	Below 2.4	Om, locally f	riable and fi	ssured.		-		0 0 0 0 0 0 0
3.00	D				End	of Excavation			3.00	0 0 0 0	17.49
- - - - - - - - - - -											
- - -											
<u></u>									-		
<u>.</u> - - -									-		
: : : : :									- - -		
· - - - -											
- - - -											
-									<u>E</u>		
Evecueties						1 01	woto-				
Excavation Plant 8 Top	ne T~aa	rked E-	cavator	Width (B)	0.80	Ground Depth	Depth	Details			
_ 0 1011	/2019	ved E		Length (C)	3.00	Observed		None encounte	ered.		
Stability stabl	e durir		vation.	Date Backfilled	16/10/2019						
Remarks AGS	ES samp	ole = 1	L x 60ml gla	ss vial, 2 x	258ml amber	glass jars.		I		Logged by	JN

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure



TP8D23 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Client wsp				National Grid 355376.0 E Coordinates 390224.5 N	Ground Lev	el 20.34 m	
Samples and	l Tests		1	Strata		Scale 1	:50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.40	B ES			Grass over TOPSOIL: Soft brown slightly sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone mudstone and quartz.	G.L. 0.40	1 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	19.9
- 0.40 - 0.40 - 0.50 - 1.00	D HV ES D ES		Av=53kPa	Firm to stiff orangish brown sandy gravelly CLAY with a low cobble content and rare pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	<u> </u>		2
1.40- 2.40 - 1.40 - 1.50	B HV D		Av=67kPa		E E	2	2
2.00 - -	D				<u>-</u> -	0.0.0.0.0.0	2
2.40- 3.00 - 2.40 - 2.50	B HV D		Av=130+kPa	Below 2.30m, locally fissured and friable.	E E	0 0 0 0 0 0	2
_3.00	D			End of Excavation	3.00		17.3
- - -				and of acceptation	-		
_ - -					<u> </u>		
- - -							
- - -					Ė		
- - -					<u> </u>		
- - -					E		
 - -					E		
<u>-</u>					E		
- -					E		
= = -					<u> </u>		
- - -					Ē		
- - -					Ē		
- - -					Ė		
_ - -							
- - -					E		
- -					E		
<u>-</u>					_		
- - -					E F		
<u>-</u> -					F		
• • •					E		
					F		
- - -					Ė		
= = =							
-					-		
Excavation				Groundwater			
Date 16/10	/2019	cked E		Width (B) 0.80 Depth Observed of Pit Details			
Shoring None. Stability stabl	•	ng exc		Date Backfilled 16/10/2019 None encour	ntered.		
Dama!- —	FIG	-1	1 60	and a second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists of the second artists o		Logged by	JN
Remarks AGS Symbols and	дь sam	рте = ;	ıx o∪mıgla	ss vial, 2 x 258ml amber glass jars.			JN 1 of 1
abbreviations are							18/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

ggolischnics

TP8D24 Project omega development gi Engineer Trial Pit WSP

> National Grid Coordinates 355378.3 E 390271.8 N

Project No PN194027

Client Ground Level 20.40 m OD WSP

CHEIR WSP				Coordinates 390271.8 N	Ground Leve		
Samples and	Tests			Strata		Scale 1	:50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 - 0.40- 0.90	B ES			Grass over TOPSOIL: Soft brown slightly sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone,	G.L.	1	20.40
0.40	D HV ES B D		Av=57kPa	mudstone and quartz. Firm to stiff yellowish brown sandy gravelly CLAY with a medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	0.90		19.50
1.00 - 1.40 - 1.50	ES HV D		Av=96kPa	Stiff brown slightly sandy gravelly CLAY with a medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.			2
1.90- 2.90 2.00	B D				-	3 0 0 0	
- 2.40 - 2.50 - - - 3.00	HV D		Av=130+kPa	At 2.70m, large boulders of sandstone and mudstone.	3.00		17.40
_ 3.00 - -	2			End of Excavation	-		1,.10
· - - -					<u>-</u> - -		
<u>-</u> - -					-		
- - - -					-		
<u>.</u> .					-		
- - -					- - -		
_ - -					-		
<u>-</u> - -					<u></u>		
- - -					<u> </u>		
-					-		
- - - -					- - -		
-					-		
					- - -		
<u>-</u>							
: 					<u> </u>		
-					-		
- - - —					<u>-</u>		
							
