

Appendix 8-1 - Site Investigation Report



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Ground Investigations Ireland

Cloghercor Wind Farm

Tobins

Ground Investigation Report

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Ground Investigations Ireland Ltd. present the results of the fieldworks and laboratory testing in accordance with the specification and related documents provided by or on behalf of the client. The possibility of variation in the ground and/or groundwater conditions between or below exploratory locations or due to the investigation techniques employed must be taken into account when this report and the appendices inform designs or decisions where such variation may be considered relevant. Ground and/or groundwater conditions may vary due to seasonal, man-made or other activities not apparent during the fieldworks and no responsibility can be taken for such variation. The data presented and the recommendations included in this report and associated appendices are intended for the use of the client and the client's geotechnical representative only and any duty of care to others is excluded unless approved in writing.





GROUND INVESTIGATIONS IRELAND

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1.0 Preamble

On the instructions of Tobins Consulting Engineers, a site investigation was carried out by Ground Investigations Ireland Ltd., between June and October at the site of the proposed Wind Farm in Cloghercor Co. Donegal.

2.0 Overview

2.1. Background

It is proposed to construct a new Wind Farm with associated services, access roads and car parking at the proposed site. The site is currently greenfield and peatlands and is situated to the south of the Gweebarra River. The proposed construction is envisaged to consist of conventional foundations and pavement make up with some local excavations for services and plant.

2.2. Purpose and Scope

The purpose of the site investigation was to investigate subsurface conditions utilising a variety of investigative methods in accordance with the project specification. The scope of the work undertaken for this project included the following:

- Visit project site to observe existing conditions
- Carry out 21 No. Trial Pits to a maximum depth of 3.0m BGL
- Carry out 23 No. Russian Sampler locations to recover peat samples (Gouge Samples)
- Carry out 141 No. Peat Probes to determine soil strength/density characteristics
- Carry out 2 No. Rotary Core Boreholes to a maximum depth of 10m BGL
- Geotechnical & Environmental Laboratory testing
- Report with recommendations

3.0 Subsurface Exploration

3.1. General

During the ground investigation a programme of intrusive investigation specified by the Consulting Engineer was undertaken to determine the sub surface conditions at the proposed site. Regular sampling and insitu testing was undertaken in the exploratory holes to facilitate the geotechnical descriptions and to enable laboratory testing to be carried out on the soil samples recovered during excavation and drilling.

The procedures used in this site investigation are in accordance with Eurocode 7 Part 2: Ground Investigation and testing (ISEN 1997 – 2:2007) and B.S. 5930:2015.

3.2. Trial Pits

The trial pits were excavated using a 13T tracked Bogmaster excavator at the locations shown in the exploratory hole location plan in Appendix 1. The locations were checked using a CAT scan to minimise the potential for encountering services during the excavation. The trial pits were sampled, logged and photographed by a Geotechnical Engineer/Engineering Geologist prior to backfilling with arisings. Notes were made of any services, inclusions, pit stability, groundwater encountered and the characteristics of the strata encountered and are presented on the trial pit logs which are provided in Appendix 2 of this Report.

3.3. Russian Sampler (Gouge Samples)

The Russian Peat Sampler is designed to collect samples at different depths in sediment and wet soils. Designed to take samples below the groundwater level the side filling chamber is inserted into the ground in the closed position and, once the target depth is reached, the handle is turned to capture your sample and closed again. The samples were logged and are provided in Appendix 3 of this Report.

3.4. Peat Probing

The peat probing was carried out in selected locations shown in the exploratory hole location plan in Appendix 1. These probes were carried out with ridged plastic rods pushed into the peat with a T bar handle on the top to apply downward pressure and to assist in withdrawing the apparatus. Additional sections could be added to allow the probes to extend to the base of any soft deposits. The soakaway test results are provided in Appendix 4 of this Report.

3.5. Rotary Boreholes

The rotary coring was carried out by a track mounted T44 Beretta rig at the locations shown on the location plan in Appendix 1. The rotary boreholes were completed from the ground surface or alternatively, where noted on the individual borehole log, from the base of the cable percussion borehole where a temporary liner was installed to facilitate follow-on rotary coring.

The T44 Beretta is equipped with rubber tracks which allow for short travel on pavement surfaces avoiding any damage to the surface. The T44 Beretta utilises a triple tube core barrel system operated using a wireline drilling process. The outer barrel is rotated by the drill rods and at its lower end, carries the coring bit. The inner barrel is mounted on a swivel so that it does not rotate during the process. The third barrel or liner is placed within the second one to retain the core intact and to preserve as much as possible the fabric of the drilling stratum. The core is cut by the coring bit and passes to the inner liner. The core is brought up to the surface within the inner barrel on a small diameter wire rope or line attached to the "overshoot" recovery tool which is then placed into a core box in order of recovery. A drilling fluid, typically air mist or water flush is passed from the surface through hollow drill rods to the drill bit and is used to cool the drill bit. Temporary casing is used in some situations to support unstable ground or to seal off fissures or voids. It should be noted that the rotary coring can only achieve limited recovery in overburden, particularly granular or weakly cemented strata due to the flushing medium washing away the cohesive fraction during

coring. The recovery achieved, where required is noted on the borehole logs and core photographs are provided to allow assessment of the core recovered. The rotary borehole logs are provided in Appendix 5 of this Report.

3.6. Surveying

The exploratory hole locations have been recorded using a KQ GEO Technologies KQ-M8 System which records the coordinates and elevation of the locations to ITM or Irish National Grid as required by the project specification. The coordinates and elevations are provided on the exploratory hole logs in the appendices of this Report.

