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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH02  
SHEET 1 of 2  
REFERENCE No 11836

PROJECT Jingi Jingi Creek Bridgesite Investigation  
LOCATION Abutment A - Right Hand Side COORDINATES 287112.0 E; 7024267.3 N  
PROJECT No FG6169 SURFACE R.L. 315.62m PLUNGE \_\_\_\_\_ DATE STARTED 23/6/14 GRID DATUM MGA 94 Zone 56  
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 24/6/14 DRILLER North Coast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	315.62					<b>Silty CLAY (TOPSOIL)</b> Dark brown black, moist, soft. Medium to low plasticity. Some sand, gravel and organic matter.	(CL-CI)						
0.40	315.22				A	<b>Silty CLAY (ALLUVIAL)</b> Dark grey, moist, stiff to very stiff. High plasticity. Occasional organic matter.	(CH)					3,6,6 N=12; LL = 67; PI = 43; LS = 17.6; %Pass 2.36mm = 100 %Pass 0.075mm = 82	SPT
1					B							3,6,10 N=16; LL = 60; PI = 35; LS = 17; %Pass 2.36mm = 100 %Pass 0.075mm = 77	SPT
2													
2.70	312.92				C	<b>Sandy CLAY (ALLUVIAL)</b> Grey brown, moist, very stiff to hard. Low plasticity. Fine grained sand.	(CL)					7,12,13 N=25	SPT
3													
4					D							10,18,12 N=30	SPT
4.50	311.12				E	<b>Clayey SAND (ALLUVIAL)</b> Grey brown, moist, dense to very dense. Fine to medium grained sand.	(SC)					16,28,29 N=57	SPT
5					F							14,17,26 N=43	SPT
6						6.50m becoming medium to coarse grained sand.							
7	308.42				G	<b>CLAYSTONE (J_Kk)</b> XW: Recovered as grey brown, yellow, moist, hard, silty clay. Mainly low to medium plasticity.						14,25,30/130mm	SPT
8					H							17,24,30/110mm	SPT
9					J							14,22,30/110mm	SPT
10													

REMARKS J\_Kk = Kumbarilla Beds

\* For this specimen, the load cell used does not comply with the test method requirements.

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10	305.62				K	CLAYSTONE (J_Kk) XW: (Cont'd)						10,19,30/140mm	SPT
11					L	10.50m colour becoming pale grey, mottled yellow brown. Minor gravel. Colour change to pale grey creamy white.						16,28,30/110mm	SPT
12					M	Becoming pale grey, mottled yellow brown. Minor sand and gravel.						26,30/110mm	SPT
13					N	Colour change to pale grey creamy white.						25,30/70mm	SPT
14					P							26,30/80mm	SPT
15					Q	Becoming mainly intermediate plasticity. Some occasional gravel.						20,30/100mm	SPT
16					R							12,30/130mm	SPT
17			(30)	100 (42)		16.30m Yellow, cream dark brown patches, dry, hard. Low plasticity. With minor iron oxide precipitate.		HW				16.35m-16.50m: HW Claystone. Low strength with dark brown iron oxide precipitate. 16.80m-17.00m: HW Claystone. Low strength with dark brown iron oxide precipitate.	D <sub>(16.65m)</sub> A <sub>(16.69m)</sub>
18			100 (0)			Colour change to white pale grey.		HW				17.60m-18.20m: HW Claystone. Very low to low strength with dark brown iron oxide precipitate.	UCS
19								XW				Is(50) = 0.02MPa; * Is(50) = 0.01MPa; *	D <sub>(18.50m)</sub> A <sub>(18.54m)</sub>
19.30	296.32		100			Borehole terminated at 19.3m.		HW				19.20m-19.30m: HW Claystone. Very low to low strength. Is(50) = 0.06MPa; * Is(50) = 0.03MPa; *	D <sub>(19.25m)</sub> A <sub>(19.30m)</sub>
20													

REMARKS J\_Kk = Kumbarilla Beds

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