Excavation				Groundwater Width (B)			
Date 17/10 Shoring None.	/2019			Width (B) Length (C) Depth Observed Observed None encoun	tered.		
Stability stabl	e durin	ng exca	avation.				
Pomarke F	FC camr	10 - 1	1 v 60ml als	ass vial, 2 x 258ml amber glass jars.		Logged by	JN

Remarks ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by JN

1 of 1 18/12/2019 Figure

وعماعطسانع

TP8D25 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Ground Level 20 40

Client wsp				Nat Cod	tional Grid 355 ordinates 390	316.1 E 272.2 N		C	Ground Leve	el 20.40 m	OD
Samples and	Tests		1	Strata						Scale ²	1:50
Depth	Type	Stratum No	Results	Description					Depth	Legend	Level m OD
0.00- 0.40 0.20	B ES B			gravelly to subrou	r TOPSOIL: Sof clay with many nded fine to c and quartz.	rootlets.	Gravel	is angular	G.L. 0.40	1	20.4
0.40 0.40 0.50 -1.00	D HV ES D ES		Av=68kPa	CLAY with to subrou	tiff orangish a medium cobb nded fine to c quartz and co	le content. oarse of san	Grave1	l is angular			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.40- 2.40 1.40 1.50	B HV D		Av=89kPa	Relow 1 9	Om, stiff, loc	ally ficcura	d and t	Friable		· · · · · · · · · · · · · · · · · · ·	0 0
2.40- 3.00 2.40	B HV		Av=130+kPa	Below 1.5	om, scill, loc	arry rissure.	a and i				0 0
2.50	D									0.0.0.00	
_ 3.00	D				End o	f Excavation			3.00	0	17.4
									_		
_									Ŀ		
									ļ.		
									_		
_									L		
									-		
									E		
									Ė		
_									_		
									<u>-</u> -		
-									_		
_									_		
									_		
									=		
=									_		
									Ē		
									-		
									Ē		
-									_		
									Ē		
									_		
									E		
=									<u> </u>		
Excavation						Ground	water				
Plant 8 Ton	ne Tra	cked F		Width (B)	0.80	Depth	Depth of Pit	Details			
Date 17/10 Shoring None.	/2019			Length (Ć)	3.00	Observed	of Pit	None encounte	red.		
Stability Stabl		ng exca	avation.	Date Backfilled	17/10/2019			Gilduite			
Remarks	ES sam	ple = '	1 x 60ml gla	ss vial, 2 ×	: 258ml amber g	lass iars.		<u> </u>		Logged by	JN
AGS Symbols and			Jum_ g_u		g	,				Figure	1 of 1
bbreviations are										90	18/12/2019

abbreviations are explained on the accompanying key sheet.

18/12/2019 ggolischnics

All dimensions are in metres.

Logged in accordance with BS5930:2015

Project omega development gi Engineer Trial Pit TP8D26 WSP

> National Grid Coordinates 355279.1

Project No PN194027

Client Ground Level 20.44 m OD WSP 390270.6 Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.44 G.L. Grass over TOPSOIL: Soft brown slightly sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, 0.00- 0.40 1 ES 0.20 0.40 20.04 0.40- 1.40 0.40 B D mudstone and quartz. Firm to stiff brown sandy gravelly CLAY with a medium cobble content and occasional pockets of yellow fine to coarse sand. Gravel is angular to subrounded of sandstone, siltstone, mudstone, quartz and coal. 0.40 HV ES Av=60kPa 1.00 D ES 1.40- 2.40 В HV Av=73kPa 1.40 2 1.50 D 2.00 D Below 1.90m, stiff. 2.40- 3.00 В 2.40 2.50 HV Av=130+kPa D _ 3.00 D 3.00 17.44 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 17/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. Inflow from ground level. Date Backfilled 17/10/2019 Stability Stable during excavation. ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN

