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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH111
SHEET 1 of 3
REFERENCE No H10867

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 3, Centreline COORDINATES 718793.4 E; 7655035.0 N
PROJECT No FG5635 SURFACE R.L. 8.08m PLUNGE DATE STARTED 16/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 18/10/10 DRILLER Cairns Drilling

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	JL	VL	EL					20
0	8.08					Sandy SILT (ALLUVIAL) Light mottled brown-grey, dry becoming moist with depth, very stiff. Medium to high plasticity; fine grained sand.														
1					A													7,8,12 N=20	SPT	
2								(MH)												
3					B														5,8,11 N=19	SPT
4																				
5	3.58				C	GRANODIORITE Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits the engineering properties of pale brown-grey, moist, hard, clayey sandy silt.													12,16,29 N=45	SPT
6					D	Medium to high plasticity; occasional fine gravel <10mm. Some rock fragments @ 5.60m.													15,28,30/90mm N>50	SPT
7					E														8,13,20 N=33	SPT
8					F			XW											13,12,18 N=30	SPT
9					G														8,13,18 N=31	SPT
10																				

REMARKS _____

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ENGINEERING BOREHOLE LOG

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BOREHOLE No BH111

SHEET 2 of 3

REFERENCE No H10867

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE

LOCATION Pier 3, Centreline COORDINATES 718793.4 E; 7655035.0 N

PROJECT No FG5635 SURFACE R.L. 8.08m PLUNGE DATE STARTED 16/10/10 GRID DATUM MGA94 Zone 55

JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 18/10/10 DRILLER Cairns Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH	I	M	J	VL				
10	-1.92					GRANODIORITE XW: (Cont'd)												
11					H												7,9,13 N=22	SPT
12					J		XW										7,11,15 N=26	SPT
13						Iron concretion nodules <20mm @13.50m.												
14					K												9,19,26 N=45	SPT
15	-6.42				L	GRANODIORITE HW: Pale grey, moist, dense to very dense, gravelly silty sand. Subangular gravel <30mm. Becoming extremely low to very low strength friable rock.											30,140mm N>50	SPT
16					M												11,23,29 N>50	SPT
17					N		HW										10,16,23 N=39	SPT
18					O												17,30/145mm N>50	SPT
19				(90)	P												30/130mm N>50	SPT
20				100													Is(50) = 0.02MPa Is(50) = 0.10MPa	o x

REMARKS _____

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BOREHOLE No BH111
SHEET 3 of 3
REFERENCE No H10867

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 3, Centreline COORDINATES 718793.4 E; 7655035.0 N
PROJECT No FG5635 SURFACE R.L. 8.08m PLUNGE DATE STARTED 16/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 18/10/10 DRILLER Cairns Drilling

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	HM	JL	VL					
20	-11.92		(86)		GRANODIORITE HW: (Cont'd) Defects: - Joints @ 60° (<1/m) - Joints @ 10° (<1/m) - Broken zones (possibly drilling-induced) Defects are generally planar, slightly rough, closed to tight and clean.										Is(50) = 0.13MPa Is(50) = 0.01MPa			
21															Is(50) = 0.09MPa Is(50) = 0.01MPa			
22			97 (0)															
23			73 (69)															
24			100 (60)															
24			100 (50)															
24	-16.37		100 (97)		GRANODIORITE SW: Pale grey with black and pink speckling, medium to coarse grained, massive, very high strength. Defects: - Joints @ 10° (<1/m) Defect surfaces are planar, slightly rough to rough, open and clean.										Is(50) = 0.11MPa Is(50) = 0.12MPa			
25															Is(50) = 5.98MPa Is(50) = 6.44MPa UCS = 57.3 MPa			
26															Is(50) = 8.76MPa Is(50) = 5.24MPa			
27	-18.72		100		Borehole terminated at 26.8m													
28																		
29																		
30																		

REMARKS _____

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Project: **Walkerston Bypass (Bakers Ck)**

Borehole No: **BH111**

Start Depth: 19.00 m

Finish Depth: 26.80 m

Project No: FG5635

H No:



SCALE 1:5

F:GEOT043/1