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GEOTECHNICAL

21/07/2016

BOREHOLE No

M5 I1

| | | 3 | | | | ensland | | FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 | | | | Sheet | | | |
|--|-------------|-------|-----------------------------------|-----------------------|--------|--|---------------------------|---|--------------------|---------------------------|----------------------|-------------------------------------|---------------------|---|---------------------|
| | 1/3 | K. | You a | Go | V | ernment | | | | | | | REFERENCE No | 12577 | |
| PROJECT McCoskers/QAL Instrumentation Installation | | | | | | | | | | | | | | | |
| LOCAT | ION | R | RMD #1 M Section Chainage 3140.04 | | | | | | | | COORDINATES 328630.9 | coordinates 328630.9 E; 7354667.2 N | | | |
| PROJECT No | | F | FG6371 SUF | | | SURFACE RL | 18.54m | 4m PLUNGE 90° DATE STARTED 22/06 | | | RTED 22/06/201 | O16 GRID DATUM MGA94 Zone 56 | | | |
| JOB No | | | | | | height datum AHD | | BEARING ° | | DATE COMPLETED 22/06/2016 | | | | l Drilling | |
| | | П | | RQD | | | | LITHOLOGY USCS WEATHERING | | | | ADDITIONAL DATA | | | |
| DEPTH (m) | R.L. (m) | NUGER | WASH BORING SORE DRILLING | () % CORE REC % | SAMPLE | MATERIAL DESCRIPTION | | | USCS WEATHERING | INTACT STRENGTH | DEFECT SPACING | | AND TEST RESULTS | | SAMPLES TESTS |
| 1 2 3 3 5 5 6 6 7 7 7 7 9 | 15.54 | | 0.0.1 WM. | | C | Embankment Fill Red brown, moist, fir silty clayey GRAVEL. Coarse grained grave throughout. (based on driller's log RED MUD (Tailings) Recovered as: Clayey Red brown, moist, so Medium grained san Clayey SAND with gra Grey brown, moist, log Gravel layers through | sandy SILT ft to firm. d. | (1) 10 10 10 10 10 10 10 10 10 10 10 10 10 | GM (SC) | | | | | 30/110 2, 3, 3 N=6 1, 1, 2 N=3 MC=39.8% DC=1.84 t/m3 JC=1.88 t/m3 | SPT SPT SPT SPT SPT |
| - | | | | | | | | 7 | | | _ | | | | = |
| | | | 10 | | | Continued on n | | | | | | | | | |
| REMARKS: Inclinometer installed to base of hole. | | | | | | | | | | LOGGED BY REVIEWED BY | | | | | |
| TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI | | | | | | | | | BW/TH | - ON | N | | | | |
| | | | | | | | TMR G | EOTECH | INICAL BO | REHOLE LOG - CREATED V | VITH HOLEBASE SI | | | | |

Queensland Government

GEOTECHNICAL

21/07/2016 M5 I1 BOREHOLE No Sheet 2 of 4

BOREHOLE LOG FOR GEOTECHNICAL TERMS AND H12577 REFERENCE No. SYMBOLS REFER FORM F:GEOT 017/8-2014 McCoskers/QAL Instrumentation Installation PROJECT LOCATION RMD #1 M Section Chainage 3140.04 COORDINATES 328630.9 E; 7354667.2 N GRID DATUM MGA94 Zone 56 FG6371 PLUNGE 90° DATE STARTED 22/06/2016 PROJECT No SURFACE RL 18.54m BEARING ° DATE COMPLETED 22/06/2016 DRILLER Hinterland Drilling HEIGHT DATUM AHD JOB No RQD USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES DEPTH (MATERIAL DESCRIPTION CORE REC % 7.84 SPT Silty SAND with gravel (Fill) Dark grey, moist to wet, very loose. Medium grained gravel and trace organic matter. (SM) 6.54 RED MUD (Tailings) SPT Recovered as: Silty CLAY Red, moist to wet, very soft. Su(PP)=38 kPa MC=59.6% DD= 1 t/m3 WD= 1.58 t/m3 U50 SPT Su(PP)=25 kPa MC=69.2% DD= 0.96 t/m3 WD= 1.62 t/m3 U50 SPT Su(PP)=15 kPa MC=60% DD= 1.02 t/m3 WD= 1.62 t/m3 U50 Continued on next sheet REMARKS: Inclinometer installed to base of hole. LOGGED BY **REVIEWED BY** BW/TH TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

