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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH16
SHEET 1 of 3
REFERENCE No 11850

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 14 - Right Hand Side COORDINATES 286997.5 E; 7024348.7 N
PROJECT No FG6169 SURFACE R.L. 315.44m PLUNGE _____ DATE STARTED 11/7/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 11/7/14 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	315.44												
0.40	315.04					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, stiff. High plasticity.	(CH)					2,3,5 N=8	SPT
2					B							3,6,8 N=14	SPT
2.80	312.64				C	Sandy CLAY (ALLUVIAL) Grey brown, moist, very stiff. Low plasticity.	(CL)					8,8,15 N=23	SPT
3.90	311.54				D	Clayey SAND (ALLUVIAL) Grey brown, moist, dense. Fine to coarse grained sand.						13,18,29 N=47	SPT
5					E	5.00m becoming fine grained sand.						8,17,22 N=39	SPT
6					F		(SC)					13,18,24 N=42	SPT
7					G	7.00m becoming fine to medium grained sand.						13,11,21 N=32	SPT
8.20	307.24				H	8.00m becoming fine to coarse grained sand with some fine gravel.						15,10,12 N=22	SPT
9					J	Silty CLAY (ALLUVIAL) Dark brown, moist, very stiff. Low plasticity.	(CL)					6,8,11 N=19	SPT
9.70	305.74												
10						CLAYSTONE (J_Kk) XW:	XW						

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 BH16
SHEET 2 of 3
REFERENCE No 11850

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 14 - Right Hand Side COORDINATES 286997.5 E; 7024348.7 N
PROJECT No FG6169 SURFACE R.L. 315.44m PLUNGE _____ DATE STARTED 11/7/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 11/7/14 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	305.44													
11					K	CLAYSTONE (J_Kk) XW: Recovered as pale grey, white, moist, hard, silty clay. Low plasticity.							13,23,30/120mm	SPT
12					L								12,19,27 N=46	SPT
13					M								13,20,29 N=49	SPT
14					N								16,30/140mm	SPT
15					P								8,18,27 N=45	SPT
16					Q	15.00m some dark brown patches of iron oxide precipitate.							18/130mm	SPT
17					R								14,24,30/110mm	SPT
18					S								10,21,30/110mm	SPT
19					(100)	17.50m some zones of HW claystone and patches of iron oxide precipitate.							Is(50) = 0.04MPa; * Is(50) = 0.02MPa; *	D (18.10m) A (18.14m)
20					100 (16)								18.55m-18.85m: HW Claystone. Very low strength. Dark brown iron oxide precipitate.	
													UCS=201kPa 19.65m-20.10m: HW Claystone. Very low strength.	UCS

REMARKS J_Kk = Kumbarilla Beds

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BOREHOLE No BH16
SHEET 3 of 3
REFERENCE No 11850

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 14 - Right Hand Side COORDINATES 286997.5 E; 7024348.7 N
PROJECT No FG6169 SURFACE R.L. 315.44m PLUNGE _____ DATE STARTED 11/7/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 11/7/14 DRILLER North Coast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	295.44		100 (16)		CLAYSTONE (J_Kk) XW: (Cont'd) Some patches of iron oxide precipitate.						Is(50) = 0.03MPa; * Is(50) = 0.01MPa; *	D (20.20m) A (20.24m)
21	294.34		100 (84)		CLAYSTONE (J_Kk) HW: Pale grey, dark brown patches, fine grained, medium to thickly bedded, very low strength. Defects: - Js; 50° (1/m) - BP; 20° (1/m) Defects are generally planar, rough, weathered and clay infilled.							
22			100 (100)									
22.90	292.54		100								Is(50) = 0.04MPa; *	D (22.80m)
23					Borehole terminated at 22.9m. .							
24												
25												
26												
27												
28												
29												
30												

REMARKS J_Kk = Kumbarilla Beds

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