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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No BH9

SHEET 2 of 2

REFERENCE No H9558

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION

LOCATION PIER 5 - UPSTREAM/LEFT HAND SIDE

COORDINATES 10385.3 E; 167575.7 N

PROJECT No FG5388

SURFACE R.L. 9.82

DATE STARTED 19/04/05

DATUM SETP

JOB No 0405

DATUM AHD

DATE COMPLETED 19/04/05

DRILLER GEO DRILLING PTY LTD

DEPTH (m)	R.L. (m)	RQD (%)	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-0.18		CARBONACEOUS MUDSTONE MW: Grey to black, laminated, fine to medium grained, very low to low strength. Becoming more carbonaceous and contains coarse to very coarse quartzitic gravel along the profile; appears to be erodable with depth.						Is(50)=0.02 MPa Is(50)=0.03 MPa Is(50)=0.04 MPa	o x o
11	-1.03	100 (81)	SANDSTONE FINE TO MEDIUM GRAINED MAINLY LAMINATED TO SLIGHTLY MASSIVE POORLY CEMENTED SEDIMENTARY ROCK MW: Pale grey to mottled red, fine to medium grained, massive to mainly laminated, mainly low to medium strength. Defects : Generally rare. - Lamination partings - 10°-30° (1-2/m)	MW					Is(50)=0.04 MPa Is(50)=0.04 MPa Is(50)=0.09 MPa Is(50)=0.02 MPa Is(50)=0.01 MPa	x x o x o
12		100 (100)							Is(50)=0.28 MPa Is(50)=0.10 MPa	o x
13		100 (87)		MW					Is(50)=0.14 MPa Is(50)=0.36 MPa	o x
14	-4.33	87 (100)	SW: Pale grey to white mainly massive to slightly laminated, very low to mainly low strength. Minor red brown iron staining in and around some defects. Defects : Generally rare. - Lamination partings - 10°-30° (1-2/m)	SW					Is(50)=0.30 MPa Is(50)=0.27 MPa Is(50)=0.14 MPa Is(50)=0.28 MPa	o x x o
15		100						Clay seam Coal seam	Is(50)=0.07 MPa Is(50)=0.05 MPa Is(50)=0.22 MPa Is(50)=0.09 MPa Is(50)=0.15 MPa	x o x o x
16	-5.93	100	Borehole terminated at 15.75m						Is(50)=0.14 MPa	o
17										
18										
19										
20										

REMARKS

LOGGED BY
A. DISSANAYAKE (DISS)

Project: **Gateway Upgrade Project - Gateway Bridge**

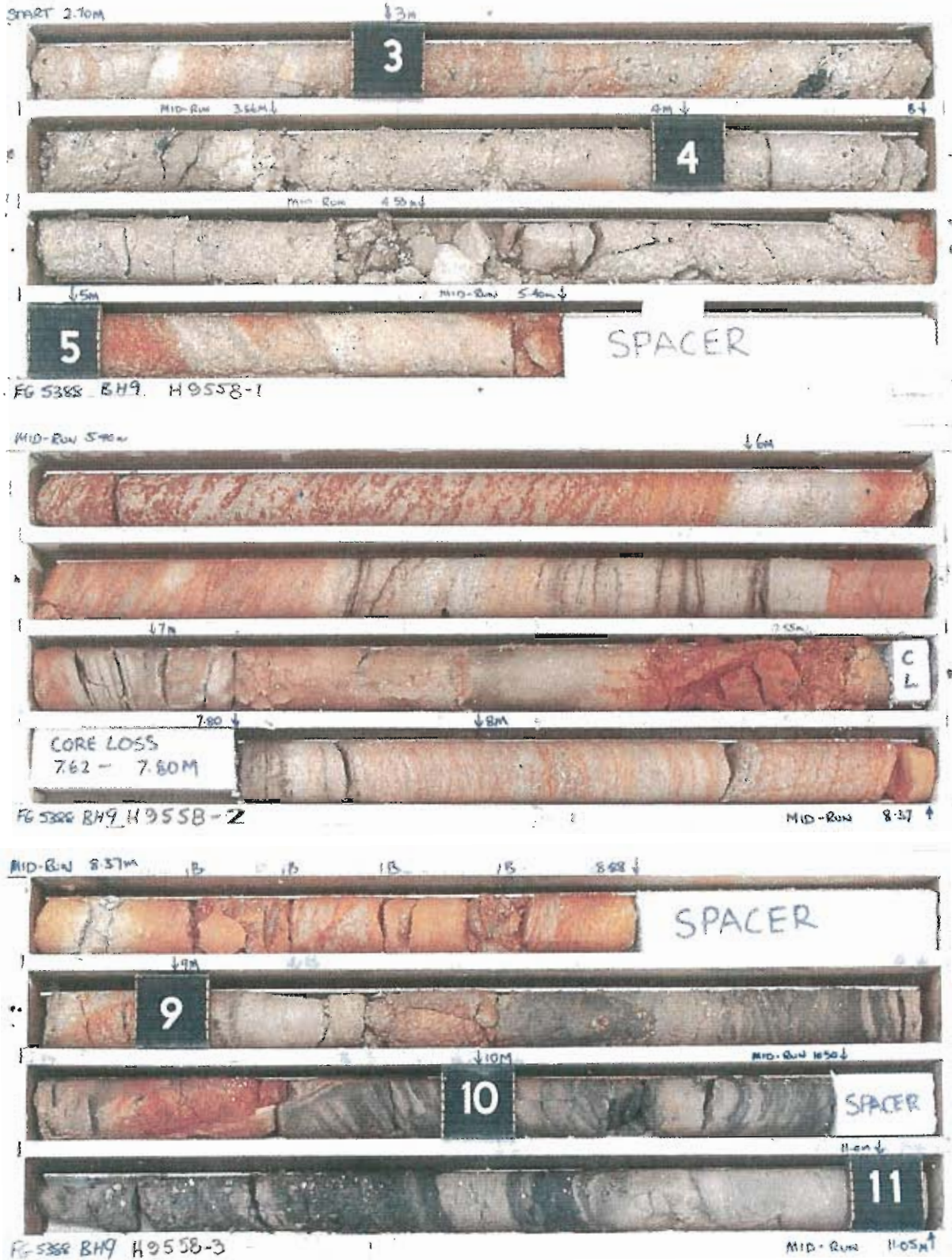
Borehole No: **BH 9**

Start Depth: 2.70m

Finish Depth: 15.75m

Project No: FG 5388

H No: 9558



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