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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH120</u>
SHEET	<u>2</u> of <u>4</u>
REFERENCE No	<u>H10890</u>

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
 LOCATION PIER 1- (Ch. 84514.6 8.6m LHS) COORDINATES 721509.3 E; 7654830.0 N
 PROJECT No FG5635 SURFACE R.L. 9.09m PLUNGE _____ DATE STARTED 1/11/10 GRID DATUM MGA 94
 JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 1/11/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING						INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	VI	MI	ML	VL					
10	-0.91				SAND / Silty SAND (ALLUVIAL) (Cont'd)												7,7,10 N=17	SPT
11																		
12					Becoming coarse with occasional gravels <10mm.												11,15,23 N=38	SPT
13	-3.42				Sandy SILT (ALLUVIAL) Pale grey and speckled white, moist, very stiff.												7,9,12 N=21	SPT
14					High plasticity; fine to medium grained sand.													
15																	7,10,14 N=24	SPT
16	-6.72				Clayey SILT / Silty CLAY (ALLUVIAL) Pale green to pale grey, slightly moist, hard.												9,13,19 N=32	SPT
17					High plasticity; some Fe/Mn oxide nodules; some minor sandy layers.													
18	-9.02				Clayey Gravelly SAND (ALLUVIAL) Grey to brown, wet, dense, medium grained sand (possible gravel layer).												10,14,22 N=36	SPT
19																		
20	-10.92																12,18,20 N=38; No sample recovery	SPT

QLD_DMR_LIB_01A_GLB_Log_A_ENGINEERING_BOREHOLE_LOG_W_LITHOLOGY_COWLEYS_BYPASS.GPJ <<DrawingFile>> Dataget.CPT Tool (JINI Add-In: 12/12/2011 15:31)

REMARKS Note: *Failure appears to have occurred along a pre-existing defect plane.

LOGGED BY
ME



ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH120</u>
SHEET	<u>3</u> of <u>4</u>
REFERENCE No	<u>H10890</u>

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
 LOCATION PIER 1 - (Ch. 84514.6 8.6m LHS) COORDINATES 721509.3 E; 7654830.0 N
 PROJECT No FG5635 SURFACE R.L. 9.09m PLUNGE _____ DATE STARTED 1/11/10 GRID DATUM MGA 94
 JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 1/11/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	ROD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH	H	M	L	VL				
20	-10.92					Silty CLAY (RESIDUAL) Pale grey to mottled orange, moist, hard. Medium to high plasticity.											10,14,21 N=35	SPT
22	-12.62					GRANODIORITE Intrusive, medium to coarse grained, massive, crystalline, porphyritic, acidic, igneous rock HW: Generally exhibits the engineering properties of brown and mottled grey, moist, hard, clayey sandy silt.											18,30,30/100mm N>50	SPT
23																	30/120mm N>50	SPT
25										HW							30,30/90mm N>50	SPT
27																	20,30/120mm N>50	SPT
28						Grading into extremely low strength rock.											30/100mm N>50; No sample recovery	SPT
29	-19.52				(20)	Becoming low strength.											Is(50) = 0.09MPa; *	x
29					100 (0)	MW: Grey, speckled pink and greenish grey, generally low to medium strength.				MW							Is(50) = 0.07MPa; *	o
29					100 (0)												Is(50) = 0.15MPa; *	x
29					100 (26)												Is(50) = 0.12MPa; *	x
30																	Is(50) = 0.09MPa; *	o

REMARKS Note: *Failure appears to have occurred along a pre-existing defect plane.

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH120</u>
SHEET	<u>4</u> of <u>4</u>
REFERENCE No	<u>H10890</u>

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE

LOCATION PIER 1- (Ch. 84514.6 8.6m LHS) COORDINATES 721509.3 E; 7654830.0 N

PROJECT No FG5635 SURFACE R.L. 9.09m PLUNGE _____ DATE STARTED 1/11/10 GRID DATUM MGA 94

JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 1/11/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	RQD (%)	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH	VH	VM	VL	EL	20	60	200			
30	-20.92		GRANODIORITE MW: (Cont'd)			MW									Is(50) = 0.46MPa Is(50) = 0.22MPa; *	o x	
	-21.68	100	Defects: - Joints @ 10-30° (7/m)														
31			Defect surfaces are generally planar, rough, open to closed. Borehole terminated at 30.76m														
32																	
33																	
34																	
35																	
36																	
37																	
38																	
39																	
40																	

OLD_DMR_LIB_01A.GLB Log_A_ENG ENGINEERING BOREHOLE LOG W/LITHOLOGY_COWLEYS FG5635- WALKERSTON BYPASS.GPJ <<DrawingFile>> Datiget CPT Tool gINT AddIn 12/12/2011 15:31

REMARKS Note: *Failure appears to have occurred along a pre-existing defect plane.

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ME

Project: **Walkerston Bypass Geotechnical Investigation**
Borehole No: BH120 (Cowleys Rd Bridge Ch. 84514.6 8.6m left)
Start Depth: 28.20m
Finish Depth: 30.76 m
Project No: FG5635
H No: 10890



SCALE 1:5

F:GEOT043/1