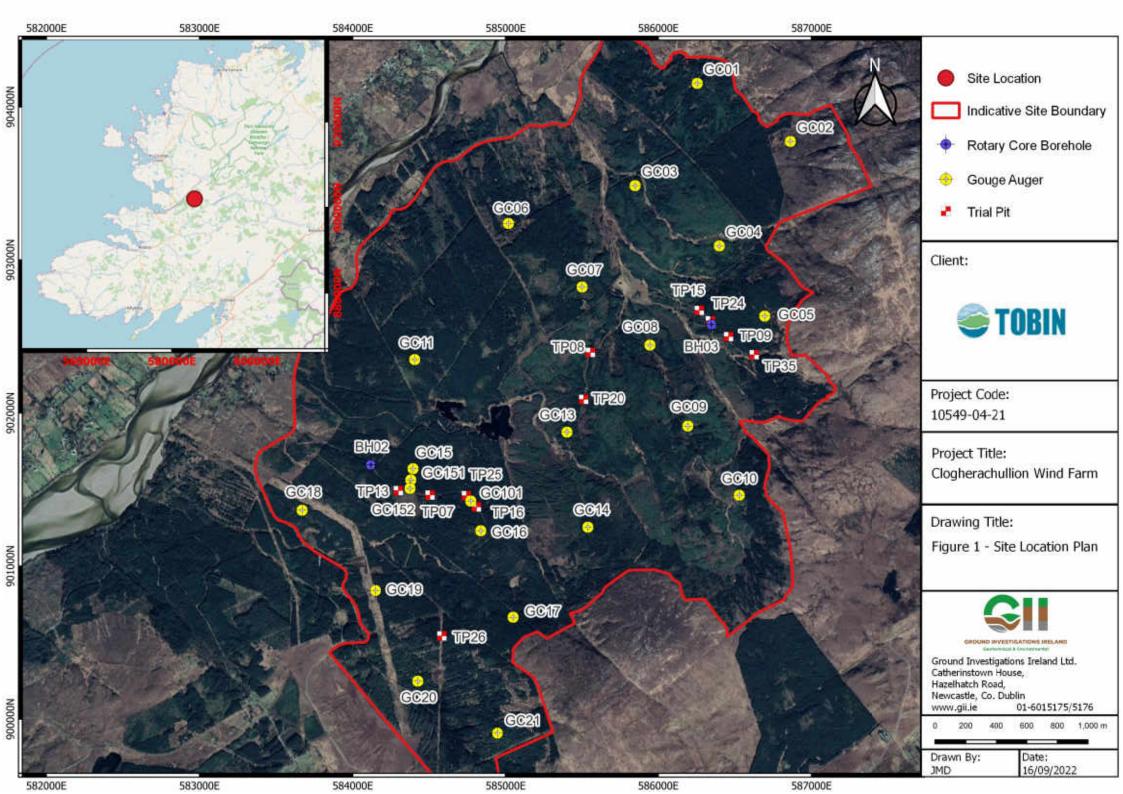
3.7. Laboratory Testing

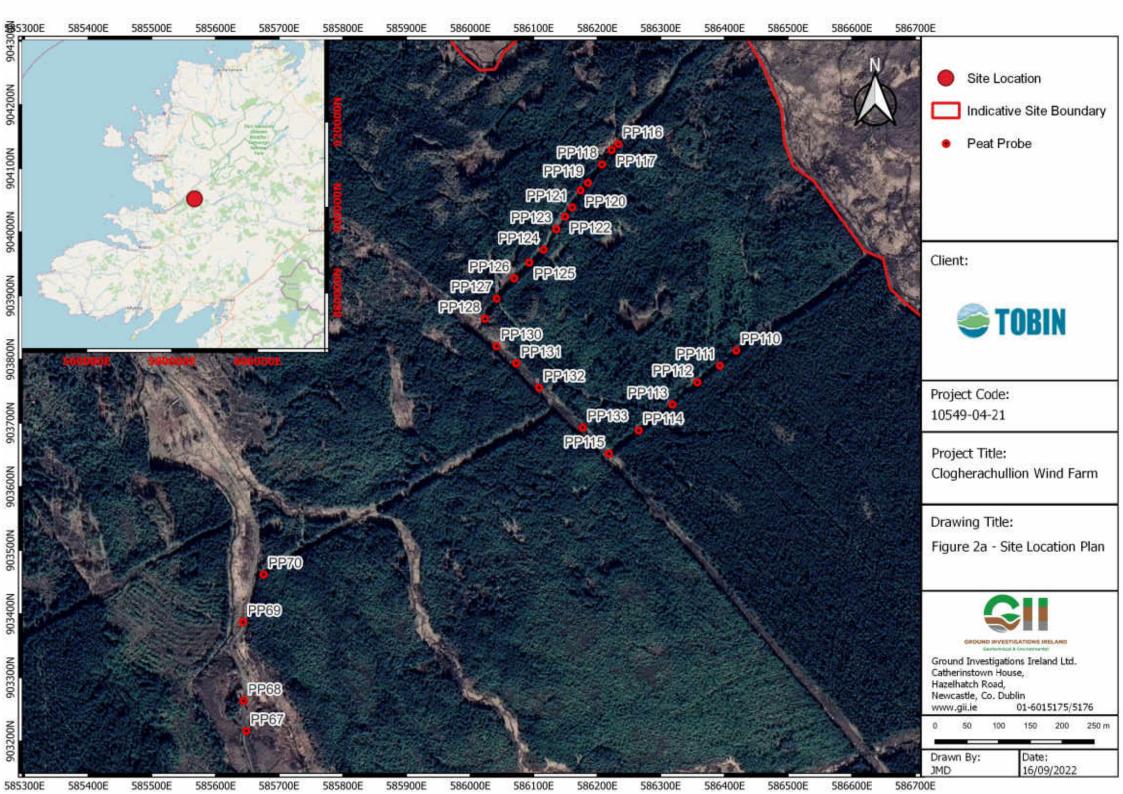
Geotechnical testing consisting of moisture content, Atterberg limits, Particle Size Distribution (PSD), hydrometer tests were carried out in NMTL's Geotechnical Laboratory in Carlow.

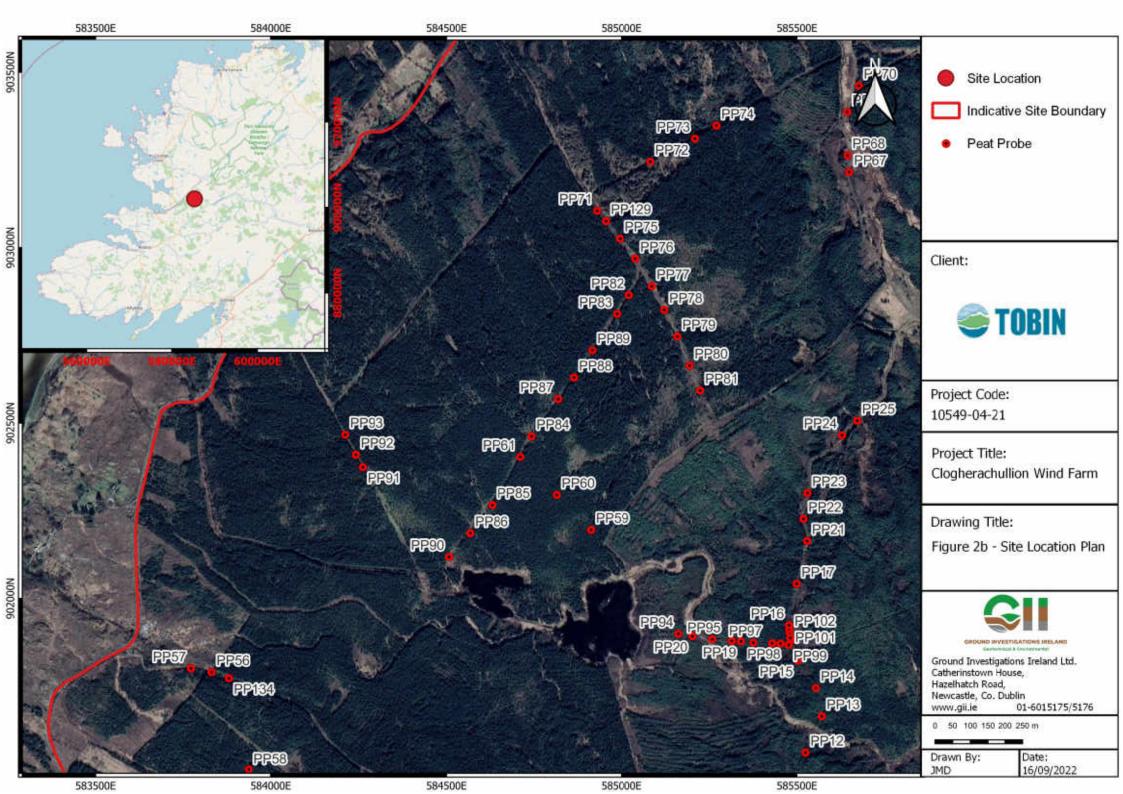
The results of the laboratory testing are included in Appendix 6 of this Report.

