COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (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/



BAKERS FG5635-

9

ENGINEERING BOREHOLE LOG

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

BH109 **BOREHOLE No** <u>1</u> of <u>3</u> SHEET H10864 REFERENCE No

WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE **PROJECT** COORDINATES 718783.8 E; 7655016.5 N LOCATION Pier 2, RHS PROJECT No <u>FG5635</u> ____ DATE STARTED 13/10/10 GRID DATUM MGA94 Zone 55 SURFACE R.L. __7.37m_ PLUNGE ______ HEIGHT DATUM AHD BEARING ____ DATE COMPLETED 14/10/10 JOB No DRILLER Cairns Drilling R.L. RQD INTACT DEFECT AÜGER CASING WASH BORING CORE DRILLING ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) MATERIAL AND GRAPHIC SAMPLE **DESCRIPTION** TESTS CORF **TEST RESULTS** nsc REC % 0 7.37 11111 Silty SAND (ALLUVIAL) Based on Driller's logs only (SM AS SPT Brown, moist, very loose, minor tree roots. Pushed SPT sample 6.97 Clayey SAND (ALLUVIAL) Brown, moist, medium dense. (SC) 3.4.7 6.17 N=11. SPT $pH_F = 5.3$ $pH_{Fox} = 6.3$ Silty Sandy CLAY (ALLUVIAL) Dark brown, moist, mainly firm to occasionally stiff. Medium to high plasticity; fine grained sand; 2.2.4 WALKERSTON BYPASS.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-In 01/09/2011 14:55 SPT В Ń=6 (CH) PP=75kPa U50 2.2.4 SPT С N=6 PP=140kPa U50 3.47 Silty Clayey SAND (ALLUVIAL) Dark grey-brown, wet, very loose. 0,0,0 D SPT (SC) - 5 N=2; Ε SPT $pH_{F} = 5.8$ U50 1.37 -6 Silty Gravelly SAND (ALLUVIAL) N=25; SPT Grey-orange-brown, moist, medium dense. $pH_F = 6.9$ $pH_{Fox} = 5.2$ (SM) Fine to coarse grained sand. 01A.GLB LOG A_ENGINEERING BOREHOLE LOG W LITHOLOGY 0.37 **GRANODIORITE** Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits the engineering 8,12,17 properties of brown, moist, very stiff to hard, SPT clayey sandy silt. -8 XW 6.10.15 SPT N=25 LOGGED BY REMARKS_ MF



ENGINEERING BOREHOLE LOG

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

WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE **PROJECT** COORDINATES 718783.8 E; 7655016.5 N LOCATION Pier 2, RHS PROJECT No_FG5635_____ SURFACE R.L. __7.37m_ PLUNGE ______ DATE STARTED 13/10/10 GRID DATUM MGA94 Zone 55 HEIGHT DATUM <u>AHD</u> BEARING ____ DATE COMPLETED 14/10/10 JOB No DRILLER Cairns Drilling R.L. RQD INTACT DEFECT MASH BORING CORE DRILLING CORE DRILLING ADDITIONAL DATA ()% STRENGTH **SPACING** STRENGTH SPACING (mm)

LEATHER STRENGTH SPACING (mm)

LEATHER SPACING (mm) DEPTH (m) MATERIAL AND GRAPHIC SAMPLE **DESCRIPTION** SAMPL TESTS CORE **TEST RESULTS** nsc REC % 10 GRANODIORITE XW: (Cont'd) 8,14,19 SPT N = 33XW 11,21,30/120mm SPT -4.44 **GRANODIORITE** HW: Grey, yellow, orange-brown, moist, LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOGW LITHOLOGY BAKERS FG6635- WALKERSTON BYPASS.GPJ <<p>Commission of the commission of the commiss dense to very dense, gravelly silty sand. 11,21,29 SPT N=50 20,30/149mm М SPT N>50 8,16,19 Ν SPT N=35 10,12,16 0 SPT N=28 HW 10,16,16 Р SPT 8.15.18 SPT Q N=33 Becoming more gravelly @ 18.80m. 30/120mm R SPT N>50 Becoming very low strength rock with depth. 9 LOGGED BY REMARKS_ ME



BAKERS FG5635-

LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOGW LITHOLOGY

ENGINEERING BOREHOLE LOG

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

BH109 **BOREHOLE No** <u>3</u> of <u>3</u> SHEET REFERENCE No H10864

WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE **PROJECT** COORDINATES <u>718783.8</u> E; 7655016.5 N LOCATION Pier 2, RHS PROJECT No FG5635 SURFACE R.L. __7.37m_ PLUNGE ______ DATE STARTED 13/10/10 GRID DATUM MGA94 Zone 55 HEIGHT DATUM <u>AHD</u> BEARING ____ DATE COMPLETED 14/10/10 JOB No DRILLER Cairns Drilling R.L. RQD INTACT DEFECT ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) WEATHERN
WEA MATERIAL AND **DESCRIPTION** TESTS AÚGEF CASINC WASH CORE I CORF **TEST RESULTS** REC % 20 -12.64 GRANODIORITE (0) 30/50mm SPT HW: (Cont'd) N>50 33 (0) Is(50) = 0.04MPa100 - 21 (0) 100 Is(50) = 0.05MPa(0) 100 (0) HW 100 (0) Is(50) = 0.05MPaIs(50) = 0.01MPa0 Is(50) = 0.08MPaIs(50) = 0.04MPa0 -17.09 100 DOLERITE / BASALT (46)Extrusive, fine grained, massive, crystalline, Is(50) = 0.37MPa0 mafic igneous rock MW MW: Dark grey, fine grained, massive, mainly medium to high strength. -17.94 Defects: UCS = 45.3 MPa - Clay infilled joints @ 5-90°, generally 5mm SW Is(50) = 10.58MPathick х 100 -18.64 DOLERITE / BASALT Is(50) = 7.30MPaSW: Dark grey, fine grained, massive, crystalline, very high to extremely high strength. Borehole terminated at 26m - 28 - 29 9 LOGGED BY REMARKS_ MF

Project: Walkerston Bypass (Bakers Ck)

Borehole No: BH109
Start Depth: 20.05 m
Finish Depth: 26.00 m
Project No: FG5635

H No:



