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# BOREHOLE ENGINEERING LOG

HOLE NO : GP116N\_BH01

CLIENT : TRANSPORT AND MAIN ROADS	POSITION : E: 351280, N: 8070479 (56 MGA94)	PAGE : 1 OF 2
PROJECT : TNRP	SURFACE ELEVATION : 731.5 (AHD)	DATE DRILLED : 7/11/12 to 7/11/12
JOB NO : CB27000.F672	DIP / AZIMUTH : 90°	LOGGED BY : AJ
LOCATION : MILLAA MILLAA - MILANDA ROAD (641)	CONTRACTOR : SAXON DRILLING	CHECKED BY :

DRILLING				MATERIAL			
DRILLING & CASING	WATER	DRILLING PENETRATION	SAMPLES & FIELD TESTS	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION	STRUCTURE & Other Observations
ADT		H		731.5	0.0	0.02m BITUMEN: (0.015m). SANDY GRAVEL CEMENT STABILISED (GP): Grey, fine to medium gravel, angular, fine to coarse grained sand.	FILL
		F	1.00m SPT 2, 3, 4 N=7	730.5	1.0	0.45m CLAYEY SILT (MH): Brown mottled orange-brown, medium plasticity, with fine to coarse grained sand, trace of fine grained, angular gravel.	1.00: Moisture Content (%) = 32.8, Liquid Limit (%) = 63, Plasticity Index (%) = 23, Linear Shrinkage (%) = 13.5, % Passing 0.075mm: 78
			1.45m				
			2.00m SPT 1, 3, 4 N=7	729.5	2.0	1.60m SILTY CLAY (CH): Orange brown, high plasticity, trace of fine grained sand.	2.00: Moisture Content (%) = 50.4, % Passing 0.075mm: 90
			2.45m				
			3.00m SPT 2, 3, 5 N=8	728.5	3.0	3.00m CLAYEY SILT (MH): Orange-brown mottled pale orange, pale brown, high plasticity, with fine to medium grained sand.	3.00: Moisture Content (%) = 36.1, Liquid Limit (%) = 67, Plasticity Index (%) = 30, Linear Shrinkage (%) = 10.5, % Passing 0.075mm: 64
			3.45m				
			4.00m SPT 2, 2, 3 N=5	727.5	4.0	4.05m CLAYEY SILT (MH): Grey brown, high plasticity, with fine to coarse grained sand, trace of roots and rootlets thinly layered.	FILL/ALLUVIUM? 4.05: Moisture Content (%) = 40.3, Liquid Limit (%) = 76, Plasticity Index (%) = 30, Linear Shrinkage (%) = 17, % Passing 0.075mm: 71
			4.45m				
			5.00m SPT 1, 4, 7 N=11	726.5	5.0	5.40m SILTY CLAY (CI-CH): Orange brown, medium to high plasticity.	
	5.45m						
	6.00m	725.5	6.0	5.80m SILTY CLAY (CI-CH): Orange brown, medium to high plasticity.			

DRILLING		SAMPLES & FIELD TESTS		DENSITY (SPT N-value)		CONSISTENCY (Su) {N-value}	
HA Hand Auger	RR Rock Rolling	DS Disturbed Sample	SPT Standard Penetration Test	VL Very Loose	0 - 4	VS Very Soft	< 12 kPa {0-2}
AS Auger Screw	AT Air Track	ES Env Soil Sample	U Undisturbed Tube Sample	L Loose	4 - 10	S Soft	12 - 25 {2-4}
AD/T Auger Drill TC-bit	HQ HQ Coring	EW Env Water Sample	W Water Sample	MD Medium Dense	10 - 30	F Firm	25 - 50 {4-8}
AD/V Auger Drill V-bit	NQ NQ Coring			D Dense	30 - 50	St Stiff	50 - 100 {8-15}
WB Washbore	NMLC NMLC Coring			VD Very Dense	50 - 100	VSt Very Stiff	100 - 200 {15-30}
		HP Hand Penetrometer	MOISTURE CONDITION	CO Compact	>50/150mm	H Hard	> 200 kPa {>30}
		HV Hand Vane Shear	D = Dry M = Moist W = Wet				
VE Very Easy	F Firm VH Very Hard	(P: Peak Su R: Residual Su)					
E Easy	H Hard	N SPT blows per 300mm					
GROUNDWATER SYMBOLS		HW SPT penetration by hammer weight					
▼ = Water level (static)		RW SPT penetration by rod weight					
▽ = Water level (during drilling)							

