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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No BH17
SHEET 1 of 3
REFERENCE No H10446

PROJECT Gateway Upgrade North (GUN)
LOCATION At Survey Marker on Nudgee Rd Off ramp COORDINATES 509580.8 E; 6972263.4 N
PROJECT No FP5249 SURFACE R.L. 8.95m PLUNGE -90° DATE STARTED 16/10/08 GRID DATUM MGA94 Zone 56J
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 17/10/08 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	IM	JL	VL				
0	8.95					GRAVELLY SANDY CLAY (FILL?) Grey to mottled red, moist, stiff. Low plasticity; gravel fraction consists of iron concretions <5mm and rounded quartzitic particles >10mm; sand fraction consists of mainly coarse quartzitic particles.	(CL)							No gravels present (Drilling records only)	2,4,5 N=9	SPT
2	6.95				B	SILTY SAND (FILL?) Grey to mottled orange red, slightly dry to mainly moist, medium dense becoming very dense with depth. Fine to coarse grained mainly quartzitic sand fraction; occasional rounded quartzitic gravels (<10mm).	(SM)								9,13,14 N=27	SPT
4	4.78				C	Very dense highly ferrogenised and cemented zone at 4.1m. RESIDUAL SILTY CLAY Pale grey to orange, moist, firm to stiff becoming very stiff with depth. Low to medium plasticity occasional relic ironstained joint structures.	(CL-CI)								10,20/20 N=>50	SPT
6					D										3,3,3 N=6	SPT
7					E										3,5,7 N=12	SPT
9					F										5,7,10 N=17	SPT
10	-1.05															

REMARKS _____

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SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No BH17
SHEET 2 of 3
REFERENCE No H10446

PROJECT Gateway Upgrade North (GUN)
LOCATION At Survey Marker on Nudgee Rd Off ramp COORDINATES 509580.8 E; 6972263.4 N
PROJECT No FP5249 SURFACE R.L. 8.95m PLUNGE -90° DATE STARTED 16/10/08 GRID DATUM MGA94 Zone 56J
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 17/10/08 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	INTACT STRENGTH		DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							USC WEATHERING	EH VH	VI	VI	VI			
10	-1.05				G	RESIDUAL SILTY CLAY (Cont)	(CL-CI)						4,5,8 N=13	SPT
11					H								3,5,9 N=14	SPT
12	-3.35				J	BASALT FINE TO MEDIUM GRAINED, EXTRUSIVE, IGNEOUS ROCK XW: Exhibits the engineering properties of dark greenish grey, moist, hard sandy clayey silt. Low plasticity; occasional relic rock features present.							19,18,21 N=39	SPT
13					K								16,14,22 N=36	SPT
14					L		XW						7,24,26 N=50	SPT
15					M								12,19,30 N=49	SPT
16					N								9,16,30 N=46	SPT
17														
18														
19														
20	-10.75													
	-11.05					HW: (See next page)	HW							

Easy to drill with blade and no weight on rods (drilling records)

REMARKS _____

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BOREHOLE No BH17
SHEET 3 of 3
REFERENCE No H10446

PROJECT Gateway Upgrade North (GUN)
LOCATION At Survey Marker on Nudgee Rd Off ramp COORDINATES 509580.8 E; 6972263.4 N
PROJECT No FP5249 SURFACE R.L. 8.95m PLUNGE -90° DATE STARTED 16/10/08 GRID DATUM MGA94 Zone 56J
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 17/10/08 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	INTACT STRENGTH		DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							USC WEATHERING	EH	VI	VI	VI			
20	-11.05					HW: (Cont) Exhibits the engineering properties of greenish grey, moist, very dense clayey gravel.	HW						30/50 N=>50	SPT
21	-11.75		(51)			Comprises angular high strength basaltic fragments sizing up to and possibly over 40mm in a high plasticity silty sandy clay matrix. SW: Dark grey, fine to medium grained, medium to mainly high strength.	SW						Is(50) = 2.33MPa Is(50) = 1.91MPa Is(50) = 2.12MPa Is(50) = 1.63MPa	x o x o
22	-13.25		85			Defects: - Healed, planar, rough, black claystone infilled joints at 30° (1/m)							Is(50) = 2.34MPa Is(50) = 2.57MPa	x o
23						- Irregular, closed, rough, joints (3/m) - Subvertical, closed, rough joints (1/m) - Drilling induced breaks (5/m) Borehole terminated at 22.2m							- Core loss from 21.98-22.2m	
24														
25														
26														
27														
28														
29														
30														

REMARKS _____

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Project: **GATEWAY NORTH UPGRADE**

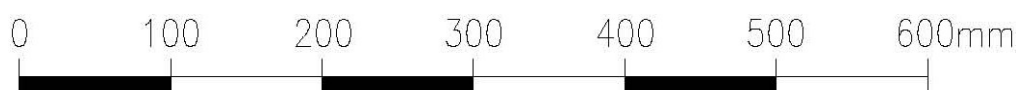
Borehole No: **BH 17**

Start Depth: 20.70m

Finish Depth: 22.20m

Project No: FP5249

H No: 10344



SCALE 1:5