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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No     BH31      
SHEET     1     of     1      
REFERENCE No     H11080    

PROJECT Moreton Bay Rail Link  
LOCATION Fill 18, Ch.10700 COORDINATES 506363.7 E; 6988993.9 N  
PROJECT No FG5921 SURFACE R.L. 1.20m PLUNGE \_\_\_\_\_ DATE STARTED 24/6/11 GRID DATUM MGA94 Zone 56  
JOB No 250/120/3 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 24/6/11 DRILLER R&D Drilling Pty Ltd

| DEPTH (m) | R.L. (m) | AUGER CASING WASH BORING | RQD (%) | CORE REC % | SAMPLE | MATERIAL DESCRIPTION   | LITHOLOGY | USC | WEATHERING | INTACT STRENGTH |    |    |    |   |    | DEFECT SPACING (mm) | GRAPHIC LOG   | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|--------------------------|---------|------------|--------|--|-----------|-----|------------|-----------------|----|----|----|---|----|---------------------|---|----------------------------------|---------------|
|           |          |                          |         |            |        |  |           |     |            | EH              | VH | TH | IM | J | VL |                     |   |                                  |               |
| 0         | 1.20     |                          |         |            |        | <b>Silty CLAY (Alluvium?)</b><br>Mottled red and grey, moist, soft.<br><br>High plasticity; plant materials and secondary minerals in parts.<br><br>Becoming light grey, firm to stiff below 3m depth; minor red iron staining in parts. |           |     |            |                 |    |    |    |   |    |                     | Based on Driller's logs only<br><br>DD = 1.00t/m <sup>3</sup> ; WD = 1.60t/m <sup>3</sup> ; MC = 58.8%; LL-70%; PI=39%; LS=17+<br><br>Su (kPa)= 71 - 17 | U100<br>FSV                      |               |
| 1         |          |                          |         |            | A      |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 2         |          |                          |         |            | B      |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 3         |          |                          |         |            | C      |  | (CH)      |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 4         | -2.80    |                          |         |            | D      |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 5         |          |                          |         |            | E      |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 6         |          |                          |         |            | F      |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 7         |          |                          |         |            | G      | <b>Silty CLAY (Alluvium)</b><br>Mottled yellow grey and red, moist, mainly stiff.<br><br>Low to medium plasticity.<br><br>Contains ferruginous iron stained nodules below 5m depth.  |           |     |            |                 |    |    |    |   |    |                     |   | 3,4,8<br>N=12                    |               |
| 8         |          |                          |         |            | H      |  |           |     |            |                 |    |    |    |   |    |                     |   | 3,5,9<br>N=14                    |               |
| 9         |          |                          |         |            | J      |  | (CL-CI)   |     |            |                 |    |    |    |   |    |                     |   | 4,5,9<br>N=14                    |               |
| 10        |          |                          |         |            | K      |  |           |     |            |                 |    |    |    |   |    |                     |   | 4,8,12<br>N=20                   |               |
| 11        | -6.30    |                          |         |            | L      | <b>Clayey SAND (Residual)</b><br>Yellow grey, moist, medium grained, medium dense.<br><br>Contains iron stained concretionary nodules throughout.  |           |     |            |                 |    |    |    |   |    |                     |   | 8,20,30<br>N=50                  |               |
| 12        | -7.25    |                          |         |            |        | Borehole terminated at 8.45m   | (SM)      |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 13        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 14        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 15        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 16        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 17        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 18        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 19        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |
| 20        |          |                          |         |            |        |  |           |     |            |                 |    |    |    |   |    |                     |   |                                  |               |

REMARKS \_\_\_\_\_

LOGGED BY  
BW