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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH230**

Sheet 1 of 2

REFERENCE No **H12164**

PROJECT	Ipswich Motorway Upgrade - Rocklea to Darra		
LOCATION	Boundary Road Connection	COORDINATES 498644.1 E; 6950595.2 N	
PROJECT No	FG6202	SURFACE RL 4.04m	PLUNGE 90°
			DATE STARTED 29/04/2015
			GRID DATUM MGA94 Z56
JOB No	201/416/003	HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 29/04/2015
			DRILLER North Coast

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CONE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
1	3.04				Sandy SILT (Top Soil) Grey brown, moist-dry, firm to stiff. Low plasticity, some tree & grass roots.	(ML)					
				A	Silty CLAY (Alluvium) Brown grey orange mottled, moist, stiff. Medium plasticity. 1.65m: Becoming Sandy Clay.	(CI)					4, 5, 5 N=10 SPT
2	1.89			B	Clayey SAND (Alluvium) Pale brown yellow grey, moist, medium dense.						6, 9, 5 N=14 SPT
3				C	Fine grained sand; some zones of Silty CLAY and Sandy CLAY. 3.0m: Becoming loose.					12/06/2015 3, 3, 6 N=9 LL=27% PI= 12% MC=17.8% LS= 6% <75µm= 32%	SPT
4				D	4.0m: Becoming medium dense						5, 9, 15 N=24 SPT
5				E	5.0m: Becoming medium dense to dense.	SC					16, 22, 17 N=39 SPT
6				F	5.5m: Colour changed to yellow orange. Fine to medium sand. 6.0m: Becoming Sand with Clay						7, 9, 10 N=19 SPT
7				G							6, 15, 18 N=33 SPT
8	-4.11			H	8.0m: Coarse Sand. Silty CLAY (Residual) Grey brown, moist, stiff to mainly very stiff. High plasticity,						10, 4, 7 N=11 SPT
9				J		(CH)					4, 9, 15 N=24 SPT

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REMARKS: A standpipe is installed in this borehole.

LOGGED BY	REVIEWED BY
MS	SF



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BOREHOLE No **BH230**

Sheet 2 of 2

REFERENCE No **H12164**

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra

LOCATION Boundary Road Connection COORDINATES 498644.1 E; 6950595.2 N

PROJECT No FG6202 SURFACE RL 4.04m PLUNGE 90° DATE STARTED 29/04/2015 GRID DATUM MGA94 Z56

JOB No 201/416/003 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 29/04/2015 DRILLER North Coast

DEPTH (m)	R.L. (m)	FAUGER 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 J VI EL
	-6.41			K	Silty CLAY (Residual) (Contd')	(CH)				7, 11, 6 N=17	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
	MS	SF



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STANDPIPE INSTALLATION LOG

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

BOREHOLE No **BH230**

Sheet 1 of 2

PIEZOMETER No **BH230**

PROJECT	Ipswich Motorway Upgrade - Rocklea to Darra				
LOCATION	Boundary Road Connection			COORDINATES 498644.1 E; 6950595.2 N	
PROJECT No	FG6202	SURFACE RL	4.04m	PLUNGE	90°
				DATE STARTED	29/04/2015
				GRID DATUM	MGA94 Z56
JOB No	201/416/003	HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	29/04/2015
				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 = 0.50m	Backfill Details
0			Sandy SILT (Top Soil) Grey brown, moist-dry, firm to stiff. Low plasticity, some tree & grass roots.			
1	3.04		Silty CLAY (Alluvium) Brown grey orange mottled, moist, stiff. Medium plasticity.			Grout (Bentonite / Cement Mix)
2	1.89		1.65m: Becoming Sandy Clay.	2.00m / 2.04 AHD		
3			Clayey SAND (Alluvium) Pale brown yellow grey, moist, medium dense. Fine grained sand; some zones of Silty CLAY and Sandy CLAY.	12/06/2015 3.00m / 1.04 AHD		Bentonite Seal
4			3.0m: Becoming loose.			
5			4.0m: Becoming medium dense	4.00m / 0.04 AHD		Top of Slotted Pipe
6			5.0m: Becoming medium dense to dense.			
7			5.5m: Colour changed to yellow orange. Fine to medium sand.			
8			6.0m: Becoming Sand with Clay			Filter: Washed / Graded Sand
9			8.0m: Coarse Sand.			
10	-4.11		Silty CLAY (Residual) Grey brown, moist, stiff to mainly very stiff. High plasticity,			
11						
12	-5.96					

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**STANDPIPE
INSTALLATION LOG**

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PIEZOMETER No **BH230**

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra

LOCATION Boundary Road Connection COORDINATES 498644.1 E; 6950595.2 N

PROJECT No FG6202 SURFACE RL 4.04m PLUNGE 90° DATE STARTED 29/04/2015 GRID DATUM MGA94 Z56

JOB No 201/416/003 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 29/04/2015 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 = 0.50m	Backfill Details
	-6.41	<input checked="" type="checkbox"/> Silty CLAY(Residual) <input checked="" type="checkbox"/> (Contd')		10.45m / -6.41 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