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TMR.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY JINGI JINGI BH LOGS.GPJ <<DrawingFile>> Datgel CPT Tool glint Add-In 18/12/2014 13:31

ENGINEERING BOREHOLE LOG

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

| BOREHOLE No | BH04 |
|--------------|------------|
| SHEET | _1_ of _3_ |
| REFERENCE No | 11838 |

| PRO | JECT | _Jin | gi J | lingi Cree | ek Br | idgesite Investigation | | | | | | | |
|---|-------------|--------------------------------|-------------|-------------|--------|--|-----------|------------|------------|--|-------------|---------------------------------------|---------------|
| LOC | ATION | _Pie | <u>er 2</u> | - Right F | land | <u>Side</u> | | | | | СО | ORDINATES <u>287095.6 E; 7024279.</u> | 4 <u>N</u> |
| PRO | JECT N | o <u>F</u> G | 616 | <u> </u> | | SURFACE R.L. <u>315.44m</u> PLUNGE | | | | DATE STARTED 15 | 5/6/1 | 14 GRID DATUM MGA 94 Zone | <u> 56</u> |
| JOB | No | _22 | 2/18 | 3C/5 | | HEIGHT DATUM <u>AHD</u> BEARING | | | [| DATE COMPLETED 16 | 6/6/1 | DRILLER North Coast D | Drilling _ |
| o DEPTH (m) | R.L. (m) | AÚGER CASING MASH BORING | | RQD ()% | SAMPLE | MATERIAL DESCRIPTION | LITHOLOGY | USC | WEATHERING | INTACT DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
| | 315.04 | | | | | Silty CLAY (TOPSOIL) Dark grey black, moist, soft. Medium to low plasticity. Some sand, gravel and organic | | (CL CI) | | | | | - |
| - - - - - - - - - - | | | | | Α | matter. Silty CLAY (ALLUVIAL) Dark grey, moist, firm to stiff. High plasticity. Occasional organic matter. | | (CH | H) | ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± | | 1,1,4 N=5 | SPT : |
| - 2 - 2 | 312.84 | | | | В | | | | | <u> </u> | | 2,4,6 N=10 | SPT = |
| - - - 3 - - - - - | | | | | С | Sandy CLAY (ALLUVIAL) Grey brown, moist, stiff. Low plasticity. Fine grained sand. | | (CL | | | | 4,6,9 N=15 | SPT - |
| - 4 4 | 310.54 | | | | D | 4.00m becoming clayey dense sand. Fine to medium grained sand. | | | _/ | ± + + + + + | | 9,17,20 N=37 | SPT - |
| -5 - - - - - | | | | | Е | Silty SAND (ALLUVIAL) Brown, moist, medium dense to dense. Fine to medium grained sand. | | | | | | 11,24,22 N=46 | SPT = |
| - - - - - - - - - - - - - - - - - - - | 308.44 | | | | F | | | (SM | И) | ± ± ± + + | | 8,14,15 N=29 | SPT : |
| - ' | | | | | G | CLAYSTONE (J_Kk) XW: Recovered as mottled grey brown, yellow, moist, hard, silty gravelly clay. Medium plasticity. Fine gravel sized rock fragments. | | | | - + + + + + + + + + + + + + + + + + + + | | 15,27,30/100mm | SPT - |
| -8 - - - - - - | | | | | Н | | | ΧW | v | ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± | | 17,30/100mm | SPT _ |
| -9 - - - - - - - 10 | | | | | J | 9.00m some sand and high content of gravel sized rock fragments. | | | | † † † | | 25,30/90 | SPT - |
| R | EMARK | | | = Kumba | | Beds | neth | od r | requ | uirements. | | LOGGED BY MS | |
| | | _ | | | | | | | | | | | |