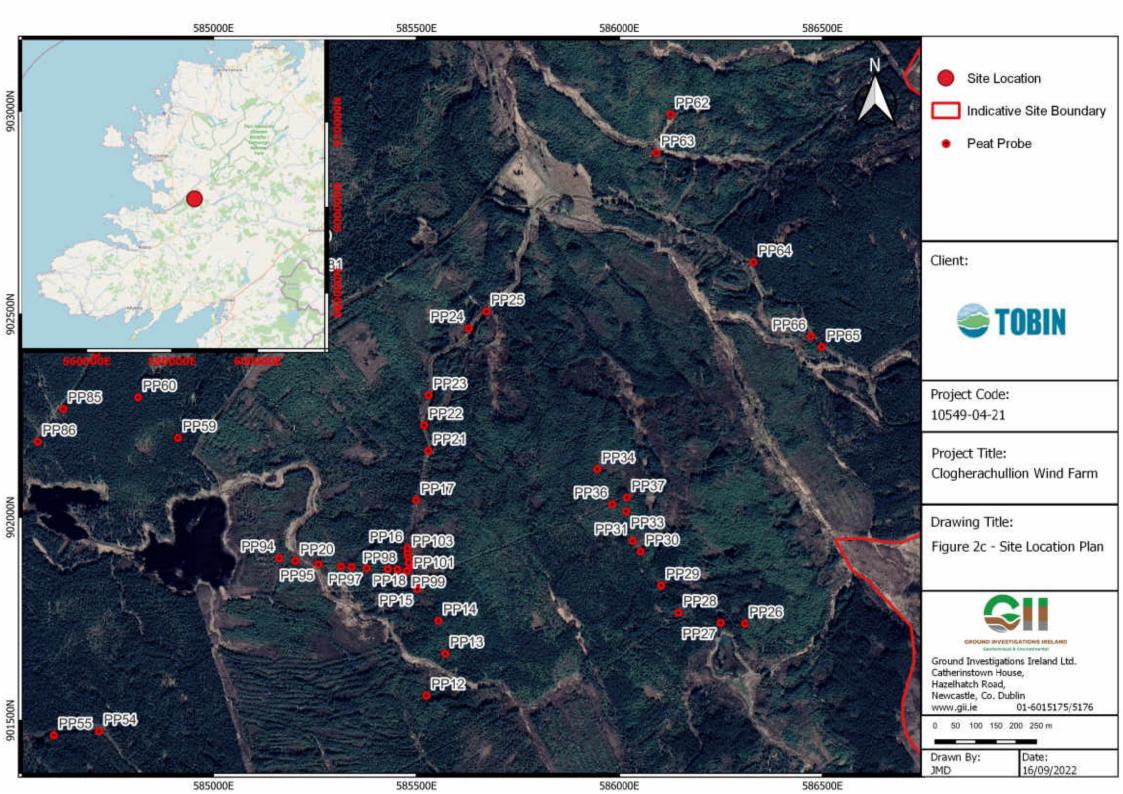
APPENDIX 1 - Site Location Plan

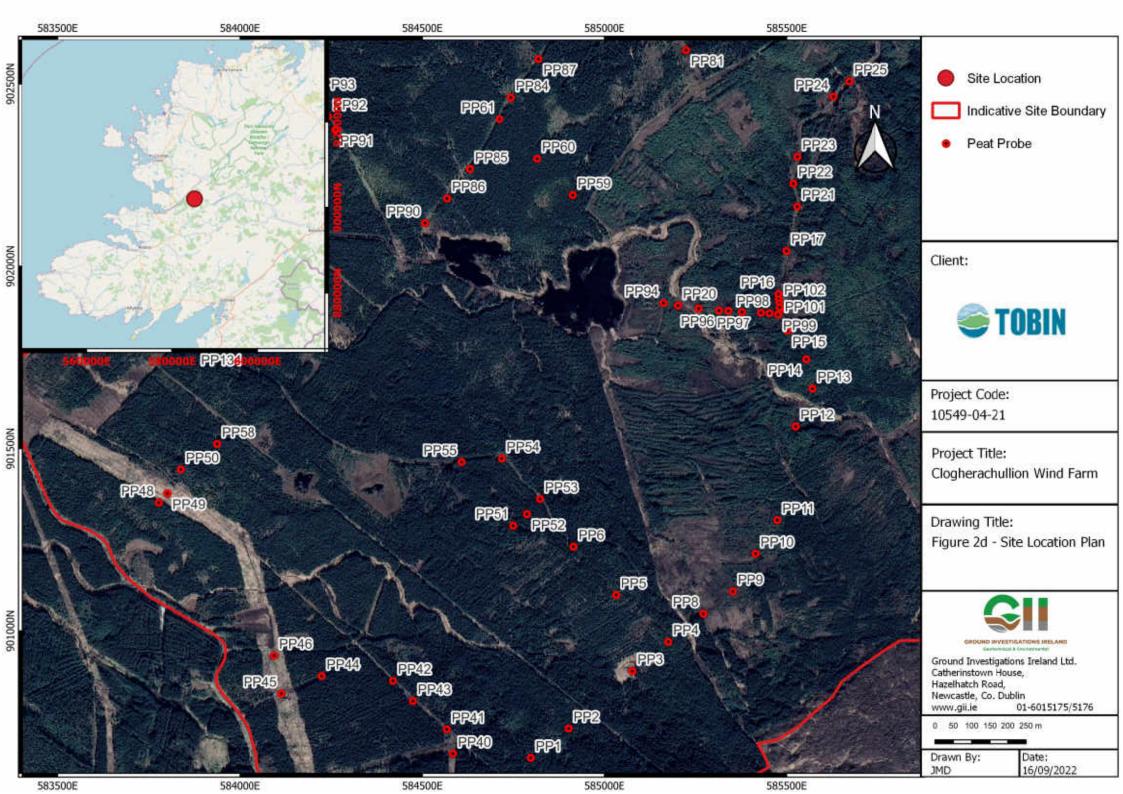


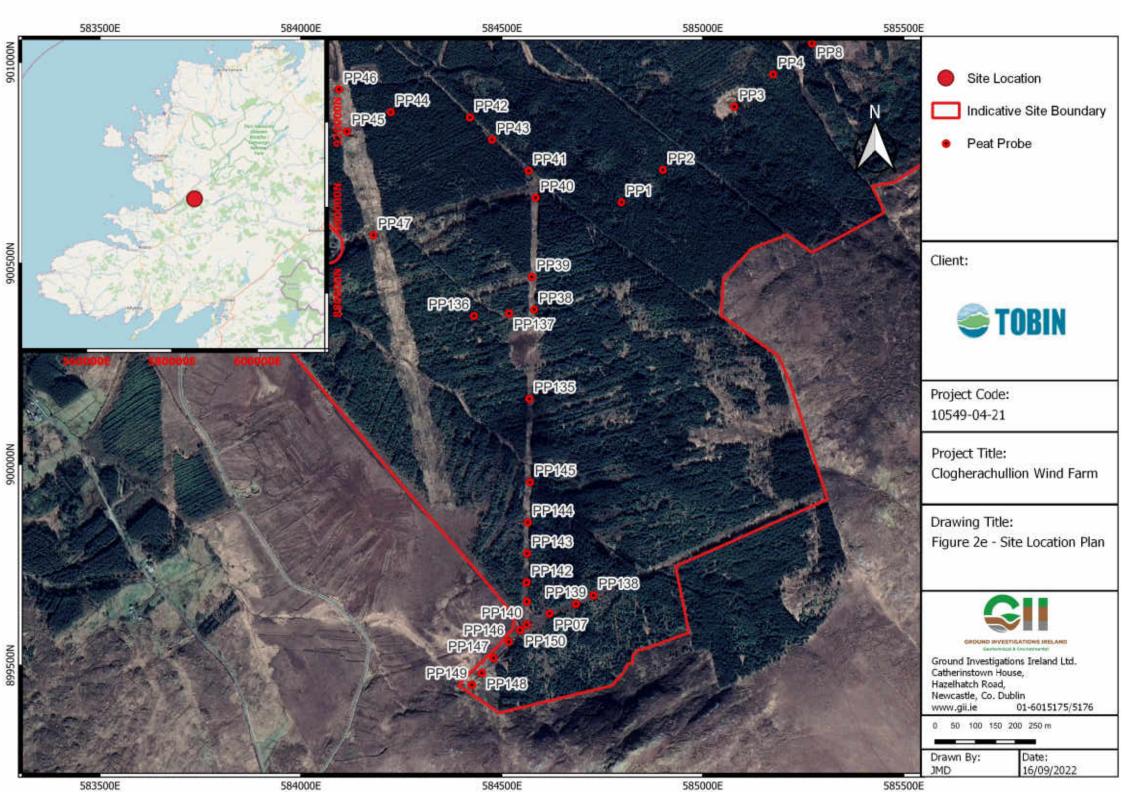












APPENDIX 2 – Trial Pit Records



	Grou	nd In	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal				Trial Pit Number TP06		
Machine : 1	3T Tracked xcavator	Dimens 3.30m	ions x 1.70m x 3.30m (L x W x D)	Ground	Level (mOD)				Job Numbe	er		
Method : T	rial Pit					Ørsted			10549-04	4-21		
			n (Handheld GPS) 1713.3 E 584013.5 N	Dates 09	9/06/2022	Engineer TOBIN Consulting Enginee	ers		Sheet 1/1			
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription		Legend	Water		
0.30 0.30 0.50 0.80 0.80	I 24.67kPa R 15.33kPa B1 I 23.33kPa R 16.00kPa		23,21,30/Av. 24.67 20,11,15/Av. 15.33 19,27,24/Av. 23.33 12,18,18/Av. 16.00 Moderate Seepage(1) at 1.70m. Moderate Ingress(2) at 1.90m.		(0.20) - (0.20) - (0.20) - (2.00) - (2.00) - (2.00) - (1.10) - (1.10) - (3.30)	Plastic greyish brown slighwith occasional angular to boulders. 3.30m BGL: OBSTRUCT boulders or bedrock Complete at 3.30m	ofibrous PEAT. http://gravelly.pseudofibrous.psubangular.cobbles.and	PEAT	342 342 342 342	∇ 1		
Plan		·				Remarks Hand Shear Vane Test carrie Groundwater encountered a Trial pit stable Trial pit backfilled on comple	t 1.70m and 1.90m BGL	nd 0.80m	ı BGL			
		•			s	Scale (approx) 1:25	Logged By JMD	Figure 10549-0	• No. 04-21.TF	P06		

	Grou	nd In	vestigations Ire www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal			
	13T Tracked Excavator	Dimens 2.20m			Level (mOD) 06.71	Client Ørsted			nber 9-04-21
Method :	Iffai Pil	Locatio 58	on 4505.1 E 901458.5 N	Dates 09	/06/2022	Engineer TOBIN Consulting Engineer	ers	She	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legei	Mater bn
0.30 0.30	I 16.67kPa R 7.00kPa	Very Slow Seepage(1) at 0.30m. 19,22,9/Av. 16.67 7,9,5/Av. 7.00 4,3,7/Av. 4.67 3,2,3/Av. 2.67		106.41	- (0.30) - 0.30 - 0.30 (0.90)	Dark brown peaty TOPSOIL with grass and rootlets. Very soft spongy brown fibrous PEAT.		34/2 3 34/2 3 34/2 3 34/2 3 34/2 3 34/2 3 34/2 3 34/2 3 34/2 3	adka adka adka adka
1.00 1.00 1.20	I 4.67kPa R 2.67kPa B1		4,3,7/Av. 4.67 3,2,3/Av. 2.67	105.51 105.41	⊢ (0.10)	h CLAY.	ghtly gravelly slightly organi	34/2 3 34/2 3 34/2 3 C 34/2 3 C	syles .
Plan .					•	Remarks			
						Hand Shear Vane Test carri Groundwater encountered a Trial pit stable Trial pit backfilled on comple	ed out in trial pit at 0.30m ar it 0.30m BGL etion	id 1.00m BGL	
					.	Scale (approx)	Logged By	Figure No. 10549-04-21	.TP07

	Grou	nd In	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal Trial P Number TP0			
E	13T Tracked Excavator	Dimens 3.00m			Level (mOD) 110.21	Client Ørsted		Job Numbe 10549-04	
Method : [↑]	rial Pit	ļ		 					
		Locatio 58	on 85554.5 E 902390.9 N	Dates 10)/06/2022	Engineer TOBIN Consulting Enginee	ərs 	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend	Water
0.50	B1		Moderate Seepage(1) at 0.70m.	110.11	- - - - - - - - - - - - - - - - - - -	Spongy to plastic dark bropseudofibrous PEAT with r cobbles and boulders (Pos	Brown peaty gravelly TOPSOIL with grass and rootlets. Spongy to plastic dark brown slightly clayey sandy gravelly pseudofibrous PEAT with many angular to subrounded cobbles and boulders (Possible Reworked Ground).		
1.50	B2			109.11	(0.60)	Brown clayey sandy fine to GRAVEL with many angula boulders. 1.70m BGL: OBSTRUCT boulders or bedrock Complete at 1.70m	o coarse angular to subround ar to subrounded cobbles an	ted d	
Plan .						│ Remarks			
						Trial pit backfilled on comple Hand Shear Vane Test attern material too granular Groundwater encountered a Trial pit spalling from GL	etion npted in trial pit at 0.50m BG at 0.70m BGL	L. Test Failed -	
					Figure No. 10549-04-21.TF	P08			

	Grou	nd Inv	estigations Ire/ www.gii.ie	land l	Ltd	Site Clogherachullion Wind Fa	Farm Donegal Trial Num		
Machine: 1 E Method: T	xcavator	Dimension 2.90m x			Level (mOD) 40.19	Client Ørsted		Job Number 10549-04-21	
			(Autonomous) 457 E 902494 N	Dates 10	/06/2022	Engineer TOBIN Consulting Engine	ers	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend Fax	
Depth (m) Sample / Tests .00 B1				140.09 139.89 138.99	(0.20) -		n sandy gravelly pseudofibro dy fine to coarse angular to many angular to subrounde	di"•• di"	
						Hand Shear Vane Test atten material too granular No groundwater encountere Trial pit spalling from GL Trial pit backfilled on comple	npted in trial pit at 0.30m BG	GL. Test Failed -	
						ттагри раскиней on comple	suori		
					.	Scale (approx)	Logged By	Figure No. 10549-04-21.TP09	

