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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH17

SHEET 1 of 3

REFERENCE No 11851

PROJECT Jingi Jingi Creek Bridgesite Investigation

LOCATION Pier 16 - Left Hand Side COORDINATES 286975.3 E; 7024351.8 N

PROJECT No FG6169 SURFACE R.L. 315.46m PLUNGE DATE STARTED 8/7/14 GRID DATUM MGA 94 Zone 56

JOB No 222/18C/5 HEIGHT DATUM AHD BEARING DATE COMPLETED 8/7/14 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	315.46												
0.40	315.06					Silty CLAY (TOPSOIL) Dark grey black, moist, soft. Low plasticity. Some sand, gravel and organic matter.	(CL)						
1					A	Silty CLAY (ALLUVIAL) Dark grey, moist, firm to stiff. High plasticity. Trace organics.	(CH)					2,3,4 N=7	SPT
2					B							2,4,8 N=12	SPT
2.50	312.96					Clayey SAND (ALLUVIAL) Grey brown, moist, medium dense to dense. Fine to medium grained sand. Trace gravel. High clay content.	(SC)					9,11,14 N=25	SPT
3					C							11,16,20 N=36	SPT
4					D							9,11,14 N=25	SPT
4.80	310.66					Silty CLAY (ALLUVIAL) Dark brown, moist, very stiff. Low plasticity.	(CL)					17,22,27 N=49	SPT
5					E							6,13,18 N=31	SPT
5.70	309.76					Clayey SAND (ALLUVIAL) Grey brown, moist, dense. Mainly fine to medium grained sand.	(SC)					8,11,20 N=31	SPT
6					F							13,21,30/170mm	SPT
7					G								
7.50	307.96					Silty CLAY (ALLUVIAL) Dark brown, moist, hard. Low plasticity. Trace gravel.	(CL)						
8					H								
8.60	306.86					CLAYSTONE (J_Kk) XW: Recovered as white, pale grey, moist, hard, silty clay. Low plasticity. 9.00m: Dark brown, yellow patches.	XW						
9					J								
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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BOREHOLE No BH17
SHEET 2 of 3
REFERENCE No 11851

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 16 - Left Hand Side COORDINATES 286975.3 E; 7024351.8 N
PROJECT No FG6169 SURFACE R.L. 315.46m PLUNGE _____ DATE STARTED 8/7/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 8/7/14 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
10	305.46				K	CLAYSTONE (J_Kk) XW: (Cont'd)							14,24,30/90mm	SPT
11					L								11,19,28 N=47	SPT
12					M								14,16,21 N=37	SPT
13					N		XW						13,30/140mm	SPT
14					P								30/140mm	SPT
15	300.26				Q	15.00m: Colour change to pale grey, cream.							30/90mm	SPT
16			(75)			CLAYSTONE (J_Kk) HW: White, pale grey with dark brown patches, fine grained, thickly bedded, very low strength. Some dark brown patches of iron oxide precipitate. Occasional XW Claystone zones.	HW						Is(50) = 0.05MPa; * Is(50) = 0.03MPa; *	D (15.30m) A (15.36m)
17			(82)			Defects: - Js: 30°-40° (1/m); Defects are generally planar, rough, weathered and clay infilled.	XW						16.60m-16.80m: XW Claystone. Extremely low strength.	
18			100 (96)				HW							
19	297.01		100 (23)			CLAYSTONE (J_Kk) XW: Recovered as white, pale grey, dark brown patches, dry, hard, silty clay. Low plasticity. Some dark brown patches of iron oxide precipitate.	XW						UCS=1063kPa	UCS
20							HW						19.30m-19.70m: HW Claystone. Very low strength.	
							XW							

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LOCATION Pier 16 - Left Hand Side COORDINATES 286975.3 E; 7024351.8 N

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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
20	295.46													
				(12)		CLAYSTONE (J_Kk) XW: (Cont'd)			HW				20.05m-20.20m: HW Claystone. Very low strength. Is(50) = 0.03MPa; * Is(50) = 0.02MPa; *	D (20.18m) A (20.22m)
21	294.26			100					XW				Is(50) = 0.05MPa; * Is(50) = 0.03MPa; *	D (21.10m) A (21.14m)
21.20						Borehole terminated at 21.2m. .								
22														
23														
24														
25														
26														
27														
28														
29														
30														

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