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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

MB1

SHEET 1 OF 1

|                    |                                         |                 |        |
|--------------------|-----------------------------------------|-----------------|--------|
| Client:            | QUEENSLAND MAIN ROADS                   | Date Commenced: | 6/6/05 |
| Project:           | TUGUN BYPASS GEOTECHNICAL INVESTIGATION | Date Completed: | 6/6/05 |
| Borehole Location: | North-east of tunnel                    | Recorded By:    | MCM    |
| Project Number:    | 2134070C                                | Log Checked By: | PAW    |

|                       |                       |             |     |             |                       |
|-----------------------|-----------------------|-------------|-----|-------------|-----------------------|
| Drill Model/Mounting: | LEWIS 350 TRACKED RIG | Hole Angle: | 90° | Surface RL: | 4.3 m AHD             |
| Borehole Diameter:    | 100 mm                | Bearing:    | --- | Co-ords:    | E 50908.4 N 87390 PMG |

| Borehole Information |         |       |           |          |                  | Field Material Description |             |            |                                      |          |                                |                                            |
|----------------------|---------|-------|-----------|----------|------------------|----------------------------|-------------|------------|--------------------------------------|----------|--------------------------------|--------------------------------------------|
| 1                    | 2       | 3     | 4         | 5        | 6                | 7                          | 8           | 9          | 10                                   | 11       | 12                             | 13                                         |
| METHOD               | SUPPORT | WATER | RL(m) AHD | DEPTH(m) | FIELD TEST       | SAMPLE                     | GRAPHIC LOG | USC SYMBOL | SOIL/ROCK MATERIAL FIELD DESCRIPTION | MOISTURE | RELATIVE DENSITY / CONSISTENCY | STRUCTURE AND ADDITIONAL OBSERVATIONS      |
| TC                   | Nil     | None  |           |          |                  |                            |             | SP         | SAND: medium grained, grey.          | M        |                                | ESTUARINE/ FLOODPLAIN/TIDAL DELTA DEPOSITS |
|                      |         |       | 4         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 1         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 3         |          |                  |                            |             |            |                                      |          |                                |                                            |
| WB                   | M       |       |           |          | 6,8,11<br>N=18   | SPT                        |             |            |                                      |          |                                |                                            |
|                      |         |       | 2         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 2         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 2.50      |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 3         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 1         |          | 25,30<br>V125mm  | SPT                        |             |            |                                      |          |                                |                                            |
|                      |         |       | 4         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 0         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       |           |          | 16,25,30<br>N=55 | SPT                        |             |            |                                      |          |                                |                                            |
|                      |         |       | 5         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | -1        |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 6         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | -2        |          | 20,30<br>V130mm  | SPT                        |             |            |                                      |          |                                |                                            |
|                      |         |       |           |          |                  |                            |             |            | END OF BOREHOLE AT 6.30 m            |          |                                |                                            |
|                      |         |       | 7         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | -3        |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 8         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | -4        |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | 9         |          |                  |                            |             |            |                                      |          |                                |                                            |
|                      |         |       | -5        |          |                  |                            |             |            |                                      |          |                                |                                            |

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.