ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No BH C67
SHEET 1 of 2
REFERENCE No H11147

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Embankment 10 COORDINATES 471149.5 E; 7095635.9 N
PROJECT No FG5799 SURFACE R.L. 60.00m PLUNGE DATE STARTED 04/08/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 04/08/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	60.00													
	59.90				**TOPSOIL**									
					Clayey SILT (Alluvium?): Grey, dry.		(ML)					Based on driller's logs only		
	59.15													
1				A	**Silty CLAY (Alluvium?)** Dark brown, moist, firm, high plasticity. Trace sand. Trace gravel up to 20mm. Trace organics.		(CH)					Water Table (4/8/11) 2,2,3 N=5		SPT
2	57.90			B	**Gravelly CLAY (Residual):** Brown/grey, moist, very stiff, high plasticity. Quartz gravel up to 35mm. Becoming sandy in parts.		(CH)					PP_{su}=232kPa		U50
3				C								7,11,18 N=29		SPT
	56.10													
4				D	**SILTSTONE (HW):** Brown/grey, fine grained, rock fabric visible throughout.		HW					30,10/0 N>50		SPT
5				E								30/80 N>50		SPT
	54.50													
			(37)		**SILTSTONE (MW):** Brown/grey, fine grained, subtly foliated, mainly medium to high strength, indurated and/or slighlty metamorphosed. Defects: -HW clayey broken zones sizing up to 350mm. -Foliation parting at 30° (~4-5/m) -Joint at 10°-20° (1-2/m) -Joint at 60° (1-2/m) Defects spacing is close to medium. Defect surfaces are planar, tight, smooth, clay infilled, iron stained.							Is(50) = 0.36MPa Is(50) = 1.26MPa		x o
6												J, 20°, Pl, O, R, Clnf, 5mm		
			100									FP, 30°, Pl, O, Clnf Is(50) = 0.24MPa Is(50) = 1.28MPa		x o
7			(0)				MW					J, 40°, I, O, Clnf, FeSt		
			100											
			(0)									CLy BZ		
			100											
8			(0)											
			78									CLy BZ		
	51.67		(18)											
					SILTSTONE (SW): Grey, fine grained, subtly foliated, high strength, indurated and/or slightly metamorphosed. Defects: -Foliation parting at 30°-50° (4-5/m) -Joint at 30° (1-2/m) -Joint at 70° (1/m) (See over)							Is(50) = 0.51MPa		o
			(43)									J, 60°, Pl, T, S, Clnf		
9							SW					BZ		
												FP, 50°, Pl, T, Clnf		
10												Is(50) = 1.32MPa Is(50) = 2.07MPa		x o

REMARKS

LOGGED BY JA/DC

OLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE_LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gINt Add-In 12/12/2011 16:30

ENGINEERING BOREHOLE LOG

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DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	50.00		(26)		**SILTSTONE (SW):** Cont'd Defect spacing is medium. Defect surfaces are planar, tight or open, smooth, clay infilled.		SW					Is(50) = 0.36MPa Is(50) = 0.48MPa J, 70°, Pl, T, R, Cn		x o
11	48.65											BZ, DI? Is(50) = 0.57MPa		x
					Borehole terminated at 11.35m									
12														
13														
14														
15														
16														
17														
18														
19														
20														

REMARKS

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QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gINt Add-In 12/12/2011 16:30

DEPARTMENT OF TRANSPORT & MAIN ROADS
Geotechnical Branch
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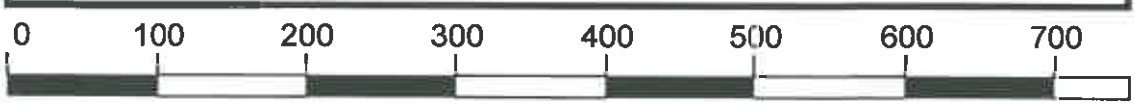
Queensland Government

CORE PHOTO LOG - BH C67

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Embankment 10	Start Depth (m):	5.00
Reference No.:	H11147	Finish Depth (m):	11.35



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