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**Queensland
Government**

Department of
Main Roads

GEOTECHNICAL LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/2-2004

HOLE No BH1

SHEET 1 of 2

REFERENCE No H9520

PROJECT Apple Tree Creek Embankment Materials Investigation COORDINATES 422887.0 E; 7211451.0 N
LOCATION Proposed borrow area at Campbell's Property DATUM GDA94 MGA Zone 56
PROJECT No FG5334 SURFACE R.L. 89.00 DATE STARTED 14/10/04 EXCAVATION TYPE Rotary Air Boring
JOB No 64/10C/35.1 DATUM AHD DATE COMPLETED 14/10/04 MACHINE TYPE Jackro500 Top Drive

DEPTH (m)	R.L. (m)	USC	WEATHERING	LITHOLOGY	SOIL DESCRIPTION: Plasticity or particle characteristics, colour, secondary components, moisture, consistency/density, structure, origin. ROCK DESCRIPTION: Lithology, colour, structure, weathering, strength, defects.	ADDITIONAL DATA TEST RESULTS PENETRATION RATE (min:sec / m)	SAMPLES TESTS
0	89.00						
0.88.60		CI			Sandy CLAY (Topsoil/Residual Soil): Brown, moist, very stiff, medium plasticity, fine to medium grained sand, some grass roots.		
1.87.50		SC			Clayey SAND (XW Granite): Pale orange brown, moist, very dense, medium plasticity, fine to coarse grained sand, trace of fine gravel, 5mm maximum particle size, ~25-30% fines.		
2.87.50					Clayey SAND with some gravel (HW Granite): Pale orange brown, moist, very dense, low to medium plasticity, fine to coarse grained sand, some fine to medium gravel throughout, 8mm maximum particle size, ~20% fines.		
3							
4							
5						4-5m: Penetration Rate = 1min:23sec	500g JAR
6		SC				5-6m: Penetration Rate = 1min:20sec	500g JAR
7						6-7m: Penetration Rate = 1min:17sec	500g JAR
8						7-8m: Penetration Rate = 1min:22sec	500g JAR
9						8-9m: Penetration Rate = 1min:05sec	500g JAR
9.79.50							
10.79.00		SC			Fines are low plasticity and decrease to ~15% below 9.5m. The amount of fine gravel increases below 9.5m.	9-10m: Penetration Rate = 0min:50sec	500g JAR

REMARKS % fines = % material passing the 0.075mm sieve; hole bored more slowly in upper 9m than following five drill holes, as it was the first hole;

LOGGED BY
A. O'Rourke



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HOLE No BH1
SHEET 2 of 2
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10	79.00						
11			SC		Clayey SAND (HW Granite): As above.	10.5-11.5m: Penetration Rate = 0min:40sec	500g JAR
12						11.5-12.5m: Penetration Rate = 0min:38sec	500g JAR
76.50							
13					Hole ended at 12.5m		
14							
15							
16							
17							
18							
19							
20							

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