# Project WHITWORTH COMMUNITY HIGH SCHOOL Engineer

Project	WHITW	ORTH C	OMMUNITY	HIGH :	SCHOOL		Engineer	CAMPBELL	REITH LLP		Boreho Project I		<b>S03</b>	
Client	CAMPE	BELL RE	ITH LLP				National Grid Coordinates	388116.4 417979.3	E N		Ground	Level 22	5.15 m	OD
Sampl	ing			Prope	rties		Strata						Scale 1	:50
Depth		Sample Type	Depth Cased & (to Water)	Strength kPa	1 W %	SPT N	Description					Depth	Legend	Level m OD
0.20	• 0.50 • 1.20	B ES ES ES B					slightly sa rootlets. G	ndy slight ravel is a	ly gravelly a ngular to sul	ble dark brow clay with som bangular fine udstone, coal	e to	G.L.		225.15
1.20	1.65 2.00 2.00		(DRY)	TR=	16 100%	S8	slightly sa subangular sandstone. coarse of l	ndy gravel cobble cor Gravel is imestone,	ly clay with itent of limes angular to su sandstone and	ubrounded fin	ir to ie to	1.30		223.85
2.00	3.00 3.00 2.45	B D ES	(DRY)	TR=	100% 14	<b>s</b> 35	gravelly CL to coarse o coal. Local	AY. Gravel of limestor ly grading ocally ver	is angular e, siltstone to clayey s y stiff. Occa	to subrounded , sandstone a	l fine Ind	-		
3.00	4.00 4.00 3.45	В	(DRY)	TR=	90% 10	S24						-		
4.00	5.00 5.00 4.45	в	(DRY)	TR=	70% 14	S18						-		
5.00-	5.45	D	(WET)		13	S14	At 5.00m, f	ïrm.				5.45	$\nabla \nabla \overline{ \left( \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \\ \end{array}{} \\ \end{array} \right)} \left( \begin{array}{c} \end{array}{} \end{array} \right)} \left( \begin{array}{c} \end{array}{} \end{array} \right)} \left( \begin{array}{c} \end{array}{} \\ \end{array} \right)} \left( \begin{array}{c} \end{array}{} \end{array} \right)} \left( \end{array} \right)} \left( \begin{array}{c} \end{array}{} \end{array} \right)} \left( \end{array} \bigg)} \left( \end{array} \right)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( \end{array} \bigg)} \left( \\ \bigg)} \left( $	219.70
								Enc	l of Borehole					219.70
												-		

Boring				Progre	ess			Groundwater									
Depth	Hole Dia	Technique	Crew	Depth of Hole		Depth to Water	Date	Time	Depth Struck	Depth Cased	Rose to	in Mins	Depth Sealed	Remarks Groundw			
1.20 5.45		Inspection Pit Dynamic Sampler	KD/DP KD/DP	G.L. 5.45		5.45	27/10/20 27/10/20							Seepage - no rise.			
Remar Symbols a abbreviation explained accompan key sheet.	and ons are on the nying	Inspection pit hand Iss sample = $2 \times via$ The Dynamic Sample A 50mm standpipe wa 4.00m with flush ha filter up to 1.00m,	ls, 1 x Borehole s insta ckable p	plasti e was t lled to protect	c jar ; ermina 4.00m ive cov	and 2 x ted at ! with a ver. Bac	amber ja 5.45m dep geowrapp ckfill de	rs. th upo ed slo	n reach tted se	ning sc ection	from 1.	00m to	· Eigu		of 1 02/2021		
All dimens are in met		Logged in accordance with BS	5930:2015 +	A1:2020										$\overline{\nabla}$			

