

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://ggd.org.au/>



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH123
SHEET 1 of 4
REFERENCE No H10893

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 10.0m LHS) COORDINATES 721542.2 E; 7654825.2 N
PROJECT No FG5635 SURFACE R.L. 8.94m PLUNGE DATE STARTED 1/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING DATE COMPLETED 2/11/10 DRILLER Cairns Drilling Pty Ltd

DEPTH (m)	R.L. (m)	ALGER 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
0	8.94					Clayey SAND (ALLUVIAL) Brown, moist, medium dense. High plastic fines; minor fine gravel fraction.								
1														
2					A				(SC)				4.5,7 N=12	SPT
3	6.44					Sandy Silty CLAY (ALLUVIAL) Brown, moist, very stiff. Medium to high plasticity.								
4					B				(CI/CH)				5.8,12 N=20	SPT
5	4.94					Silty CLAY (ALLUVIAL) Pale grey, moist, very stiff. Minor orange silty sand fraction.								
6					C				(CH)				5.9,14 N=23	SPT
7	3.14					SAND (ALLUVIAL) Pale grey, wet, medium dense, mostly fine to medium grained. Minor coarse layers with minor silt fraction.								
8					D								3.6,7 N=13	SPT
9					E				(SP)				6.8,7 N=15	SPT
10					F								8.8,8 N=16	SPT

REMARKS _____

LOGGED BY
ME



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH123
SHEET 2 of 4
REFERENCE No H10893

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 10.0m LHS) COORDINATES 721542.2 E; 7654825.2 N
PROJECT No FG5635 SURFACE R.L. 8.94m PLUNGE _____ DATE STARTED 1/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 2/11/10 DRILLER Cairns Drilling 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
10	-1.06												
11				G	SAND (ALLUVIAL) (Cont'd) Becoming denser and increasing in fines with depth.							8,13,11 N=24	SPT
12				H		(SP)						5,6,8 N=14	SPT
13	-3.76			J	Silty SAND (ALLUVIAL) Pale grey, moist, medium dense. Layers of varying grain size and fines content.							4,7,9 N=16	SPT
14				K		(SM)						11,12,15 N=27	SPT
15				L	Silty CLAY (RESIDUAL) Mottled pale grey and orange, moist, hard. High plasticity; Fe/Mn oxide nodules; some minor sandy layers.							12,20,28 N=48	SPT
16	-7.06			M		(CH)						11,18,22 N=40	SPT
17				N								11,18,23 N=41	SPT
18													
19													
20													

REMARKS _____

LOGGED BY
ME



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH123
SHEET 3 of 4
REFERENCE No H10893

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 10.0m LHS) COORDINATES 721542.2 E: 7654825.2 N
PROJECT No FG5635 SURFACE R.L. 8.94m PLUNGE _____ DATE STARTED 1/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 2/11/10 DRILLER Cairns Drilling Pty Ltd

DEPTH (m)	R.L. (m)	RQD (%)	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-11.06		Silty CLAY (RESIDUAL) (Cont'd)	(CH)					
21	-12.36		GRANODIORITE Intrusive, medium to coarse grained, massive, crystalline, porphyritic, acidic, igneous rock XW: Generally exhibits engineering properties of pale grey, orange and black, moist, hard, silty clay.	XW				13,25,30/110mm N>50	SPT
22									
23								14,23,29 N>50	SPT
24								13,29,30/110mm N>50	SPT
25	-16.06		HW: Generally exhibits the engineering properties of pale grey, orange and black, moist, hard, silty clay.	HW				19,30/90mm N>50	SPT
26									
27								30/130mm N>50	SPT
28									
29								30/100mm N>50	SPT
30	-20.91	(100)		SW				SW granodiorite	

REMARKS _____

LOGGED BY
ME



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH123
SHEET 4 of 4
REFERENCE No H10893

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 10.0m LHS) COORDINATES 721542.2 E; 7654825.2 N
PROJECT No FG5635 SURFACE R.L. 8.94m PLUNGE DATE STARTED 1/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING DATE COMPLETED 2/11/10 DRILLER Cairns Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORE 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	TH	IM	VL	EL	20	40	60	200			
30	-21.06					GRANODIORITE SW: (Cont'd) Black speckled light grey, very high strength. Defects: Very rare. - Occasional drill-induced fractures													Contact, 80°, subplanar	Is(50) = 0.90MPa	x
																			Is(50) = 4.87MPa	o	
31									SW										Is(50) = 6.16MPa Is(50) = 4.02MPa	x o	
32																			Is(50) = 4.25MPa Is(50) = 6.24MPa	o x	
	-23.71			100		Borehole terminated at 32.65m															
33																					
34																					
35																					
36																					
37																					
38																					
39																					
40																					

REMARKS _____

LOGGED BY
ME

Project: **Walkerston Bypass Geotechnical Investigation**
Borehole No: BH123 (Cowleys Road Bridge Ch. 84547.8 10.0m left)
Start Depth: 29.85 m
Finish Depth: 32.65 m
Project No: FG5635
H No: 10893



SCALE 1:5

F:GEOT043/1