Hydro Tasmania
the renewable energy business

Consulting Business Unit
Civil Engineering
Engineering Log - Borehole

Borehole no: GANTRY WEST
Sheet 1 of 1

Job n P207448 file:

Project: **George Town Substation Geotechnical Investigation**

Borehole Location: 490282E 5446910N

Borehole commenced: 9/12/08
Borehole completed: 9/12/08
Borehole Logged by: Bruce Taylor
Log Checked by: C J D

Drill model and mounting: Poltock Special
hole diameter: 56mm
slope: 90
bearing: n/a
R.L surface 55m
datum GDA
Driller Mark Barnett

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples tests, etc	R.L	depth metres	graphic log	classification symbol	material: soil type; plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, density index	hand penetro-meter kPa 100 200 300 400	structure and additional observations
T ↓						0			TOPSOIL				
									Fill, Sand and Silt, grey	D	L		
						1		GM	Silty GRAVEL and SAND, orange brown, minor clay and rock fragments	D	Fb		
				pp=600kpa @ 1.3m				CL	Sandy CLAY, low plasticity, orange brown, Silt and gravel and pisolites	M	VSt-H		
Nq core ↓				pp=350kpa from 1.4-1.8		2		CH	Silty CLAY, high plasticity, orange brown and blue grey, minor Sand	M	vst-H		
				pp=450-550 kpa from 1.8-2.4m									
				pp=>600kpa @ 3.3m.		3					H		
				pp=>600kpa from 3.3-4.4									
				pp=500 kpa from 4.5-4.9		4			Silty CLAY, blue grey				
				pp=350kpa from 4.9-5.2		5							
				pp=350kpa @ 5.4m									
				pp=350-400kpa from 5.4-6.2		6							
				pp=300-400 kpa from 6.2-7.2		7							
									Hole terminated @ 7.2m				

KEY

method
AS auger screwing*
AD auger drilling*
RR roller/tricone
W washbore
CT cable tool
HA hand auger
DT diatube
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 (date)
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 looose
L loose
MD medium dense
D dense
VD very dense