	Grou	nd In	vestigations www.gii.ie	Ireland	Ltd	Site Clogherachullion Wind Farm Donegal Trial P Numb TP1			
Machine: 1 E	xcavator	Dimens 3.50m		(Cound	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
			n (Handheld GPS) 1662.1 E 584097.8 N	Dates 09	9/06/2022	Engineer TOBIN Consulting Engine	ers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend	Water
0.50 0.50 1.00 1.00 1.00	60 I 13.67kPa R 9.67kPa 00 I 9.33kPa B1 R 6.67kPa		Slow Ingress(1) at 0.50r 11,15,15/Av. 13.67 10,8,11/Av. 9.67 8,9,11/Av. 9.33 6,6,8/Av. 6.67 Moderate Ingress(2) at 1.50m.		- (0.20) - 0.20 - 1.50 - (0.70) - 2.20	Very soft spongy dark brovoccasional angular to sub	aty TOPSOIL with grass, roc subangular cobbles. wn pseudofibrous PEAT with angular cobbles and boulded angular cobbles angular cobbles and boulded angular cobbles angula	· sa (学)、条7、条7、条7、条7、条8 (本)、条2、条8 (本)、条2、条3、条3、条3、条3、条3、条3、条3、条8 (本)、4、6、8、6、8、6、8、6、8、6、8、6、8、6、8、6、8、6、8、6	.∇2
		-		•		Hand Shear Vane Test carri Groundwater encountered a Trial pit sidewalls spalling fr	at 0.50m and 1.50m BGL	nd 1.00m BGL	
		-		•		Trial pit sidewalls spalling from Trial pit backfilled on comple	etion		
		•		•					
		•				Scale (approx)	Logged By	Figure No.	
						1:25	JMD	10549-04-21.TF	₽10

	Groui	nd In	vestigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal TP1'				r	
Machine: 6	6T Tracked Excavator Frial Pit	Dimens 3.50m		Ground	Level (mOD)	Client Ørsted		N	ob lumber 549-04-	
		Locatio	n	Dates 13	3/06/2022	Engineer TOBIN Consulting Engine	ers	s	heet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Le	gend	Water
0.50			Fast Ingress(1) at 0.40m. 10,11,15/Av. 12.00 3,7,9/Av. 6.33		(0.90)	boulders.	in pseudofibrous PEAT with a cobbles and boulders / large pictifine to coarse subangular many cobbles and boulders	*	0 %	Z1
		•				Hand Shear Vane Test carrie Groundwater encountered a	ed out in trial pit at 0.50m BG it 0.40m BGL	iL.		
		•				Trial pit spalling from GL Trial pit backfilled on comple	etion			
					• •					
					<u> </u>	Scale (approx)		Figure No.		

	Grou	nd In	vestigati www.g	ions Ire _{ii.ie}	land	Ltd	Site Clogherachullion Wind Fai	rm Donegal		Pit ober 113
	3T Tracked Excavator Frial Pit	Dimens 2.80m	sions x 1.30m x 1.00m	ı (L x W x D)		Level (mOD) 97.94	Client Ørsted		Job Num 10549	n ber 1-04-21
		Locatio 58	n 4299.5 E 90148	7.9 N	Dates 09)/06/2022	Engineer TOBIN Consulting Engineer	ers	She	et
Depth (m)	Sample / Tests	Water Depth (m)	Field R	ecords	Level (mOD)	Depth (m) (Thickness)	D	escription	Legei	Mater bn
0.30	I 8.33kPa R 5.33kPa		11,3,11/Av. 8.3. 10,2,4/Av. 5.33 Very Fast Ingre 0.60m.		96.94	1.00	Complete at 1.00m		sske.	31/2 □ 1 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/
Plan .		•		•			Remarks Hand Shear Vane Test carrie Groundwater encountered a	ed out in trial pit at 0.30m B t 0.60m BGL	GL	
		-		•			Trial pit stable Trial pit terminated at 1.00m Trial pit backfilled on comple	BGL due to groundwater in		
		•		•						
							Scale (approx)	Logged By	Figure No.	
							1:25	JMD	10549-04-21	.TP13

	Grou	nd In	vestigati www.gi		land	Ltd	Site Clogherachullion Wind Fa	rm Donegal	Trial Pit Number TP15	
	3T Tracked Excavator Frial Pit	Dimens 3.00m				Level (mOD) 120.60	Client Ørsted		Job Number 10549-04-2	1
		Locatio 58	n 6266.6 E 902665	5.2 N	Dates 10)/06/2022	Engineer TOBIN Consulting Engineer	ers	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Re	ecords	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend to A	
					120.40	(0.20)	Brown peaty TOPSOIL wit		stre stre	
0.50 0.50	l 14.33kPa R 7.33kPa		10,16,17/Av. 14 6,10,6/Av. 7.33	.33		(1.00)			salve salve salve salve salve salve salve salve salve salve salve salve	
1.00 1.00 1.00 2.00	B1 I 15.67kPa R 8.33kPa		Slow Seepage(1.00m. 18,14,15/Av. 15 9,9,7/Av. 8.33	•	119.40 118.60	(0.80)	Brown slightly clayey very subrounded GRAVEL with cobbles and boulders. 2.00m BGL: OBSTRUCT boulders or bedrock Complete at 2.00m	sandy fine to coarse angula many angular to subrounde	ar to	1
Plan .							Remarks	1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	14.00 BQI	1
							Hand Shear Vane Test carrie Groundwater encountered a Minor spalling from 1.00m B Trial pit backfilled on comple	it 1.00m BGL	iu 1.00M BGL	
		•								
							Scale (approx) 1:25	Logged By	Figure No. 10549-04-21.TP1	5

	Grou	nd In	vestigat www.g		land	Ltd	Site Clogherachullion Wind Farm Donegal Trial P Numb TP1				
Machine : 1 E	excavator	Dimens 2.80m				Level (mOD) 21.43	Client Ørsted		1	Job Number	- 1
		Locatio 58	n 4807.3 E 90138	0.4 N	Dates 09	/06/2022	Engineer TOBIN Consulting Engineer	ers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field R	ecords	Level (mOD)	Depth (m) (Thickness)	D	escription	ı	_egend	Water
0.20 0.20 0.50	I 20.67kPa R 12.00kPa B1		18,19,25/Av. 20.67 11,12,13/Av. 12.00			(0.15) - (0.15) - (0.15) - (0.45)	Dark brown peaty TOPSO Very soft plastic brown pse	_	83	alka ka alka alka ka alka alka alka alka	7.
0.70	R 12.00kPa B1 I 23.00kPa R 21.00kPa		Slow Seepage(1) at 0.60m. 23,25,21/Av. 23.00 19,24,20/Av. 21.00		120.83	(0.20)	cobbles.	sandy slightly gravelly sligh onal angular to subangular FION due to presumed bedr	ntly s	1	4
Plan .							Remarks				_
							Hand Shear Vane Test carrie Groundwater encountered a Trial pit stable Trial pit backfilled on comple		nd 0.70m	BGL	
		•									
							Scale (approx) 1:25	Logged By	Figure 10549-0	No.)4-21.TP1	6

	Grou	nd In	vestigations Ire www.gii.ie	eland	Ltd	Site Clogherachullion Wind Fa	rm Donegal	Trial Pit Number TP17
Machine : 6	6T Tracked Excavator Frial Pit	Dimens 2.50mx		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-21
		Locatio	n	Dates 13	3/06/2022	Engineer TOBIN Consulting Engine	ers	Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend Nater
0.40	l 20.67kPa		Fast Ingress(1) at 0.20m.			Very soft spongy dark brownsome subangular to subro	wn pseudofibrous PEAT with unded boulders / large bould	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0.40 0.50	R 11.00kPa B1		10,11,12/Av. 11.00		- 0.50 	subrounded GRAVEL with many angular to subrounded cobbles and boulders / large boulders.		d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	D2				<u>-</u> - -	1.90m BGL: OBSTRUCT boulders or bedrock	TION due to presumed	
Plan					- 1.90	Complete at 1.90m		
				•		Hand Shear Vane Test carrie Groundwater encountered a	ed out in trial pit at 0.40m BG at 0.20m BGL	GL.
				•		Trial pit spalling from 0.30m Trial pit backfilled on comple	etion	
						Scale (approx)	Logged By	Figure No. 10549-04-21.TP17

	Grou	nd In	vestigatio www.gii	ons Ire i.ie	land	Ltd	Site Clogherachullion Wind Fa	rm Donegal	N	rial Pit lumber TP20	r
Machine: 1 E Method: T	xcavator	Dimens 1.90m				Level (mOD 25.53	Orsted		N	ob lumber 549-04-	
		Locatio 58	n 5510.1 E 902084	.1 N	Dates 10	/06/2022	Engineer TOBIN Consulting Engine	ers	S	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness) D	escription	Le	gend	Water
0.30 0.30 1.00 1.00 1.00) R 3.33kPa) I 12.33kPa) B1		10,7,8/Av. 8.33 3,3,4/Av. 3.33 Moderate to Fast Ingress(1) at 0.50m. 12,13,12/Av. 12.33 9,11,6/Av. 8.67		124.73	- (0.80) - (0.80) - (0.80) - (0.40)	Very soft spongy to plastic Very soft spongy to plastic slightly sandy pseudofibro	dark brown pseudofibrous For dark brown slightly clayey us PEAT.	PEAT. sales	SANS Z	∑ 1
Plan							Trial pit stable Trial pit backfilled on comple				
							Scale (approx) 1:25	Logged By JMD	10549-04-		20

	Grou	nd In	vestigations Ire www.gii.ie	eland	Ltd	Site Clogherachullion Wind Fa	rm Donegal	Trial Pit Number TP22	
Machine: 6	T Tracked Excavator			Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-2	
		Locatio	n	Dates 13	3/06/2022	Engineer TOBIN Consulting Engineer	ers	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend tax	
0.40	I 12.33kPa		Slow Ingress(1) at 0.30m. 11,10,16/Av. 12.33			Very soft spongy dark brov occasional angular to subr	wn pseudofibrous PEAT with ounded cobbles and boulde	rs	1
0.40 0.50	R 7.67kPa B1		5,8,10/Av. 7.67		0.50	Brown slightly clayey very subrounded GRAVEL with cobbles and boulders.	sandy fine to coarse angula many angular to subrounde	r to	
					<u>-</u> - -	1.30m BGL: OBSTRUCT boulders or bedrock	ΓΙΟΝ due to presumed		
1.30	B2	1.30 Complete at 1.30m Complete at 1.30m							
Plan .						Remarks Hand Shear Vane Test carri	ed out in trial nit at 0.40m BG	21	
						Hand Shear Vane Test carri Groundwater encountered a Trial pit spalling from 0.50m Trial pit backfilled on comple	to 3.30m BGL BGL stion	<i>,</i> _	
				•					
									_
					\$	Scale (approx) 1:25	Logged By JMD	Figure No. 10549-04-21.TP22	2

