

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH108
 SHEET 1 of 3
 REFERENCE No H10860

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
 LOCATION Pier 2, Centreline COORDINATES 718775.1 E; 7655033.5 N
 PROJECT No FG5635 SURFACE R.L. 6.86m PLUNGE DATE STARTED 11/10/10 GRID DATUM MGA94 Zone 55
 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 12/10/10 DRILLER Cairns Drilling

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	VI	W	J	VL					EL	20
0	6.86					Silty Sandy CLAY (ALLUVIAL) Black, moist, soft. Fine grained sand; minor roots.	(CH)											Based on Driller's logs only		
6.06					A	Silty Sandy CLAY (ALLUVIAL) Dark brown, moist, soft to firm. High plasticity; fine grained sand.	(CH)												1,2,2 N=4	SPT
4.16					B	Clayey SILT (ALLUVIAL) Pale grey, moist, stiff.	(MH)												3,5,9 N=14	SPT
3.46					C	Clayey Silty SAND (ALLUVIAL) Pale grey, moist, medium dense. Fine to medium grained sand.	(SC)											Loose sand lenses		
2.06					D	Clayey SAND (ALLUVIAL) Pale grey, moist, medium dense to dense.	(SC)												8,8,11 N=19	SPT
0.06					E	GRANODIORITE Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits the engineering properties of mottled grey, orange-black, moist, very stiff to hard, clayey sandy silt.	XW												10,15,24 N=39	SPT
					F														10,15,20 N=35	SPT
					G														8,11,15 N=26	SPT

REMARKS _____

LOGGED BY
JA/ME



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH108
SHEET 2 of 3
REFERENCE No H10860

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 2, Centreline COORDINATES 718775.1 E; 7655033.5 N
PROJECT No FG5635 SURFACE R.L. 6.86m PLUNGE DATE STARTED 11/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 12/10/10 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	VI	MI	J	VL				
10	-3.15					GRANODIORITE XW: (Cont'd)												
11					H												6,9,12 N=21	SPT
12					G		XW										8,15,20 N=35	SPT
13					K												9,14,25 N=39	SPT
14	-6.55				L	GRANODIORITE HW: Grey-brown, moist, dense to very dense, gravelly silty sand. Minor angular medium to coarse grained rock fragments.											11,17,22 N=39	SPT
15					M												11,17,22 N=39	SPT
16					N												8,17,21 N=38	SPT
17					O		HW										9,17,25 N=42	SPT
18					P	Becoming more gravelly clay @ 17.40m.											12,30/140mm N>50	SPT
19					(0)	Becoming very low strength rock with depth.												
20	-13.15				(0)													

REMARKS _____

LOGGED BY
JA/ME



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH108

SHEET 3 of 3

REFERENCE No H10860

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

LOCATION Pier 2, Centreline COORDINATES 718775.1 E; 7655033.5 N

PROJECT No FG5635 SURFACE R.L. 6.86m PLUNGE DATE STARTED 11/10/10 GRID DATUM MGA94 Zone 55

JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 12/10/10 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
20	-13.15		0		GRANODIORITE HW: Brown and speckled white, moist, very dense, silty gravelly sand, abruptly grading into very low to low strength rock.						30/130mm N>50 Is(50) = 0.02MPa Is(50) = 0.10MPa	
			(0)									SPT x o
			100									
			(0)									
			100									
			(0)								Is(50) = 0.01MPa Is(50) = 0.08MPa	x o
			100									
			(0)									
			100									
			(73)		GRANODIORITE MW: Pale grey and speckled light brown, medium to coarse grained, massive, mainly low to medium strength.						Is(50) = 0.29MPa Is(50) = 0.05MPa Is(50) = 0.17MPa Is(50) = 0.08MPa	o x o x
					Defects: - Defects @ 10° (1-3/m)						Is(50) = 0.18MPa Is(50) = 0.31MPa	x o
			100		Defects are generally planar, rough and open.						Is(50) = 0.30MPa Is(50) = 0.02MPa	o x
					Borehole terminated at 24.15m							
25												
26												
27												
28												
29												
30												

REMARKS _____

LOGGED BY
JA/ME

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

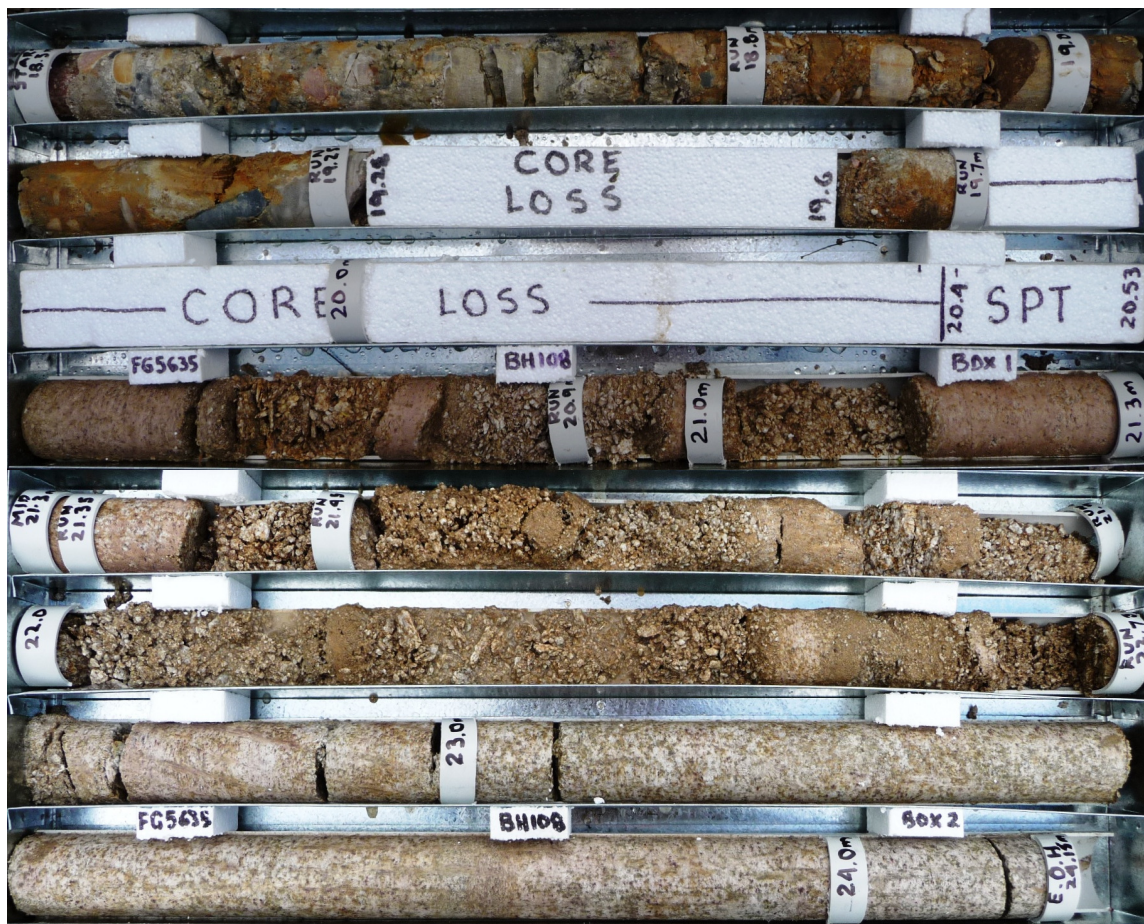
Borehole No: **BH108**

Start Depth: 18.30m

Finish Depth: 24.15 m

Project No: FG5635

H No:



SCALE 1:5

F:GEOT043/1