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# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 FINAL 25/06/2015

BH236

Sheet 1 of 3

BOREHOLE No

REFERENCE No

H12170

PROJE	ст	I	psw	ich Moto	rway	Upgrade - Rocklea to Darra								
LOCAT	ION	C	Dxle	ey Creek O	verflo	ow Bridge					C	COORDINATES 498765.1	E; 695103	37.9 N
PROJE	CT No	FG6202 SURFACE RL 2.36m PLUNGE 90° DATE START				RTED 29/04/2015	grid datum N	/IGA94 Z5	6					
JOB No	)	2	201/416/003 HEIGHT DATUM AHD			BEAR			DATE COMPLE	TED 30/04/2015	DRILLER N	Iorth Coa	st	
DEPTH (m)	R.L. (m)	AUGER CASING	WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH 표근구구우구수교 입		,	ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
- - - - - - - - - - - - - - - - - - -	0.86					Silty CLAY (Fill) Grey brown mottled, moist, firm to stiff. Mainly medium to high plasticity. Becoming very stiff. Silty CLAY (Alluvium) Dark grey, moist, very soft. High plasticity, some organic matter.		(CI)			inferred GWT	_		
- - - - - - - - - - - - - - - -					A			(CH)		- - - - - - - -		F	ıw, hw, hw N<1	SPT
- 4 - 	-1.64				В	Sandy CLAY (Alluvium) Grey, moist, firm. to Stiff Mainly medium to high plasticity, fine grained sand.		(CI)		· 			1, 3, 3 N=6	
	-3.14					Clayey SAND (Alluvium) Grey, moist, medium dense. Fine grained sand.				- - - - - - - - -			12, 16, 13 N=29	SPT
- 7 - 7 					D	Clay content reducing.		(SC)		· · · · · · · · · · · · · · · · · · ·			8, 12, 16 N=28	SPT
- - - - - - - - - - - - - - - - -	-6.14	-			_	Becoming coarse grained sandy GRAVEL (Alluvium) Grey brown, moist, medium dense. Medium to coarse gravel, coarse grained sand. Silty CLAY (Residual)	1.42.2	(GP)		· - - - - - - - -			12, 8, 11 N=19	SPT
-	-7.64					Description - Next page	×_ 	(CI)						-
RE		KS:		Tod - Da	arra †	Continued on next sheet	~-				·	LOGGED BY	REVIE	WED BY
												MS		SF

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

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							_		FINAL 2	5/06/2015
	AG				GE	OTECHNICAL		BOREHOLE No	В	H236
	Queensland     BOREHOLE LOG     Sheet 2 of 3									
	Government For geotechnical terms and SYMBOLS REFER FORM F:GEOT 017/8-2014					REFERENCE No	H:	12170		
PROJECT	Ipswich Motor	way l	Upgrade - Rocklea to Darra							
LOCATION	Oxley Creek O	verflo	ow Bridge					COORDINATES 498765.1	E; 69510	37.9 N
PROJECT No     FG6202     SURFACE RL 2.36m     PLUNGE 90°     DATE STARTED 29/04/2015     GRID DATUM     MGA94 Z56										6
JOB No	201/416/003		HEIGHT DATUM AHD	BEAR		DATE COMPL	ETED 30/04/2015	DRILLER	Iorth Coa	st
(m) R.L. (m) DEPTH	RQD ()% ()% SMUTHING CORE REC% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT DEFECT STRENGTH SPACING 표독규독고, 국교 입유수, 우독 독종		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
			Silty CLAY (Residual)	×		-			3, 6, 10 N=16	SPT
-			(Contd') Grey brown mottled, moist, very	/ <u>×</u>		+				
			stiff. Low to mainly medium plasticity	/×_		+				-
- - 11				×_		+				-
-				×_		+				-
-		G		×_		÷			5, 9, 13 N=22	SPT
- 12				×		<u> </u>				
				×	(CI)	<u> </u>				-
				×_		$\frac{1}{\pm}$				-
- - - 13				×_		+			6, 10, 16	-
- 13		н		×_					N=26	SPT
-				×		+				-
				×		<u>+</u>				-
14				×						-
12.14				×_		+		8	17/25mm	
-			SILTSTONE (Tod) XW: Recovered as grey brown,	× × × × ×		+		0,	hb	SPT
- 15			moist, hard Silty Clay. High plasticity, fissured in parts.	×××××××						-
-				* * * * *		±				-
-				****		+				-
- - - 16				**		<u> </u>		10,	16/80mm	
-		J		× × × × × ×		+			hb	SPT
-				× × × × × ×		+				-
				× × × × × ×	xw	↓				-
- 17				× × × × × × × × ×						:
		К		× × × ×					30/110mm	SPT
				× × × × × ×					hb	-
- - 18				XXX						
				× × × × × ×						-
				× × × × × ×						
- - 19	(0)	-		~ × × ×	HW		18.90m-19.00m: Me strength, HW coreste	dium to high one.	hb	SPT
				* * * *						-
				× × × × × × × ×	xw				=0.36 MPa	 (19.70m) <sup>-</sup>
17.64				* * *						
DENIE			Continued on next sheet							
	KS: Tod - Da	rra f	ormation.					LOGGED BY	REVIE	WED BY
				cre*- ·	NUC: -			MS		SF
			TMR	GEOTECH	HNICAL BO	DREHOLE LOG - CREATED WITH HOLEBASE SI				

