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# ENGINEERING BORELOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM BQF 075:191/95

BOREHOLE No : 139  
 SHEET : 1 OF 2  
 REFERENCE No : H8092

PROJECT : PACIFIC MOTORWAY LOGAN RIVER SERVICE ROAD BRIDGE FOUNDATION INVESTIGATION  
 LOCATION : Pier 2 Grig ref.19549E 140097N  
 PROJECT No : MP1006 SURFACE R.L. : 3.77 DRILLER : FOUNDRIL  
 JOB No : \_\_\_\_\_ DATUM : AHD DATE DRILLED : 05/09/97

| DEPTH (E)<br>(m) | R.L.<br>(m) | AUGER<br>CORE DRILLING<br>CASING<br>OTHER | RQD<br>(%)<br>CORE<br>REC% | SAMPLE | MATERIAL<br>DESCRIPTION  | USC<br>WEATHERING<br>EH<br>LVH<br>H<br>M<br>L | INTACT<br>STRENGTH | DEFECT<br>SPACING<br>(mm)<br>20<br>60<br>200<br>600<br>2000 | GRAPHIC LOG | ADDITIONAL DATA<br>AND<br>TEST RESULTS | SAMPLES<br>TESTS |
|------------------|-------------|---|----------------------------|--------|--|---|--------------------|---|-------------|--|------------------|
|                  |             |   |                            |        |  |   |                    |   |             |  |                  |
| 0                | 3.77        |   |                            |        | GRAVELLY SANDY SILT<br>Brown, firm, dry  |   |                    |   |             |  |                  |
| 1                |             |   |                            |        |  | CL  |                    |   |             | 4, 3, 3<br>N=6                         | SPT              |
| 1.97             | 1.67        |   |                            |        | SILTY CLAY<br>Dark brown to dark grey soft firm<br>stiff, moist to wet, alluvium, high<br>plasticity; minor organic content.<br>Occasional fine sand layers to 100mm.  |   |                    |   | ▽           | 08/09/97                               |                  |
| 2                |             |   |                            |        |  |   |                    |   |             | 1, 2, 3<br>N=5                         | SPT              |
| 3                |             |   |                            |        |  | SC  |                    |   |             | SuPP=23kPa                             | U50              |
| 4                |             |   |                            |        |  |   |                    |   |             | SuPP=30kPa                             | U50              |
| 5                |             |   |                            |        |  |   |                    |   |             |  |                  |
| 6                |             |   |                            |        |  |   |                    |   |             |  |                  |
| 7                | -3.43       |   |                            |        |  |   |                    |   |             | Fine sandy layer                       | U50              |
| 8                |             |   |                            |        | GREYWACKE:<br>GREY, MEDIUM GRAINED METASEDIMENTARY<br>ROCK. BEDDING IRREGULAR, FREQUENT<br>ARGILLITE INTERLAYERES.<br><br>XW: Grey brown to yellow brown, generally<br>exhibits engineering properties of<br>very stiff to hardsilty clay to<br>clayey sand. | XW  |                    |   |             |  |                  |
| 9                |             |   |                            |        |  |   |                    |   |             | 30/120, -,<br>N>50                     |                  |
| 10               | -5.73       |   |                            |        |  |   |                    |   |             |  |                  |
|                  | -6.23       |   |                            |        | HW:<br>(see over)  | HW  |                    |   |             |  |                  |

REMARKS : \_\_\_\_\_

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# ENGINEERING BORELOG

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BOREHOLE No : 139

SHEET : 2 OF 2

REFERENCE No : H8092

PROJECT : PACIFIC MOTORWAY LOGAN RIVER SERVICE ROAD BRIDGE FOUNDATION INVESTIGATION  
 LOCATION : Pier 2 Grig ref.19549E 140097N  
 PROJECT No : MP1006 SURFACE R.L. : 3.77 DRILLER : FOUNDRIL  
 JOB No : DATUM : AHD DATE DRILLED : 05/09/97

| DEPTH (m) | R.L. (m) | ALGER CORE DRILLING CORE CASING OTHER | RQD (%) | CORE REC% | SAMPLE | MATERIAL DESCRIPTION  | USC WEATHERING | INTACT STRENGTH |    |   |   | DEFECT SPACING (mm) |    |    |  | GRAPHIC LOG                            | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|---------------------------------------|---------|-----------|--------|---|----------------|-----------------|----|---|---|---------------------|----|----|--|--|----------------------------------|---------------|
|           |          |                                       |         |           |        |   |                | EH              | VH | H | M | VL                  | 20 | 60 | 200  |  |                                  |               |
| 10        | -6.23    |                                       |         |           |        | Heavily brown ironstaining throughout.  | HW             |                 |    |   |   |                     |    |    |  | 30/90, N>50                            |                                  |               |
| 11        | -7.53    |                                       |         |           |        |   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |
| 12        |          |                                       |         |           |        | MW: Slightly brown ironstaining throughout mainly along defects. Defects: mainly in sets 40-60 degrees and <30 degrees. |                |                 |    |   |   |                     |    |    |  | Is (50) = 0.67MPa<br>Is (50) = 0.79MPa | x<br>x                           |               |
| 13        |          |                                       |         |           |        |   | MW             |                 |    |   |   |                     |    |    | Highly fractured zone<br>Highly fractured zone | Is (50) = 1.87MPa                      | x                                |               |
| 14        | -10.53   |                                       | 100     |           |        |   |                |                 |    |   |   |                     |    |    | Contorted argillite interlayers.               | Is(50) = 0.89MPa                       | x                                |               |
| 15        |          |                                       |         |           |        | END OF HOLE   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |
| 16        |          |                                       |         |           |        |   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |
| 17        |          |                                       |         |           |        |   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |
| 18        |          |                                       |         |           |        |   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |
| 19        |          |                                       |         |           |        |   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |
| 20        |          |                                       |         |           |        |   |                |                 |    |   |   |                     |    |    |  |  |                                  |               |

REMARKS :

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PACIFIC MOTORWAY  
LOGAN RIVER BRIDGES

HOLE 139  
START 11-30  
END 14-30

H 8092  
1 OF 1  
SEP 1997

MP1006

