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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH10**

Sheet 1 of 4

REFERENCE No **H12969**

PROJECT Boyne River Bridge Repalcement
 LOCATION Pier 4, RHS COORDINATES 323435.1 E; 7159875.8 N
 PROJECT No FG6482 SURFACE RL 114.05m PLUNGE 90° DATE STARTED 02/09/2017 GRID DATUM MGA Z56
 JOB No 249/435/375550 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 04/09/2017 DRILLER NorthCoast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
1				A	Gravelly SAND with Cobbles (Alluvium) Yellow, brown and grey, wet, loose to medium dense. Fine to coarse grained sand, fine to medium grained gravel, with some coarse grained gravel and cobbles. Trace silt. Some grey clayey sand layers.	(SW)					1, 1, 5 N=6 SPT
2				B							1, 9, 9 N=18 SPT
3				C							6, 7, 6 N=13 SPT
4				D							8, 10, 11 N=21 SPT
5	109.25			E	Sandy GRAVEL with Silt (Alluvium) Grey and brown grey, moist, medium dense. Fine to medium grained gravel, medium to coarse grained sand.	(GW-GM)					5, 9, 14 N=23 SPT
6	108.55			F	Gravelly SAND (Alluvium) Brown grey, moist, medium dense. Fine to coarse grained sand, fine to medium grained gravel with silt and clay. From 7.00m: Trace clay, dense.	(SW-SM)					6, 12, 14 N=26 SPT
7				G							13, 16, 26 N=42 SPT
8	105.80			H	Silty CLAY (Residual) Brown pale grey and purple brown, moist, hard, medium plasticity.	(CI)					5, 16, 20 N=36 SPT
9	105.05			I	SANDSTONE (Je1) XW: Recovered as Sandy Clay. moist, hard. Grey brown and purple brown, fine grained, very low strength.	XW					18, 30/100mm SPT
10	104.05										

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REMARKS: Je1 - Evergreen Formation. Hole offset due to flowing river channel.

