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ENGINEERING BOREHOLE LOG

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

BOREHOLE No __BH C76__

SHEET __1_ of __2_

REFERENCE No __H11151__

| | N Keefton Rd Underpass Abut A COORDINATES 470373.9 E; 7098008.6 | | | | | | | | | | . <u>6 N</u> | | |
|--|--|-------------|--------|--|-----------|-------------------|------------|---------------------------|-------------|---------------|--|--|---------------|
| | No <u>FG5799</u> SURFACE R.L. <u>63.50m</u> PLUNGE DATE STARTED <u>20//08/11</u> GRID DATUM <u>MGA94</u> | | | | | | | | | | | | |
| JOB No | <u>232/1</u> | <u>0A/2</u> | : | HEIGHT DATUM _AHD BEARING _ | | | DATE COMPI | LETED 2 | 0/08 | <u>/11</u> | DRILLER . | Drillsure Pty | <u>Ltd</u> |
| ВЕРТН (m) (m) | UGER ASING ASH BORING ORE DRILLING | RQD ()% | SAMPLE | MATERIAL DESCRIPTION | LITHOLOGY | USC WEATHERING | | DEFECT SPACING (mm) | GRAPHIC LOG | , | ADDITIONAL D AND TEST RESUL | | SAMPLES |
| 0 63.50 | ₹0≶0 | REC % | Ŝ | TOPSOIL: Grey. | 31 /g. | ≊ ≅ • | | 1111 | ΰ | | | | δ μ |
| 62.95 | | | | Gravelly SILT (Residual): Mottled grey/pale brown, dry. SANDSTONE (HW): | | (ML) | | | _ | Based or | n driller's logs only | | |
| 61.80 | | (34) | A | SANDSTONE (MW): Brown/grey, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 60° (1/m) | | MW | | | | J, 60°, P | I, T, Clnf, 2mms(50 I, O, Clnf, 10mm I, O, Clnf, 30mm I, O, Clnf, 5mm | . <u> </u> | SPT X |
| 22211631 | | 100 | | Defect spacing is generally close to medium. Defect surfaces are planar, tight or open, smooth to slightly rough, slightly clay infilled and iron stained. | | | | | | | CLy QZ seam |)) = 0.97MPa)) = 2.44MPa | × |
| Tool gilki Add-in 12/1 | | (45) | | SANDSTONE (SW): Grey/brown, fine grained, bedded, high to very high strength, indurated and/or slightly metamorphosed. Prominent siltstone interbeds throughout. Bedding dips at ~40°. | | | | | | BP, 40°, | DD = 2.56t/m ³ ; PI, O, Clnf, 5mm ^L | MC = 1.8%: | UCS |
| UPGRADE SECTION C.GPJ DWG48352.GDW Datgel CPT Tool glNt Add-In 12/12/2011 16:31 | | 100 (71) | | Defects: -Bedding parting at 40° (>5/m) -Joint at 60° (1/m) Defect spacing is generally medium. Defect sufaces are planar, tight or open, smooth to slightly rough, thinly clay infilled, iron stained. | | | | | | | Is(50 DD = 2.65t/m ³ ; | i) = 1.54MPa i) = 6.67MPa MC = 0.8%; CS=18.5MPa | x o UCS |
| V F 1 | | 100 (55) | | | | sw | | | | — J, 50°, Pl, | |) = 1.64MPa) = 5.51MPa | x o |
| HOLOGY F65799 - BRUC | | 100 | | | | | | | | ⊐-Clay Sear | Is(50) |) = 2.48MPa) = 7.88MPa i | X O |
| OLD DMR_LIB 01A.GLB Lug A. ENGINEERING BORE-HOLE LOG W LTHOLOGY F05799-BRUCE HWN | | (88) | | | | | | | | | | · | |
| OHAGIB LOG A ENGINE | | 100 (84) | | | | | | | | | | i = 2.89MPa = 12.26MPa | X O |
| - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | | | | | | | | | | – BP, 40°, P | I, Cinf, 3mm | | |
| 10 10 | | | | | | | | | \uparrow | - Brecciated | | | |
| REMARKS . | | | | | | | | | | _ | | GGED BY JA/DC | |



