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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH114</u>
SHEET	<u>1</u> of <u>3</u>
REFERENCE No	<u>H10910</u>

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra  
 LOCATION Blunder Road exit COORDINATES 498214.2 E; 6950862.3 N  
 PROJECT No FG5779 SURFACE R.L. 4.25m PLUNGE -90° DATE STARTED 26/11/10 GRID DATUM GDA94  
 JOB No 140/U16/902 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 26/11/10 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	CASING OTHER WASH BORING	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	J	VL				
0	4.25					<b>ASPHALT / ROAD BASE/ GRAVELLY SAND</b> Gravel fraction sizing up to 40mm.  Becoming clayey below 1.0m depth.									Non destructive digging up to 1.5m (Based on Drillers logs only)		
1	2.75				A	<b>Sandy Silty CLAY (Residual)</b> Mottled grey-brown, moist, stiff to very stiff.  Medium to high plasticity.  Minor traces of fine grained sand; red iron staining.									su>110kPa p'c=200kPa	U100	
2					B										4,6,6 N=12	SPT	
3					C										5,7,10 N=17	SPT	
4					D		(CI-CH)								4,5,4 N=9	SPT	
5					E	Contains iron concretions in parts.  Becoming sandy below 6.7m depth									6,7,11 N=18	SPT	
6	-2.45				F										5,7,13 N=20	SPT	
7					G	<b>SANDSTONE</b> <b>FINE TO MEDIUM GRAINED, MASSIVE,</b> <b>POORLY CEMENTED SEDIMENTARY ROCK</b> <b>COMPOSED MAINLY OF SAND SIZED PARTICLES</b> <b>XW:</b> Generally exhibits engineering properties of greyish yellow, moist, very dense sand.									18,28,30/120mm N>50	SPT	
8					H	Sand fraction mainly fine grained.	XW								20,30,30/110mm N>50	SPT	
9					J	(See over)									19,27,30 N>50	SPT	
10																	

REMARKS \_\_\_\_\_

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DEPTH (m)	R.L. (m)	CASING OTHER WASH BORING	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	J				
10	-5.75					<b>SANDSTONE XW: (Cont'd)</b>											
11					K											21,27,30/100mm N>50	SPT
12					L	Becoming medium grained sand below 11.5m depth.	XW									22,30,30/85mm N>50	SPT
13	-8.25				M	<b>SILTSTONE FINE GRAINED SEDIMENTARY ROCK COMPOSED MAINLY OF SILT SIZED PARTICLES</b> XW: Generally exhibits engineering properties of mottled grey, brown, moist, hard silty clay / clayey silt.  Medium to high plasticity.	XW									10,14,19 N=33	SPT
14																	
15	-10.25				N	<b>MUDSTONE FINE GRAINED SEDIMENTARY ROCK COMPOSED MAINLY OF SILT SIZED PARTICLES</b> XW: Generally exhibits engineering properties of dark black, moist, very stiff to hard silty clay.  Mainly High plasticity; contains interbeds of siltstone in parts.										7,10,19 N=29	SPT
16					P											9,12,18 N=30	SPT
17							XW										
18					Q											7,16,80/130mm N>50	SPT
19					R											15,20,30/130mm N>50	SPT
20						(See over)											

REMARKS \_\_\_\_\_

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								EH	VH	H	M	J	VL				
20	-15.75					<b>MUDSTONE XW: (Cont'd)</b> Becoming high plasticity interbeds of silty clay below 20.5m depth.											
21					S											12,20,30/130mm N>50	SPT
22	-18.15				T	Contains interbed of fine grained sandstone below 22m depth.									Sandstone interbeds	17,30,30/100mm N>50	SPT
23						Borehole terminated at 22.4m											
24																	
25																	
26																	
27																	
28																	
29																	
30																	

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REMARKS \_\_\_\_\_  
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