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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH152
SHEET 1 of 3
REFERENCE No 12093

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION QR North Coast Rail Overpass Abutment B; CH: 9988m;
COORDINATES 721580.0 E; 7662297.4 N
PROJECT No FG6184 SURFACE R.L. 11.04m PLUNGE DATE STARTED 29/10/14 GRID DATUM GDA 94 /MGA Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 30/10/14 DRILLER Saxon Drilling

Table with columns: 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. Includes soil descriptions like Clayey GRAVEL and SAND (FILL), Silty CLAY (ALLUVIUM), and Silty SAND (ALLUVIUM).

TMJR JAN 15.GLB Log_A_ENG ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datget CPT Tool gINT_Acc-In 04/09/2015 10:51

REMARKS Kgwu - Wundaru Granodiorite; # Sample failed along existing defect surface. Rock Roller bit used from 13.45m to 14.40m.

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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH152
SHEET 2 of 3
REFERENCE No 12093

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION QR North Coast Rail Overpass Abutment B; CH: 9988m;
COORDINATES 721580.0 E; 7662297.4 N
PROJECT No FG6184 SURFACE R.L. 11.04m PLUNGE DATE STARTED 29/10/14 GRID DATUM GDA 94 /MGA Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 30/10/14 DRILLER Saxon Drilling

Table with columns: DEPTH (m), R.L. (m), AUGER CASING WASH BORING CORE DRILLING, CORE REC %, SAMPLE, MATERIAL DESCRIPTION, LITHOLOGY, USC WEATHERING, INTACT STRENGTH, DEFECT SPACING (mm), GRAPHIC LOG, ADDITIONAL DATA AND TEST RESULTS, SAMPLES TESTS. Rows include Silty SAND (ALLUVIUM), Sandy Silty CLAY (RESIDUAL), GRANODIORITE (Kgwu), and MICRODIORITE (Kgwu).

TMW JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datget CPT Tool gInt Add-In 04/03/2015 10:51

REMARKS Kgwu - Wundaru Granodiorite;
Sample failed along existing defect surface.
Rock Roller bit used from 13.45m to 14.40m.

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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH152
 SHEET 3 of 3
 REFERENCE No 12093

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
 LOCATION QR North Coast Rail Overpass Abutment B; CH: 9988m; COORDINATES 721580.0 E; 7662297.4 N
 PROJECT No FG6184 SURFACE R.L. 11.04m PLUNGE DATE STARTED 29/10/14 GRID DATUM GDA 94 /MGA Zone 55
 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 30/10/14 DRILLER Saxon 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	HM	JM	VL	EL	EC	VC	WC	WV	WW	WV	EW												
20	-8.96					GRANODIORITE (Kgwu) MW: (Cont'd) Defects: - Js; 0°-30° (4/m); PI/Ro, TI;	+		[Graphical representation of intact strength data]											[Graphical representation of defect spacing data]												Is(50) = 0.30MPa	D (20.74m)
21			100 (64)		MW																												
22	-11.06					GRANODIORITE (Kgwu) SW: Grey, pink and white, medium to coarse grained, massive, high strength. Defects: - Js; 0°-30° (7/m); PI-Un/Ro, TI-OP;	+		[Graphical representation of intact strength data]											[Graphical representation of defect spacing data]												Is(50) = 1.19MPa Is(50) = 1.23MPa Is(50) = 1.07MPa	A (22.70m) A (22.75m) D (22.80m)
23			100 (77)		SW																												
23.65	-12.61					Borehole terminated at 23.65m.																											
24																																	
25																																	
26																																	
27																																	
28																																	
29																																	
30																																	

TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datget CPT Tool gInt.Add-In 04/03/2015 10:51

REMARKS Kgwu - Wundaru Granodiorite;
 # Sample failed along existing defect surface.
 Rock Roller bit used from 13.45m to 14.40m.

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ME

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
 Geotechnical Branch
 35 Butterfield Street, HERSTON Qld 4006
 Phone 07 3066 3336



Department of
 Transport and Main Roads

Project Name	Mackay – Ring Road		
Project No	FG6184	Date	30/10/14
Borehole No	BH152	TMR H No	12093
Location	QR North Coast Rail Overpass	Start Depth (m)	14.40
Detail	Abutment B	Finish Depth (m)	23.65
Chainage	9988m	Submitted By	M.Ensor
Remarks			

