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**Queensland
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**GEOTECHNICAL
BOREHOLE LOG**

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH228**

Sheet 1 of 2

REFERENCE No **H12162**

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra
 LOCATION Boundary Road Connection COORDINATES 498702.2 E; 6950798.0 N
 PROJECT No FG6202 SURFACE RL 4.45m PLUNGE 90° DATE STARTED 28/04/2015 GRID DATUM MGA94 Z56
 JOB No 201/416/003 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 28/04/2015 DRILLER North Coast

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
4.15					Sandy SILT (Topsoil) Brown - dark brown, moist, soft. Low plasticity, some grass roots.	(ML)					
3.65					Sandy CLAY (Fill) Dark brown black, moist, soft to firm. Low plasticity, some organic matter, minor sand.	(CL)					
1				A	Silty CLAY (Alluvium) Grey brown, moist, firm to stiff. High plasticity; trace sand.					2, 2, 3 N=5	SPT
2				B						LL=112% PI= 83% MC=38.4% LS= 23% <75µm= 96%	U100
3				C	Colour becoming grey brown red mottled.	CH				2, 3, 5 N=8	SPT
4				D	Colour change to grey brown.					2, 3, 4 N=7	SPT
5				E	Becoming medium to high plasticity. Trace sand.					2, 2, 5 N=7	SPT
6				F	Sandy CLAY (Alluvium) Grey brown - yellow brown, moist, very stiff. Medium plasticity, minor coarse sand.	(CI)				7, 10, 11 N=21	SPT
7				G	Becoming low plasticity. Sand content increases with depth.					5, 9, 13 N=22	SPT
8				H	Clayey SAND (Alluvium) Brown orange grey, moist, dense. Mainly fine grained, some clay pockets.	(SC)				11, 16, 33 N=49	SPT
9				J	Coarse sand layer (<100mm) Silty Sandy CLAY (Residual) Pale brown yellow orange, moist, very stiff. High plasticity, minor sand.	(CH)				6, 10, 11 N=21	SPT
-1.05											
-3.05											
-4.55											
-5.55											

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REMARKS: A standpipe is installed in this borehole.

LOGGED BY	REVIEWED BY
MS	SF



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REFERENCE No **H12162**

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra

LOCATION Boundary Road Connection COORDINATES 498702.2 E; 6950798.0 N

PROJECT No FG6202 SURFACE RL 4.45m PLUNGE 90° DATE STARTED 28/04/2015 GRID DATUM MGA94 Z56

JOB No 201/416/003 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 28/04/2015 DRILLER North Coast

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
												EH YH H M L VL EL
	-6.00			K	Silty Sandy CLAY (Residual) (Contd')		(CH)			5, 7, 14 N=21	SPT	
					Borehole completed at 10.45m							
11												
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS: A standpipe is installed in this borehole.	LOGGED BY	REVIEWED BY
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**STANDPIPE
INSTALLATION LOG**

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH228**

Sheet 1 of 2

PIEZOMETER No **BH228**

PROJECT	Ipswich Motorway Upgrade - Rocklea to Darra		
LOCATION	Boundary Road Connection		COORDINATES 498702.2 E; 6950798.0 N
PROJECT No	FG6202	SURFACE RL 4.45m	PLUNGE 90°
			DATE STARTED 28/04/2015
			GRID DATUM MGA94 Z56
JOB No	201/416/003	HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 28/04/2015
			DRILLER North Coast

DEPTH (m)	R.L. (m)	LITHOLOGY	MATERIAL DESCRIPTION	Standpipe Construction Details		
				Depth (m) /RL (AHD)	50mm PVC Class No. 18 Stick Up = 50.00m	Backfill Details
4.15			Sandy SILT (Topsoil) Brown - dark brown, moist, soft. Low plasticity, some grass roots.			
3.65			Sandy CLAY(Fill) Dark brown black, moist, soft to firm. Low plasticity, some organic matter, minor sand.			
1			Silty CLAY (Alluvium) Grey brown, moist, firm to stiff. High plasticity; trace sand.			Grout (Bentonite / Cement Mix)
2				2.00m / 2.45 AHD		Bentonite Seal
3			Colour becoming grey brown red mottled.	3.00m / 1.45 AHD		
				12/06/2015		
4			Colour change to grey brown.	4.00m / 0.45 AHD		Top of Slotted Pipe
5			Becoming medium to high plasticity. Trace sand.			
-1.05			Sandy CLAY(Alluvium) Grey brown - yellow brown, moist, very stiff. Medium plasticity, minor coarse sand.			Filter: Washed / Graded Sand
6			Becoming low plasticity. Sand content increases with depth.			
-3.05			Clayey SAND(Alluvium) Brown orange grey, moist, dense. Mainly fine grained, some clay pockets.			
7						
8			Coarse sand layer (<100mm)			
-4.55			Silty Sandy CLAY(Residual) Pale brown yellow orange, moist, very stiff. High plasticity, minor sand.			
9						
-5.55						

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JOB No 201/416/003 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 28/04/2015 DRILLER North Coast

DEPTH (m)	R.L. (m)	LITHOLOGY	MATERIAL DESCRIPTION	Standpipe Construction Details		
				Depth (m) /RL (AHD)	50mm PVC Class No. 18 Stick Up = 50.00m	Backfill Details
	-6.00		Silty Sandy CLAY(Residual) (Contd')	10.45m / -6.00 AHD		
			Borehole completed at 10.45m			
11						
12						
13						
14						
15						
16						
17						
18						
19						

REMARKS: A standpipe is installed in this borehole.	LOGGED BY	REVIEWED BY
	MS	SF