Remarks AGS

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure 1 of 1 18/12/2019



TP8D27 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Client wsp				National Grid 355230.7 E Coordinates 390272.5 N	Ground Lev		OD
Samples and	Tests	T	T	Strata		Scale 1	1
Depth	Туре	Stratum No	Results	Description	Depth	Legend	m OD
0.00- 0.40 0.20 0.40- 1.40	B ES B			Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L. 0.40	.0.0.0.0	20.
0.40 0.40 0.50 1.00	D HV ES D ES		Av=58kPa	Firm to stiff orangish brown sandy gravelly CLAY with a low cobble content and occasional pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	, [2
1.40- 2.40 1.40 1.50 2.00	B HV D		Av=61kPa		-		2
2.40- 3.00	В			Below 2.10m, stiff, locally fissured and friable.	-		2
2.40 2.50	D HV		Av=130+kPa		E		-
3.00	D			End of Excavation	3.00	0 0 0 0 0 0 0	17
					-		
					Ē		
					-		
					Ė		
					-		
					E		
					F		
					Ē		
					Ē		
					<u>-</u>		
					<u>-</u>		
					<u>-</u> -		
					_		
					-		
					<u>-</u>		
					E		
					_		
					E		
					Ē		
					<u> </u>		
					-		
					E		
					Ē		
					_		
Excavation				Groundwater			
ate 17/10	/2019	cked E		Width (B) 0.80 Depth Observed of Pit Details			
Shoring None.				Date Backfilled 17/10/2019 None encoun	tered.		
Stability Stabl	e duri:	ng exc	avation.	==			
						Logged b	***
Remarks AGS	ES sam	ple = :	ıx 60ml gla	ss vial, 2 x 258ml amber glass jars.		,	JN 1 of :

Symbols and abbreviations are explained on the accompanying key sheet.

Figure

1 of 1 18/12/2019 <u>geole</u>dmies

All dimensions are in metres. Logged in accordance with BS5930:2015

TP8D28 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 355227.7 390317.5

Client Ground Level 20.84 m OD WSP Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.84 G.L. Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, 0.00- 0.40 1 ES 0.20 0.40 20.44 0.40- 1.40 0.40 B D siltstone, mudstone and quartz. 0.40 HV ES Firm to stiff orangish brown sandy gravelly CLAY with a low cobble content. Gravel is angular to Av=48kPa 1.00 D ES subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal. 1.00 Below 1.10m, occasional pockets of grey silt. 1.40- 2.40 В HV Av=82kPa 1.40 2 1.50 D 2.00 D 2.40- 3.00 В 2.40 2.50 HV Av=130+kPa D _ 3.00 D 3.00 17.84 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 17/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 17/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and abbreviations are Figure 1 of 1

explained on the accompanying kev sheet.

18/12/2019 ezimbelbeg WSP

Trial Pit

Project omega development gi Engineer Trial Pit TP8D29 WSP Project No PN194027

> National Grid Coordinates 355265.4 390319.5

Ground Level 20.67 m OD

Client Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 20.67 G.L. Grass over TOPSOIL: Soft brown slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, 0.00- 0.40 1 ES 0.20 0.40 20.27 0.40- 1.40 0.40 B D siltstone, mudstone and quartz. Firm to stiff orangish brown sandy gravelly CLAY with a low cobble content and rare pockets of grey silt. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal. 0.40 HV ES Av=64kPa 1.00 D ES 1.00 1.40- 2.40 В Av=67kPa HV 1.40 2 1.50 D 2.00 D Below 2.10m, locally fissured and friable. 2.40- 3.00 В 2.40 2.50 HV Av=130+kPa D _ 3.00 D 3.00 17.67 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 18/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 18/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and 1 of 1

abbreviations are explained on the accompanying

Figure

18/12/2019 ezimbelbeg

kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8D30 Project omega development gi Engineer Trial Pit WSP Project No PN194027

National Grid Coordinates 355326.2 390373.8 Client WSP

Ground Level 21.06 m OD

Client wsp			Coordinates 390373.8 N	Ground Leve		OD
Samples and			Strata		Scale 1	1
Depth	Type S	Stratum No Results	Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 0.40- 0.80	B ES		Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L.	1	21.0
0.40 0.40 0.50 -0.80-1.80 0.80 1.00	D HV ES B D ES	Av=81kPa mc=13% mc=19%	PROBABLE MADE GROUND: Firm to stiff orangish brown mottled grey sandy gravelly clay with a low cobble content and some pockets of brown silt. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	0.80		20.2
1.40 1.50 1.80- 2.80	HV D B	Av=99kPa	Stiff brown sandy gravelly CLAY with a medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2
2.40 2.50	HV D	Av=102kPa				- - - - -
_ 3.00	D			3.00		18.0
			End of Excavation	E		
				E		
-				-		
				E		
				E		
				E		
•						
				-		
				E		
				E		
				E l		
				E		
				Ė		
				-		
_						
Excavation			Groundwater			
Plant 8 Tonr Date 03/10/ Shoring None.		ed Excavator	Width (B) 0.80 Depth Observed of Pit Details None encour	ntered		
Stability Stable	e during	excavation.	Date Backfilled 03/10/2019	.vereu.		
?emarks =™ ¤	S sampl	e = 1 x 60ml al	ass vial, 2 x 258ml amber glass jars.		Logged by	JN
ymbols and		5-				1 of 1

