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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No     BH1      
SHEET     1     of     2      
REFERENCE No     H10293    

PROJECT     Oak Creek Bridge Foundation Investigation - Texas      
LOCATION     Abutment A     COORDINATES     320780.8 E; 6814027.3 N      
PROJECT No     FG5573     SURFACE R.L.     294.76     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)	ALGER CASING ROCK ROLLER CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH				DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	N	SL				
0	294.76					<b>Clayey Silty SAND (TOPSOIL)</b> Brown, dry, medium dense.  Contains minor fine plant roots. Sand is fine to medium grained and well sorted.									
1					A	Pale brown below 1.25m (according to drilling supervisor's observations).	(SM)							5,5,8 N=13	SPT
2	292.76					<b>Clayey SAND (ALLUVIUM)</b> Grey-brown, moist, medium dense to dense.  Sand fraction is fine to coarse grained, poorly sorted and contains some fine gravel.								10,10,11 N=21	SPT
3					B		(SC)								
4					C	Orange-brown, dense and slightly higher clay content below approx. 4.0m.								8,13,21 N=34	SPT
5	289.76					<b>Clayey GRAVEL (ALLUVIUM)</b> Orange-brown, wet, medium dense.  Gravel is medium to coarse and poorly sorted. Contains minor sand fraction.								10,13,15 N=28	SPT
6					D		(GC)								
7	287.76					<b>MUDSTONE (CERTIFIED) FINE-GRAINED SEDIMENTARY ROCK COMPOSED CHIEFLY OF CLAY-SILT SIZED PARTICLES.</b> <b>XW:</b> Orange-brown with grey mottles, with the engineering properties of moist, hard clayey silt.								17,105/30 N>50 No recovery	SPT
8							XW								
9	286.16					<b>MW:</b> Pale orange-grey, very fine grained, massive, generally medium to high strength.								45/20 N>50 No recovery	SPT
						<b>Defects described in "SW" section.</b>									
	285.41					<b>SW:</b> Grey to dark grey, very fine grained, thinly laminated, generally high to very high strength. (Cont'd overleaf)									
10	284.76						SW								

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

LOGGED BY  
**S.Rea**



# ENGINEERING BOREHOLE LOG

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

BOREHOLE No   BH1  

SHEET   2   of   2  

REFERENCE No   H10293  

PROJECT   Oak Creek Bridge Foundation Investigation - Texas    
 LOCATION   Abutment A   COORDINATES   320780.8 E; 6814027.3 N    
 PROJECT No   FG5573   SURFACE R.L.   294.76   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					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
								EH	VH	M	JL	VL	EL	200	200				
10	284.76					<b>MUDSTONE (CERTIFIED)</b> <b>SW:</b> (Cont'd) Contains some healed brecciated zones. Heavily chertified (see remarks).  Defects include joints and minor handling fractures. - Joints @ 10° (1/m). - Joints @ 20-30° (7/m). - Joints @ 70° (1/m).  The joints are generally planar, smooth to rough, closed with calcite or sulphide coating or clean.	SW										Is(50)=1.60 MPa	o	
			100 (76)															Is(50)=3.68 MPa	x
			100 (34)															Is(50)=4.04 MPa	x
12																	Is(50)=5.46 MPa	o	
13	281.71		100			Borehole terminated at 13.05m													
14																			
15																			
16																			
17																			
18																			
19																			
20																			

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

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Project: **Oakey Creek Bridge Texas**

