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ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH102**
SHEET **1** of **4**
REFERENCE No **H10886**

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Abutment A, RHS COORDINATES 718734.5 E; 7655017.5 N
PROJECT No FG5635 SURFACE R.L. 10.53m PLUNGE _____ DATE STARTED 29/10/10 GRID DATUM MGA94 Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 30/10/10 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
0	10.53		CORE REC %									
0.98					TOPSOIL Mottled grey, loamy.						Based on Driller's logs only	
1				A	Sandy Silty CLAY (ALLUVIUM) Brown and speckled white, moist, stiff. Medium to high plasticity; medium grained sand. Becoming dark brown to mottled grey. Minor gravels <6.7mm.	(CH)					1,3,6 N=9	SPT
2				B							4,9,11 N=20	SPT
3				C	Sandy SILT (ALLUVIUM) Grey to pale mottled brown, moist, very stiff to hard. Medium to high plasticity, fine grained sand.	(MH)					9,15,20 N=35	SPT
4	6.73			D	Becoming gravelly with depth.						5,8,13 N=21	SPT
5				E	GRANODIORITE Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits the engineering properties of grey, moist, very stiff to mainly hard, sandy clayey silt.	XW					9,15,21 N=36	SPT
6	4.33			F							20,21,23 N=44	SPT
7												
8												
9												
10												

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH102
SHEET 2 of 4
REFERENCE No H10886

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Abutment A, RHS COORDINATES 718734.5 E; 7655017.5 N
PROJECT No FG5635 SURFACE R.L. 10.53m PLUNGE _____ DATE STARTED 29/10/10 GRID DATUM MGA94 Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 30/10/10 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	H	M	J	VL	EL	20	60	200	600				2000
10	0.53				G	GRANODIORITE XW: (Cont'd)																	6,13,17 N=30	SPT
11																								
12					H			XW															9,13,18 N=31	SPT
13					J																		8,12,15 N=27	SPT
14	-3.67																							
15					K	GRANODIORITE HW: Grey-brown, moist, dense to mainly very dense, gravelly silty sand.																	13,20,29 N=49	SPT
16					L																		20,29,25 N>50	SPT
17								HW																
18					M																		17,19,28 N=47	SPT
19					N	Becoming gravelly below 18.8m with less fines.																	21,28,30/120mm N>50	SPT
20																								

REMARKS _____

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ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No **BH102**
SHEET **3** of **4**
REFERENCE No **H10886**

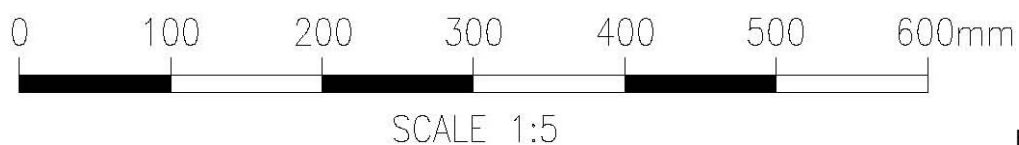
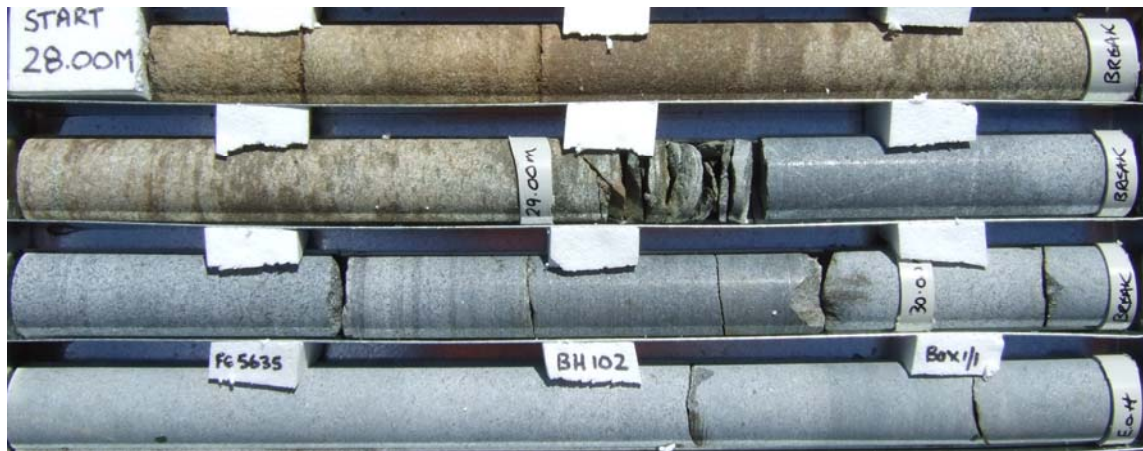
PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Abutment A, RHS COORDINATES 718734.5 E; 7655017.5 N
PROJECT No FG5635 SURFACE R.L. 10.53m PLUNGE _____ DATE STARTED 29/10/10 GRID DATUM MGA94 Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 30/10/10 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
20	-9.47					GRANODIORITE HW: (Cont'd)								
21					P								28,30/100mm N>50	SPT
22					Q								30/80mm N>50	SPT
23						Coarse sand and gravel sizing <19mm.								
24					R								30/70mm N>50	SPT
25					S								30/50mm N>50	SPT
26														
27					T	26.4m: Becoming dark grey, fine to medium grained sand (possible dyke material?).							30/90mm N>50	SPT
28	-17.47													
29	-18.62		(91)			GRANODIORITE MW: Brown with black speckles, medium to coarse grained, massive, high to very high strength. Defects: - Joint @ 10° (<1m)		MW					Is(50) = 6.33MPa Is(50) = 4.19MPa UCS = 6.83 MPa	x o
30			100 (100) 100 (78) 100			GRANODIORITE SW: Grey with black speckles, medium to coarse grained, very high strength.		SW					Is(50) = 8.52MPa Is(50) = 6.94MPa UCS = 63.4 MPa Is(50) = 0.01MPa	x o x

REMARKS _____

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Project: **Walkerston Bypass Bakers Ck Bridge**
Borehole No: **BH102**
Start Depth: **28.00m**
Finish Depth: **30.91 m**
Project No: **FG5635**
H No: **H10886**



F:GEOT043/1