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019 Figure

TP8D31 Project omega development gi Engineer Trial Pit WSP PN194027 Project No National Grid 355284.3 E Ground Level 31 06 Client

Client wsp				Coordinates 390376.8 N	Ground Leve	el 21.06 m	OD
Samples and	Tests			Strata		Scale 1	:50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
0.00- 0.40 0.20 - 0.40- 1.40 0.40 0.40	B ES B D		Av=54kPa	Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz. Firm to stiff yellowish brown sandy gravelly CLAY	G.L. - - - - - - - - - - - - - - - -	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.66
0.50 - 1.00 1.00	ES D ES		iiv=3 iii u	with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal. Between 0.40-0.70m, some rootlets.	-		0
1.40- 2.40 1.40 1.50	B HV D		Av=64kPa	Below 1.40m, stiff, brown.	- - - -	2	0
_ 2.00 - 2.40- 3.00 2.40	D B HV		Av=123kPa		-		0
2.50	D		AV=123RPa				
_ 3.00	D			End of Excavation	3.00		18.06
• •					_		
• •					-		
-					_		
					E		
_					_		
-							
_							
					-		
-							
=							
					-		
_					<u> </u>		
-							
•							
_							
Excavation				Groundwater			
Plant 8 Ton	ne Trac	ked E	xcavator	Width (B) 0.80 Depth Depth Details			
	/2019		-	Length (C) 3.00 Observed of Pit None encour	ntered.		
Stability Stabl		ng exc	avation.	Date Backfilled 02/10/2019			
Domorko -	TC came	210 - 1	1 == 60m1 ~1	ass vial, 2 x 258ml amber glass jars.		Logged by	JN

Remarks ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by JN

1 of 1 18/12/2019 Figure



TP8D32 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

National Grid Coordinates 355228.0 E 390376.4 N Ground Level 21.12 m OD

Client wsp				National Grid 355228.0 E Coordinates 390376.4 N	Ground Leve	el 21.12 m	OD
Samples and	Tests			Strata		Scale 1	:50
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.60	B ES			Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subangular fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L. 0.40	1 2	21.12
- 0.40 - 0.40 - 0.50 - 0.60- 1.60 - 0.60	D HV ES B D ES		Av=40kPa	MADE GROUND: Firm to stiff brown sandy gravelly clay with a low cobble content and occasional pockets of fine to coarse yellow sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	0.60		20.52
- 1.40 - 1.50 - 1.60- 2.60 - 2.00	HV D B		Av=63kPa	Stiff brown sandy gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal. At 0.60m, land drain encountered, running NE to SW.	-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2.40 - 2.50	HV D		Av=107kPa	Below 2.20m, locally fissured and friable.	- - - - - -		-
3.00	D				3.00		18.12
				End of Excavation	-		
- - - - -					- - - - - -		
					- - - - - -		
					-		
- - - - -					-		
					- - - - - -		
-					- - - - - -		
- - - -					- - - - -		
Excavation				Groundwater			
Plant 8 Ton		ked E		Width (B) 0.80 Depth Depth Details			
Shoring None. Stability Stabl	e durin		avation.	Length (C) 3.00 Observed of Pit 0.60 Slow inflow Date Backfilled 02/10/2019	from land	drain.	
Remarks AGS Symbols and abbreviations are	ES samp	ole = 1	l x 60ml gla	ss vial, 2 x 258ml amber glass jars.		Figure	JN 1 of 1 18/12/2019

abbreviations are explained on the accompanying key sheet.

18/12/2019

All dimensions are in metres.

