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**Queensland
Government**

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH146

SHEET 1 of 2

REFERENCE No 12087

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
 LOCATION Embankment - South of QR North Coast Rail Overpass; CH: 9635m; COORDINATES 721562.4 E; 7661946.1 N
 PROJECT No FG6184 SURFACE R.L. 10.75m PLUNGE DATE STARTED 28/10/14 GRID DATUM GDA 94 / MGA Zone 55
 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 28/10/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	10.75					Sandy CLAY (TOPSOIL) Dark brown, dry, soft. Low plasticity. Fine to coarse grained sand. Roots & root fibres.	(CL)						
0.40	10.35					Sandy CLAY (ALLUVIUM) Dark brown, dry to moist, stiff. Medium plasticity. Fine to coarse grained sand.	(CI)						
1.00	9.75				A	Clayey SAND (ALLUVIUM) Brown-orange, moist, medium dense. Fine to coarse grained sand.	(SC)					5,6,7 N=13	SPT
1.80	8.95				B	SAND (ALLUVIUM) Brown, moist, medium dense. Fine to coarse grained sand. With silt.	(SM)					3,5,5 N=10	SPT
2					C	3.00m: Becoming wet. Trace fine, subrounded to rounded gravel.	(SP-SM)				∇ 28/10/14	5,6,7 N=13	SPT
4					D							6,6,7 N=13	SPT
4.50	6.25				E	Silty SAND (ALLUVIUM) Brown, wet, medium dense. Fine to coarse grained sand. Trace fine, subrounded to rounded gravel.	(SM)					6,6,8 N=14	SPT
5					F	CLAY (ALLUVIUM) Dark grey to grey, orange, moist, stiff. High plasticity. Trace fine to coarse grained sand.	(CH)					3,5,7 N=12	SPT
6					G	Sandy CLAY (ALLUVIUM) Pale grey, orange, moist, very stiff. Medium plasticity. Fine to coarse grained sand.	(CI)					Su _(FSV) =168kPa;	U50
6.80	3.95				H	Clayey SAND (ALLUVIUM) Pale grey, orange, wet, medium dense. Fine to medium grained sand.	(SC)					6,11,12 N=23	SPT
8	2.75					Silty SAND (ALLUVIUM) Pale grey, orange, wet, medium dense. Fine to coarse grained sand.	(SM)						
8.80	1.95												
8.80	1.95												
9													
9.45	1.30												
10													

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

REMARKS Kgwu - Wundaru Granodiorite;

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH146
SHEET 2 of 2
REFERENCE No 12087

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									EH	VH	HM	J	VL	EL	EC	VC	WC	WW	VW	EW							
10	0.75				I	Silty SAND (ALLUVIUM) (Cont'd)																		8,12,12 N=24	SPT		
11	-0.65				J	11.10m: Becoming Clayey SAND.	(SM)																	8,10,21 N=31	SPT		
12					K	GRANODIORITE (Kgwu) XW: Recovered as brown, grey, orange, very dense Clayey SAND.		XW															11.50m: Clayey bands 8,28,30 N=58	SPT			
13	-2.25				L	MICRODIORITE (Kgwu) HW: White, grey, orange, fine to medium grained, very low strength.																	30/70	SPT			
14					M			HW															15/30	SPT			
15	-3.75				N	GRANODIORITE (Kgwu) HW: Orange, brown, grey, very low strength.		HW															15/30	SPT			
15.20	-4.45					Borehole terminated at 15.2m.																					

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