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

REFERENCE No **H10444**

JOB No	HEIGHT DATUM	AHD	BEARING	DATE COMPLETED	24/10/08	DRILLER	Drillsure Pty Ltd
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OLD DMR LIB 01.GLB Log A_ENGINEERING BOREHOLE LOG FP5249 GATEWAY NORTH PROJECT.GPJ <<DrawingFile>> Datgel CPT Tool.gInt Add-In 16/09/2009 09:04

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH15**
SHEET **2** of **3**
REFERENCE No **H10444**

PROJECT Gateway Upgrade North (GUN)
LOCATION At Survey Peg COORDINATES 509517.9 E; 6972258.2 N
PROJECT No FP5249 SURFACE R.L. 6.54 m PLUNGE -90 ° DATE STARTED 22/10/08 GRID DATUM MGA94 Zone 56J
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 24/10/08 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
10	-3.46											
11					G	XW BASALT (Cont) Low plasticity, occasional medium strength, ferrogenised angular relic basaltic fragments sizing up to 30mm; occasional very stiff zones.					14,28,25 N>50	SPT
12					H						17,30,30/100 N=>50	SPT
13					J						hard and soft zones present (drilling records) 25,30/100 N=>50	SPT
14							XW					
15					K						11,14,14 N=28	SPT
16						Becoming sandy silt. Sand fraction consists of green, low strength, relic basaltic fragments which are highly altered to chlorite.					Very stiff zone	
17	-10.46				L						18,27,30/90 N=>50	SPT
18	-11.46				M	HW: Exhibits the engineering properties of brown, moist, dense silty gravel. Gravel fraction consists of highly weathered medium to high strength angular basalt fragments sizing up to and possibly over 40mm.	HW				30/70 N=>50	SPT
19			(0)			HW-MW: Brown-grey, fine grained, low to medium strength with occasioal high strength basalt corestones in a sandy gravel matrix.					Is(50) = 1.13MPa Is(50) = 1.59MPa Is(50) = 0.14MPa Is(50) = 0.09MPa	x o x o
20	-13.46		(0)	100		Spheroidal weathering features throughout. (See next page)	HW-MW				Is(50) = 0.08MPa Major water loss between 18.98-20.4m	x

REMARKS

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH15
SHEET 3 of 3
REFERENCE No H10444

PROJECT Gateway Upgrade North (GUN)
LOCATION At Survey Peg COORDINATES 509517.9 E; 6972258.2 N
PROJECT No FP5249 SURFACE R.L. 6.54 m PLUNGE -90 ° DATE STARTED 22/10/08 GRID DATUM MGA94 Zone 56J
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 24/10/08 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	IN	NI	VL	EL			
20	-13.46															
				100		MW-HW BASALT (Cont) Defects: - Open planar smooth calcite infilled joints at 50° (2/m) - Open ironstained spheroidal weathering related defects (10/m) - Open Ironstained mainly smooth to occasionally rough irregular joints/ defects (30/m) - Crushed zones <80mm (1/m)	HW-MW								Major water loss between 18.98-20.4m	
21				(0)												
	-14.96															
						Probable XW Basalt (?)										
22				(0)			XW									
				0												
	-16.16			(0)												
23						Borehole terminated at 22.7m										
24																
25																
26																
27																
28																
29																
30																

REMARKS _____

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Project: **GATEWAY NORTH UPGRADE**

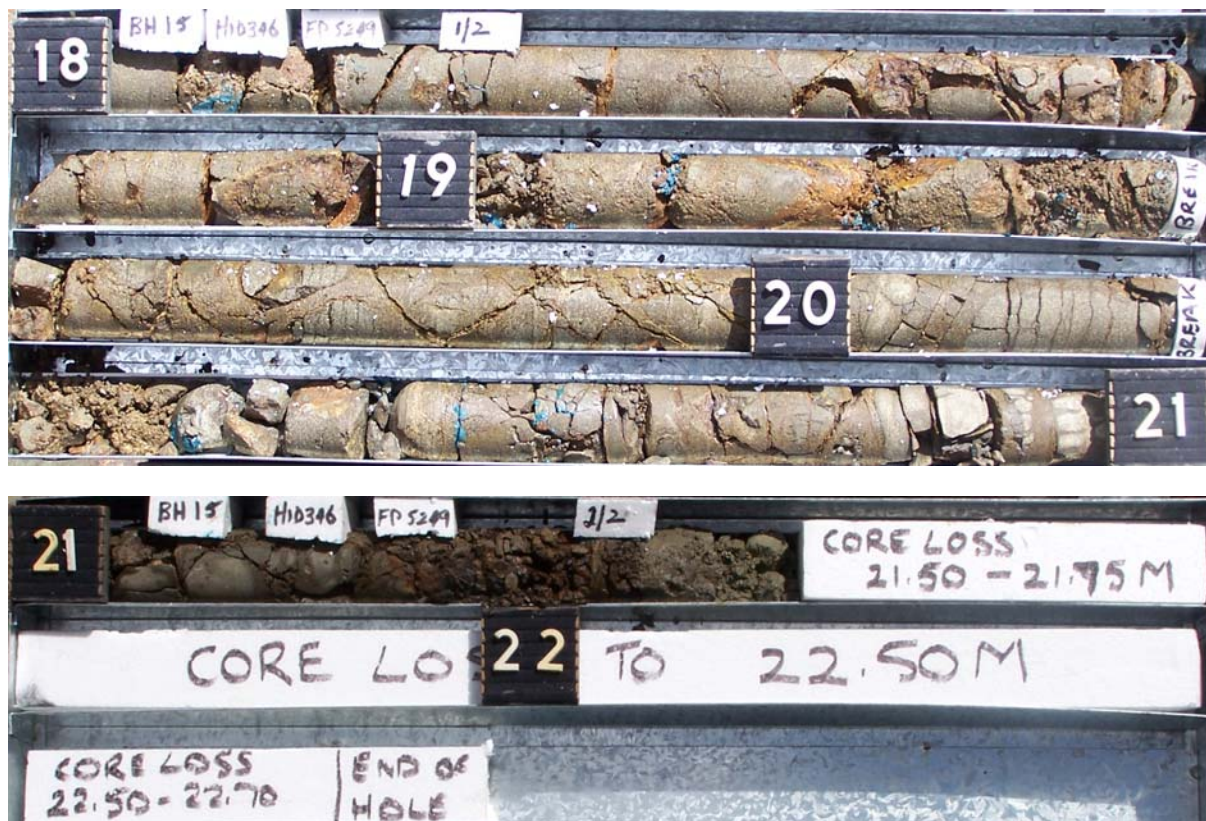
Borehole No: **BH 15**

Start Depth: 18.00m

Finish Depth: 22.70m

Project No: FP5249

H No: 10346



SCALE 1:5