	Grou	nd In	vestigations www.gii.ie	s Irel	and l	_td	Site Clogherachullion Wind Far	rm Donegal		Trial Pit Number TP24	'
	13T Tracked Excavator Trial Pit	Dimens 2.50m		V x D)		Level (mOD) 31.02	Client Ørsted			Job Number 0549-04-2	
		Locatio 58	on 6338.9 E 902597 N		Dates 10	/06/2022	Engineer TOBIN Consulting Engineer	ers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	5	Level (mOD)	Depth (m) (Thickness)	Do	escription	L	egend 5	Water
0.30 0.30	l 13.00kPa R 7.67kPa		17,13,9/Av. 13.00 8,9,6/Av. 7.67		130.52			wn slightly gravelly pseudofib bles.	%.°	2	
0.50	B1				130.32	- 0.50	Brown clayey very sandy fine to coarse angular to subrounded GRAVEL with many angular to subrounded cobbles and boulders. 1.60m BGL: OBSTRUCTION due to presumed boulders or bedrock Complete at 1.60m				
1.50	B2		Very Slow Seepage(1) 1.60m.) at	129.42		Complete at 1.60m		√	শ্ৰ	
Plan .		٠		•		•	Remarks Hand Shear Vane Test carrie Groundwater encountered a	ed out in trial pit at 0.30m BG	S L		
		•					Groundwater encountered a Minor spalling from 0.50m B Trial pit backfilled on comple	t 1.60m BGL GL etion			
		·									
						·			Figure N 10549-04	No. 04-21.TP2	

	Grou	ınd In	vestigatio www.gii		land	d Ltd Site Clogherachullion Wind Farm Donegal und Level (mOD) Client					Trial Pit Number TP25	
	I3T Tracked Excavator	Dimens 2.20m				Level (m0	OD)	Client Ørsted			Job Number 10549-04-21	1
Method .		Locatio 58	n 4742.1 E 901454.	6 N	Dates 09	/06/2022		Engineer TOBIN Consulting Engineer	ers		Sheet 1/1	_
Depth (m)	Sample / Tests	Water Depth (m)	Field Red	cords	Level (mOD)	Depth (m) (Thickne	ss)	D	escription		Legend ja	
0.30 0.30	I 19.33kPa R 10.00kPa		Moderate Seepa 0.20m. 24,15,19/Av. 19. 15,9,6/Av. 10.00	- , ,	116.29	(0.2	20)	Brown peaty TOPSOIL wit				,
0.90 0.90 0.90	I 21.33kPa B1 R 16.00kPa		15,25,24/Av. 21.3 11,20,17/Av. 16.0		115.69					ntly \$	able sable	
Plan .							F	Remarks				_
							'	Hand Shear Vane Test carrie Groundwater encountered a Trial pit stable Trial pit backilled on complet		nd 0.90m	n BGL	
•	•	-	·		·	•						
		•			•	s	cale (approx)	Logged By JMD	Figure 10549-	No. 04-21.TP25	5	

	Grou	nd In	vestigatio www.gii		land l	Ltd	Site Clogherachullion Wind Fa	rm Donegal		Trial Pi Numbe	er
	3T Tracked Excavator	Dimens 2.50m				Level (mOD) 60.29	Client Ørsted			Job Numbe	
metriou .	nari k	Locatio	n 4582.3 E 900538.	.1 N	Dates 09	/06/2022	Engineer TOBIN Consulting Engineer	ers	:	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Red	cords	Level (mOD)	Depth (m) (Thickness)	D	escription	L	egend	Water
0.50 0.50 0.50 0.90 0.90	B1 R 5.67kPa		Moderate Seepa 0.30m. 11,6,8/Av. 8.33 9,3,5/Av. 5.67 12,14,7/Av. 11.00 8,9,3/Av. 6.67		159.99 159.29	(0.70)	Brown peaty TOPSOIL with Very soft plastic dark brown Grey/brown clayey very sa subrounded GRAVEL with cobbles and boulders. 1.50m BGL: OBSTRUC boulders or bedrock Complete at 1.50m	n pseudofibrous PEAT. andy fine to coarse subangul some subangular to rounde	d C.C.		∑1
		•		٠			Hand Shear Vane Test carrie	ed out in trial pit at 0.50m BG it 0.30m BGL IGI	GL		
		•		•			Minor spalling from 1.00m B Trial pit backfilled on comple	tion			
		•	•								
						.	Scale (approx)	Logged By	Figure N	No.	
							1:25	JMD	10549-04	4-21.TF	26

	Grou	nd In\	vestigations Irel www.gii.ie	land l	Ltd	Site Clogherachullion Wind Fai	rm Donegal	Trial Pit Number TP28
Machine :	13T Tracked Excavator Trial Pit	Dimension 2.70m x	ons : 1.20m x .3.00m (L x W x D)	Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-21
Metriou .	IIIai Fii		n (Handheld GPS) 2569.1 E 585739.1 N	Dates 10)/06/2022	Engineer TOBIN Consulting Enginee	ers	Sheet
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend Nater
1.50					(0.20) 0.20 Brown peaty gravelly TOPSOIL with grass, rootlets and occasional angular to subrounded cobbles. Brown slightly clayey gravelly fine to coarse SAND with many angular to subrounded cobbles and boulders. (2.80) 3.00 Brown slightly clayey gravelly fine to coarse SAND with many angular to subrounded cobbles and boulders.		[//\\////]	
						Hand Shear Vane Test attern material too granular No groundwater encountere Trial pit spalling from GL Trial pit backfilled on comple	npted in trial pit at 0.50m BG	GL. Test Failed -
						Trial pit backfilled on comple	∍tion	
					s	Scale (approx)	Logged By	Figure No. 10549-04-21.TP28

	Groui	nd In	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal DD) Client			Trial Pit Numbe TP29	er
Machine : 6	6T Tracked Excavator Trial Pit	D		Ground	Level (mOD)	Client Ørsted		N	Job Numbe 0549-04-	
		Location	n	Dates 13	3/06/2022	Engineer TOBIN Consulting Engineer	ers	S	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Le	egend	Water
0.30 0.30 0.50	I 20.00kPa R 7.67kPa B1		21,19,20/Av. 20.00 6,9,8/Av. 7.67		- (0.60) - 0.60 - 0.60 (0.70)	Brown slightly clayey very to subrounded GRAVEL w cobbles and boulders.	seudofibrous PEAT with subrounded cobbles and bou sandy fine to coarse subang with some angular to subround	wulders.		
1.30	B2				1.30	Complete at 1.30m	1.30m BGL: OBSTRUCTION due to presumed boulders or bedrock Complete at 1.30m			
Plan .						Remarks Hand Shear Vane Test carrie	ed out in trial pit at 0.30m BC	3 L		
					1	No groundwater encountere Trial pit stable Trial pit backfilled on comple	ed.	-		
				•						
						. Scale (approx) Logged By Figur			lo. 4-21.TP	

	Groui	nd In	vestigations Ire www.gii.ie	eland	Ltd	Site Clogherachullion Wind Fa	rm Donegal	Trial Pit Number TP31	r
Machine: 6 Method: T	T Tracked Excavator	Dimens 2.30m		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-2	
		Locatio	n	Dates 13	3/06/2022	Engineer TOBIN Consulting Engineer	ers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend	Water
0.50 0.50	I 8.00kPa R 4.33kPa B1	Slow Ingress(1) at 0.50m. 7,8,9/Av. 8.00 3,5,5/Av. 4.33 Fast Ingress(2) at 0.90m.			- (0.60) - 0.60 - 1.30 - 1.30 - 1.30	Plastic dark brown pseudocobbles and boulders. 1.30m BGL: OBSTRUCT boulders or bedrock Complete at 1.30m	ofibrous PEAT with occasion	SJ/2 SJ/2	Z2 Z2
Plan .					• •	Remarks Hand Shear Vane Test carri	ad out in trial nit at 0.50m B	:GI	
						Hand Shear Vane Test carrie Groundwater encountered a Trial pit stable Trial pit backfilled on comple			
		•		•					
						Scale (approx)	Logged By	Figure No. 10549-04-21.TP3	31
						1.20	רואוס	100-0-0-21.15	1

	Groui	nd In	vestigations Ire www.gii.ie	eland	Ltd	Site Clogherachullion Wind Fal	rm Donegal	1	Trial Pi Numbe	er
Machine : 6	6T Tracked Excavator Trial Pit	Dimens 2.70m		Ground	Level (mOD)	Client Ørsted		1	Job Numbe	
		Locatio	n	Dates 13	3/06/2022	Engineer TOBIN Consulting Engineer	ers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Le	egend	Water
0.30 0.30 0.30	I 7.33kPa B1 R 3.67kPa		6,10,6/Av. 7.33 Moderate Seepage(1) at 3,4,4/Av. 3.67 0.40m.		- (0.40) - (0.45) - (0.45) - (0.85) - (0.45) - (0.45) - (0.45) - (0.45) - (0.45)	Very soft plastic dark brow occasional subangular to subangular to subrounded to subrounded cobbles an 0.85m BGL: OBSTRUCT or many boulders Complete at 0.85m	rse jular		∑1	
Plan .				•		Remarks Hand Shear Vane Test carrie Groundwater encountered a	ed out in trial pit at 0.30m BG	S L		
				-		Groundwater encountered a Trial pit spalling from GL Trial pit backfilled on comple	t 0.40m BGL etion			
				•						
		•		•	<u> </u>	. Scale (approx) Logged By Figure 1 1:25 JMD 10549-0				-32

