BOREHOLE ENGINEERING LOG

HOLE NO : GP131N_HA03

CLIENT : TRANSPORT AND MAIN ROADS	POSITION : E: 351488, N: 8071857 (56 MGA94)	PAGE : 1 OF 1
PROJECT : TNRP	SURFACE ELEVATION : 762.0 (AHD)	DATE DRILLED : 1/11/12 to 1/11/12
JOB NO : CB27000.F672	DIP / AZIMUTH : 90°	LOGGED BY : AJ
LOCATION : MILLAA MILLAA - MILANDA ROAD (641)	CONTRACTOR : N/A	CHECKED BY :

DRILLING | MATERIAL

PROGRESS: DRILLING & CASING	PROGRESS: WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION (Soil Type, Colour, Plasticity or Particle Characteristic; Secondary and Minor Components)	MOISTURE CONDITION	CONSISTENCY	DCP (blows/100mm)	STRUCTURE & Other Observations
HA		F	NOT OBSERVED	0.20m DS	0.0		CL-CI	SILTY CLAY (CL-CI): Brown, low to medium plasticity, with fine to medium grained sand.	D - M	St	5 10 15 20	RESIDUAL SOIL
				0.60m								
				0.80m DS				From 0.80 m with fine grained subangular gravel				
				1.00m DS	1.0			1.00m SILTY CLAY (CH): Orange, high plasticity, with fine to coarse grained sand.		St - VSt		1.00: Moisture Content (%) = 22.1, Liquid Limit (%) = 65, Plasticity Index (%) = 29, Linear Shrinkage (%) = 13, % Passing 0.425mm: 99, % Passing 0.075mm: 99
				1.50m			CH					
				2.00m DS	2.0			2.00m EXTREMELY WEATHERED GRANITE (OH): Pale orange, extremely low strength, remolds to CLAYEY SANDY SILT (OH-SC), high plasticity, fine to coarse grained sand.				BEDROCK 2.00: Moisture Content (%) = 18.4, Liquid Limit (%) = 56, Plasticity Index (%) = 21, Linear Shrinkage (%) = 10, % Passing 2.36mm: 98, % Passing 0.425mm: 60, % Passing 0.075mm: 51
				2.50m			OH	2.50m				
					3.0							
					4.0							

DRILLING

HA	Hand Auger	RR	Rock Rolling
AS	Auger Screw	AT	Air Track
AD/T	Auger Drill TC-bit	HQ	HQ Coring
AD/V	Auger Drill V-bit	PQ	PQ Coring
WB	Washbore	NMLC	NMLC Coring

DRILLING PENETRATION

VE	Very Easy	F	Firm	VH	Very Hard
E	Easy	H	Hard		

GROUNDWATER SYMBOLS

▼ = Water level (static)

▽ = Water level (during drilling)

SAMPLES & FIELD TESTS

DS	Disturbed Sample	SPT	Standard Penetration Test
ES	Env Soil Sample	U	Undisturbed Tube Sample
EW	Env Water Sample	W	Water Sample

HP Hand Penetrometer
HV Hand Vane Shear
(P: Peak Su R: Residual Su)
N SPT blows per 300mm
HW SPT penetration by hammer weight
RW SPT penetration by rod weight

MOISTURE CONDITION
D = Dry M = Moist W = Wet

DENSITY (SPT N-value)

VL	Very Loose	0 - 4
L	Loose	4 - 10
MD	Medium Dense	10 - 30
D	Dense	30 - 50
VD	Very Dense	50 - 100
CO	Compact	>50/150mm

CONSISTENCY (Su) {SPT N-value}

VS	Very Soft	< 12 kPa {0-2}
S	Soft	12 - 25 {2-4}
F	Firm	25 - 50 {4-8}
St	Stiff	50 - 100 {8-15}
VSt	Very Stiff	100 - 200 {15-30}
H	Hard	> 200 kPa {>30}

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