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# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM E:GEOT 017/8-2014

BOREHOLE No **BH278**

Sheet 1 of 2

REFERENCE No **H12430**

|         |                  |
|---------|------------------|
| PROJECT | Mackay Ring Road |
|---------|------------------|

|          |              |
|----------|--------------|
| LOCATION | Lagoon Creek |
|----------|--------------|

COORDINATES 721020.3 E; 7658345.6 N

|            |        |                  |            |                         |                             |
|------------|--------|------------------|------------|-------------------------|-----------------------------|
| PROJECT No | FG6184 | SURFACE RL 7.24m | PLUNGE 90° | DATE STARTED 11/10/2015 | GRID DATUM GDA 94 / MGA Z55 |
|------------|--------|------------------|------------|-------------------------|-----------------------------|

JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 12/10/2015 DRILLER Cairns Drilling

| DEPTH (m) | R.L.<br>(m) | AUGER<br>CASING<br>WASH BORING<br>CORE DRILLING | RQD<br>( ) % | SAMPLE | MATERIAL DESCRIPTION  | LITHOLOGY | USCS<br>WEATHERING | INTACT                                    | DEFECT                                    | ADDITIONAL DATA<br>AND<br>TEST RESULTS | SAMPLES<br>TESTS |           |
|-----------|-------------|---|--------------|--------|---|-----------|--------------------|---|---|--|------------------|-----------|
|           |             |   |              |        |   |           |                    | STRENGTH                                  | SPACING                                   |  |                  |           |
|           |             |   |              |        |   |           |                    | EH<br>_VH<br>_H<br>_M<br>_L<br>_VL<br>_EL | EC<br>_VC<br>_C<br>_M<br>_W<br>_VW<br>_EW |  |                  |           |
|           | 6.84        |   |              |        | Silty CLAY (Topsoil)<br>Dark brown, moist, very soft to soft.<br>Low to medium plasticity, organics.<br>CLAY trace sand (Alluvium)<br>Brown, moist, soft.<br>Medium plasticity.<br>1.00m: becomes stiff |           | (CI)               |   |   |  |                  |           |
| 1         |             |   |              | A      |   |           | (CI)               |   |   |  | 5, 6, 8<br>N=14  | SPT       |
| 2         | 5.24        |   |              | B      | Sandy CLAY (Alluvium)<br>Grey, moist, stiff.<br>Fine grained sand, low to medium plasticity.  |           | (CI)               |   |   |  | 3, 6, 6<br>N=12  | SPT       |
| 3         | 4.24        |   |              | C      | CLAY<br>(Estuarine) Dark grey, moist, very soft to soft.<br>Medium plasticity.  |           | (CI)               |   |   |  | <75µm= 88%       | SPT       |
| 4         | 3.54        |   |              | D      | SAND (Alluvium)<br>Grey, moist to wet, loose.<br>Fine to coarse grained. Trace silt.  |           |                    |   |   |  | hw, hw, 2<br>N=2 |           |
| 5         |             |   |              | E      | 5.00m: becomes loose to medium dense. Trace gravel.   |           | (SP)               |   |   |  | 3, 4, 5<br>N=9   | SPT       |
| 6         |             |   |              | F      | 6.00m: becomes medium dense.  |           |                    |   |   |  | 2, 4, 6<br>N=10  | SPT       |
| 7         | 0.64        |   |              | G      | Sandy CLAY (Alluvium)<br>Brown, moist, hard.<br>Fine grained sand, low plasticity.<br>7.00m: becomes stiff to very stiff  |           |                    |   |   | 7.00m-7.45m: No sample recovered       | 4, 6, 9<br>N=15  | SPT       |
| 8         |             |   |              | H      | 8.00m: becomes very stiff.  |           | (CL)               |   |   | 8.00m-8.45m: No sample recovered       | 4, 6, 11<br>N=17 | SPT       |
| 9         | -1.86       |   |              | I      | 8.90m: sand content increasing  |           |                    |   |   |  |                  |           |
|           | -2.36       |   | (39)         |        | GRANODIORITE (Kgwu)<br>XW: Recovered as dark brown, moist, very dense, silty sand.  |           | XW                 |   |   |  | 19, 30/50<br>hb  |           |
|           | -2.76       |   |              |        | GRANODIORITE (Kgwu)   |           | SW                 | VH  | C   | 9.60m: Rock roller refusal             | Is(50)=13.00 MPa | D (9.70m) |

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

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T.Goosey

S.Foley

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JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 12/10/2015 DRILLER Cairns Drilling

REMARKS: Kgwu = Wundaru Granodiorite

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# CORE PHOTO LOG

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