ENGINEERING BOREHOLE LOG

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

| BOREHOLE No | BH04 |
|--------------|------------|
| SHEET | _2_ of _3_ |
| REFERENCE No | 11838 |

| PROJECT | Jingi Jingi C | eek B | ridgesite Investigation | | | | | | | |
|----------------------------|--|---------|---|-----------|-------------------|--------------------|---------------------------|-------------|---|----------------------------|
| LOCATION | Pier 2 - Right Hand Side C | | | | | | | | ORDINATES <u>287095.6 E; 7024279</u> | <u>.4 N</u> |
| PROJECT No | FG6169 | | SURFACE R.L. <u>315.44m</u> PLUNGE _ | | | DATE S | TARTED 1 | 5/6/ | 14 GRID DATUM MGA 94 Zone | <u>e 56</u> |
| JOB No | 222/18C/5 | | HEIGHT DATUM <u>AHD</u> BEARING | | | DATE COM | IPLETED 1 | 6/6/ | DRILLER North Coast [| <u> Drilling</u> |
| R.L. (m) | AUGER CASING COASING COARE DRILLING ISOS SEC. () | MPLE | MATERIAL DESCRIPTION | LITHOLOGY | USC WEATHERING | INTACT STRENGTH | DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES |
| 10 303.44 | | K | CLAYSTONE (J_Kk) | | | | | | 10,17,30/130 | SPT - |
| - - - - - | | | XW: (Cont'd) Becoming pale grey cream. Minor gravel sized rock fragments. | | | | | | 10,17,30/130 | - - - - |
| 11 | | L | 11.00m Some coarse gravel. | | | | | | 24,30/70mm | SPT - |
| - - 12 - | | M | No gravel. | | XW | | | | 30/130 | SPT - |
| | | N | | | | | | | 30/120mm | SPT |
| - | | | | | | | | | | - - - - |
| - 14 14.20 301.24 | | Р | | | | | | | 30/140mm | SPT - |
| -15 | 100 (40) | | CLAYSTONE (J_Kk) HW: Pale grey cream, brown, fine grained, thickly bedded, extremely low to very low strength. Some zones of iron oxide precipitate. thin lenses of fine grained sandstone. Defects: - Js; 40° (1/m) - Js; 70° (1/m) Defects are generally irregular, rough, weathered with clay infill. | | HW XW HW | | | | Is(50) = 0.07MPa; * Is(50) = 0.04MPa; * 15.00m-15.76m: Dark brown iron oxide precipitate zone. 15.76m-15.85m: XW Claystone. Extremely low strength. | D (14.80m) A (14.85m) |
| | | | | | XW | | | | 16.15m-16.50m: XIII (SD) st00.07MPa; * -Extremely low Is(50) = 0.02MPa; * strength. | D (16.22m) A (16.26m)- |
| - 17 - 17 | 100 (90) | | | | XW HW XW | | | | Extremely low strength. 17.20m-17.30m: XW Claystone. Extremely low strength. | - - - - - - |
| 18 | 100 | | | | HW | | | | 16.90m-19.50m: 30-50% iron oxide precipitate. Is(50) = 0.06MPa; * Is(50) = 0.02MPa; * | D (18.56m)- A (18.60m) |
| 19 | (100 | | | | | | | | UCS=625kPa | UCS - |
| [20] | S <u>J_Kk = Kum</u> | harilla | I Beds | 旦 | | | | | LOGGED BY | |
| KEWAKK | | | n, the load cell used does not comply with the test | metho | od re | quirements. | | | MS | |



TMR.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY JINGI JINGI BH LOGS.GPJ <<DrawingFile>> Datgel CPT Tool glint Add-In 18/12/2014 13:31

ENGINEERING BOREHOLE LOG

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

| BOREHOLE No | BH04 |
|--------------|------------|
| SHEET | _3_ of _3_ |
| REFERENCE No | 11838 |

| PRO | ROJECT Jingi Jingi Creek Bridgesite Investigation | | | | | | | | | | | |
|--|--|---------------------------------|---------------|--------|---|-------------------|-----|------|---|-------------|---------------------------|-------------------------|
| LOC | DCATION <u>Pier 2 - Right Hand Side</u> COORDINATES <u>287095.6 E; 7024279.4 N</u> | | | | | | | | | | 4 N | |
| PRO | PROJECT No. <u>FG6169</u> SURFACE R.L <u>315.44m</u> PLUNGE DATE STA | | | | | | | | DATE STARTED _15 | 5/6/ | 14 GRID DATUM MGA 94 Zone | 56 |
| JOB No <u>222/18C/5</u> | | | | | HEIGHT DATUM <u>AHD</u> BEARING _ | | | | | | | |
| | R.L. (m) | ΩŞ | RQD | | | | | | INTACT DEFECT STRENGTH SPACING | (0 | ADDITIONAL DATA | |
| DEPTH (m) | (111) | R IG I BORING DRILLING | () // | | MATERIAL | 3 | | SING | STRENGTH SPACING (mm) ±5±≥3≥0000000000000000000000000000000000 | GRAPHIC LOG | AND | |
| <u> </u> | | NG HBG | | J.E | DESCRIPTION | 200 | | 삙 | | HIC | AND | PLES S |
| 20 | 295.44 | AUGI SASI WAS SORI | CORE REC % | SAMPLE | | <u> ГІТНОГОСУ</u> | JSC | WEA | EKKECKA PEKKETE | BRAI | TEST RESULTS | SAMPLES |
| 20.12 | 295.44 | | 100 | 0, | | Ē | - | | | | Is(50) = 0.07MPa: * | D |
| - | | | | | Borehole terminated at 20.12m | | | | | | Is(50) = 0.10MPa; * | A _(20.00m) - |
| | | | | | | | | | : : : : : : : : : : : : : : : : : : : | | | - |
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| 30 | | | | | | | | | | | | |
| | REMARK | S <u>J_Kk</u> | = Kumba | arilla | Beds | | _ | _ | | | LOGGED BY | |
| | | | | | n, the load cell used does not comply with the test | meth | nod | rec | quirements. | | MS | |
| i or this appointment, the load don does not comply with the test method requirements. | | | | | | | | | | - | | |