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Retrieved from the Queensland Geotechnical Database http://qgd.org.au/

	05S BRC		1 - RETAINING WALL BEACH					ob No: 10415 - 05SRW01 Sheet: 1 of 7
				94				ngle from Horizontal: 90° Surface Elevation: 2.033 m AH it: Driller: MD
	-	-						Contractor: DRILLSURE
			2 Date Complete	ed: 6	/12/1:	2	L	ogged By: RH Date Logged: 6/12/12
 	_		Sample or Field Test	DCP	RL (m AHD)	Graphic Log	USCS Symbol	Description (SYMBOL, SOIL NAME, plasticity/particle characteristics, colour, minor components, moisture, consistency, structure, ORIGIN)
					2.0 - - 1.5 - - - - - - - - - - - - - - - - - -		SM	SILTY SAND, fine to coarse grained, black/orange, with organics and gravel, moist, FILL
							CL	SILTY CLAY, low plasticity, grey, with organics, very soft, NATURAL (Peat?)
					-0.5		SP	SILTY SAND, medium grained, grey, wet, locse, NATURAL Organic odor
					- -1.0 - - -			SAND, medium grained, white, trace of silt and clay, wet, medium dense, NATURAL
			D 3.50 - 3.95 m SPT = 4, 7, 8 N=15		-1.5 -2.0		SP	
			D 4.50 - 4.95 m SPT = 3, 4, 6 N=10					
ct: ion: ion: ype: g D Star	ct: ion: E8 ype: H g Diam Started	ct: 05S ion: BRC on: E8635 ype: Hydro g Diamete Started : 6 Drilling	ct:: 05SRW0 ion: BROADI on: E86351.391 ype: Hydropov g Diameter: Started : 6/12/1 Drilling (u) on one starphon of any one of any of a billing (u) of a billing (u	ct: 05SRW01 - RETAINING WALL ion: BROADBEACH ion: E86351.391 N53999.744 56 MGA ype: Hydropower Scout g Diameter: Started : 6/12/12 Date Complete Drilling (\vdots) as sample or Field Test 0^{2} $0^$	Ct: 05SRW01 - RETAINING WALL ion: BROADBEACH ion: E86351.391 N53999.744 56 MGA94 ype: Hydropower Scout g Diameter: Started : 6/12/12 Date Completed: 6 Drilling () 199 () 199	ct: 05SRW01 - RETAINING WALL ion: BROADBEACH ion: E86351.391 N53999.744 56 MGA94 ype: Hydropower Scout g Diameter: Started: 6/12/12 Date Completed: 6/12/12 Drilling <u>in to optime</u> <u>in to optime</u> <u>i</u>	ct: DSSRW01-RETAINING WALL ion: ER6351.391 N53999.744 56 MGA94 ype: Hydropower Scout g Diameter: Started: 6/12/12 Date Completed: 6/12/12 Diffing U Boo Boo D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ct: 05SRW01 - RETAINING WALL ion: BROADBEACH J J ion: E86351.391 N53999.744 56 MGA94 A ype: Hydropower Scout E g Diameter: C Started: 6/12/12 Date Completed: 6/12/12 L Drilling U and Sample or Field Test 000 D 0.50 - 0.95 m SPT = 2, 2, 3 N=5 1 1.5 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Clier Proje Loca Posi	ect: itio	n:	C E)5S BR	OA	NO DE	IELL DOWEL 1 - RETAINING WAL BEACH N53999.744 56 MG		94				ob No: 10415 - 05SRW01 ngle from Horizontal: 90°	Hole No: BH2 Sheet: 2 of 7 Surface Elevation: 2.033 m AH
Rig 1	Гур	e:	Hy	ydr	ор		er Scout					В	it:	Driller: MD
Casi Date						2/1	2 Date Comple			112/11	2		contractor: DRILLSURE ogged By: RH	Date Logged: 6/12/12
Date		Dril							u. u	<i>" 12/12</i>	<u>د</u>			Date Logged. 0/12/12
Depth (m)	Auger 'V' Bit	1	Т	Coring	m of other (m	GIOULIQWALEI (III)	Sample or Field Test	Recovered	DCP	RL (m AHD)	Graphic Log	USCS Symbol	(SYMBOL, SOIL characteristics, c	escription _ NAME, plasticity/particle colour, minor components, tency, structure, ORIGIN)
5.5										-3.0 - - -3.5		SP SP SP	SAND, medium grained, white, trace of silt and Trace of rock fragments Trace of rock fragments	d clay, wet, medium dense, NATURAL