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											_		FINAL 2	5/06/2015
4	.3@	ic	~					GE	OTECHN	IICAL		BOREHOLE No	В	H236
2			Que	er	Island			BO	REHOLE	LOG		Sheet	3 of 3	
1			GOV	er	nment		SYI		GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	H	12170
PROJECT Ipswich Motorway Upgrade - Rocklea to Darra														
LOCATIC	DN	Oxley	· Creek C	verflo	ow Bridge							COORDINATES 498765.1	E; 69510	37.9 N
PROJECT No     FG6202     SURFACE RL     2.36m     PLUNGE     90°     DATE STARTED     29/04/2015     GRID DATUM     MGA94 Z56										6				
JOB NO 201/416/003 HEIGHT DATUM AHD BEARING DATE COMPLETED 30/04/2015 DRILLER North Coast									st					
DEPTH (m)	R.L. (m)	CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DE	ESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH 표구구구주구경급	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
21	23.84	C38	100 (0) 100 (0) 100 (0) 100 (0) 100 (0) 100 (10) 100 (10)		SILTSTONE (Tod) XW: (Contd') Recovered as gre hard Silty Clay. Hi fissured in parts. SILTSTONE (Tod) HW: Grey to dark grained, thinly lan extremely low to LP; 0°-5° (2/m) F Grading to HW S depth. Grey to dark grained, thinly lan extremely low sto	s grey, fine minated, low strength. 2//Sm, TI, Cn Siltstone with ark grey, fine minated,	****	xw	± <u>i</u> ,, <u>,</u> , <u>,</u> , <u>,</u> , <u>,</u> , <u>,</u> , , , , , , , , ,		20.35m-21.25m: Re Sandy Clay. Fine gra 23.25m-24.20m: Re Sandy Clay. Fine gra 25.70m-26.20m: Re Sandy Clay. Fine gra	UCS: covered as ined sand.	=0.80 MPa	(22.65m)
28 28 28 29 29 29			<u>100</u> (100)		Defects: LP at 0-5° (2/m) Cn.	: PI, Sm, TI,	***************************************			C W M		ls(50): ls(50): ls(50): ls(50):	=0.14 MPa =0.15 MPa =0.09 MPa =0.10 MPa =0.12 MPa	A (27.99m) 
-  -:	27.64		100		Borehole comple	eted at 30.00m	XX XX VV					IS(50)=	=0.14 MPa	A (29.74m)_
REI	MARK	S: T	od - Da	arra	formation.							LOGGED BY	REVIE	EWED BY
												MS		SF
	TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI													

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### CORE PHOTO LOG F: GEOT043/3 DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section



Project Name	Ipswich Motorway Upgrade – Rock	lea to Darra	
Project No.	FG6202	Date Completed	30/04/2015
Borehole No.	BH236	Reference Number	H12170
Location	36888.6 E; 151907.4 N	Start Depth (m)	18.9
Submitted By	DP	Finish Depth (m)	30.0
Remarks	-		
20.4- 19.65 19.67 18.4	B C C C C C C C C C C C C C C C C C C C	E CENTRAL CONTRAL CONT	
21.9		EU.	21.9
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13- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	BH236	See	
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24.9	CORE LOSE		
JRE LOSE	CO SHIZE STORE STO	7.7.2	
17.15 Et	States and a state of the state	C. C	- 02
0 100	200 300 400	500 600	700
	SCALE (mm	)	

Page 1 of 2

### CORE PHOTO LOG F: GEOT043/3 DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section



Project Name Ipswich Motorway Upgrade – Rocklea to Darra										
Project No.	FG6202	<u>rg.uut 1001100</u>	Date Completed	30/04/2015						
Borehole No.	BH236		Reference Number	H12170						
Location	36888.6 E; 151907.4	N	Start Depth (m)	18.9						
Submitted By	DP		Finish Depth (m)	30.0						
Remarks	-									
28		A ANTA COLOR		and the state						
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53										
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	F66202									
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	END	BH 236	@ 30.0 b.g.l.	Constant In						
0 100	200 30	00 400	500 600	700						
	200 00			,						
SCALE (mm)										
SCALE (mm)										

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