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ENGINEERING BOREHOLE LOG

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

Gateway Upgrade North (GUN) **PROJECT** LOCATION At CPTU 12 COORDINATES 509318.3 E; 6971566.4 N PROJECT No <u>FP5249</u> _ _ _ SURFACE R.L. <u>2.56 m</u> PLUNGE <u>-90 °</u> DATE STARTED <u>07/10/08</u> GRID DATUM MGA94 Zone 56J DRILLER <u>Drillsure Pty Ltd</u> JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 07/10/08 R.L. INTACT DEFECT ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) MATERIAL AND SAMPLE DESCRIPTION TESTS AUGEF CASIN WASH CORE CORF **TEST RESULTS** REC % 0 2.56 SII TY SAND Brown, slightly dry to mainly moist, loose. Very fine grained sand fraction; partially decomposed plant material present; frequent SPT (SM) firm to stiff silty clay bands. 1.06 SANDY CLAY В SPT Brown, moist, soft to firm. - 2 (CH) High plasticity; iron concretions sizing up to 10mm throughout; minor very fine grained sand fraction. 0.06 SANDY CLAY С U50 Grey to mottled orange, moist, firm to stiff, low plasticity, prominent very fine grained sand (CL) fraction. Datgel CPT Tool gINt Add-In 16/09/2009 09:04 -0.94 SANDY CLAY 257 D SPT Brown, moist, stiff. (CH) N=12 High plasticity; iron concretions sizing up to 10mm throughout; minor very fine grained sand -1.54 fraction. RESIDUAL CLAYEY SILT 14,14,20 Greenish grey, moist, very stiff to hard. SPT Е N = 34Low plasticity; occasional iron concretions - 5 sizing up to 25mm; partly sandy. (ML) 9,14,14 FP5249 GATEWAY NORTH PROJECT.GPJ F SPT N=28 -6 -3.64 BASALT FINE GRAINED EXTRUSIVE IGNEOUS ROCK - Healed, irregular, easily 27,30/100 separated by hand, weather eq=>50 microquartz infilled joints. XW XW: Exhibits the engineering properties of G SPT -4.24 red mainly moist to slightly wet, very dense (0) clayey sandy gravel. Gravel fraction comprises (>100/m) - Healed, planer, easily separated by hand, weathered microquartz angular low strength basaltic fragments. Orange-red, fine grained, highly fractured, very infilled joints at 50° (3/m) LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG low to low strength. HW ls(50) = 0.04MPaХ -8 Is(50) = 0.08MPaх 100 -5.74 Borehole terminated at 8.3m - 9 9 LOGGED BY REMARKS AS/SAB

Project: GATEWAY NORTH UPGRADE

Borehole No: BH 12
Start Depth: 6.80m
Finish Depth: 8.30m
Project No: FP5249
H No: 10343