Logged in accordance with BS5930:2015

TP8D33 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

Client wsp			National Grid 355126.4 E Coordinates 390370.8 N	Ground Lev	el 21.72 m	OD
Samples and	Tests		Strata		Scale 1:	:50
Depth	Type Stratum	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.80 - 0.40	B ES B		Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subangular fine to coarse of sandstone, siltstone, mudstone and quartz.	G.L. 0.40	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.72
0.40 0.50 0.80-1.80 0.80-1.00	HV ES B D	Av=61kPa	Firm to stiff yellowish brown mottled grey sandy gravelly CLAY with many pockets of greyish brown silt. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.	0.80		20.92
1.40 - 1.50 - 1.80- 2.80 - 2.00	HV D B	Av=68kPa	Stiff brown sandy gravelly CLAY with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	- - - - -	3	
- 2.40 - 2.50	HV D	Av=130+kPa		-		
- - - - - - 3.00	D			3.00		18.72
-			End of Excavation			101,12
- - - - - -				- - - - -		
- - - - -				- - - - -		
-				-		
- - - - -				- - - - -		
- - - - - -				- - - - -		
- - - -				-		
- - - - -				- - - -		
- - - - - -				- - - -		
- - - - -				<u>-</u> - - -		
- - - - -				- - - -		
Excavation		<u> </u>	Groundwater			
D	ne Tracked E /2019	L	Vidth (B) 0.80 Depth Observed of Pit Details None encour	tered.		
Stability stabl		avation.	Date Backfilled 02/10/2019			
Remarks Symbols and abbreviations are explained on the	ES sample =	1 x 60ml glas	ss vial, 2 x 258ml amber glass jars.		Figure 1	IN L of 1 8/12/2019

explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015



Project omega development gi Engineer Trial Pit TP8D34 WSP Project No PN194027

> National Grid Coordinates 355087.9 390418.8

Client Ground Level 22.29 m OD WSP Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Depth Legend Description m OD No 22.29 G.L. Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and 0.00- 0.40 1 ES 0.20 0.40 21.89 0.40- 1.40 0.40 B D 0.40 Firm to stiff yellowish brown mottled grey sandy gravelly CLAY with a low cobble content and HV Av=79kPa ES 1.00 D ES occasional pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of 1.00 sandstone, siltstone, mudstone, quartz and coal. 1.40- 2.40 В HV Av=79kPa Below 1.60m, brown. Pockets of sand are absent. 1.40 2 1.50 D At 1.70m, boulders of sandstone and mudstone. 2.00 D Below 2.20m, locally friable and fissured. 2.40- 3.00 В 2.40 2.50 HV Av=88kPa D _ 3.00 D 3.00 19.29 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator 02/10/2019 Details Observe Date Length (Ć) 3.00 Shoring None. None encountered. Date Backfilled 02/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and Figure 1 of 1

abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

TP8D35 PN194027 Project omega development gi Engineer Trial Pit WSP Project No

National Grid Coordinates 355129.5 E 390418.3 N Ground Level 22.09 m OD

Client wsp				National Grid 355129.5 E Coordinates 390418.3 N	Ground L	evel 22.09 m	OD
Samples and	Tests			Strata		Scale	
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 0.70	B ES B			Crops over TOPSOIL: Soft brown sandy gravelly clay with many rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and quartz.		1	22.09
- 0.40 - 0.40 - 0.50 - 0.70- 1.70 - 0.70 - 1.00	D HV ES B D ES		Av=61kPa	MADE GROUND: Firm to stiff orangish brown slightly gravelly sandy clay with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and fragments of clay pipe.	0.7		21.39
- 1.40 - 1.50 - 1.70- 2.70	HV D B		Av=41kPa	Stiff brown sandy gravelly CLAY with a medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and coal.	-	3 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	0 0 0 0 0
[- 			3 00l-D-	At 0.70m, land drain encountered, running NE to SW.	Ę		0 0
_ 2.40 - 2.50 _	D HV		Av=88kPa	Below 2.40m, low boulder content. Below 2.50m, locally friable and fissured.	E	0.0.0.0.0.0	•
_ 3.00	D			End of Evgavation	3.0	0	19.09
- - - - -				End of Excavation	- - - -		
<u>-</u>					<u> </u>		
<u> </u>					Ė		
- - -					Ė		
<u> </u>					<u> </u>		
-					<u> </u>		
- - -					Ė		
<u> </u>							
- - -					-		
-					Ē		
<u> </u>							
-					_		
_ - -					Ē		
_					E		
_					E		
<u>-</u> -					ļ.		
<u> </u>					<u> </u>		
[Ē		
<u> </u>					E		
-					E		
Excavation				Groundwater			
Plant 8 Ton		cked E	xcavator	Width (B) 0.80 Depth Depth Details			
Date 02/10 Shoring None. Stability Stabl		ng exca	avation.	Length (Ć) 3.00 Observed of Pit None encour	ntered.		
Down and a	PG -	-1-	1 60	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		Logged by	TN
Remarks AGS Symbols and abbreviations are	es sam	рте = :	ıx b∪migla	ass vial, 2 x 258ml amber glass jars.		Logged by Figure	JN 1 of 1 18/12/2019

