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ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No __BH138__ SHEET __1_ of __2_ REFERENCE No __H10897__

PROJECT		WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BERGMANS ROAD OVERF										
					ddle (Ch.74541.9, 9.5m R of Control Line)						INATES 711794.1 E; 7655437.6 N	
					SURFACE R.L. 32.76m PLUNGE 90°							
JOB I	No	242/3	33 <u>B</u> /6		HEIGHT DATUM <u>AHD</u> BEARING		DATE COMPLE	IED <u>1</u>	5/11/	<u>110</u> DRI	LLER <u>Cairns Drilling</u>	1
DEPTH (m)	R.L. (m)	EK ING SH BORING E DRILLING		SAMPLE	MATERIAL DESCRIPTION	THERING	INTACT DEF STRENGTH SPA (n エチェミュラゴ 88)	FECT ACING nm)	GRAPHIC LOG		ONAL DATA AND	SAMPLES TESTS
0	32.76	CAS WAS COR	CORE REC %	SAM		USC WEA		7 200	GRA	TEST	RESULTS	SAMPLI
-	32.46				Gravelly Silty CLAY (RESIDUAL) Black, moist.	(CH)				-Based on Driller	's logs only	-
ĖĖ	32.40				,				31	Medium to coars	se gravel layer	-
-1	31.66				Organic content.	(MH)				-Based on Driller	's logs only	- - - -
-2	20.04			A	VOLCANICLASTIC SANDSTONE Fine to medium grained, predominately massiv crystalline, sedimentary rock. HW: Brown, moist, hard clayey sandy silt gradually grading into extremely low to mainly low strength rock with depth.	ve, HW				— Water table	30/50mm N>50	SPT
-	30.31		(48)		SW: Grey, indurated, high to very high	SW		T ::	-+			-
					strength.	HW				CLy seam, 10°,	ls(50) = 5.60MPa ls(50) = 2.12MPa	0 -
3					Strongly altered (sericitic).	SW				CLy gravel, 50m	m ls(50) = 6.84MPa	x -
					Defects:	MW		: : :				-
-					- Joints @ 10-20° (7/m)						ls(50) = 9.24MPa	x -
5 -			100		Defects are generally planar, rough and closed, with some clay infill.						ls(50) = 3.53MPa	0
-4			(56)		•		•					-
					Contact: - Gradual	sw						-
										⊐_CLy seam, 5°, CLy gravel, 30m	m ls(50) = 4.99MPa	0 -
-								1				-
5 - 5	27.65				MW: Grey to grey-brown, fine to medium					Gradual contact 10-20mm	& CLy seam, 10°,	-
			100		grained, generally medium strength.	MW		: : :				-
			(36)		Defects:	MW		1: : :			Is(50) = 0.80MPa Is(50) = 0.35MPa	x -
6					- Joints @ 10-45° (>5/m)	sw					13(30) = 0.331VII a	-
					Defects are generally planar, smooth and closed,			J			ls(50) = 1.41MPa	х -
					with minor clay infill.	MW						-
					Defects below 6.8m:	SW					ls(50) = 0.80MPa	0 -
_7			100		- Joints @ 10-50° (>20/m)	MW]	ŀ	— Contact, gradua		-
#			(0)		Defects are generally planar, smooth and closed,							-
					with minor clay infill.	HW					ls(50) = 0.03MPa	Х _
												-
8							: F :					_
						N 40 A /						-
			100			MW		1: : :			ls(50) = 0.54MPa	x -
			(34)								ls(50) = 0.77MPa	0 -
9	23.63]			(55)	-
					BASALT Extrusive, fine grained, massive, crystalline, b	asic					Is(50) = 0.35MPa	0
E					igneous rock. SW: Grey, generally high to very high strength.	SW					ls(50) = 1.47MPa	х -
10			100		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
REMARKS							LOGGED BY					
											ME / AD	



QLD_DMR_LIB_014.GLB Log A_ENGINEERING BOREHOLE LOG BERGMANS FG5635- WALKERSTON BYPASS.GPJ <DrawingFile>> Datgel CPT Tool giNt Add-in 21/10/2011 17:29

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No ___BH138___

SHEET __2__ of __2__

REFERENCE No ___H10897___

PRO	ROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BERGMANS ROAD OVERPASS											
LOCATION		_Abutı	ment B -	<u>Mid</u>	ddle (Ch.74541.9, 9.5m R of Control Line)						СО	OORDINATES <u>711794.1 E; 7655437.6 N</u>
		_FG5635			SURFACE R.L. <u>32.76m</u> PLUNGE <u>-90°</u>		DATE STARTED <u>15/11/10</u> G					<u>/10</u> GRID DATUM
JOB No		242/33B/6			HEIGHT DATUM <u>AHD</u> BEARING		DATE COMPLETED _			D <u>15/</u>	<u> 11/</u>	/10 DRILLER <u>Cairns Drilling</u>
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING EH S	INTACT TRENGTH	DEFEC SPACIN (mm)	- 2000 DI T		ADDITIONAL DATA AND TEST RESULTS AWBIES SAMPLES TEST RESULTS
- 10 	21.36	-	100		BASALT SW: (Cont'd) Dark grey, fine to medium grained, massive, generally high to very high strength. Defects: Rare - Drilling-induced subhorizontal breaks @ 10-20° (1-2/m)	SW						Is(50) = 4.10MPa x Is(50) = 4.67MPa o
					Defects are generally curved, smooth and closed. Borehole terminated at 11.4m		:		-: : :			-
-12 -13 -13 -14 15 16 17 18 19 19					Borenole terminated at 11.4m							
	EMARK	 S	L				1:		L			LOGGED BY
REMARKS								ME / AD				

Project: Walkerston Bypass Geotechnical Investigation

Borehole No: BH138 (Bergmans Road., Ch. 74542 Right)

Start Depth: 2.45 m Finish Depth: 11.40 m Project No: FG5635 H No: H10897