Project WHITWORTH COMMUNITY HIGH SCHOOL

Client CAMPBELL REITH LLP

Engineer CAMPBELL REITH LLP

388109.1 E 417954.7 N

National Grid Coordinates Borehole Project No WS04 PN204160

Ground Level 225.69 m OD

Sampling			Prope	rties		Strata										Sc	cale 1	:50	
Depth	Sample Type	Depth Cased & (to Water)	Strength kPa	w %	SPT N	Descript	ion							Ι	Depth		Legend	Leve m OD	
0.10- 0.40	_ в					MADE 0	GROUND	: Black t	armaca	dam.				Ł	G.L. 0.10		****	225. 225.	
0.30 0.50 0.50	ES B ES					\ subang	gular 1	: Light b medium to ub-base).						Ē	0.45 0.60			225. 225.	
0.60- 1.00	E B					\ organi	ic clay	: Firm da y. Gravel f limesto	is an	gular t	to suba:	ngular		Ē			_		
1.20- 1.65 1.20 2.00 1.40- 2.00	р В В	(DRY)	TR=	100% 11	S8	slight subrou	tly sa	DE GROUND ndy grave fine to c ne.	lly cl	ay. Gra	avel is	angula	r to		1.20 1.40			224. 224.	49 29
2.00- 3.00 2.00 3.00 2.00- 2.45 2.00	B D ES	(WET)	TR=	70%	<b>S16</b>	coarse	s SAND	own grave . Gravel rse of sa	is sub	angula	r to su	brounde		Ē		⊻.	0.0.0 .0.0		
	Ē	(1777)			aro (	gravel sand.	lly sa Grave	mottled ndy CLAY l is suba udstone,	with f ngular	requent to sub	t bands prounde	of <sup>-</sup> gra d fine	to						
3.00- 3.39	D	(WET)			\$50/ 235	At 3.3	39m, co	obble obs	tructi	on.				Ē			0.0.0		
	Ē							En	d of B	orehole	9			Ē	3.39			222.	30
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Boring Depth Hole		Techniqu	e	Crew	Progre Depth	Depth L		Date	Time	Depth	Depth	r Rose to	in		epth			rks on	
1.20 0.40	Inspect	ion Pit	5	KD/DP	of Hole G.L.		Water	27/10/20	08:00	Struck 2.00			Mins	Se	aled		epage	dwater - no	
3.39 0.10	Dynamic	2 Sample	ər	KD/DP	3.39		2.00	27/10/20	18:00							ri	se.		
Remarks	Inspect	ion pit	hand	excava	ted to	1.20m de	epth a	nd no ser amber ja	vices	were fo	ound.				Log	ged	by	DP	
Symbols and	ES samp The Dyr obstruc	namic Sa	x vial: ample B	s, 1 x orehole	p⊥asti ∋ was t	c jar ar erminate	ed at :	amber ja 3.39m dep	rs. th due	to the	e prese	nce of	an		Figu		-	1 of 1	
abbreviations are explained on the accompanying	Backfil	ll detai				e: bento up to gi		seal up t level.	o 1.00	m, ari:	sings u	p to O.	25m,				2	22/02/2021	I
accompanying key sheet. All dimensions		_													Ø	0	læf	miæ	3
All dimensions are in metres.	Logged in	accordance	with BS59	30:2015 +	A1:2020														]

Project WHITWORTH COMMUNITY HIGH SCHOOL

Engineer CAMPBELL REITH LLP

388117.8 E 417925.0 N

National Grid Coordinates

Borehole Project No WS05 PN204160

Client	CAMPE	BELL REI	ITH LLP				Coordin		388117.8 417925.0				1	Ground		.4.57 m	
Samp	ling			Prope	rties		Strata	3								Scale 1	:50
Depth		Sample Type	Depth Cased & (to Water)	Strength kPa	w %	SPT N	Descrip	otion							Depth	Legend	Level m OD
0.00-0.20	- 0.15	- B E ES			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		sligh	ntly gra	TOPSOIL: avelly sa ibangular	ndy cl	ay with	n many	rootlet		G.L. 		224.57
	- 1.20	D ES B					MADE	GROUND	Reddish cavel of , slightl	grey limest	sandy : one and	subangu	ılar med	/	0.60		223.97
1.20	- 1.65 2.00 - 2.00	ES D B	(WET)	TR=	60%	S6	grave of li \ subar	ally cla mestone ngular i	Soft da ay with a and bri fine to c d brick f	high ck. Gr oarse	subang avel is of lime	ılar co s angul	bble co .ar to	ntent	1.50		223.07
	- 2.45 3.00	- D - ES - D	(WET)	TR=	90%	s10	grave	to coa	DE GROUND ndy silty rse of sa	clay.	Grave	l is su	brounde	d	2.40		222.17
	- 3.00	в					Grave	al is a	ff brown ngular to imestone,	subro	unded :	fine to	coarse				
	4.00 - 3.45	ES D	(WET)	TR=	40%	<b>S</b> 12	subar	7 3.00m ngular o zite.	, frequen gravel of	t band sands	s of s tone, i	andy fi limesto	ne to c one and	oarse	-		
	- 4.45 5.00		(WET)	TR=	10%	S24											
4.50		- - D -															4 4 4 4 4
5.00-	- 5.45	- - D -	(WET)			S14									-		
		E								d of B	orehold				5.45	··· · · · · ·	219.12
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Boring	1					Progre	ess				Grour	ndwate	r				
Depth	, Hole Dia		Technique	e	Crew	Depth of Hole	Depth	Depth to Water	Date	Time	Depth Struck	Depth Cased		in Mins	Depth Sealed	Remai	ks on dwater
1.20	0.40	Inspect	tion Pit	:	KD/DP	G.L.			28/10/20		0.50	Juseu		141113	Jealed	Seepage	
5.45	0.10	Dynamic	c Sample	r	KD/DP	5.45		0.20	28/10/20	18:00						rise	
Rema	ks 📕	Inspect ES samp	tion pit ple = 2	hand of x vials	excava s, 1 x	ted to plasti	1.20m c c jar a	lepth an and 2 x	nd no ser amber ja	vices rs.	were fo	ound.				ed by I	ΟP
Symbols abbreviati	and	The Dyr A stand	namic Sa dpipe wa	mple Bo s insta	orehole alled	e was t to 2.50	erminat m with	ed at ! a geow:	5.45m dep capped sl	th upc otted	n reac section	ning so n from	0.50m t	o 2.50m	a Figur		L of 1 22/02/2021
explained	on the	to 2.50							details seal up						_		
key sheet All dimen		level.													e	ocet	MES
are in me		Logged in	accordance	with BS59	30:2015 +	A1:2020											

