Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH4
SHEET 1 of 1
REFERENCE No H10296

PROJECT Oaky Creek Bridge Foundation Investigation - Texas
LOCATION Pier 3 O/S 2m Left COORDINATES 320809.7 E; 6813979.0 N
PROJECT No FG5573 SURFACE R.L. 291.47 PLUNGE DATE STARTED 22/04/08 GRID DATUM GDA94
JOB No 50-002989 HEIGHT DATUM AHD BEARING DATE COMPLETED 22/04/08 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	291.47				**MUDSTONE (CHERTIFIED) FINE-GRAINED SEDIMENTARY ROCK COMPOSED CHIEFLY OF CLAY-SILT SIZED PARTICLES.**								
					XW:								
1				A	Pale yellow-brown with engineering properties of a dry, very dense clayey silty gravel.	XW					26,45/16 N>50		SPT
2											Clay band from 1.7-2.0m		
	289.17												
					HW:						0/5 N>50 No return		SPT
	288.77				Greenish-grey (drilling supervisor's observations).	HW							
			(87)		**SW:**								
3					Dark grey, very fine grained, mostly massive with some thin, wavy laminations, generally high to very high strength.								
					Contains some thin (<2mm) quartz veins throughout. Heavily chertified (see remarks).								
4			100		Defects include joints only.	SW					Is(50)=7.43 MPa		x
			(86)		- Joints @ 25-35° (3/m)						Is(50)=6.06 MPa		o
					- Joints @ 70° (<1/m)								
5					The joints are generally planar to slightly undulose, rough, closed with ironstaining or yellow sulphide coating.						Is(50)=3.76 MPa		x
	285.82		100										
					Borehole terminated at 5.65m								
6													
7													
8													
9													
10													

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

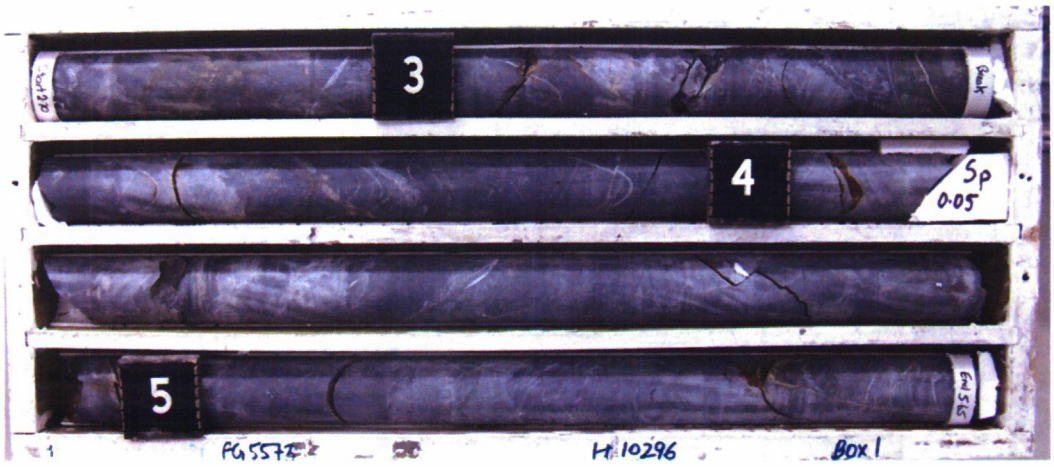
LOGGED BY S.Rea

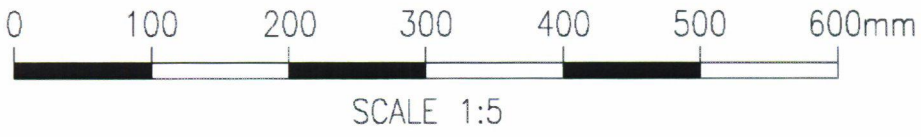
A_ENGINEERING BOREHOLE LOG FG5573 - OAKY CREEK TEXAS.GPJ MRD_LIB_V1.2.GLB 15/08/08

Project: **Oakey Creek Bridge Texas**

Borehole No: **BH 4**

Start Depth: 2.70
Finish Depth: 5.65
Project No: FG5573
H No: 10296





Queensland Government
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 22/04/08 **Date Tested 29/05/08**
Feature: N/A
Sample Type: NMLC Core

Report No. FG5573/GS08-334/AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS08/334.A	BH 4	4.00	D	7.64	7.43	VH	Mudstone
GS08/334.B	BH 4	4.12	A	5.98	6.06	VH	Mudstone
GS08/334.C	BH 4	5.11	D	3.95	3.76	VH	Mudstone

Sample Remarks

GS08/334.A- Note 1
GS08/334.B- Note 1
GS08/334.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 15/8/08
(Peter Reynolds)

NATA ACCREDITED FOR TECHNICAL COMPETENCE

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

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