Queensland Government

GEOTECHNICAL BOREHOLE LOG

21/07/2016

BOREHOLE No M5 I1

Sheet 3 of 4

FOR GEOTECHNICAL TERMS AND H12577 REFERENCE No. SYMBOLS REFER FORM F:GEOT 017/8-2014 McCoskers/QAL Instrumentation Installation PROJECT LOCATION RMD #1 M Section Chainage 3140.04 COORDINATES 328630.9 E; 7354667.2 N GRID DATUM MGA94 Zone 56 FG6371 PLUNGE 90° DATE STARTED 22/06/2016 PROJECT No SURFACE RL 18.54m DATE COMPLETED 22/06/2016 HEIGHT DATUM AHD DRILLER Hinterland Drilling JOB No BEARING USCS WEATHERING ADDITIONAL DATA INTACT STRENGTH DEFECT LITHOLOGY SAMPLES AND TEST RESULTS DEPTH (R.L. MATERIAL DESCRIPTION CORE REC % 21 SPT -2.76 Clayey silty GRAVEL (Fill) Grey black, moist, loose. Medium grained gravel and shell (GM) fragments. -3.66 Sandy CLAY with gravel (Alluvial?) Pale grey, moist, very stiff. Medium grained quartz gravel. SPT Sample from bit only. 11, 30/100 R SPT -6.46 Silty CLAY with sand (Residual) Pale grey mottled yellow, moist, very stiff. High plasticity. Fine grained sand. SPT SPT (CH) Continued on next sheet Inclinometer installed to base of hole. **REVIEWED BY LOGGED BY** TRU BW/TH TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

STEER .

GEOTECHNICAL

21/07/2016 M5 I1 BOREHOLE No

| | | |) Q | ue | ensland | BOREHOLE LOG | | | | Sheet | | | | | |
|--|-------------|--|--|--------|----------------------|--------------|---|--|----------------------------------|-------------------|-----------|--------------------------------|------------------------------------|------------------|--|
| | | | G | VC | ernment | | FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 | | | | | REFERENCE No H12577 | | | |
| PROJECT McCoskers/QAL Instrumentation Installation | | | | | | | | | | | | | | | |
| LOCATI | ON | RMD #1 M Section Chainage 3140.04 COORDINATES 328630.9 E; 735466 | | | | | | | | | | | 57.2 N | | |
| PROJEC | T No | FG | 6371 | | SURFACE RI | _18.54m | m Plunge 90° Date Started 22/06/201 | | | | 22/06/201 | 16 GRID DATUM MGA94 Zone 56 | | | |
| JOB No | | | | | HEIGHT DATUM | AHD | BEARING * DATE COMPLETED 22/06/20 | | | | 22/06/201 | 16 DRILLER Hinterland Drilling | | | |
| | | П | RQE | | | | T | O | | | | ADDITIONAL DATA | | | |
| DЕРТН (m) | R.L. (m) | UGER ASING ASH BORING | ORE DRILLING NOS | SAMPLE | MATERIAL DESCRIPTION | | | USCS WEATHERING | INTACT STRENGTH 프子 프 및 국 립 | DEFECT SPACING | | AND TEST RESULTS | | SAMPLES TESTS | |
| 31 | -13.96 | CHERT? XW: Recovered as yellow brown, moist, stiff sandy silty clay. | | | | | | INTACT STRENGTH SPACING INTACT STRENGTH SPACI | | | | | 3, 5, 6 N=11 5, 5, 8 N=13 | SPT | |
| | | | | | | | | | | | | | | = | |
| | | | | | | | | | | | | | | | |
| REMARKS: Inclinometer installed to base of hole. | | | | | | | | | | | | LOGGED BY | | | |
| | | | | | | | | | | | | BW/TH | BW/TH DAN | | |
| | | | | | | TAAD | CLOTEC | INICAL DO | DEHOLE LOC CREATED IN | TH HOLEDASE SI | | | | 1 | |