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ENGINEERING BOREHOLE LOG

BOREHOLE No BH144

SHEET 1 of 3

REFERENCE No 12085

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

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1

LOCATION Fursden Creek Bridge Abutment B; CH: 9195m; COORDINATES 721489.9 E; 7661511.8 N

PROJECT No FG6184 SURFACE R.L. 7.61m PLUNGE DATE STARTED 2/9/14 GRID DATUM GDA 94 /MGA Zone 55

JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 4/9/14 DRILLER ND 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
0	7.61											
0.30	7.31				Sandy CLAY (TOPSOIL): Dark brown mottled orange, dry, soft. Medium plasticity. Fine to medium grained sand. Roots throughout.	(CI)						
1				A	Sandy CLAY (ALLUVIUM) Black, dry, stiff. Medium plasticity. Fine to medium grained sand.	(CI)					3,6,6 N=12	SPT
1.50	6.11											
2				B	Silty SAND (ALLUVIUM) Brown, moist, loose. Fine to medium grained sand.	(SM)					3,4,5 N=9	SPT
2.40	5.21											
3												
3.90	4.61				Clayey SAND (ALLUVIUM) Brown mottled orange, moist to wet, medium dense. Fine to medium grained sand. Medium plasticity.	(SC)						
3.45	4.16			C	Sandy CLAY (ALLUVIUM) Grey, moist, firm. Medium plasticity. Fine to medium grained sand.	(CI)					2,3,4 N=7	SPT
4												
4.50	3.11				Clayey SAND (ALLUVIUM) Grey, wet, loose. Fine to coarse grained sand.	(SC)					4,4,2 N=6	SPT
4.90	2.71											
5												
6				E	CLAY with sand (ALLUVIUM) Dark grey mottled brown, moist, stiff. High plasticity. Fine to medium grained sand.	(CH)					3,4,6 N=10	SPT
6.36	1.25			F							Su _(pp) =100kPa;	U50
6.80	0.81				Clayey SAND (ALLUVIUM) Grey, moist, medium dense. Fine to coarse grained. Medium dense.	(SC)						
7												
7.50	0.11			G	Sandy CLAY (ALLUVIUM) Grey mottled orange-brown, moist, very stiff. Medium plasticity. Fine to coarse grained sand.	(CI)					4,7,10 N=17	SPT
8												
8.90	-1.29				Silty SAND (ALLUVIUM) Pale grey, wet, dense. Fine to medium grained.	(SM)					13,18,16 N=34	SPT
9												
10.10	-2.39			J	Clayey SAND (RESIDUAL) Orange-brown mottled grey, moist, medium dense to dense. Fine to coarse grained, medium plasticity.	(SC)					6,9,11 N=20	SPT

TMR JAN 15.GLB Log A. ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Dataget.CPT Tool gInt.Add-In 04/09/2015 10:51

REMARKS Kgwu - Wundaru Granodiorite;
 # Sample failed along existing defect surface.

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ENGINEERING BOREHOLE LOG

BOREHOLE No **BH144**
 SHEET **2** of **3**
 REFERENCE No **12085**

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

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
 LOCATION Fursden Creek Bridge Abutment B; CH: 9195m; COORDINATES 721489.9 E; 7661511.8 N
 PROJECT No FG6184 SURFACE R.L. 7.61m PLUNGE _____ DATE STARTED 2/9/14 GRID DATUM GDA 94 /MGA Zone 55
 JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 4/9/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH											DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS			
								USC	WEATHERING																
10	-2.39				K	Clayey SAND (RESIDUAL) (Cont'd)																		9,15,18 N=33	SPT
11					L	11.40m: Becoming green-grey mottled brown. Trace fine, angular gravel.	(SC)																	7,12,14 N=26	SPT
12	-4.54				M	GRANODIORITE (Kgwu) XW: White, grey and pink, coarse grained, extremely low strength.																		11,23,37 N=60	SPT
13					N																			13,25,30 N=55	SPT
14					P	14.30m: Brown, grey and green in colour.																		13,28,30/80	SPT
15					Q	15.20m: Becoming grey with clayey bands.																		16,19,40 N=59	SPT
16					R		XW																	21,26,37 N=63	SPT
17					S																			25,32,43 N=75	SPT
18					T																			31,44,30/75	SPT
19	-11.79		(0)																						
19.40			100			Core Loss																			
20			(0)																						
20.20	-12.39		0																						
																19.40m-20.00m: Core Loss									

REMARKS Kgwu - Wundaru Granodiorite;
Sample failed along existing defect surface.

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH144
SHEET 3 of 3
REFERENCE No 12085

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION Fursden Creek Bridge Abutment B; CH: 9195m;
COORDINATES 721489.9 E; 7661511.8 N
PROJECT No FG6184 SURFACE R.L. 7.61m PLUNGE DATE STARTED 2/9/14 GRID DATUM GDA 94 / MGA Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 4/9/14 DRILLER ND Drilling Pty Ltd

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. Rows include data for GRANODIORITE (Kgwu) and MICRIDIORITE (Kgwu) with various test results and defect descriptions.

TMW JAN 15.GLB Log_A_ENG 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.

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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	04/09/14
Borehole No	BH144	TMR H No	12085
Location	Fursden Creek Bridge	Start Depth (m)	19.0
Detail	Abutment B	Finish Depth (m)	29.15
Chainage	9195m	Submitted By	DC
Remarks			

