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**Queensland  
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## TEST PIT LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/5-2009

FEATURE No TP013

SHEET 1 of 2

DATE EXCAVATED 17/09/09

PROJECT Bruce Highway Cooroy to Curra Section A Geotechnical Investigation

LOCATION Embankment 4 COORDINATES 489119.4 E; 7078687.9 N

PROJECT No FG5825 SURFACE R.L. 109.82 DATUM AHD SYSTEM MGA94

JOB No 128/10A/901 EQUIPMENT TYPE AND MODEL JCB BACKHOE BUCKET SIZE 450mm

| DEPTH (m) | R.L. (m) | METHOD | USC | WEATHERING | SOIL DESCRIPTION                                                                                                                                                  | VDCP LOG<br>(Cone Resistance) | ADDITIONAL DATA<br>AND TEST RESULTS                     | SAMPLE NUMBER | TEST REPORT |
|-----------|----------|--------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------|---------------|-------------|
|           |          |        |     |            | ROCK DESCRIPTION                                                                                                                                                  |                               |                                                         |               |             |
|           |          |        |     |            | SOIL TYPE : Colour, grain size, plasticity or particle characteristics, moisture, consistency, density, secondary components                                      | VDCP8 (MPa)                   |                                                         |               |             |
| 0         | 109.82   | BUCKET |     |            | ROCK SUBSTANCE : Type, colour, grain characteristics, weathering, strength, structure, inclusions                                                                 | 0 4 8 12 16>20                |                                                         |               |             |
|           |          |        |     |            | <b>Topsoil</b>                                                                                                                                                    |                               |                                                         |               |             |
|           | 109.52   |        |     |            |                                                                                                                                                                   |                               |                                                         |               |             |
| 1         |          |        |     | CH         | <b>Silty CLAY with some gravel</b><br>Mottled red-brown/pale grey, high plasticity. Gravel - angular, low strength, dark red, Fe cemented particles. Moist, hard. |                               | LL = 60; PI = 30;<br>LS = 16.2; MC = 22.5%;<br>WPI 2429 | 09G1475       | 22183       |
|           | 108.12   |        |     |            |                                                                                                                                                                   |                               | PP(UCS) >500kPa                                         |               |             |
| 2         |          |        |     | (CH)       | <b>Silty CLAY (Residual soil)</b><br>Pale grey with dark red and yellow Fe staining, high plasticity. Moist, hard, friable. Some fissuring evident.               |                               | PP(UCS) >500kPa                                         |               |             |
|           |          |        |     |            |                                                                                                                                                                   |                               | MC = 22.3%<br>PP(UCS) >500kPa                           | 09G1476       |             |
|           | 106.42   |        |     |            |                                                                                                                                                                   |                               |                                                         |               |             |
|           |          |        |     |            | Excavation terminated at 3.4m                                                                                                                                     |                               |                                                         |               |             |
| 4         | 105.82   |        |     |            |                                                                                                                                                                   |                               |                                                         |               |             |



REMARKS Parentheses indicate visual classification only. PP = Pocket penetrometer

LOGGED BY  
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