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GEOTECHNICAL BOREHOLE LOG

FINAL 26/06/2015

BOREHOLE No BH222

Sheet 1 of 3

		%]	GOV	/er	nment	1Y2		GEOTECHNICAL TERM REFER FORM F:GEOT			REFERENCE No	H1	.2159	
PROJE	:CT	lpsv	wich Moto	orway	Upgrade - Rocklea to Darra									
LOCAT	ΓΙΟΝ	App	Approach Embankment / Oxley Creek Overflow Bridge									COORDINATES 498798.9 E; 6950982.3 N		
PROJE	CT No	FG6	5202		SURFACE RL 3.13m		PLUNGE 90°		DATE STARTED 22/04/2015		GRID DATUM MGA94 Z56		6	
JOB N	0	201	1/416/003	;	HEIGHT DATUM AHD		RING °		DATE COMPLETED 23/04/2015		DRILLER North Coast			
DEPTH (m)	R.L.	JUGER ASING VASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS	
1 2 2	1.53	X D K	3		Silty CLAY (Alluvium) Dark brown, moist, firm to stiff. High plasticity; some organic matter; trace sand. Becoming very stiff. Clayey SAND (Alluvium) Grey, wet, loose. Fine to medium grained sand.	X	СН				MC=26.6% p'c=280kPa <75 OCR=12.2 Su(PP	5µm= 98% Dedometer)=250 kPa 2/06/2015	U100	
— 3 - - - - - - -				А								1, 2, 4 N=6	SPT	
- 4 				С			(SC)					4, 4, 5 N=9	SPT	
7 - 7 - 7				D	Becoming medium dense.							6, 6, 7 N=13	SPT	
8 9	-6.07			Е	Gravelly SAND (Alluvium) Grey, moist, medium dense to very dense. Fine sand & angular gravel.		(SP)					6, 5, 5 N=10	SPT	
Continued on next sheet														
R	REMARKS: Tod - Darra formation. A standpipe is installed in this borehole.										LOGGED BY REVIEWED B			
	A standpipe is installed in this porenoie.										MS		SF	

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GEOTECHNICAL BOREHOLE LOG

FINAL 26/06/2015

BH222

Sheet 2 of 3

BOREHOLE No

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 H12159 REFERENCE No Ipswich Motorway Upgrade - Rocklea to Darra PROJECT Approach Embankment / Oxley Creek Overflow Bridge COORDINATES 498798.9 E; 6950982.3 N LOCATION DATE STARTED 22/04/2015 GRID DATUM MGA94 Z56 FG6202 SURFACE RL 3.13m PLUNGE 90° PROJECT No 201/416/003 BEARING ° DATE COMPLETED 23/04/2015 DRILLER North Coast HEIGHT DATUM AHD JOB No ADDITIONAL DATA AND TEST RESULTS USCS WEATHERING INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES TESTS SAMPLE DEPTH (RΙ MATERIAL DESCRIPTION (m) CORE REC % ᇁᆂᆂᆋᅴᅿᆿᆸᇛᇬᄓᄫᇂᇂᇕ Gravelly SAND (Alluvium) 13/80mm (Contd') (SP) -7.67 Silty CLAY (Residual) Grey, moist, very stiff. High plasticity. 10, 12, 15 N=27 SPT G (CH) 4, 6, 12 13 N=18 SPT Н 8, 13, 10/70mm Becoming hard. hb SPT -11.87 15 (0) SILTSTONE (Tod) XW: Recovered as: Grey brown, moist, hard Silty Clay. Trace Sand. High plasticity. Fine to UCS=0 20 MPa (15.75m) medium grained sand. 16 100 (0) XW17 100 18 Becomes orange brown, Silty Clay with Sand. 18.33m-18.55m: HW Sandstone HW Extremely low to very low strength Becomes orange brown, Silty UCS=0.28 MPa (18.90m) 19 XW 100 (0) Continued on next sheet **REMARKS:** Tod - Darra formation. **LOGGED BY REVIEWED BY** A standpipe is installed in this borehole. MS SF TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

Queensland Government

GEOTECHNICAL

FINAL 26/06/2015

BH222

BOREHOLE No

BOREHOLE LOG Sheet 3 of 3 FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 H12159 REFERENCE No Ipswich Motorway Upgrade - Rocklea to Darra PROJECT Approach Embankment / Oxley Creek Overflow Bridge COORDINATES 498798.9 E; 6950982.3 N LOCATION GRID DATUM MGA94 Z56 FG6202 SURFACE RL 3.13m PLUNGE 90° DATE STARTED 22/04/2015 PROJECT No DRILLER North Coast 201/416/003 BEARING ° DATE COMPLETED 23/04/2015 HEIGHT DATUM AHD JOB No ADDITIONAL DATA AND TEST RESULTS USCS WEATHERING INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES TESTS DEPTH (m) SAMPLE RΙ MATERIAL DESCRIPTION CORE REC % ᇁᆂᆂᆂᅿᅿᅿᆿᇛᆼᄓᇗᇂᇂᇦ SILTSTONE (Tod) XW: Cont'd XW 100 -17.87 Borehole completed at 21.00m 22 23 25 26 27 **REMARKS:** Tod - Darra formation. **LOGGED BY REVIEWED BY** A standpipe is installed in this borehole. MS SF TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI



STANDPIPE INSTALLATION LOG

BOREHOLE No BH222

Sheet 1 of 3

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 **BH222** PIEZOMETER No Ipswich Motorway Upgrade - Rocklea to Darra PROJECT Approach Embankment / Oxley Creek Overflow Bridge COORDINATES 498798.9 E; 6950982.3 N LOCATION PLUNGE 90° grid datum MGA94 Z56 FG6202 SURFACE RL 3.13m DATE STARTED 22/04/2015 PROJECT No DRILLER North Coast 201/416/003 BEARING $^{\circ}$ DATE COMPLETED 23/04/2015 HEIGHT DATUM AHD JOB No **Standpipe Construction Details** Ξ LITHOLOGY R.L. DEPTH (MATERIAL DESCRIPTION (m) Depth (m) /RL 50mm PVC Class No. 18 **Backfill Details** (AHD) Stick Up = 0.50m Silty CLAY(Alluvium) Dark brown, moist, firm to stiff. High plasticity; some organic matter; trace sand. Grout (Bentonite / Cement Mix) 1.53 Becoming very stiff. Clayey SAND(Alluvium) 2.00m / 1.13 AHD Grey, wet, loose. Fine to medium grained sand. 12/06/2015 Bentonite Seal 3.00m / 0.13 AHD 4.00m / -0.87 AHD Tope of Slotted Pipe Becoming medium dense. Becoming loose to medium dense. -6.07 Gravelly SAND (Alluvium) Grey, moist, medium dense to very dense. Fine sand & angular gravel. -6.87 10.00m / -6.87 AHD Continued on next sheet **REMARKS:** Tod - Darra formation. **LOGGED BY REVIEWED BY** A standpipe is installed in this borehole. MS SF TMR STANDPIPE INSTALLATION LOG - CREATED WITH HOLEBASE SI



STANDPIPE INSTALLATION LOG

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

BOREHOLE No BH222

Sheet 2 of 3

PIEZOMETER No BH222

Ipswich Motorway Upgrade - Rocklea to Darra PROJECT Approach Embankment / Oxley Creek Overflow Bridge COORDINATES 498798.9 E; 6950982.3 N LOCATION PLUNGE 90° grid datum MGA94 Z56 FG6202 SURFACE RL 3.13m DATE STARTED 22/04/2015 PROJECT No DRILLER North Coast 201/416/003 HEIGHT DATUM AHD BEARING $^{\circ}$ DATE COMPLETED 23/04/2015 JOB No **Standpipe Construction Details** DEPTH (m) LITHOLOGY R.L. MATERIAL DESCRIPTION (m) Depth (m) /RL 50mm PVC Class No. 18 **Backfill Details** (AHD) Stick Up = 0.50m Gravelly SAND(Alluvium) (Contd')

-7.67 Silty CLAY(Residual) 11 Grey, moist, very stiff. High plasticity. 12 13 Becoming hard. -11.87 Filter: Washed / Graded Sand SILTSTONE (Tod) Recovered as: Grey brown, moist, hard Silty Clay. Trace Sand. High plasticity. Fine to medium grained sand. 16 17 18 Becomes orange brown, Silty Clay with Sand. Becomes orange brown, Silty Clay with Sand. 19

Continued on next sheet

REMARKS: Tod - Darra formation.

A standpipe is installed in this borehole.

MS REVIEWED BY

TMR STANDPIPE INSTALLATION LOG - CREATED WITH HOLEBASE SI



STANDPIPE INSTALLATION LOG

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

BOREHOLE No BH222

Sheet 3 of 3

PIEZOMETER No BH222

Ipswich Motorway Upgrade - Rocklea to Darra PROJECT Approach Embankment / Oxley Creek Overflow Bridge COORDINATES 498798.9 E; 6950982.3 N LOCATION PLUNGE 90° DATE STARTED 22/04/2015 FG6202 SURFACE RL 3.13m GRID DATUM MGA94 Z56 PROJECT No DRILLER North Coast 201/416/003 HEIGHT DATUM AHD BEARING $^{\circ}$ DATE COMPLETED 23/04/2015 JOB No **Standpipe Construction Details** DEPTH (m) LITHOLOGY R.L. MATERIAL DESCRIPTION (m) Depth (m) /RL 50mm PVC Class No. 18 **Backfill Details** (AHD) Stick Up = 0.50m SILTSTONE (Tod) Cont'd -17.87 21.00m / -17.87 AHD Borehole completed at 21.00m 22 23 25 26 27 28 29 **REMARKS:** Tod - Darra formation. **LOGGED BY REVIEWED BY** A standpipe is installed in this borehole. MS SF TMR STANDPIPE INSTALLATION LOG - CREATED WITH HOLEBASE SI





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