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

18/12/2019

TP8D36 PN194027 Trial Pit Project omega development gi Engineer WSP Project No

Client wsp				National Grid 355171 Coordinates 390417	.8 E .3 N	G	Fround Leve	el 21.70 m	n OD
Samples and	Tests			Strata				Scale	1:50
Depth	Туре	Stratum No	Results	Description			Depth	Legend	Level m OD
- 0.00- 0.40 - 0.20 - 0.40- 1.40 - 0.40	B ES B		mc=28%	Crops over TOPSOIL: Soft be with many rootlets. Grave subrounded fine to coarse mudstone and quartz.	l is subangular	to	G.L. 0.40	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.70
0.40 0.50 -1.00	HV ES D ES		Av=52kPa	Firm to stiff dark brown m CLAY with a medium cobble to subrounded fine to coar mudstone, quartz and coal.	content. Grave se of sandstone	el is angular			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
- - 1.40- 2.40 - 1.40 - 1.50	B HV D		Av=63kPa	Between 0.50-0.70m, some r Below 1.60m, stiff, brown.			- - - -		0 0
2.00 	D			At 2.10m, large sandstone	boulders.		<u>-</u> - -		0 0
- 2.40- 3.00 - 2.40 - 2.50 - 3.00	B HV D		Av=106kPa mc=12%	Below 2.70m, locally friab	le and fissured	ı .	3.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.70
_ 3.00 - [End of E	xcavation		-		10.70
- - - -							- - - -		
_ - -							- - -		
- - - -							- - -		
<u>-</u> E							- - -		
- - -							<u>-</u> -		
<u>-</u> -							<u>-</u> -		
-							<u>-</u> -		
- - - -							<u>-</u> -		
							- - - -		
<u>-</u> 							- - -		
<u>-</u> E							- - -		
- - -							-		
- - - -							- - -		
- <u>-</u> -							<u>-</u>		
Excavation		<u> </u>		<u> </u>	Groundwater				
	/2019	cked Ex	kcavator V L	Vidth (B) 0.80 ength (C) 3.00	Depth Depth Observed of Pit	Botano	mod		
Stability Stabl	e duri:		avation.	Date Backfilled 02/10/2019		None encounte	reu.		
Remarks	ES sam	ple = 1	l x 60ml glas	ss vial, 2 x 258ml amber glas	s jars.			Logged by	JN
Symbols and abbreviations are explained on the accompanying								Figure	1 of 1 18/12/2019
key sheet. All dimensions								9	ज्जास्त्र

All dimensions are in metres.

WSP

Trial Pit

Project omega development gi Engineer Trial Pit TP8D37 WSP Project No PN194027

> National Grid Coordinates 355231.1 390419.7

Client Ground Level 21.48 m OD Scale 1:50 Samples and Tests Strata Stratum Depth Type Results Description Depth Legend m OD No G.L. 21.48 Crops over TOPSOIL: Soft brown sandy gravelly clay with a low cobble content. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, 0.00- 0.40 1 0.20 ES 0.40 21.08 0.40- 0.70 mudstone and quartz. Many rootlets. 2 0.40 D MADE GROUND: Firm to stiff orangish brown slightly gravelly sandy clay with a low cobble content and some pockets (up to 10mm) of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse 0.40 HV Av=69kPa 0.70 20.78 ES 0.70- 1.70 0.70 В of sandstone, siltstone, mudstone, quartz and coal. 1.00 ES Occasional rootlets. 1.40 HV Av=62kPa Stiff brown mottled orange sandy gravelly CLAY with a low cobble content and some pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone, quartz and 1.50 1.70- 2.70 в 3 ° 2.00 D coal. At 0.70m, land drain encountered, running NE to SW. 2.50 D Below 2.10m, locally friable and fissured. _3.00 D 3.00 18.48 End of Excavation **Groundwater** Excavation Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator Observed Date Length (C) 01/10/2019 3.00 Shoring None. 0.70 Fast inflow from land drain. Date Backfilled 01/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and Figure

abbreviations are

explained on the accompanying kev sheet. All dimensions

are in metres.