	Grou	nd In	vestigations www.gii.ie	Irelan	d I	Ltd	Site Clogherachullion Wind Fa	rm Donegal		Trial Pi Number	er
Machine: 6 Method: T	T Tracked Excavator			Grou	ınd	Level (mOD)	Client Ørsted			Job Numbe	
		Locatio	n	Date	13	/06/2022	Engineer TOBIN Consulting Engineer	ers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Lev (mO	rel (D)	Depth (m) (Thickness)	D	escription		Legend	Water
0.30 0.30	l 18.00kPa R 10.67kPa		19,16,19/Av. 18.00 13,11,8/Av. 10.67 Moderate Ingress(1) at 0.70m.			(1.00)	Very soft spongy dark brown occasional cobbles and bo	wn pseudofibrous PEAT wit oulders / large boulders.	8		
1.00 1.00 1.00	I 20.33kPa B1 R 15.00kPa	18,24,19/Av. 20.33 14,18,13/Av. 15.00				1.00	Soft spongy dark brown sl PEAT with many cobbles a 1.50m BGL: OBSTRUCT boulders or bedrock Complete at 1.50m		S s	(秦)、秦)、《秦 (8) (8) (8) (8) (8) (8) (8) (8) (8) (8)	
Plan							Remarks				
Pian .		•		•	•	•	Hand Shear Vane Test carrie Groundwater encountered a	ed out in trial pit at 0.30m a t 0.70m BGL	nd 1.00m	BGL	
							Trial pit stable Trial pit backfilled on comple				
				•							
						.	Scale (approx)	Logged By	Figure	No.	
							1:25	JMD	10549-0	04-21.TF	234

	Grou	nd In	vestigati www.gii		land	Ltd	Ciogneracifullion wind raint borlegal			Trial Pit Number	r
Machine: 1 E	3T Tracked Excavator	Dimens 3.40m				Level (mOD) 50.31	Client Ørsted			Job Number 0549-04-	
			n (Autonomous) 6626.8 E 902375		Dates 10	/06/2022	Engineer TOBIN Consulting Engineer	ers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Re	cords	Level (mOD)	Depth (m) (Thickness)	D	escription	L	.egend	Water
0.30 0.40 0.40	B1 I 6.00kPa R 4.33kPa		4,7,7/Av. 6.00 2,6,5/Av. 4.33		149.81		Very soft plastic dark brow pseudofibrous PEAT with o	n slightly sandy slightly grav	relly	Wa :/	
0.80	B2		2,0,0,7		149.51	(0.30)	cobbles and boulders.	dy fine to coarse angular to many angular to subrounde FION due to presumed bedro	N.). (
Plan						Complete at 0.80m					
: •••••		•		•		•	Remarks Hand Shear Vane Test carrie No groundwater encountere	ed out in trial pit at 0.40m B0	GL.		
		-		•		•	Trial pit stable Trial pit backfilled on comple				
				•		-					
							Scale (approx)	Logged By	Figure N	 No.	_
							1:25	JMD	10549-0		35

Clogherachullion Wind Farm Trial Pit Photographs











P07





























































































































































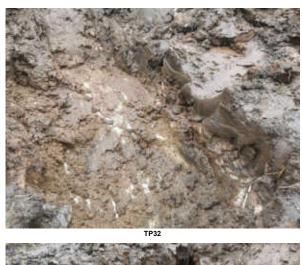






































APPENDIX 3 – Russian Sample Records



	Grou	nd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Number GC001	
Machine : Go		Dimension 50mm		Ground	Level (mOD)	Client Ørsted	N	ob umber 549-04-21	1
		Location 5862	52.8 E 904152.6 N	Dates 02	/09/2022	Engineer TOBIN Consulting Engineers	Si	heet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leç	Water Name	
0.00-0.50	T1 T2				0.90	Spongy dark brown to black pseudofibrous PEAT. Complete at 0.90m	sales sales sales sales sales sales	shte shte shte shte shte shte shte	
Remarks Gouge Auger	r refusal at 0.90m B	GL					re No.	ogged y JMD	

	Grou	nd Inv	estigations Iı www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe		
Machine: G	Gouge Auger	Dimensio			Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5868	61.9 E 903773.3 N	Dates 02	2/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1				(0.15) - (0.35) - (0.35) - (0.50) - (0.	Firm black fibrous PEAT. Spongy dark brown to black pseudofibrous PEAT Complete at 0.50m		able solte solte solte solte solte solte solte solte solte solte solte	
Gouge Auge	er refusal at 0.50m B	GL					Scale (approx) 1:25	Logged By	t
							Figure N 10549-04		02

	Grou	nd Inv	estigations Iro www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal	Number GC003	
Machine : G		Dimensi 50m		Ground	Level (mOD)	Client Ørsted	Job Numb 10549-0	
		Location 585	848.6 E 903484.6 N	Dates 02	2/09/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.50	T1	(m)			- (0.50) - (Firm dark brown to black slightly sandy pseudofibrous PEAT Complete at 0.50m		
Pomorko					- - - - - - - - -			
Remarks Gouge Auge	r refusal at 0.50m B	GL				Scale (approx)		
						1:25 Figure		
						10549-0	4-21.GC	003

	Grou	nd Inv	vestigations Ir www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal		Number GC00	
Machine : G		Dimension 50m		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5863	396.5 E 903090.4 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.50-1.00	T1				- (0.40) - 0.40 - (0.60) - 1.00	Spongy dark brown pseudofibrous PEAT. Complete at 1.00m		silve	
Remarks Gouge Auge	er refusal at 1.00m B	GL					Scale (approx) 1:25	Logge By JMD	d
							10549-04		04

	Grou	nd Inve	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		nber 005	
Machine : G		Dimension 50mm		Ground	Level (mOD)	Client Ørsted		n ber -04-21
		Location 58669	94.7 E 902632.1 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers	She	et /1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Water
0.00-0.40	T1				- (0.15) - (0.25) - (0.40) - (Firm brown fibrous PEAT. Spongy dark brown to black pseudofibrous PEAT. Complete at 0.40m	31/2 31/2 31/2 31/2	
Remarks Gouge Auge	er refusal at 0.40m B	GL		1		Scale (approx 1:25 Figure 10549	JM	ID

	Grou	nd Inv	estigations Ir/ www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal			er 06
Machine : G		Dimension 50m		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5850	018.4 E 903237.8 N	Dates 02	2/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.45	T1				(0.10) - (0.35) - (0.35) - (0.45) - (0.	Firm dark brown pseudofibrous PEAT. Spongy dark brown to black pseudobrous PEAT. Complete at 0.45m		able able silve silve silve silve silve silve silve silve silve	
Remarks Gouge Auge	er refusal at 0.45m B	GL					Scale (approx) 1:25 Figure N	Logged By JMD o.	d
							10549-04		06

	Grou	nd Inv	vestigations Ir www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal			er)7
Machine : G		Dimension 50m		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5854	499.4 E 902822.4 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1				(0.20)	Spongy brown fibrous PEAT.		alta alta alta alta	
					(0.30)	Spongy dark brown to black pseudofibrous PEAT.		alka alka alka alka alka alka	
					0.50	Complete at 0.50m		sMz.	
Remarks Gouge Auge	er refusal at 0.50m B	GL			<u> </u>		Scale (approx)	Logged By	d
							1:25	JMD	
							Figure N 10549-04		07

	Grou	nd Inv	vestigations Ir www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : G		Dimension 50m		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5859	945.1 E 902442.6 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1				- (0.50) - 0.50 - 0.50	Spongy dark brown pseudofibrous PEAT. Complete at 0.50m		style	
Remarks Gouge Auge	r refusal at 0.50m B	GL					Scale (approx)	Logged By	d
							Figure N 10549-04		08

	Grou	nd Inv	vestigations Ire www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal			er)9
Machine : G Method : D	ouge Auger rive-in Windowless ampler	Dimensi 50n		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 586	n 6191.4 E 901913.6 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.35	T1				- (0.35) - 0.35 - 0.35	Spongy brown pseudofibrous PEAT. Complete at 0.35m		silve silve silve silve silve silve	
Remarks Gouge Auge	r refusal at 0.35m B	GL			<u> </u>		Scale (approx) 1:25 Figure N 10549-04		

Grou	ınd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		nber 010
Machine : Gouge Auger Method : Gouge Auger	Dimension 50mm		Ground	Level (mOD)	Client Ørsted	Job Num 10549-	ıber
	Location 5865	526 E 901461.8 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers	Shee	et /1
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leger	Water
0.00-0.50 T1				- (0.50) - 0.50 - 0.50	Spongy brown pseudofibrous PEAT. Complete at 0.50m	201/2 201/2 201/2 201/2 201/2	alea alea alea alea
Remarks Gouge Auger refusal at 0.50m	BGL						D

	Grou	nd Inv	estigations Ir/ www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal	Number GC011		
Machine : G	Gouge Auger Prive-in Windowless Campler	Dimensio		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-21
		Location 584	405.1 E 902348.2 N	Dates 07	//09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend segment
0.00-0.50	T1				(0.15) - 0.15	Firm dark brown fibrous PEAT. Spongy brown pseudofibrous PEAT.		alka alka alka alka alka alka alka alka alka alka
0.50-1.00	T2				(0.85) 			SWE SWE SWE SWE SWE SWE SWE SWE SWE SWE SWE SWE
1.00-1.50	ТЗ				1.00	Plastic brown pseudofibrous PEAT.		shte
1.50-2.00	Т4				- - - - - - - - -			salize
2.00-2.50 2.00-2.95	T5 T6				- (1.95) - (1.95) - (1.95)	Complete at 2.95m		silke
Remarks Gouge Auge	er refusal at 2.95m Bo	GL			<u> </u>	I	Scale (approx)	Logged By
							Figure N 10549-04	lo. 1-21.GC011

