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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH103
 SHEET 1 of 3
 REFERENCE No H10882

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
 LOCATION Pier 1, LHS COORDINATES 718745.1 E; 7655043.3 N
 PROJECT No FG5635 SURFACE R.L. 6.45m PLUNGE DATE STARTED 27/10/10 GRID DATUM MGA94 Zone 55
 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 27/10/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING										DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								USC	EH	VH	TH	W	J	VL	EL	20	60				
0	6.45					TOPSOIL Grey, loamy.													Based on Driller's logs only		
	6.25					Silty SAND (ALLUVIAL) Mottled light brown, moist, medium to coarse grained.	(SM)												Based on Driller's logs only		
1	5.45				A	Sandy Silty CLAY (ALLUVIAL) Dark brown mottled, moist to wet, soft to firm. Medium to high plasticity; fine grained sand; occasional clayey sand bands.	(CH)												2,2,3 N=5	SPT	
2					B														2,2,2 N=4	SPT	
3																					
4	2.85				C	Clayey SAND (ALLUVIUM) Pale brown, moist dense to very dense. Medium to coarse grained sand; basal alluvial layer. Becoming gravelly sand from 4.0 to 4.08m.	(SC)												30/80mm N>50	SPT	
5					D														12,15,16 N=34	SPT	
6	0.65					GRANODIORITE Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits engineering properties of grey-mottled brown, moist, mainly very stiff sandy clayey silt.	XW														
7					E														6,9,11 N=20	SPT	
8																					
9					F														7,12,17 N=29	SPT	
10																					

REMARKS _____

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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
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BOREHOLE No BH103
SHEET 2 of 3
REFERENCE No H10882

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 1, LHS COORDINATES 718745.1 E; 7655043.3 N
PROJECT No FG5635 SURFACE R.L. 6.45m PLUNGE DATE STARTED 27/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 27/10/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH	I	M	J	VL				
10	-3.55				G	GRANODIORITE XW: (Cont'd)		XW								7,11,12 N=23	SPT	
11	-4.65				H	GRANODIORITE HW: Brown-pale grey and mottled red, moist, occasionally dense to very dense gravelly silty sand. Subrounded gravel <30mm.										12,20,27 N=47	SPT	
13					J	13.0m: Minor stratification and interbeds of soft and hard, partly cemented throughout.										19,30/120mm,30/100mm N>50	SPT	
15					K											10,12,15 N=27	SPT	
16					L			HW								13,21,30 N>50	SPT	
18					M											27,30/100mm N>50	SPT	
19					N	19.45m: Becoming sandy gravel, less silt.										23,30/120mm N>50	SPT	

REMARKS _____

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BOREHOLE No BH103
 SHEET 3 of 3
 REFERENCE No H10882

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
 LOCATION Pier 1, LHS COORDINATES 718745.1 E; 7655043.3 N
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
										EH	VH	IM	J	VL					
20	-13.55					GRANODIORITE HW: (Cont'd)													
					P												30/80mm N>50	SPT	
21						Becoming very low strength rock with depth.													
22					Q		HW										30/100mm N>50	SPT	
23																			
					R														
	-17.50																		
24			(0)			GRANODIORITE MW: Pale brown-grey, coarse grained, massive, high to mainly very high strength.		MW											
			100																
	-18.23		(74)			Defects: - Joints @ 10° (<10/m)													
25						GRANODIORITE SW: Pale grey with pink and black speckles, coarse grained, high strength.													
	-18.72																		
						BASALT Extrusive, fine grained, massive, crystalline, basic igneous rock													
			100			SW: Dark grey, fine grained, massive, mainly high to very high strength.		SW											
			(100)																
	-20.25					Defects: - Joints @ 10° (1/m) - Joints @ 30 - 40° (1-2/m)													
	-20.50					Defect surfaces are generally smooth, open, planar, clean or iron stained.		SW											
27			100			GRANODIORITE SW: Pale grey with pink and black speckles, coarse grained, very high strength.													
						Borehole terminated at 26.95m													
28																			
29																			
30																			

REMARKS _____

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Project: **Walkerston Bypass Bakers Ck Bridge**

Borehole No: **BH103**

Start Depth: 23.95m

Finish Depth: 26.95 m

Project No: FG5635

H No: H10882



SCALE 1:5

F:GEOT043/1