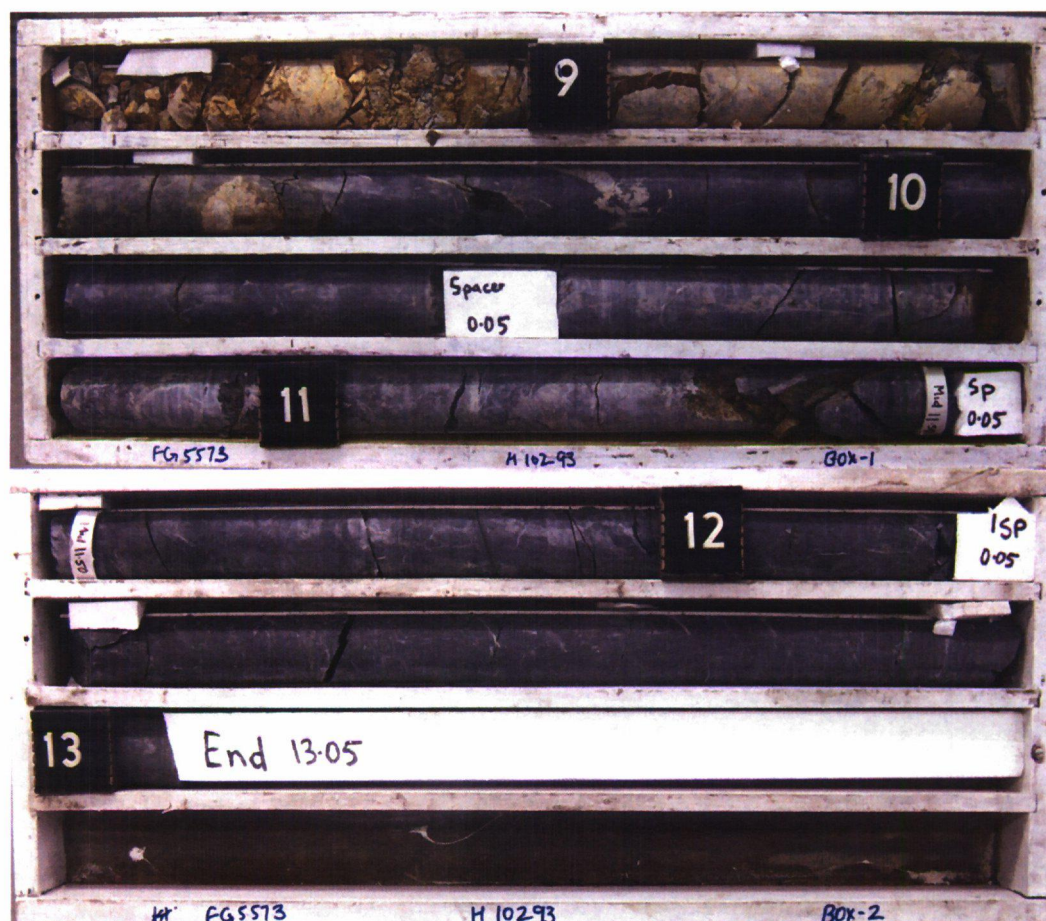
Borehole No: **BH 1**

Start Depth: 8.60

Finish Depth: 13.05

Project No: FG5573

H No: 10293



SCALE 1:5

# Point Load Strength Index - Test Report

**Project: Oakey Creek Bridge Texas**

**Project No: FG5573**

**Date Sampled 21/04/08**

**Feature: N/A**

**Sample Type: NMLC Core**

**Date Tested 29/05/08**

**Report No. FG5573/GS08-331/AS4133.4.1**

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS08/331.A	BH 1	10.10	A	1.55	1.60	H	Mudstone
GS08/331.B	BH 1	10.35	D	3.68	3.68	VH	Mudstone
GS08/331.C	BH 1	12.44	D	4.04	4.04	VH	Mudstone
GS08/331.D	BH 1	12.57	A	5.27	5.46	VH	Mudstone

**Sample Remarks**

GS08/331.A- 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:**

Test Method: AS4133.4.1

Software Version 2.09 Beta July 2007

Note 1: Failure along existing shear plane

Client Name: Department of Main Roads

Client Address: PO Box 70, Spring Hill QLD 4004

Significant Equipment - gs33

Signatory .....

( Peter Reynolds )

15/8/08



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