	Grou	nd Inv	estigations Ir www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal			er 13
Machine : G Method : G		Dimension 50mm			Level (mOD) 119.60	Client Ørsted		Job Numbe 10549-04	e r I-21
		Location 5854	00.8 E 901874.2 N	Dates 01	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1			119.40	(0.20) - (0.20) - (0.30)	Spongy dark brown pseudofibrous PEAT. Complete at 0.50m		alle alle alle de la	
Remarks Gouge Auge	r refusal at 0.50m B	GL					Scale (approx) 1:25 Figure N 10549-04		

Ground Investigations Ireland Lt www.gii.ie						Site Clogherachullion Wind Farm Donegal		Number GC014		
Machine : Gouge Auger Method : Gouge Auger		Dimension 50mm		Ground Level (mOD)		Client Ørsted		Job Number 10549-04-2		
		Location 585537.1 E 901253.1 N		Dates 06/09/2022		Engineer TOBIN Consulting Engineers		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	_egend	Water	
0.00-0.50 0.50-1.00	T1				- - - - - - - - - - - - - - - - - - -	Spongy brown peudofibrous PEAT.	a a	silici silici silici silici silici silici silici silici silici silici silici		
1.00-1.50	Т3				1.00	Plastic brown pseudofibrous PEAT.	<i>u</i>	de sde sde sde sde sde sde sde sd		
1.50-2.00	T4				(1.05)		a a	allic slice		
2.00-2.50	T5				2.05 - 2.05 - (0.40) - 2.45 - 2.50	No Recovery - Possible Void Plastic dark greyish brown pseudofibrous PEAT.		astic ita astica		
						Complete at 2.50m				
					- - - - - - - - - - - - - - - - - - -					
Remarks Gouge Auge	r refusal at 2.50m B	GL					scale oprox)	Logged By	t	
						Fi	igure No 0549-04-2).	14	

Ground Investigations Ireland Ltd www.gii.ie						Site Clogherachullion Wind Farm Donegal			er 15
Machine: Gouge Auger Method: Drive-in Windowless Sampler		Dimensions 50mm to 0.20m Location 584394.4 E 901634.9 N		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-2 Sheet 1/1	
				Dates 06/09/2022		Engineer TOBIN Consulting Engineers			
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.20	T1				(0.20)	Firm brown fibrous PEAT. Complete at 0.20m		alka alka alka alka	
					- - - - -	55p505 4.5.25			
					- - - - -				
					- - - - -				
					- - - - -				
					- - - -				
					- - - -				
					- - -				
					- - -				
					_ _ _ _				
					- - -				
					- - - - -				
Remarks					-				<u></u>
Gouge Auge	r refusal at 0.20m Bo	GL					Scale (approx)	Logge By	
							Figure No. 10549-04)15

Ground Investigations Ireland Ltd www.gii.ie						Site Clogherachullion Wind Farm Donegal			er 16
Machine : Gouge Auger Method : Drive-in Windowless Sampler		Dimensions		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-2 Sheet 1/1	
				Dates 06/09/2022		Engineer TOBIN Consulting Engineers			
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1				(0.20) - (0.20) - 0.20	Firm brown pseudofibrous PEAT. Spongy brown pseudofibrous PEAT.		alta alta alta alta alta alta alta	;
0.50-1.00	T2				(1.05)			alka	
1.00-1.40	T3				- 1.25 - (0.15) - 1.40	Spongy dark brown pseudofibrous PEAT. Complete at 1.40m		alle alle alle alle alle alle alle alle alle alle alle alle	:
Remarks Gouge Auge	er refusal at 1.40m Bo	GL			<u> </u>		Scale (approx)	Logge By	
							Figure N 10549-04)16

Ground Investigations Ireland Ltd www.gii.ie						Site Clogherachullion Wind Farm Donegal			er 17
Machine: Gouge Auger Method: Drive-in Windowless Sampler		Dimensions 50mm to 0.45m Location 585048.7 E 900664.6 N		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04	er 4-21
				Dates 06/09/2022		Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.45	T1				- (0.35) - (0.10) - (0.45) - (0.45) - (0.10) - (0.45) - (0.10) - (0.45) - (0.10) - (0.45) - (0.10) - (Plastic dark brown pseudofibrous PEAT. Complete at 0.45m		astle salves alves astle salves	;
Remarks Gouge Auge	r refusal at 0.45m Bo	GL					Scale approx) 1:25 Figure No. 10549-04		

Ground Investigations Irel					Ltd	Site Clogherachullion Wind Farm Donegal		Number GC018		
Machine : Gouge Auger Method : Drive-in Windowless Sampler		Dimensions		Ground Level (mOD)		Client Ørsted		Job Number 10549-04		
				Dates 07	//09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
Remarks Goue Auger	refusal at 0.30m BG				(0.10) - (0.20) - (0.30) - (0.	Spongy dark brown pseudofibrous PEAT. Complete at 0.30m	Scale (approx)	Logge By	ed	
Soute Augel	Tolubul at 0.00III DG	<u>-</u>					1:25 Figure N 10549-04	JMD o.		

	Grou	nd Inv	vestigations Ir www.gii.ie	Site Clogherachullion Wind Farm Donegal			er 19		
Machine: Gouge Auger Method: Drive-in Windowless Sampler		Dimensions 50mm to 0.85m Location 584149.2 E 900838.9 N			Level (mOD) 06.49	Client Ørsted		Job Number 10549-04-2 Sheet 1/1	
				Dates 07/09/2022		Engineer TOBIN Consulting Engineers			
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T2			106.34	(0.70)	Spongy dark brown pseudofibrous PEAT. Complete at 0.85m		stle stle stle stle stle stle stle stle	
Remarks Gouge Auge	r refusal at 0.85m B0	GL					Scale (approx) 1:25 Figure N 10549-04		

	Grou	nd Inv	estigations Ir www.gii.ie	eland l	Site Clogherachullion Wind Farm Donegal		Number GC020		
Machine : Gouge Auger Method : Gouge Auger		Dimensions 50mm to 2.00m Location 584425.6 E 900246.8 N			Level (mOD) 29.29	Client Ørsted		Job Number 10549-04-2	
				Dates 07	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	_
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1 T2			129.14 128.79	(0.35)	Plastic brown pseudofibrous PEAT. Spongy brown pseudofibrous PEAT. Plastic brown pseudofibrous PEAT.		SMA SMA SMA SMA SMA SMA SMA SMA	
1.00-1.50	тз							alle alle alle alle alle alle alle alle alle alle alle alle	
1.50-2.00	T4			127.29	2.00	Complete at 2.00m		SALCA	
Remarks Gouge Auge	er refusal at 2.00m B	GL			<u> </u>		Scale (approx)	Logged By	
							1:25		_
								1-21.GC020)

	Grou	nd Inv	estigations lı www.gii.ie	reland	Ltd	Site Clogherachullion Wind Farm Donegal		Numb	
	Gouge Auger Gouge Auger	Dimension			Level (mOD)	Client Ørsted		Job Numb 10549-0	
		Location 5849	45.6 E 899907.3 N	Dates 07	7/09/2022	Engineer TOBIN Consulting Engineers		Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.50-0.90 Remarks Goura Aug	T1 T2				C. (0.15) C. (0.35) C. (0.40) C. (0.40) C. (0.90) C. (0.40) C. (0.	Spongy brown fibrous PEAT. Plastic dark brown to black pseudofibrous PEAT. Firm dark brown to black pseudofibrous PEAT. Complete at 0.90m	Scale (approx)	Logge By	
Gouge Auge	er refusal at 0.90m B	GL					1:25	JMD	
							Figure N 10549-04)21

	Grou	nd In	vestigations Iro www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number GC101		
Machine : G	ouge Auger rive-in Windowless ampler	Dimensi 50r			Level (mOD) 21.07	Client Ørsted		Job Numbe 10549-04	
		Location 584	n 1770.3 E 901423.6 N	Dates 06	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.35	T1			120.97	(0.25)	Spongy light brown fibrous PEAT. Firm brown pseudofibrous PEAT. Complete at 0.35m		able able salve able salve able salve able	
Remarks Gouge Auge	er refusal at 0.35m B	GL					Scale (approx) 1:25 Figure N		
							10549-04		01

	Grou	nd Inv	estigations Ir www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal			er 51
Machine : G Method : D S	ouge Auger rive-in Windowless ampler	Dimension 50m		Ground	Level (mOD)	Client Ørsted		Job Numb 10549-04	
		Location 5843	379.7 E 901561.7 N	Dates 06	5/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.50-0.85	T1				(0.15) - (0.35) - (0.35) - (0.35) - (0.35) - (0.35) - (0.35) - (0.36) - (0.36) - (0.37) - (0.37) - (0.38) - (0.	Plastic dark brown pseudofibrous PEAT. Spongy brown pseudofibrous PEAT. Plastic brown pseudofibrous PEAT. Complete at 0.85m		silve	
Remarks Gouge Auge	r refusal at 0.85m B0	GL					Scale (approx) 1:25 Figure N 10549-04		

	Grou	nd Inv	vestigations Iro www.gii.ie	Site Clogherachullion Wind Farm Donegal			er 52		
Machine : G	Gouge Auger Prive-in Windowless ampler	Dimension 50m			Level (mOD) 99.35	Client Ørsted		Job Number 10549-04	
		Location 5843	374.8 E 901506.3 N	Dates 06	5/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.50	T1	(m)		99.20	(0.15) - 0.15 (0.85)	Firm brown fibrous PEAT. Plastic brown pseudofibrous PEAT. Complete at 1.00m		alle alle alle alle alle alle alle alle	
					- - - - - -				
Remarks Gouge Auge	er refusal at 1.00m Bo	GL		'			Scale (approx)	Logge By	
							1:25 Figure N		
							10549-04		52

