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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH123  
SHEET 1 of 2  
REFERENCE No H10915

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra  
LOCATION Darra Bac Thien Supermarket/ Darra Station Rd COORDINATES 495430.2 E; 6950008.9 N  
PROJECT No FG5779 SURFACE R.L. 40.66m PLUNGE -90° DATE STARTED 22/11/10 GRID DATUM GDA94  
JOB No 140/U16/902 HEIGHT DATUM AHD BEARING  DATE COMPLETED 22/11/10 DRILLER Soil Surveys

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	40.66					ASPHALT / CONCRETE					Non destructive digging up to 1.5m (Based on Drillers logs only)	
1	39.16				A	<b>Silty CLAY (Residual)</b> Mottled red-grey, moist, friable, mainly stiff.						U50
2					B	High plasticity; red iron staining throughout.					3,4,6 N=10	SPT
3					C						5,5,5 N=10	SPT
4					D						4,6,7 N=13	SPT
5					E		(CH)				5,7,8 N=15	SPT
6					F						8,9,11 N=20	SPT
7					G	ferrigenous iron concretions nodules in parts.					10,12,15 N=27	SPT
8	32.86				H	<b>CLAYSTONE</b> <b>FINE GRAINED SEDIMENTARY ROCK</b> <b>MAINLY COMPOSED OF CLAY SIZED PARTICLES</b> XW: Generally exhibits engineering properties of grey to orange-yellow, moist, hard silty clay.					11,13,20 N=33	SPT
9					I	Mainly high plasticity; iron staining in parts.	XW				9,14,20 N=34	SPT
10						(See over)						

REMARKS \_\_\_\_\_

LOGGED BY  
CM / SG

# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH123  
SHEET 2 of 2  
REFERENCE No H10915

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra  
LOCATION Darra Bac Thien Supermarket/ Darra Station Rd COORDINATES 495430.2 E; 6950008.9 N  
PROJECT No FG5779 SURFACE R.L. 40.66m PLUNGE -90° DATE STARTED 22/11/10 GRID DATUM GDA94  
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	30.66				J	CLAYSTONE XW:(Cont'd)					9,15,20 N=35	SPT
11					K						11,17,22 N=39	SPT
12					L	Becoming sandy clay with depth.	XW				10,15,24 N=39	SPT
13					M						18,21,26 N=47	SPT
14	26.66				N	Becoming yellow-orange at 14.0m depth; highly iron stained.					20,30/0mm N>50	SPT
15			(0)			SANDSTONE MEDIUM GRAINED, MASSIVE, POORLY CEMENTED SEDIMENTARY ROCK XW: Generally exhibits engineering properties of yellow-brown, iron stained, massive, extremely to very low strength.	XW					
16	24.66			23	O	CLAYSTONE HW: Grey to Orange-yellow, moist, hard silty clay. High Plasticity.				Iron Staining	18,20,31 N>50	SPT
17					P	Contains interbed of sandstone below 18.0m	HW				14,22,30 N>50	SPT
18	22.16		(0)	100		Becoming very low strength sandstone below @ 18m depth.					DD = 1.77t/m <sup>3</sup> ; WD = 2.05t/m <sup>3</sup> ; MC = 15.4%; UCS=745KPa Sandstone band. Is(50) = 0.06MPa Is(50) = 0.09MPa	x o
19						Borehole terminated at 18.5m						
20												

REMARKS \_\_\_\_\_

LOGGED BY  
CM / SG

Project: **Ipswich Motorway Upgrade - Rocklea to Darra**  
Borehole No: **BH 123**  
Start Depth: 14.30m  
Finish Depth: 18.50m  
Project No: FG5779  
H No: H10915

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SCALE 1:5

F:GEOT043/1