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QLD_DMR_LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG FG5779 IPSWICH MWY_ROCKLEA TO DARRA.GPJ <<DrawingFile>> Datgel CPT Tool gliNt Add-in 14/02/2011 17:32

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH101
SHEET	_1_ of _2_
REFERENCE No	H10868

PROJECT	<u>Ipswich Motorwa</u>	ay Upgrade - Rocklea to Darra						
LOCATION	Granard Road o	ff ramp		COORDINATES 500946.0 E; 6952255.4 N				
PROJECT N	o_FG5779	SURFACE R.L. <u>4.65 m</u> PLUNGE <u>-90 °</u>	9/10/10 GRID DATUM <u>GDA94</u>					
JOB No		_ HEIGHT DATUM _AHD BEARING						
R.L. (m)	CORE DRILLING WASH BORING	MATERIAL DESCRIPTION	MEATH CONTROL TO THE PRINCE OF	ORAPHIC LOG AND AND SAMPLES SA				
- - - - - - - - - - - - - - - - - - -		Gravelly SAND (Possible FILL) Gravel fraction sizing up to 60mm.	(SP)	Non-destructive digging up to 1.5m depth. Based on Drillers logs only				
3.15	A	Silty CLAY(ALLUVIUM) Grey to brown, orange iron staining, moist, firm to stiff, high plasticity. Minor traces of quartzitic gravel and black		2,2,3 N=5				
- - - - - - - - - - - - - - - - - - -	В	carbonaceous material below 3.5m depth.	(СН)	▼ 28/1/2011 ▼ 22/12/2010 ▼ 11/2/2011				
	С			4,5,7 N=12 SPT =				
-0.36		BASALT FINE GRAINED INTRUSIVE TO BASIC EXTRUSIVE IGNEOUS ROCK. HW:Generally exhibits engineering properties of grey brown to black, moist, very dense clayey gravel.		N=11 SPT				
- - - - - - - - - - -	F	Gravel fraction subangular high strength basaltic fragments sizing >20mm.	HW +	30/150mm,30/95mm N>50 SPT =				
-3.36	(28)	MW: Grey brown, flow banded, fine grained, highly fractured and altered, mainly low to high strength.		Is(50) = 1.52MPa x - Is(50) = 1.65MPa o				
	(10)	Defect: -Bedding partings@5-10° -Joint@60-70° Defects are very close to close spaced, curved, irregular, rough, open with wall alteration and infill with clay or iron stained.	MW Fig. 1	Occasional contains medium strength band in parts; iron staning throughout. Highly fractured and altered up to 14m depth.				
- 10	100	HW: Dark grey brown to black, fine grained, very low strength. (See over)	HW	Clayey sand and Gravel (XW)				
REMARKS Observation well installed, infiltration zone from 6.0m to 16.58m. LOGGED BY BW / SG								



ENGINEERING BOREHOLE LOG

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

BOREHOLE No ___BH101__

SHEET __2_ of __2_

REFERENCE No __H10868__

PRO					y Upgrade - Rocklea to Darra							
					<u>framp</u>	— —		TARTED			S 500946.0 E; 6952255	<u>.4 N</u>
JOB					HEIGHT DATUM _AHD _ BEARING						DRILLER R&D Drilling	— — — – Ptv I td
	R.L. (m)		ROD				INTACT	DEFECT			DDITIONAL DATA	
DEPTH (m)		G BORING DRILLING			MATERIAL	ERIN	STRENGTH	(mm)	GRAPHIC LOG		AND	S
EP.				SAMPLE	DESCRIPTION		▎ ⋿⋶┰⋲∊⋞⋳	00000	RAPH	-	TEST RESULTS	SAMPLES
10	-5.36	CASIN OTHE CORE	REC %	/S	HW. (CONTID)	USC		11111	5			/S ==
	-5.86		100					Resemble and grave	s a very dense clayey sand l. ·			
- - - - 11			(16)		MW: Grey brown, fine to medium grained, highly fractured throughout, low to medium strength.							- -
			100		Contains high strength cobble size rock fragments up to 100mm in the upper surface; iron staining in parts.						riron stained. 5° clay infill	=
-		H	(0)		Defect:					BZ		:
- 12 - -			(0)		- Bedding partings@ 5-10° -Joint@15° -Joint@45° -Joint@70°	MW						-
F			100		Defects are very close to close spaced, planar							-
DARRAGEJ «Chawingrile» - Daigel CPT Tool gNN Add-in 14/02/2011 17/32 1			(8)		to undulating, rough, open with wall alteration and infill with clay or iron stained.					□─ Clay sean Vertical fra clay infill.	ns acture app. 300mm long with	-
1000 gllxt Add-lr	-8.96		100		SW: Pale grey, fine grained, bedded, mainly very high strength.					Vertical fra	acture app 100mm long with ained.	-
Datgel CPI			(80)		Contains vesicles filled with calcite up to 4mm thin; some secondary minerals.					— Amygdalo	idal structured basalt. Is(50) = 6.86MPa Is(50) = 6.54MPa	x -
awingFile>>					Defects: -Bedding partings @5-10° -Joint @ 15-30°	sw		T			ins dipping @45°	-
20 - 15 20 - 15 20 - 15			100		Defects are medium to wide spaced, planar to undulating, rough , close and open with wall					infill Calcite ve		0]
ARK -			(83)		alteration and infill with clay or calcite.						$DD = 2.74t/m^3$; MC = 1.4%; UCS=29.5MPa	-
	-11.31						:				Is(50) = 5.29MPa Is(50) = 8.48MPa	x -
OLICITE LOG A ENGINEERING BOXEHOLE LOG FIGS/1/9 INSWICT MWAY FOOKERS TO THE LOCATE AND THE LOCAT			400		AGGLOMERATE MW: Dark grey brown, poorly sorted fine to coarse grained, mainly low strength.	MW					13(30) = 0.40IVII a	-
ž –	-11.94		100		Occasional contains medium strength band up					— Piezomete	er at 16.58m depth.	-
Z -					to 100mm long in parts; red iron staning throughout.		-					-
5 - 17 6 -					Borehole terminated at 16.58m	_						-
2-								‡::::::				:
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18								+				-
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R	REMARKS Observation well installed, infiltration zone from 6.0m to 16.58m. LOGGED BY BW / SG											

Project: **Ipswich Motorway Upgrade - Rocklea to Darra**

Borehole No: BH 101
Start Depth: 8.00m
Finish Depth: 16.58m
Project No: FG5779
H No: H10868