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C76

SHEET 2 of 2

REFERENCE No H11151

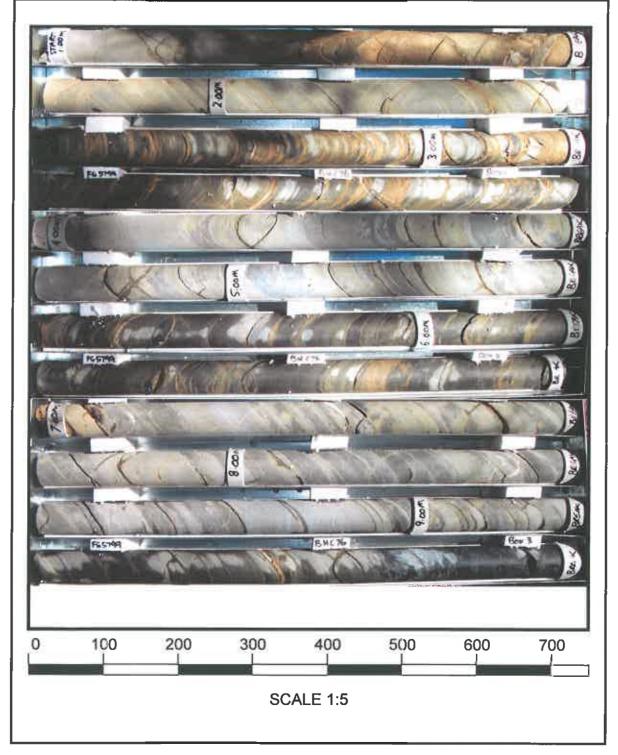
| PROJECT | Bruce | <u>Highw</u> | <u>⁄ay</u> L | Jpgrade (Cooroy to Curra) Sec | tion C | | | | | | | | | |
|--|--|---|------------------|---|----------|-------------------------|------------------------|-------------------------------|---------------------------|------------------|------------|------------------------------------|---|---------|
| LOCATION <u>Keefton Rd Und</u> | | | ا <u>nd</u> و | <u>lerpass Abut A </u> | | | COORDII | | | | OORDINATES | INATES 470373.9 E; 7098008.6 N | | |
| | | 9 <u>9</u> | | SURFACE R.L. <u>63.50m</u> | PLUNGE _ | DATE STARTED _20/08/11_ | | | <u>1/1</u> GRID | GRID DATUM MGA94 | | | | |
| JOB No <u>232/10A/2</u> | | - | HEIGHT DATUM AHD | HEIGHT DATUM <u>AHD</u> . BEARING DATE COMPLETED _2 | | 20/08 | <u>3/</u> 1 <u>1</u> . | RILLER | <u>Drillsure Pty</u> I | Ltd | | | | |
| R.L. (m) HEAH 10 53.50 | JGER ASING ASH BORIN DRE DRILLI | RQD ()% CORE REC% 100 (75) | SAMPLE | MATERIAL DESCRIPTIO SANDSTONE (SW): Cont'd | N | LITHOLOGY | USC | INTACT STRENGTH ボジェミュジロ | DEFECT SPACING (mm) | GRAPHIC LOG | TES | AND ST RESUL | | SAMPLES |
| -11 | | | | | | | sw | | | | | Thinly Clnf Thinly Clnf Is(5 Is(5) | 0) = 2.15MPa 0) = 2.99MPa 3; MC = 0.9%; CS=20.9MPa | × |
| -12 -12 -13 -14 -15 -16 -17 -18 | | 100 | | Borehole terminated at 11.48 | m | | | | | | | | CS=20.9MPa | |
| 20 REMARKS | | | | -11- | | | | <u> </u> | | | | | GGED BY | |

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3115 3035 Fax 07 3115 3011



CORE PHOTO LOG - BH C76

| Project Name: | BRUCE HIGHWAY UPGRADE - SECTION C | | | | | | |
|----------------|-----------------------------------|-------------------|-------|--|--|--|--|
| Project No.: | FG5799 | FG5799 Date: | | | | | |
| Details: | Keefton Rd | Start Depth (m): | 1.00 | | | | |
| Reference No.: | H11151 | Finish Depth (m): | 11.48 | | | | |





CORE PHOTO LOG = BH C76

| Project Name: | BRUCE HIGHWAY UPGRADE - SECTION C | | | | | |
|----------------|-----------------------------------|-------------------|------------|--|--|--|
| Project No.: | FG5799 | Date: | 08/09/2011 | | | |
| Details: | Keefton Rd | Start Depth (m): | 1.00 | | | |
| Reference No.: | H11151 | Finish Depth (m): | 11.48 | | | |