Logged in accordance with BS5930:2015

1 of 1 18/12/2019

وعفاعطنمنع

Project omega development gi Engineer Trial Pit TP8D38 WSP Project No PN194027

> National Grid Coordinates 355278.8

Client Ground Level 21.20 m OD WSP 390418.5 Scale 1:50 Samples and Tests Strata Stratum Depth Type Depth Results Description Legend m OD No 21.20 G.L. Crops over TOPSOIL: Soft brown sandy gravelly clay with some rootlets. Gravel is angular to subrounded fine to coarse of sandstone, siltstone, mudstone and 0.00- 0.40 1 0.20 ES 0.40 20.80 0.40- 1.40 0.40 B D Firm to stiff orangish brown mottled grey slightly gravelly sandy CLAY with a low cobble content and some pockets of yellow fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone, 0.40 HV Av=55kPa ES 1.00 D ES 1.00 siltstone, mudstone, quartz and coal. From 0.40m, occasional rootlets and pockets of organic material. 1.40- 2.40 В HV Av=51kPa 1.40 2 1.50 D At 0.60m, land drain encountered, running NE to SW. 2.00 D Below 1.80m, medium cobble content. 2.40- 3.00 В 2.40 2.50 HV Av=83kPa D _ 3.00 D 3.00 18.20 End of Excavation Excavation **Groundwater** Depth of Pit Depth Plant Width (B) 8 Tonne Tracked Excavator Observe Date Length (Ć) 01/10/2019 3.00 Shoring None. Fast inflow from ponded surface water. Date Backfilled 01/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by JN Symbols and Figure 1 of 1 abbreviations are

18/12/2019 وعفاعطنمنع

explained on the

Trial Pit

TP8E01 Project omega development gi Engineer Trial Pit WSP

Project No PN194027

National Grid Coordinates 354544.0 E 390615.2 N Client Ground Level 25.12 m OD WSP

CHEIR WSP				Coordinates 390615.2 N	Oround Lev	ei 25.12 m	OD
Samples and	Tests			Strata		Scale 1	:50
							Level
Depth	Туре	Stratum No	Results	Description	Depth	Legend	m OD
		140			_ G.L.		25.12
_				Grass over TOPSOIL: Soft dark brown slightly sandy	-	1	
0.20	ES			clay with some rootlets.	0.20	2	24.92
_ _ 0.50- 1.00	В			POSSIBLE MADE GROUND: Yellowish brown slightly clayey	—∕F 0.40		24.72
- 0.50	D			fine to medium sand.	Æ	0: 0: 0: 0: 0	2
0.50	ES				- /-}	3	
F				Firm reddish brown slightly sandy slightly gravelly	F	3	•
_1.00	ES			CLAY. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and coal.		0.000	2
F					1.20		23.92
Ī.				End of Excavation	Į.		
<u> </u>					_		
-					-		
_					ļ.		
_					-		
Į.					<u> </u>		
E					E		
-					-		
_					ļ.		
E					E		
F					F		
<u> </u>					ļ.		
-					F		
<u> </u>					ļ.		
Ė					E		
F					F		
					L		
F					-		
Ī.					Į.		
E					<u>E</u>		
F					F		
					Ė		
-					-		
_							
-					F		
F					F		
_					Ė		
-					-		
ļ.					<u> </u>		
_					_		
F					F		
					Ė		
-					-		
<u> </u>					ļ.		
-					F		
_					F		
					Ė		
F					-		
F					F		
ţ					Ė		
F					F		
<u> </u>					L		
E					E		
F					F		
L					L		
F					F		
ļ					ļ.		
L					Ł		
F					F		
Ė					E		
F					F		
F					F		
 					-		
F					F		
<u> </u>							
F				<u> </u>			
Excavation				Groundwater			
	tools.		W	/idth (B) 0.50 Depth Observed of Pit Details			
Date 23/10	/2019		Le	3 (-) 0.50			
Shoring None.			ח	ate Backfilled 23/10/2019 None encoun	terea.		
Stability Stabl	e duri	ng exca	avation.				

Remarks ES sample = $1 \times 60ml$ glass vial, $2 \times 258ml$ amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by MM

1 of 1 18/12/2019 Figure



Trial Pit

TP8E02 Project omega development gi Engineer Trial Pit WSP Project No PN194027

> National Grid Coordinates 354430.8

Client Ground Level 25.96 m OD WSP 390650.1 Scale 1:50 Samples and Tests Strata Stratum Depth Туре Results Depth Legend Description m OD No 25.96 G.L. Grass over TOPSOIL: Soft dark brown slightly sandy 1 0.20 clay with some rootlets. ES 0.30 25.66 0.50- 1.00 0.50 Soft reddish brown mottled grey slightly sandy slightly gravelly CLAY with a low cobble content of sandstone. Gravel is subangular to subrounded fine of sandstone, mudstone and coal. B D 0.50 ES 2 -1.00 ES 1.20 24.76 End of Excavation Excavation **Groundwater** Depth Observe Depth of Pit Plant Width (B) Hand tools. 23/10/2019 Details Date Length (Ć) 0.50 Shoring None. None encountered. Date Backfilled 23/10/2019 Stability Stable during excavation. Remarks AGS ES sample = 1 x 60ml glass vial, 2 x 258ml amber glass jars. Logged by MM Symbols and abbreviations are Figure 1 of 1

explained on the accompanying key sheet.

