

Borrisbeg Grid Connection

Appendix 7-2 Borehole Logs

IE002700
Borrisbeg Grid
Connection
F
18.09.2025

Petersen Drilling Services Ltd.				on behalf of				Hydro Environmental				Rotary Drilling Log																	
Depth of Stratum Top (m)	Driller's Stratum Description			Sample / Hole / Test Details					Drilling Details				Standard Penetration Test																
				No	Type	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)				
0.00	Firm brown silty TOPSOIL				RO		0.00	24.50		0000		100	grey															0.00	0.00
0.30	Firm brown silty gravelly CLAY [BOULDER CLAY]																												
0.70	Soft dark brown PEAT																												
1.50	Loose grey gravelly SAND																												
5.30	Firm grey very sandy gravelly CLAY																												
8.80	Strong dark grey LIMESTONE rare fractures																												
Shift details				Drilling Equipment Details												Ground Water Record										Backfill (m)			
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit Type	Casing Type	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)		
1410				C	140.00	0.00	9.50					Sim. Casing				1505	2.00	2.00	Medium	0.00	0.00	0.00	0.00	5.50					
				RO	154.00	0.00	9.50				DTH Button Bit		115	Air	No														
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	RO	120.00	9.50	24.50				DTH Button Bit			Air	No	1640	18.00	9.50	Seepage	0.00	0.00	0.00	0.00	N/S					
1715	24.50	0.00	9.50																										
Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks										SPT I.D. Number	PD1	Calibration Date	01/02/2021	Project Title Borrisbeg WF													
1410		CAT Scanned: Yes										SPT Rod Type	2 3/8 Regular	SPT Energy Ratio	0.00														
1410		Permit Completed: Yes										Drilling Crew Details			CSCS No														
												Support Operative	John Whyte		Weather													Variable	
												Lead Driller	Stephan Petersen			Date	10/07/2023		Day	Monday									
												Site category	Green			Rig type	Knebel HY79		Borehole Number										
												Project Engineer	J Law			Inclination		Orientation		BH ' 2									
												Lead Driller's signature				Sheet	1 of 2		Completed	Y									





Petersen Drilling Services Ltd.				on behalf of				Hydro Environmental				Rotary Drilling Log																	
Depth of Stratum Top (m)	Driller's Stratum Description			Sample / Hole / Test Details					Drilling Details				Standard Penetration Test																
				No	Type	Insitu test	From (m)	To (m)	Liner Dia (mm)	Core run time (hhmm)	Total core Recovery (m)	Flush Return %	Flush Colour	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water/ flush level (m)				
0.00	Firm brown silty TOPSOIL				RO		0.00	12.00				0000		100	grey													0.00	0.00
0.30	Soft to firm grey sandy silty CLAY becoming gravelly																												
4.80	Medium strong to Strong dark grey LIMESTONE occasional fractures																												

Shift details				Drilling Equipment Details												Ground Water Record										Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Open Hole (RO) Coring (RC)	Dia. (mm)	From (m)	To (m)	Barrel	Liner Type	Core Dia (mm)	Bit Type	Casing Type	Bit serial No	Flush	Polymer	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)	
1140				C	140.00	0.00	5.20					Sim. Casing					1340	5.50	5.20	Fast	0.50	0.50	0.00	0.00	N/S			
				RO	154.00	0.00	5.20				DTH Button Bit		115	Air	No													
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	RO	120.00	5.20	12.00				DTH Button Bit			Air	No													
1625																												

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks	SPT I.D. Number	PD1	Calibration Date	01/02/2021	Project Title Borrisbeg WF				
1140	0030	CAT Scanned: Yes	SPT Rod Type	2 3/8 Regular	SPT Energy Ratio	0.00					
1140		Permit Completed: Yes	Drilling Crew Details			CSCS No					
1525		Dayworks: Airlift development of well	Support Operative	John Whyte		Weather	Variable		Project No	30/23	
				Lead Driller	Stephan Petersen		Date	11/07/2023		Day	Tuesday
			Site category	Green			Rig type	Knebel HY79		Borehole Number	
			Project Engineer	J Law			Inclination		Orientation		BH 3
			Lead Driller's signature				Sheet	1 of 1		Completed	Y