6.0										-			SAND, fine to medium grained, white, trace of NATURAL	shells/rock fragments/gravel/silt, wet, medium dense,
			2010-0010-0010-0010-0010-0010-001				D 6.00 - 6.45 m SPT = 9, 12, 20 N=32			-4.0 - - -				
6.5										-4.5 — - -				_
7.0			0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-							-5.0				
7.5			2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			-	D 7.50 - 7.80 m SPT = 20, 30/145 N>50			- -5.5 — -		-		
8.0			24 24 24 24 24 24 24 24 24 24 24 24 2							-6.0 		SP		
8.5										- -6.5 — -				
9.0			14 14 14 14 14 14 14 14 14 14 14 14 14 1				D 9.00 - 9.30 m SPT = 23, 30/145 N>50			- -7.0 — -				
9.5										- -7.5 — -				
S			ore\	viati		8 &	for details of basis of is		D	Cá Bo	ardr WLER		Cardno Bowler Pty Ltd 1 Fox Road Acacia Ridge PH: 07 3220 8500 FAX: 07 3320 8599	

	1 N53999.744 56 M wer Scout 12 Date Comp 12 Date Comp Sample or Field Test D 10.50 - 10.77 m SPT = 26, 30/120 N>50	peted		Caphic Graphic Fog	B	Angle from Horizontal: 90° Surface Elevation: 2.033 m / Bit: Driller: MD Contractor: DRILLSURE Date Logged: 6/12/12 Logged By: RH Date Logged: 6/12/12 Description (SYMBOL, SOIL NAME, plasticity/particle characteristics, colour, minor components, moisture, consistency, structure, ORIGIN) SAND, fine to medium grained, white, trace of shells/rock fragments/gravel/silt, wet, medium den NATURAL
meter: ed : 6/12/ ² ng ε	12 Date Comp Sample or Field Test		-0.0- -0.9-		C L	Contractor: DRILLSURE Logged By: RH Date Logged: 6/12/12 Description (SYMBOL, SOIL NAME, plasticity/particle characteristics, colour, minor components, moisture, consistency, structure, ORIGIN) SAND, fine to medium grained, white, trace of shells/rock fragments/gravel/silt, wet, medium den
ed: 6/12/ ng E	Sample or Field Test		-0.0- -0.9-			Description (SYMBOL, SOIL NAME, plasticity/particle characteristics, colour, minor components, moisture, consistency, structure, ORIGIN) SAND, fine to medium grained, white, trace of shells/rock fragments/gravel/silt, wet, medium den
	Field Test	Recovered	-8.0 -	Graphic	USCS Symbol	SAND, fine to medium grained, white, trace of shells/rock fragments/gravel/silt, wet, medium den
			-8.5 -			
			-9.5 -			
					SP	
	D 12.00 - 12.30 m SPT = 22, 30/145 N>50		-10.0 -			
			-10.5 -			
			-11.0 -			
	D 13.50 - 13.95 m SPT = 5, 15, 26 N=41		-11.5 -		sc	
			-12.0 -		SP- SM	SAND, medium grained, pale grey, wet, dense, NATURAL
			-12.5 -	77 77 7 77 7 77 77 77 77 7 77 7	Pt	PEAT, black/brown
	eviations &		SPT = 5, 15, 26 N=41	D 13.50 - 13.95 m SPT = 5, 15, 26 N=41 -12.0 - -12.5 -	D 13.50 - 13.95 m SPT = 5, 15, 26 N=41 -12.0 - -12.5 - <u>Mr. Mr.</u> <u>b Mr. Mr.</u>	D 13.50 - 13.95 m SPT = 5, 15, 26 N=41 -11.5 -12.5 - 12.5 - 12.5

Rig Type: Casing Dia Date Start	Hydro ameter: ted : 6/	Groundwater (m) 151 : od		6/12/12 ද	Graphic Log	B	(SYMBOL, SOIL N characteristics, col moisture, consister	Surface Elevation: 2.033 m AH Driller: MD Date Logged: 6/12/12 Scription VAME, plasticity/particle our, minor components, ncy, structure, ORIGIN)
Casing Dia Date Start Image: Colspan="2">Drill Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan="2"	ameter: ted : 6/*	Groundwater (m)	2 Date Completed: Sample or Field Test	(OHY W) 13.0		C L	ontractor: DRILLSURE ogged By: RH Des (SYMBOL, SOIL N characteristics, col moisture, consister	Date Logged: 6/12/12 scription VAME, plasticity/particle our, minor components, ncy, structure, ORIGIN)
