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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH134
SHEET 1 of 1
REFERENCE No H10901

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BERGMANS ROAD OVERPASS
LOCATION Abutment A - LHS (Ch.74510.0, 1.9m L of Control Line) COORDINATES 711771.3 E; 7655462.5 N
PROJECT No FG5635 SURFACE R.L. 34.20m PLUNGE -90° DATE STARTED 18/11/10 GRID DATUM _____
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 18/11/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING ROCK ROLLER CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH				DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	IM	JL	EL	20	60			
0	34.20					Silty GRAVEL (RESIDUAL) Grey, large, angular blocks sizing <150mm.	(GP)								- Based on Driller's logs only		
1	33.50					BASALT Extrusive, fine grained, massive, crystalline, basic igneous rock. HW: Low strength, gravel sized rock kernels in brown, moist, hard, silty clay matrix.	HW								- Based on Driller's logs only		
2	32.70		(11)			MW: Grey and orange-brown, fine grained, medium to generally high strength with some very high strength bands. Brecciated and silicified in some places.	MW								Altered & CLY coated seam <20mm FZ, 60mm	Is(50) = 1.55MPa	x
3			(26)			Defects: - Joints @ 10-20° (4/m) - Joints @ 45-70° (1/m) Rehealing along defects is common.	HW								CLY seam, 80°, <20mm, SubPI BZ	Is(50) = 0.83MPa	x
4	30.15		100				MW								Brecciated & silicified zone	Is(50) = 4.98MPa	x
5			(60)			SW: Grey to dark blue-grey, fine to medium grained, massive, very high to extremely high strength. Defects: - Joints @ 10-20° (1/m) - Joints @ 45 & 70° (1/m)	SW								CLY seam, 10°, 70mm	Is(50) = 4.18MPa Is(50) = 4.29MPa	x o
6			100			Defects are generally planar, smooth and altered in some places, and open with occasional clay infill.	SW									Is(50) = 9.39MPa Is(50) = 9.24MPa	x o
7			(83)				MW								CLY seam, 5°	Is(50) = 15.37MPa Is(50) = 3.59MPa	x o
8			100				SW									Is(50) = 8.26MPa Is(50) = 10.16MPa	x o
9			(61)				MW										
10	24.20		100				SW									Is(50) = 6.97MPa	o

REMARKS Borehole terminated at 10m

LOGGED BY
ME / AD

Project: **Walkerston Bypass Geotechnical Investigation**
Borehole No: BH134 (Bergmans Rd., Ch. 74510 Left)
Start Depth: 1.50m
Finish Depth: 10.00m
Project No: FG5635
H No: H10901



SCALE 1:5

F:GEO043/1