

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 BH14
SHEET 1 of 3
REFERENCE No H11024

PROJECT Moreton Bay Rail Link
LOCATION Ch.5840 on Centreline, Cut 5 COORDINATES 502760.8 E; 6986348.5 N
PROJECT No FG5921 SURFACE R.L. 26.30m PLUNGE _____ DATE STARTED 4/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 4/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING 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	26.30					Silty SAND Red brown, moist, loose.							Based on Driller's logs	
1	25.30				A	SANDSTONE Medium to coarse grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles HW:Red brown with white, yellow and red mottling, medium to coarse grained, very dense silty sand.							8,26,30/85mm N>50	SPT
2					B	Angular to subangular, clayey silt matrix; iron staining throughout. Black and white mottles, fine to coarse grained, poorly bedded, very low to low strength.							30/100mm N>50	SPT
3						Subangular to subrounded fine sand; iron stained bands <7.9m depth.							Is(50) = 0.24MPa Is(50) = 0.30MPa	x o
4			100			Interbedded bands of fine and coarse grained sand.						CLy seam CLy seam	Is(50) = 0.25MPa Is(50) = 0.21MPa	x o
5			100 (0) 100			Defects: - Joint @ 10° (1/m) - Joint @ 20° (1-2/m) - Joint @ 60° (1/m) - Joints @ 70° (1/m) Defects surfaces are close to medium spaced, planar and undulating, rough, tight, clean, clay infilled or iron stained.		HW					Is(50) = 0.13MPa	o
6												J, 60° J, 70°		
7			100									J, 70° CLy seam		
8	18.30					Quartz Feldspathic SANDSTONE MW: White and red brown, medium grained, massive, mainly low strength.							Is(50) = 0.11MPa	o
9			100			Quartz feldspathic sandstone.							DD = 2.01t/m³; MC = 8.9%; UCS=0.64MPa	UCS
10						Defects: Nil or rare. - Drilling-induced fracture @ 5-10° (2/m)		MW						
						(See over)							Is(50) = 0.22MPa	x

REMARKS _____

LOGGED BY
BW / LVD



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH14
SHEET 2 of 3
REFERENCE No H11024

PROJECT Moreton Bay Rail Link
LOCATION Ch.5840 on Centreline, Cut 5 COORDINATES 502760.8 E; 6986348.5 N
PROJECT No FG5921 SURFACE R.L. 26.30m PLUNGE DATE STARTED 4/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 4/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING 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	IN	NL	VL	EL			
10	16.30				Quartz Feldspathic SANDSTONE MW: (Cont'd) Defect surfaces are mainly medium to widely spaced, irregular, slightly rough, open, clean, iron stained.											Is(50) = 0.14MPa	o
			100 (100)													Is(50) = 0.33MPa Is(50) = 0.26MPa	x o
11																	
			100 (100)													Is(50) = 0.16MPa Is(50) = 0.15MPa	x o
12																	
			100 (100)														
13																	
			100 (100)													Is(50) = 0.25MPa Is(50) = 0.24MPa	x o
14																	
			100 (100)														
15																	
			100 (100)													Is(50) = 0.39MPa Is(50) = 0.64MPa DD = 2.11t/m ³ ; MC = 7.7%; UCS=3.19MPa	x o UCS
16																	
			100 (100)													Is(50) = 1.84MPa DD = 2.10t/m ³ ; MC = 6.6%; UCS=4.86MPa	x UCS
17																	
			100 (100)														
18																	
			100 (100)													Is(50) = 0.42MPa Is(50) = 0.74MPa	x o
19																	
			100 (100)														
20	6.50																

REMARKS

LOGGED BY
BW / LVD



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH14
SHEET 3 of 3
REFERENCE No H11024

PROJECT Moreton Bay Rail Link
LOCATION Ch.5840 on Centreline, Cut 5 COORDINATES 502760.8 E; 6986348.5 N
PROJECT No FG5921 SURFACE R.L. 26.30m PLUNGE DATE STARTED 4/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 4/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING 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	N	VL	EL	20	60	200	600	2000		
20	6.30					Interbedded MUDSTONE & SANDSTONE SW: Pale to dark grey, medium strength, some cross bedding, mainly low strength.	SW													Is(50) = 0.48MPa	o
	5.80		100																	Is(50) = 0.67MPa	x
21						Defects: - Drilling-induced fracture / lamination partings @ 5-10° (1/m) Defect surfaces are mainly medium spaced, planar, smooth, closed and open. Borehole terminated at 20.5m															
22																					
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					

REMARKS

LOGGED BY
BW / LVD

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	04/05/11
Borehole No	BH 14	TMR H No	11024
Location	Mango Hill Station	Start Depth (m)	2.50
Detail	Cut	Finish Depth (m)	20.50
Chainage	5840 Approx	Submitted By	BW
Remarks			



0 100 200 300 400 500 600mm

SCALE 1:5