18/12/2019 esimbeloeg

All dimensions are in metres.

Logged in accordance with BS5930:2015

Trial Pit

TP8E03 Project omega development gi Engineer Trial Pit WSP

PN194027 Project No

National Grid Coordinates 354291.3 390693.7 Client Ground Level 27.00 m OD WSP

CHEIR WSP					ordinates 390693	• / ! •			orodiia Ecve	1 27.00 111		
Samples and	Tests			Strata	Strata				Scale 1:50			
Depth	Туре	Stratum	Results	Description					Depth	Legend	Level	
Борин	1) PO	No	results	Description					·	Logona	m OD	
_				Grass ove	r TOPSOIL: Soft da	ark brown	glight	tly sandy	G.L.		27.00	
0.20	ES			clay with	rootlets.	2111 21011	Direction	ery bandy		1	<u> </u>	
0.50- 1.00	В			MADE CDOU	ND: Soft to firm	roddiah h		attled areas	0.30		26.70	
0.50	D			and vello	w glightly gandy s	gliahtly	gravell	lv clav.	F I			
0.50	ES			Gravel is	angular to subrou	unded fir	to med	dium of	<u> </u>	2	*	
_1.00	ES			sandstone	, mudstone, coal a	and ceram	nic frag	gments.	-		8	
_ 1.00	ES								F			
					End of E				1.20	000000000000000000000000000000000000000	25.80	
_					End of E	xcavation	l		<u>L</u>			
									-			
									Ę.			
=												
									E			
									-			
									E I			
									<u>E</u>			
									E			
=									-			
									F			
									ļ ļ			
									t l			
									<u> </u>			
									F I			
_												
									E			
									-			
									F			
									Į.			
									<u> </u>			
									-			
									E l			
									F I			
									E			
-									<u> </u>			
									<u> </u>			
									E			
									Ę.			
									<u> </u>			
•												
									E			
									= -			
									F I			
									-			
•									=			
									<u> </u>			
									<u>L</u>			
									-			
									F			
<u> </u>									<u> </u>			
									t l			
									<u> </u>			
									F			
									ţ l			
									<u> </u>			
-									F			
Excavation				· — —		Ground						
	tools.			Width (B)	0.50	Depth	Depth of Pit	Details			· · · · · · · · · · · · · · · · · · ·	
Date 23/10 Shoring None.	/2019			Length (Ć)	0.50	Observed	UI PIT	None encounte	red			
				Date Backfilled	23/10/2019			mone encounte	er ea.			
Stability stabl	e duri	ng exca	avation.									

Remarks AGS ES sample = $1 \times 60ml$ glass vial, $2 \times 258ml$ amber glass jars.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Logged by MM Figure



APPENDIX 5

Trial Pit Photographs

Project Number: PN194027



TP8A01 Pit



TP8A01 Spoil



Project Number: PN194027

Project : OMEGA DEVELOPMENT





TP8A02 Pit TP8A02 Spoil



Project Number: PN194027

Project : OMEGA DEVELOPMENT





TP8A03 Pit TP8A03 Spoil



Project Number: PN194027

Project : OMEGA DEVELOPMENT





TP8A04 Pit TP8A04 Spoil



Project Number: PN194027

Project : OMEGA DEVELOPMENT





TP8A08 Pit TP8A08 Spoil



Project Number: PN194027



TP8AII Pit



Project Number: PN194027

Project : OMEGA DEVELOPMENT





TP8B03 Pit TP8B03 Spoil



Project Number: PN194027

Project : OMEGA DEVELOPMENT





TP8B04 Pit TP8B04 Spoil



Project Number: PN194027



TP8B05 Pit



TP8B05 Spoil



Project Number: PN194027



TP8B06 Pit



TP8B06 Spoil



Project Number: PN194027



TP8B07 Pit



TP8B07 Spoil



Project Number: PN194027



TP8B08 Pit



