



Job n P207448

file:

Project: George Town Substation Geotechnical Investigation

Borehole commenced: 10/12/08

Borehole Location: 490270E 5446872N

Borehole completed: 10/12/08

Borehole Logged by: Bruce Taylor

Log Checked by: CJD

Drill model and mounting: Pollock Special
hole diameter: 56mm

slope: 90
bearing: n/a

R.L surface 54m
datum GDA

Driller Mark Barnett

drilling information				material substance									
method	penetration	support	water	notes samples tests, etc	R.L	depth metres	graphic log	classification symbol	material	moisture condition	consistency, density index	hand penetrometer	structure and additional observations
1 2 3									soil type; plasticity or particle characteristics, colour, secondary and minor components.			kPa	
T								SW	TOPSOIL SAND, silt, grey	D	L		
				pp=300-350kpa From 1-1.5		1		GC	clayey GRAVEL and sand, low plasticity orange rd brown, many rock frags, Fe pisolites.	D	Fb		
				pp=350kpa From 1.6-2.3		2		CH	Silty CLAY, low plasticity, orange brown	M	VSt		
				pp=250kpa @ 2.4		3		CH	Silty CLAY, medium-high plasticity orange brown and blue grey	M	VSt		
				pp=450-550kpa From 2.5-3.3		4		CH	Silty CLAY, low plasticity, yellow grey and yellow orange	M	VSt. Fb.		
				pp=550kpa @ 6-7m		6							
						7							
									Hole terminated @ 7.4m				

KEY

method	
AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	dialube
B	blank bit
V	V bit
T	TC bit
* bit shown by suffix e.g. ADT	

support	T - timbering N - Nil
C - casing	
penetration	1 2 3 no resistance ranging to refusal
water	level (dale)
	inflow outflow

notes -	samples and tests
U ₅₀	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressure meter
Bs	bulk sample
R	refusal

classification symbols and soil description	based on Unified Classification System
moisture condition	D dry M moist W wet Wp plastic limit Wl liquid limit

consistency/density/Index	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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