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M. Hayes	S. Foley



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BOREHOLE No **BH10**

Sheet 2 of 4

REFERENCE No **H12969**

PROJECT	Boyne River Bridge Repalcement		
LOCATION	Pier 4, RHS	COORDINATES 323435.1 E; 7159875.8 N	
PROJECT No	FG6482	SURFACE RL 114.05m	PLUNGE 90°
			DATE STARTED 02/09/2017
			GRID DATUM MGA Z56
JOB No	249/435/375550	HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 04/09/2017
			DRILLER NorthCoast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
													EH
10.00					J	SANDSTONE (Je1) XW: Cont'd.		XW			8, 26, 30/100mm	SPT	
11.00	102.85		(20)		K	SANDSTONE (Je1) XW: Yellow brown and red brown, fine grained, indistinct bedded, mainly extremely low strength. Defects overprinted by pervasive weathering. -Js 5°-10° (5-10/m), Pl/Ro, Cly Ct		HW XW MW XW MW		11.20m: Petrographic report 11.30m-11.34m: XW	30/50mm hb	SPT	
13.00			100 (5)			From 13.8m: Becoming grey brown, possible shear zone		XW			Is(50)=4.30 MPa Is(50)=5.50 MPa	D (12.17m) A (12.18m)	
14.00								XW			Is(50)=0.04 MPa Is(50)=0.02 MPa	D (13.45m) A (13.47m)	
15.00	99.40		93 (30)			SANDSTONE (Je1) HW: Yellow brown and grey, fine to medium grained, bedding indistinct, extremely low to very low strength. - BP: 15°-20° (2/m) Pl/Ro, TI, Cly Vr 16.00 Light grey. 16.95 Yellow brown.		HW XW		14.65m-14.70m: HW 15.00m: J 50°, Un/Ro, 50mm fragmented zone.	Is(50)=0.17 MPa Is(50)=0.07 MPa	D (15.40m) A (15.42m)	
17.00			73 (30)					HW MW XW			Is(50)=1.10 MPa Is(50)=0.54 MPa	D (17.57m) A (17.59m)	
18.00	96.75					SANDSTONE (Je1) MW: Pale grey, fine to medium grained, thinly bedded, low to medium strength. -J 0°-5° (1-2/m), Pl/Ro, partially drill induced. - BP: 20°-25° (5/m), Pl/Ro, TI, Cly Vr From 18.30: Very low to low strength.		HW MW XW MW			Is(50)=0.27 MPa Is(50)=0.51 MPa	D (18.25m) A (18.26m)	
19.00			100 (50)					XW MW		19.10m-19.15m: XW 19.15m-19.20m: SW			
19.00	94.05		100 (50)					XW MW			Is(50)=1.70 MPa Is(50)=0.49 MPa	D (19.65m) A (19.67m)	
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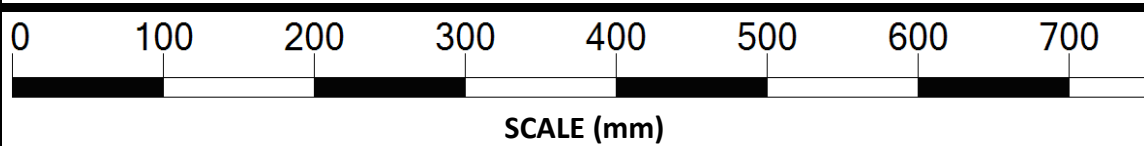
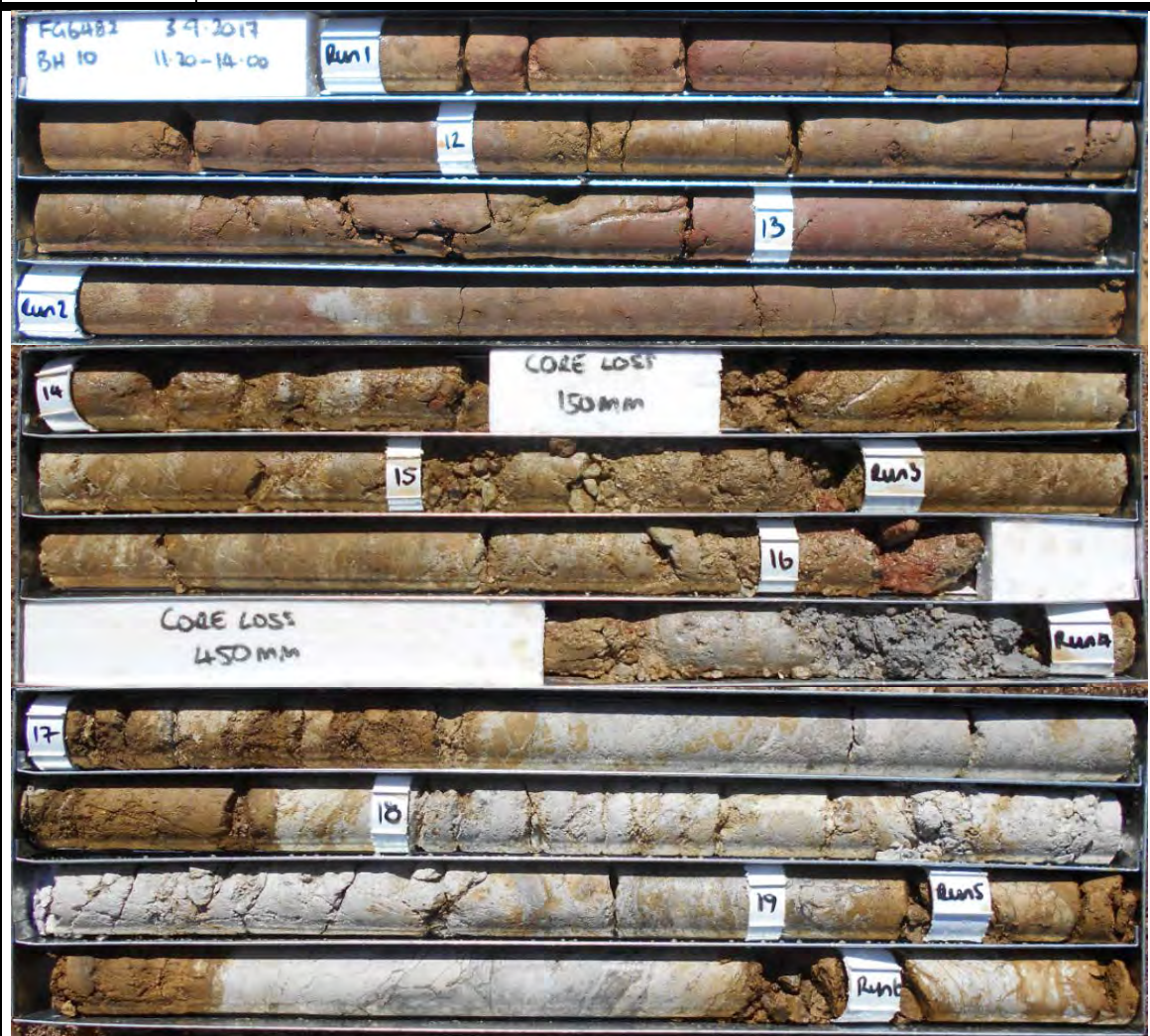
REMARKS: Je1 - Evergreen Formation. Hole offset due to flowing river channel.

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 GEOTECHNICAL SECTION



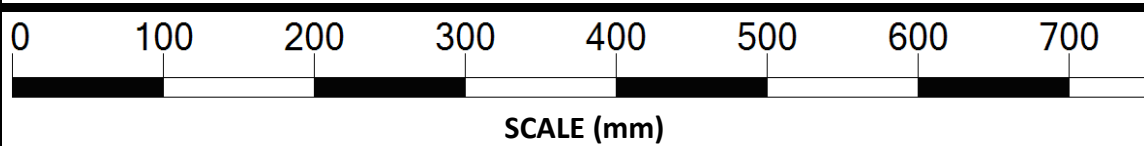
Project Name	Boyne River Bridge Replacement		
Project No.	FG6482	Date	04/09/17
Borehole No.	BH10	Reference No.	H12969
Location	Pier 4, RHS	Start Depth (m)	11.20
Submitted By	M. de Gee	Finish Depth (m)	35.55
Remarks			



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