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# ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No	BH103
SHEET	1 of3
REFERENCE No	H9412

PROJ	ECT	GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION										
LOCA	TION										OORDINATES 9579.0 E; 169069.2 N	
PROJECT No _FM2055			SURFACE R.L3.08	DATE STARTED 3/8/0		1	DATUM <u>SETP</u>					
JOB No		- ^	DATUM <u>AHD</u>		DAT	E COMPLETED	3/8/04	<u> 1</u>	DRILLER R&D Drilling	Pty Ltd_		
о ОЕРТН (т)	R L. (m)	CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC		DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES TESTS
-2	1.08				SILTY CLAY - FILL Dark grey, moist, soft to mainly firm.  Frequent dessication and cracks throughout; Medium plasticity.  ESTUARINE (??) SILTY CLAY Dark grey, moist, soft to firm.  High plasticity and some organic content.		OL				1,2,2 N=4 MC=50.4%, WD=1.68t/m3, DD=1.12t/m3	SPT -
5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	-1.62	A Company of the second of the		No. of the control of	ESTUARINE SILTY SAND Dark grey to grey, wet, very loose. Fine to medium grained sand. (Probable basal layer of the younger/estuarine sediments).		SM				LL=67.2%, PI=35.8%, LS=18.4% APD=2.674t/m3 MC=70.2%, WD=1.60t/m3, DD=0.94t/m3  HW,-,1	U50 -
	-3.52 -5.12				SILTY SAND - ALLUVIUM Pale grey to orange brown, moist to slightly dry, medium dense. Fine sand.  SILTY CLAY - ALLUVIUM Grey brown to mottled orange, moist to dry, stiff.  Medium plasticity.		SM				6,9,13 N=22 5,8,9 N=17	SPT -
10 RE	-6.92 MARKS	SPT	N values	in cla	ayey sandy gravel can overestimate density due to in	nfluer	nce o	coarser gravel	particles	. Dei		
		have	been me	asun	ed with respect to a horizontal plane.						B.Woodgate & A.Dissa	nayake

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### ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION **PROJECT** LOCATION CONTROL LINE: MCAO - Ch. 18472.6 - OFFSET 23.0 L COORDINATES 9579.0 E; 169069.2 N PROJECT No FM2055 SURFACE R.L. \_\_3.08\_\_\_ DATUM SETP DATE STARTED 3/8/04 JOB No DATUM \_AHD \_\_ DATE COMPLETED 3/8/04 DRILLER R&D Drilling Pty Ltd RL RQD INTACT DEFECT ()% STRENGTH SPACING ADDITIONAL DATA 9 DEPTH (m) MATERIAL (mm) LITHOLOGY AND GRAPHIC SAMPLES DESCRIPTION TESTS CORE 88888 **TEST RESULTS** SEXTEN SE REC % 10 SILTY CLAY - ALLUVIUM Slickensided joint 3,7,11 SPT (As above) CI -7.92 SILTY SAND / SANDY SILT - ALLUVIUM Pale green to mottled orange. 5,8,9 SPT SM -9.42 SAND - ALLUVIUM Pale brown to orange brown, wet, mainly medium dense to occasionally dense. 6.8.9 Fine sand. SPT BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE. GPJ. ENG BOREHOLE FINAL. GDT. 28/4/05 6,10,12 SPT N=22 Minor silt fraction around 16m. 7,12,21 SPT SP 10,9,7 SPT N=16 6,7,9 SPT

REMARKS SPT N values in clayey sandy gravel can overestimate density due to influence of coarser gravel particles. Defect angles

have been measured with respect to a horizontal plane.

LOGGED BY B.Woodgate & A.Dissanayake



## ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

B.Woodgate & A.Dissanayake

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION												
LOCATIO										COORDINATES 9579.0 E; 169069.2 N		
PROJECT No <u>FM2055</u> SURFACE R.L. <u>3.08</u>						***************************************						
JOB NO DATUM AHD DATE COMPLETED 3/8/04									DRILLER R&D Drilling	Pty Ltd		
R.I. (m)	)	CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	NTACT DEFECT STRENGTH SPACING (mm)  #################################	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES	
20 -16	3.92 <	WASSING WASSIN	(100)	200		DOIDHING STORY	S E E D USC WEATHER!	STRENGTH SPACING (mm)  SPACING	GRAPHICL		xo x	
¥ 20 -24	.92		100	ì		:::				Is(50)=0.54 MPa Is(50)=0.64 MPa	о х	
					Borehole terminated at 28m			+++++++++++++++++++++++++++++++++++++++			-	
REMAR	RKS	SPTN	l values	in cla	yey sandy gravel can overestimate density due to in	ıflıler	nce of	coarser gravel particles	Def	ect angles LOGGED BY		

have been measured with respect to a horizontal plane.

Project: Gateway Upgrade Project Geotechnical Investigation

Borehole No: BH 103
Start Depth: 23.00m
Finish Depth: 28.00m
Project No: FM2055
H No: 9412

