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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH05

SHEET 1 of 2

REFERENCE No 11839

PROJECT Jingi Jingi Creek Bridgesite Investigation

LOCATION Pier 4 - Left Hand Side COORDINATES 287073.6 E; 7024282.5 N

PROJECT No FG6169 SURFACE R.L. 315.37m PLUNGE          DATE STARTED 23/7/14 GRID DATUM MGA 94 Zone 56

JOB No 222/18C/5 HEIGHT DATUM AHD BEARING          DATE COMPLETED 23/7/14 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	315.37												
0.40	314.97					<b>Silty CLAY (TOPSOIL)</b> Dark grey black, moist, soft. Medium to low plasticity. Some sand, gravel and organic matter.	(CL-CI)						
1					A	<b>Silty CLAY (ALLUVIAL)</b> Dark grey, moist, very stiff to hard. Medium to mainly high plasticity. Occasional organic matter.	(CI-CH)					4,9,10 N=19	SPT
2					B							4,10,24 N=34	SPT
2.60	312.77					<b>Sandy CLAY (ALLUVIAL)</b> Grey brown, moist, hard. Mainly low to medium plasticity.	(CL-CI)					8,15,20 N=35	SPT
3					C								
3.60	311.77					<b>Clayey SAND (ALLUVIAL)</b> Pale grey brown, moist, dense. Fine to coarse grained sand. Trace fine gravel.	(CL-CI)					17,24,25 N=49	SPT
4					D								
5					E		(SC)					13,17,18 N=35	SPT
6					F	6.00m becoming clayey gravelly sand. Some fine gravel.						11,23,13 N=36	SPT
6.90	308.47					<b>Silty CLAY (ALLUVIAL)</b> Dark brown, moist, hard. Low plasticity. Some fine gravel.	(CL)					20,24,30/140mm	SPT
7					G								
7.90	307.47					<b>CLAYSTONE (J_Kk)</b> <b>XW:</b> Recovered as pale grey, white, pale brown, moist, hard, silty clay. Low to medium plasticity. Some fine gravel sized HW rock fragments.						13,24,30/140mm	SPT
8					H								
9					J		XW					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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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
10	305.37				K	CLAYSTONE (J_Kk) XW: (Cont'd)							30/100	SPT
11					L	11.00m colour change to white pale grey.			XW				18,30/110	SPT
			(0)										Is(50) = 0.04MPa; * Is(50) = 0.03MPa; *	D (11.50m) A (11.54m)
12			100	(50)										
12.35	303.02													
13	302.22					CLAYSTONE (J_Kk) HW: Yellow white, fine grained, thickly bedded, extremely low to very low strength.			HW				UCS=145kPa	UCS
13.15			100	(0)		CLAYSTONE (J_Kk) XW: Recovered as yellow, white, grey-dark brown patches, dry, hard, silty clay. Low plasticity. Some dark brown precipitated iron oxide patches. Occasional HW zones. 13.30m low plasticity.			XW				Is(50) = 0.04MPa; * Is(50) = 0.03MPa; *	D (13.94m) A (14.00m)
14			100	(10)					XW					
15			100	(10)					HW				15.30m-15.45m: HW Claystone. Very low to low strength. Is(50) = 0.05MPa; * Is(50) = 0.02MPa; *	D (15.55m) A (15.59m)
16			100	(16)					XW					
17	298.07		100						HW				17.15m-17.30m: HW Claystone. Very low to low strength. Is(50) = 0.05MPa; * Is(50) = 0.02MPa; *	D (17.25m) A (17.29m)
17.30						Borehole terminated at 17.3m.								
18														
19														
20														

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