ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No BH C73
SHEET 1 of 2
REFERENCE No H11201

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Embankment 8/Potential Access Overpass Abut A COORDINATES 471985.9 E; 7093831.0 N
PROJECT No FG5799 SURFACE R.L. 71.60m PLUNGE DATE STARTED 19/09/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 19/09/11 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	71.60													
	71.35				**TOPSOIL:** Grey/brown, dry, gravelly silt.									
1				A	**Sandy SILT (Fill):** Brown/grey, fine grained, moist, very stiff, low plasticity.		(ML)					10,14,13 N=27		SPT
	69.85													
2				B	**Sandy CLAY (Alluvium):** Grey mottled with red iron staining, moist, stiff to very stiff. Intermediate to high plasticity, sand fraction is fine grained.		(CI-CH)					6,7,7 N=14		SPT
3														
4				C								6,7,10 N=17		SPT
5														
	66.10			D	**SANDSTONE (HW):** Brown/grey, fine grained.		HW					30/100 N>50		SPT
6														
7	64.50			E								30/50 N>50		SPT
			(0)		**SANDSTONE (MW):** Brown/grey, fine grained, generally massive, medium strength, indurated and/or slightly metamorphosed. Defects: -Joint at 35° (3-4/m) -Joint at 45°-50° (3-4/m) -Joint at 70° (2-3/m) Defects are mainly closely spaced. Defect surfaces are planar, tight, slightly rough, thinly clay infilled, iron stained. Occasional siltstone interbeds. Bedding dips at 50°.		MW					J, 50°, Pl, T, S, Clnf J, 50°, Pl, T, S, FeSt HW Clayey Seam		
8			100 (6)									Clay Seam, 50° Siltstone Interbed		
	62.89											J, 30°, I, R, FeSt		
9					**SANDSTONE (SW):** Grey, fine grained, generally massive, mainly high strength, indurated and/or slightly metamorphosed. (See over)		SW					Is(50) = 0.56MPa Is(50) = 0.39MPa J, 70°, Pl, T, S, Clnf, FeSt J, 50°, Pl, T, S, FeSt Is(50) = 3.48MPa J, 40°, Pl, O, SR, FeSt Is(50) = 3.24MPa	x o x o	
			100 (23)									J, 40°, Pl, O, R, FeSt		
10														

REMARKS

LOGGED BY JA/DC

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

Queensland Government

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH C73
SHEET	2 of 2
REFERENCE No	H11201

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Embankment 8/Potential Access Overpass Abut A COORDINATES 471985.9 E; 7093831.0 N

PROJECT No FG5799 SURFACE R.L. 71.60m PLUNGE DATE STARTED 19/09/11 GRID DATUM MGA94

JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 19/09/11 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
10	61.60				**SANDSTONE (SW):** Cont'd Defects: -Joint at 10° (3/m) -Joint at 40°-50° (2/m) -Joint at 60° (1/m) -Joint at 80° (1/m) Defect spacing is close to medium. Defect surfaces are planar, open , slightly rough, iron stained or clay infilled. Occasional siltstone interbeds dipping at 40°-50°.							J, 70°, Pl, O, S, FeSt J, 10°, Pl, O, S, FeSt Is(50) = 2.38MPa J, 80°, Pl, T, S, FeSt Is(50) = 2.23MPa Siltstone interbed, 50° J, 70°, Pl, T, Clnf	x o	
11			100 (0)											
12			100 (35)				SW					J, 70°, Pl, T, S, Cn Is(50) = 2.47MPa CLy BZ J, 70°, Pl, O, S, Clnf	x	
13	57.93		100		12.92-13.67: Interbedded sandstone/siltstone. Bedding dips approximately 40°.							CLy BZ J, 70°, Pl, T, S, Cn Is(50) = 0.44MPa	x	
14					Borehole terminated at 13.67m									
15														
16														
17														
18														
19														
20														

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

REMARKS

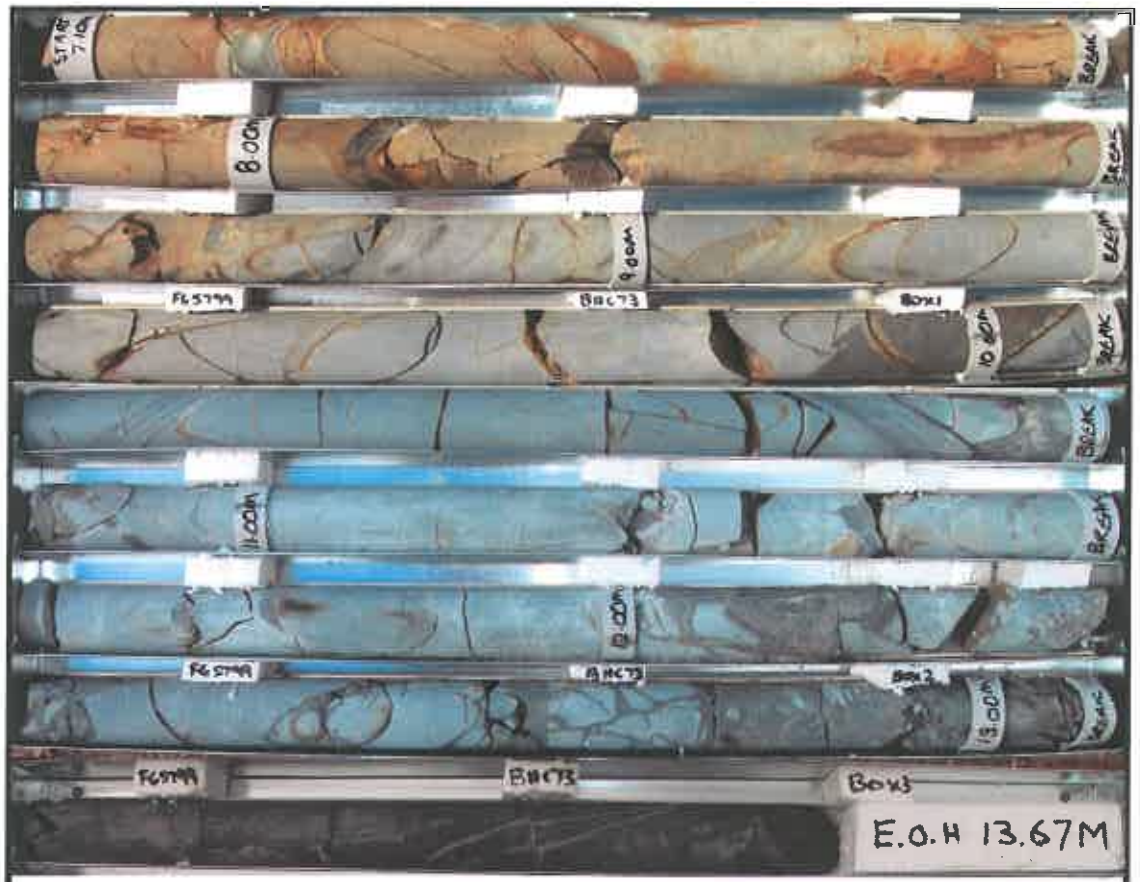
LOGGED BY JA/DC

DEPARTMENT OF TRANSPORT & MAIN ROADS
Geotechnical Branch
35 Butterfield Street, HERSTON Qld 4006
Phone 07 3115 3035 Fax 07 3115 3011

Queensland Government

CORE PHOTO LOG - BH C73

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	20/09/2011
Details:	Structure	Start Depth (m):	7.10
Reference No.:	H11201	Finish Depth (m):	13.67



0 100 200 300 400 500 600 700

SCALE 1:5