16.0 Drill Debth (m) Anger V Bit Auger V B	lling	Groundwater (m)	Sample or Field Test	(OHY W) 13.0			Des (SYMBOL, SOIL N characteristics, col moisture, consister	scription VAME, plasticity/particle our, minor components, ncy, structure, ORIGIN)
(m) http://www.angle.org/a			D 15.00 - 15.45 m	-13.0 	Graphic Log	USCS Symbol	(SYMBOL, SOIL N characteristics, col moisture, consister	VAME, plasticity/particle our, minor components, ncy, structure, ORIGIN)
16.0								
							SILTY SAND, fine to medium grained, pale grey NATURAL	, trace of shells/fine grained gravel, wet, dense,
16.5				- -14.0 - - -				
			D 16.50 - 16.76 m SPT = 26, 30/110 N>50	-14.5				
17.0 17.5				-15.0				
18.0			D 18.00 - 18.29 m SPT = 20, 30/140 N>50	- -16.0 - -				
18.5 19.0				 -16.5 - - -				
19.0				-17.0				
19.5			D 19.50 - 19.95 m SPT = 8, 11, 20 N=31	-17.5				

Clier Proje Loca	ect	n:		05 BF	RC	RW	01 0B	ELL DOWEL - RETAINING W EACH						ob No: 10415 - 05SRW01 Sheet: 5 of 7
								N53999.744 56 I er Scout	MG/	494				Angle from Horizontal: 90° Surface Elevation: 2.033 m AH Bit: Driller: MD
Casi			_	-	_	-								Contractor: DRILLSURE
Date							/12	2 Date Com	ple	ted:	6/12/1	2	L	ogged By: RH Date Logged: 6/12/12
Depth (m)	'V' Bit	Auger 'TC' Bit J	e	Casing	Coring	Groundwater (m)		Sample or Field Test	Recovered	DCP	RL (m AHD)	Graphic Log	USCS Symbol	Description (SYMBOL, SOIL NAME, plasticity/particle characteristics, colour, minor components, moisture, consistency, structure, ORIGIN)
											-18.0 -		SM	SILTY SAND, fine to medium grained, pale grey, trace of shells/fine grained gravel, wet, dense, NATURAL
20.5											-18.5 -		SC	CLAYEY SAND, fine to medium grained, grey, trace of organics, odorous, wet, loose, NATURAL
21.0		, , , , , , ,					Ē	0 21.00 - 21.45 m SPT = 4, 3, 3 N=6			-19.0 -			CLAYEY SAND, fine to medium grained, grey, low plasticity clay, trace of organics, odorous, wet, loose, NATURAL
21.5		-					_			_	-19.5 -			
22.0								\square			-20.0 -		SC	AFT
22.5		, , , , , , ,						0 22.50 - 22.95 m SPT = 0, 0, 0 N=0			-20.5 -			SANDY CLAY, low plasticity, grey, fine grained sand, trace of organics, moist, very soft, ALLUVIA
23.0		-					_				-21.0			
23.5		- - - - - - - - - - - - - - - - - - -									-21.5 -		CL	
24.0								0 24.00 - 24.45 m SPT = 0, 0, 0 N=0			-22.0 -			SILTY CLAY, low plasticity, grey, moist, very stiff, ALLUVIAL
24.5							-			_	-22.5 -		CL	
s	ee			evia	atic		& t	for details of asis of s	(5) Ca Bo	ardr WLER	10	Cardno Bowler Pty Ltd 1 Fox Road Acacia Ridge PH: 07 3220 8500 FAX: 07 3320 8599

Clien Proje Loca	ect: tior	n:	0 B	5SI RC	RWO	NELL DOWEL 1 - RETAINING WA BEACH		24				ob No: 10415 - 05SRW01	Hole No: BH2 Sheet: 6 of 7
						N53999.744 56 M0 Ver Scout	GAS	94				-	Surface Elevation: 2.033 m Al Driller: MD
Casi							_	_				ontractor: DRILLSURE	
Date				: 6/		2 Date Comp	lete	ed: 6	5/12/1:	2		ogged By: RH	Date Logged: 6/12/12
Depth (m)	Auger 'V' Bit	1	Casing	Coring	Groundwater (m)	Sample or Field Test	Recovered	DCP	RL (m AHD)	Graphic Log	USCS Symbol	Descriptior (SYMBOL, SOIL NAME, pi characteristics, colour, mino moisture, consistency, stru	lasticity/particle or components.
