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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH123</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H10915</u>

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
								EH	VH	H	M	L	VL	EL	20	60			
0	40.66					ASPHALT / CONCRETE											Non destructive digging up to 1.5m (Based on Drillers logs only)		
1	39.16																		
1.5					A	Silty CLAY (Residual) 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	ferruginous iron concretions nodules in parts.											10,12,15 N=27	SPT	
8	32.86				H	CLAYSTONE FINE GRAINED SEDIMENTARY ROCK MAINLY COMPOSED OF CLAY SIZED PARTICLES 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 _____

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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

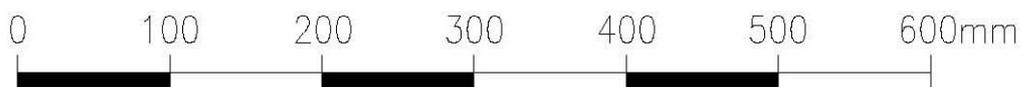
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	30.66				J	CLAYSTONE XW:(Cont'd)					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	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				20,30/0mm N>50	SPT
15			(0)									
16	24.66			23	O	CLAYSTONE HW: Grey to Orange-yellow, moist, hard silty clay. High Plasticity. Contains interbed of sandstone below 18.0m				Iron Staining	18,20,31 N>50	SPT
17					P		HW				14,22,30 N>50	SPT
18	22.16			100		Becoming very low strength sandstone below @ 18m depth.				Sandstone band.	DD = 1.77t/m ³ ; WD = 2.05t/m ³ ; MC = 15.4%; UCS=745KPa Is(50) = 0.06MPa Is(50) = 0.09MPa	x o
19						Borehole terminated at 18.5m						
20												

REMARKS _____

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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



SCALE 1:5

F:GEOT043/1