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BOREHOLE ENGINEERING LOG

HOLE NO : CURVE 16_BH01

CLIENT : TRANSPORT AND MAIN ROADS	POSITION : E: 359729, N: 8137753 (56 MGA94)	PAGE : 1 OF 1
PROJECT : BLACK SPOT PROJECT	SURFACE ELEVATION : 75.7 (AHD)	DATE DRILLED : 28/7/13 TO 28/7/13
JOB NO : CB24735.04	DIP / AZIMUTH : 90°	LOGGED BY : JP
LOCATION : KENNEDY HWY (CAIRNS - MAREEBA)		CHECKED BY : AJ

DRILLING					MATERIAL							
DRILLING & CASING	WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	STRUCTURE & Other Observations
AD/T		VH	NOT OBSERVED	B	75.7	0.0			ASPHALT: 0.13 m.			FILL
		F			0.15m		SANDY GRAVEL (GM): Grey brown, fine to medium gravel, angular, fine to coarse grained sand, with fines.	D	0.15: Moisture Content (%) = 2.6, Liquid Limit (%) = 23, Plastic Limit (%) = 17, Plasticity Index (%) = 6, Linear Shrinkage (%) = 1.5, % Passing 37.5mm: 100, % Passing 2.36mm: 49, % Passing 0.425mm: 27, % Passing 0.075mm: 17, % Passing 0.002mm: 2, Max. Dry Density (t/m³) = 2.13, OMC (%) = 8			
		H			0.55m		PHYLITE: Grey, highly weathered to moderately weathered, low to medium strength.	VD	HIGHLY WEATHERED ROCK			
					0.65m		Terminated Drill Hole at 0.65 m refusal on estimated medium to high strength phyllite					
					75.2	0.5						
					74.7	1.0						
					74.2	1.5						
					73.7	2.0						
					73.2	2.5						
					72.7	3.0						
					72.2	3.5						
					71.7	4.0						

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	HP Hand Penetrometer		D Dense	30 - 50	St Stiff	50 - 100 {8-15}		
WB Washbore	NMLC NMLC Coring	HV Hand Vane Shear	MOISTURE CONDITION	VD Very Dense	50 - 100	VSt Very Stiff	100 - 200 {15-30}		
			D = Dry M = Moist W = Wet	CO Compact	>50/150mm	H Hard	> 200 kPa {>30}		
VE Very Easy	F Firm								
E Easy	H Hard								
DRILLING PENETRATION									
GROUNDWATER SYMBOLS									
▼ = Water level (static)									
▽ = Water level (during drilling)									