									-23.0			SILTY CLAY, low plasticity, grey, moist, very stiff, ALLU	/IAL
									-		CL		
25.5						D 25.50 - 25.95 m SPT = 0, 0, 4 N=4			- -23.5 —			SILTY CLAY, low plasticity, grey, moist, firm, ALLUVIAL	
											CL		
26.0									- -24.0 —			SILTY CLAY, low plasticity, grey, with sand, moist, firm, /	ALLUVIAL
									-	-			
26.5									- - -24.5 –		CL		
									-				
27.0									-				
21.0						D 27.00 - 27.45 m SPT = 0, 2, 4 N=6		ľ	-25.0 -			CLAYEY SAND, medium to coarse grained, grey, loose,	NATURAL
27.5									- -25.5 — -				
									-		sc		
28.0									-26.0				
28.5									-				
20.0						D 28.50 - 28.95 m SPT = 14, 15, 23 N=38			-26.5			SILTY SAND, fine to medium grained, pale grey, dense,	NATURAL
29.0			0-						- - -27.0 –		SM		
									-				
29.5									- -27.5 —			SILTY SAND, fine to medium grained, pale grey, stiff, NA	NTURAL
									-		SM		
S						s for details of	(Cardno Bowler Pty Ltd 1 Fox Road	
	á	abb			ons & riptic	basis of ns			Bo	wLER	0	Acacia Ridge PH: 07 3220 8500 FAX: 07 3320 8599	

Clier Proje Loca	ect: tio	n:		058 BR	OA	V0 [,] DE	IELL DOWEL 1 - RETAINING WA BEACH						ob No: 10415 - 05SRW01	Hole No: BH2 Sheet: 7 of 7
							N53999.744 56 M	GA	94				ngle from Horizontal: 90° it:	Surface Elevation: 2.033 m AH Driller: MD
Casi				-	_								ontractor: DRILLSURE	
Date	Sta	art	ed	: (6/12	2/1	2 Date Comp	lete	ed: (6/12/12	2	L	ogged By: RH	Date Logged: 6/12/12
Depth (m)	Auger 'V' Bit	Auger 'TC' Bit iJ	`		Groundwater (m)		Sample or Field Test	Recovered	DCP	RL (m AHD)	Graphic Log	USCS Symbol	(SYMBOL, SOIL N characteristics, col	scription VAME, plasticity/particle lour, minor components, nrcy, structure, ORIGIN)
						_	D 30.00 - 30.31 m SPT 10, 22, 30/10 N>50		-	-28.0		xw	SILTSTONE, fine to coarse grained, blue/grey, e	extremely low strength, extremely weathered
30.5										-28.5			BOREHOLE TERMINATED AT 30.45 m	
31.0										- -29.0 -				
31.5										- -29.5 — -				
32.0							D			-30.0 -			AFT	
32.5										- -30.5 — -				-
33.0										- -31.0 -				
33.5										- -31.5 — -				
34.0										- -32.0 — -				
34.5										-32.5				
S			ore	viat		&	for details of basis of ıs	(Cé Bo	ardr WLEF		Cardno Bowler Pty Ltd 1 Fox Road Acacia Ridge PH: 07 3220 8500 FAX: 07 3320 8599	