Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No BH2
SHEET 1 of 1
REFERENCE No H10294

PROJECT Oaky Creek Bridge Foundation Investigation - Texas
LOCATION Pier 1 O/S 4m Right COORDINATES 320790.6 E; 6814006.3 N
PROJECT No FG5573 SURFACE R.L. 292.43 PLUNGE DATE STARTED 21/04/08 GRID DATUM GDA94
JOB No 50-002989 HEIGHT DATUM AHD BEARING DATE COMPLETED 21/04/08 DRILLER R&D Drilling P/L

DEPTH (m)	R.L. (m)	AUGER / CASING / ROCK ROLLER / CORE DRILLING	RQD ( )% / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	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	292.43				**Clayey Silty SAND (TOPSOIL)** Brown, dry, loose. Contains minor plant roots. Sand fraction is fine to medium grained and well sorted.	(SC)					3,3,2 N=5	A	SPT
2	290.33				**Clayey GRAVEL (ALLUVIUM)** Orange-brown, wet, medium dense. Gravel is fine to medium grained and poorly sorted.	(GC)					12,12,17 N=29	B	SPT
4	288.43			C	**MUDSTONE (CHERTIFIED)** **FINE-GRAINED SEDIMENTARY ROCK COMPOSED CHIEFLY OF CLAY-SILT SIZED PARTICLES.** **XW:** Greenish-grey with the engineering properties of wet, very dense clayey gravel.	XW					70/30 N>50		SPT
5	286.83										0/5 N>50 No Return		SPT
6			(63)		**SW:** Dark grey, very fine grained, mostly massive, generally high to very high strength with some medium strength bands. Contains minor, thick, wavy laminae and thin (<3mm) quartz veins. Heavily chertified (see remarks).	SW					Is(50)=1.94 MPa Is(50)=0.98 MPa		x o
7			100 (43)		Defects include joints and handling fractures. - Joints @ 10° (1/m). - Joints @ 25-35° (7/m). - Joints @ 70° (1/m). Joints are generally planar, smooth or rough, closed with calcite or sulphide coating, or clean.						Is(50)=3.36 MPa Is(50)=0.56 MPa		x o
8	283.88		100										
9					Borehole terminated at 8.55m								
10													

REMARKS Drilling supervision conducted by M.Dumesny. Chertification - Silicification by microcrystalline or cryptocrystalline quartz.

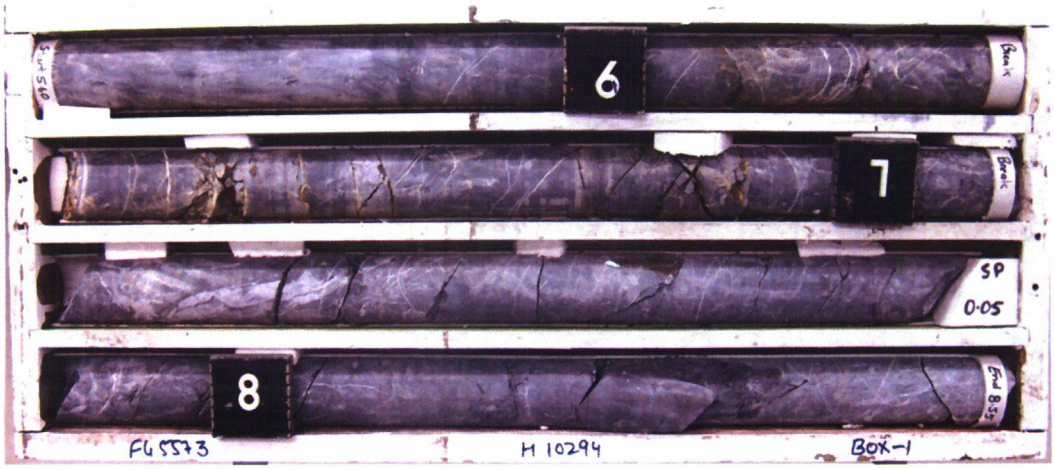
LOGGED BY S.Rea

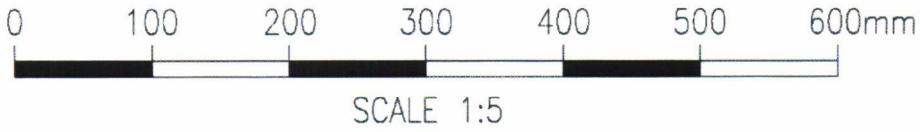
A_ENGINEERING BOREHOLE LOG FG5573 - OAKY CREEK TEXAS.GPJ MRD_LIB_V1.2.GLB 15/08/08

Project: **Oakey Creek Bridge Texas**

Borehole No: **BH 2**

Start Depth: 5.60
Finish Depth: 8.55
Project No: FG5573
H No: 10294





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Department of Main Roads

Geotechnical Branch Laboratory
Materials Services
Brisbane
Butterfield St Herston

Point Load Strength Index - Test Report

Project: Oaky Creek Bridge Texas
Project No: FG5573

Date Sampled 21/04/08 **Date Tested 29/05/08**
Feature: N/A
Sample Type: NMLC Core

Report No. FG5573/GS08-332/AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS08/332.A	BH 2	6.04	D	1.94	1.94	H	Mudstone
GS08/332.B	BH 2	6.18	A	0.98	0.98	M	Mudstone
GS08/332.C	BH 2	7.20	D	3.39	3.36	VH	Mudstone
GS08/332.D	BH 2	7.25	A	0.54	0.56	M	Mudstone

Sample Remarks

GS08/332.A- Note 1
GS08/332.C- Note 1

* D - Diametral; A - Axial; B - Block; I - Irregular; ** EL - Extremely Low; VL - Very Low; L - Low; M - Medium; H - High; VH - Very High; EH - Extremely High (taken from AS1726 Table 8A)

Remarks / Variations to Test Procedures:

Note 1: Failure along existing shear plane

Test Method: AS4133.4.1
Software Version 2.09 Beta July 2007

Client Name: Department of Main Roads
Client Address: PO Box 70, Spring Hill QLD 4004
Significant Equipment - gs33

Signatory 15/6/08
(Peter Reynolds)

Accreditation Number: 2302
Accredited for compliance with ISO/IEC 17025

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