Borehole Project WHITWORTH COMMUNITY HIGH SCHOOL Engineer CAMPBELL REITH LLP WS06 Project No PN204160 National Grid 388120.9 417903.5 E N Client CAMPBELL REITH LLP Ground Level 224.77 m OD Coordinates Sampling Properties Strata Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Legend % Туре (to Water) kPa m OD 224.77 G.L 0.10- 0.40 0.20 0.10 224.67 в MADE GROUND: Black tarmacadam ES MADE GROUND: Grey slightly sandy slightly clayey subangular fine to coarse gravel of limestone, sandstone, coal and concrete. 0.40 224.37 0.40- 0.90 0.50 Ē в ES MADE GROUND: Light brown mottled grey slightly 0.90 223.87 0.90- 1.20 1.00 gravelly sandy clay. Gravel is subangular fine to coarse of limestone and sandstone. в Ē ES 1.20- 1.65 1.20 2.00 13 TR= 80% D (DRY) **S**8 PROBABLE MADE GROUND: Loose orangish brown gravelly slightly clayey medium sand. Gravel is angular to subangular fine to coarse of sandstone. 1.50- 2.00 в 1.50 223.27 Firm brown slightly sandy slightly gravelly to gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and E 2.00- 3.00 в 2.00 3.00 2.00- 2.45 TR= 100% D (DRY) 16 **S**8 limestone. 2.00 ES 3.00- 4.00 3.00 4.00 3.00- 3.45 в E TR= 60% (DRY) S12 D 8.3 4.00- 4.33 D (DRY) 9.5 s50/ 180 At 4.33m, cobble obstruction. 4.33 220.44 Т End of Borehole -Γ E С E L Boring Progress Groundwater Hole Depth Depth Depth to Depth Depth Depth Remarks on Rose to Depth Technique Crew Date Time Cased Water Mins Sealed Dia of Hole Struck Cased Groundwater 0.40 Inspection Pit 1.20 28/10/20 08:00 KD/DP G.L. None 4.33 0.10 Dynamic Sampler KD/DP 4 33 DRY 28/10/20 18:00 encountered.

Remarks $\prod_{K}$ Inspection pit hand excavated to 1.20m depth and no services were found.	Logged by	DP
The Dynamic Sample Borehole was terminated at 4.33m depth due to the presence of an obstruction. abbreviations are splained on the seal up to 1.00m, arisings up to ground level.	- <b>J</b>	1 of 1 22/02/2021
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amplii	ng			Prope	rties		Strata	3								Scale 1	:50
epth		Sample Type	Depth Cased & (to Water)	Strength kPa	w %		Descrip	otion							Depth	Legend	Le m O
0.10-	0.40	- в					MADE	GROUND	: Black t	armaca	dam.				G.L. /0.10		22
0.20		ES							Dark gr					/	0.40		22
0.50 0.50 0.60- 0.70	0.80	D ES B ES					sands	stone an ngular f	a high s nd concre fine to c	te. Gr	avel is	s angul	ar to	t	0.60 0.80		22 22
		-					grey is ar	slight ngular f	Soft to Ly sandy to subang coal, ash	slight ular f	ly grav ine to	velly c coarse	lay. Gr	dark avel			
		-					angul	ar to stone, d	: Dark gr subangula coal, sla ngular co	r fine te, ce	to coa ramic,	arse gr ash an	avel of d concr				
		-					[		-		orehole			ſ	-		
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ring						Progre					Grour	idwate	r				
pth	Hole Dia		Techniqu	e	Crew	Depth of Hole	Depth Cased	Depth to Water	Date	Time	Depth Struck	Depth Cased	Rose to	in Mins	Depth Sealed	Rema Grour	arks o ndwat
. 80	0.40	Inspec <sup>.</sup>	tion Pit	5	KD/DP	G.L. 0.80		0.60	28/10/20 28/10/20		0.80		0.60	20		Fast inf	:low.
		-							Ļ		L				<u> </u>		
mark	KS AGS	Inspec <sup>.</sup> ES sam	tion pit ble = 2	hand e	excava	ted to (	0.80m d	lepth an and 2 x	nd no ser amber ja	vices rs.	were fo	ound.			Log	ged by	DP

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Al dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020