Clogherachullion Wind Farm Gouge Auger Photographs



GC01



GC01



GC02



GC03



GC04



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APPENDIX 4 – Peat Probe Records



	Grou	nd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Number	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	N	Job Numbe 1549-04-	
		Location 5847	797.8 E 900652.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	S	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	egend	Water
					0.72	Complete at 0.72m	salve salve salve salve salve	stoles	
Remarks Peat Probe	refusal at 0.72m BGI					Sca (appr		ogged Sy	
						1:2 Figu	25 ure No.	JMD	
							49-04-21	1.PP00	1

	Grou	nd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal	Numb	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	Job Numb 10549-0	
		Location 5849	901.3 E 900733.2 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					- (0.51) - 0.51	Complete at 0.51m	SHE	
Remarks Peat Probe i	refusal at 0.51m BGI	_				Scale (approx	Logge By	:d
						1:25 Figure	JMD No.	
							NO. 04 - 21.PP0	002

Grou	nd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP003
Machine: Peat Probe Method: Peat Probe	Dimensio 13mi		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-21
	Location 5850	077.8 E 900890.4 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Kater Water
Romarks				3.05	Complete at 3.05m		Str. Str. Str. Str. Str. Str. Str. Str.
Remarks Peat Probe refusal at 3.05m BGL	-					Scale approx)	Logged By JMD
					1	Figure No	

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5851	175.5 E 900970.9 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
					- (0.60) - 0.60	Complete at 0.60m	a	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe i	refusal at 0.60m BGI						Scale pprox)	Logged By	t
							1:25 Figure No	JMD	-
							0549-04-)4

	Grou	nd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal	II.	Numbe	- 1
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5850	931.7 E 901099.4 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Domarko					1.31	Complete at 1.31m	50	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe	refusal at 1.31m BGI	L						Logged By	t
						Fi	1:25 igure No		-
						10	0549-04-	21.PP00)5

	Grou	nd Inv	vestigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Number PP007	
Machine : P		Dimension 13m			Level (mOD) 81.72	Client Ørsted		Job Number 10549-04-2	
		Location 584	618.8 E 899629.6 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Domosto				180.05	1.67	Complete at 1.67m		able able able able able able able able	
Remarks Peat Probe i	refusal at 1.67m BGI	L				(Scale (approx)	Logged By JMD	
							Figure No. 10549-04		7

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal	Numi	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	Job Num 10549-	
		Location 5852	71.4 E 901047.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Shee	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
					(0.41) -	Complete at 0.41m	able able able able able able able able	lts.
Remarks Peat Probe i	refusal at 0.41m BGI					Scale (appro		
						1:25 Figur	JMI e No .)
							-04-21.PP	800

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe	
		Location 5853	951.9 E 901109 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	_egend	Water
					1.22	Complete at 1.22m	534 534 534 534 534	SMC SMC SMC SMC SMC SMC SMC SMC SMC SMC	
Remarks Peat Probe	refusal at 1.22m BGI	<u>_</u>						Logged By	1
						Fig	:25 gure No		4
							549-04-2		19

Ground Investigations Ireland Ltd www.gii.ie						Site Clogherachullion Wind Farm Donegal		Number PP010	
Machine : Peat Probe Method : Peat Probe		Dimensions		Ground Level (mOD) Dates 08/09/2022		Client Ørsted		Job Number 10549-04-21	
						Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	end ja	אמופו
Remarks					1.05	Complete at 1.05m	shke shke shke shke shke shke shke shke	able to able t	
Remarks Peat Probe refusal at 1.05m BGL								Logged By	
							re No.	MD	-
							9-04-21.F	PP010	,

Machine : Peac Probe Method : Peac Probe Method : Peac Probe Location SSS414.6 E 901304.8 N Depth No. Sample / Tests Organic Records Depth No. Sample / Tests Depth No. Sample / Tests Organic Records Depth No. Sample / Tests Depth No. Sample / Tests No. Sample / Tests Depth No. Sample / Tests No. Sam		Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP01	
Complete				ns	Ground	Level (mOD)			Numbe	
PEAT				174.6 E 901304.6 N	Dates 08	/09/2022				
PAN	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Peat Probe refusal at 2.37m BGL 1:25 JMD Figure No.									able able able able able able able able able	
Figure No.	Remarks Peat Probe r	efusal at 2.37m BGL	-							d
								Figure No	О.	11

Ground Investigations Ire					Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	1	Job Numbe 0549-04-	
		Location 5855	524.5 E 901561.5 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	egend	Water
					0.97	Complete at 0.97m	ale ale ale ale	silto	
Remarks Peat Probe	refusal at 0.97m BGI	L				Sca (appr		Logged By	t
						1:24 Figu	ure No.	JMD	
							49-04-2		12

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		umber P013	- 1
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		ob umber 49-04-2	
		Location 5855	570.5 E 901665.1 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sh	1/1	_
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leg	gend §	Water
					- (0.68) - 0.68	Complete at 0.68m	33/22 33/22 33/22 33/22 33/22 33/22	stra stra stra stra stra stra stra stra stra stra stra	
Remarks Peat Probe i	refusal at 0.68m BGI	_		1		Sca (appre	le Lo	ogged y	
						1:25		JMD	4
							ire No. 19-04-21.	.PP013	3

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		nber 014
Machine : P		Dimensio			Level (mOD) 47.67	Client Ørsted		n ber 9-04-21
		Location 5855	(dGPS) 553.7 E 901745.9 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers	She 1	et 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater Dn
Remarks				146.26	1.41	Complete at 1.41m	SHE	
Remarks Peat Probe	refusal at 1.41m BGI	L				Scal (appro		
							re No.	
						1054	9-04-21.P	P014

Ground Investigations Ire					Ltd	Site Clogherachullion Wind Farm Donegal	Num PP(nber 015
Machine : P		Dimensio			Level (mOD) 36.55	Client Ørsted	Job Num 10549	nber
		Location 5855	502.1 E 901823.5 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers	Shee	et
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leger	Mater bn
Romarks				135.46	1.09	Complete at 1.09m	SME	alle alle alle alle alle alle alle alle
Remarks Peat Probe	refusal at 1.09m BGI	L				Scal (appro		
						1:25 Figur	j JM re No.	iD
							9-04-21.PF	P015

G G	round In	vestigations Irel www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP01	
Machine : Peat Probe Method : Drive-in Windor Sampler	Dimens			Level (mOD) 129.01	Client Ørsted		Job Numbe 10549-04	
	Location 58	on 85477.6 E 901924.5 N	Dates 16	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m) Sample / T	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
			128.99	0.02	PEAT Complete at 0.02m			
Remarks Peat Probe refusal at 0.02	m BGL					Scale (approx)	Logge By	d
						Figure No. 10549-04	0.	 16

Ground Investigations Ire www.gii.ie				eland	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP01	
Machine : P	eat Probe	Dimensio		Ground	Level (mOD) 127.28	Client Ørsted		Job Numbe 10549-04	
		Location 5854	499.2 E 902042.7 N	Dates 16	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks Peat Probe	refusal at 0.23m BGI			127.05	. (0.23)	Complete at 0.23m	Scale (approx)	Logged By	d
	5 501						1:25	JMD	
							Figure N 10549-04		17

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 0549-04	
		Location 5854	153.6 E 901872.1 N	Dates 08	3/09/2022	Engineer TOBIN Consulting Engineers	:	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	.egend	Water
					0.97	Complete at 0.97m	salz salz salz salz	sska ka sska sska ka sska sska ka sska	
Remarks Peat Probe	refusal at 0.97m BGI	L				Sca (appro		Logged By	t
						1:29 Figu	25 ure No.	JMD	
								21.PP01	18

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number	- 1
Machine : P		Dimensio			Level (mOD) 111.86	Client Ørsted	1	Job Numbe 0549-04-	
		Location 5853	339.9 E 901878.3 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	egend	Water
Remarks				110.48	1.38	Complete at 1.38m	sake sake sake sake sake sake	salle sa	
Remarks Peat probe r	refusal at 1.38m BGL	-				Sca (appr	ale l rox)	Logged By	ı
						1:2	25 Jure No.	JMD	\dashv
							549-04-2		9

Ground Investigations Ire www.gii.ie					Ltd	Site Clogherachullion Wind Farm Donegal		Number PP02	- 1
Machine : P		Dimensio			Level (mOD) 04.06	Client Ørsted		Job Numbe 10549-04	
		Location 5852	201.9 E 901893.1 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Damaska				102.34	1.72	Complete at 1.72m		able able able able able able able able	
Remarks Peat Probe	refusal at 1.72m BGI			•			Scale (approx)	Logge By	d
							1:25 Figure N	JMD o.	_
							10549-04		20

	Grou	nd In	vestigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP02	
Machine : P		Dimensi 13n			Level (mOD) 24.33	Client Ørsted		Job Numbe 10549-04	
		Location 585	n 5528.9 E 902164.4 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				124.21	(0.12) - (0.	PEAT Complete at 0.12m		silke	
Remarks Peat Probe r	refusal at 0.12m BGI	_					Scale (approx) 1:25	Logged By JMD	
							10549-04		21

Ground Investigations Iro					Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P	eat Probe	Dimensi		Ground	Level (mOD) 121.38	Client Ørsted		Job Numbe 10549-04	
		Location 585	518.6 E 902227.5 N	Dates 16	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks Peat Probe	refusal at 0.11m BGL			121.27	(0.11) 	PEAT Complete at 0.11m	Scale (approx)	Logged By	d
. cat i iobe i	Siadai at U. HIII DUL	-					1:25	JMD	
							Figure No. 10549-04		22

	Grou	nd In	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP023		
Machine : P	eat Probe rive-in Windowless ampler	Dimensi 13r			Level (mOD) 119.02	Client Ørsted		Job Number 10549-04-2		
		Location 588	n 5529.6 E 902301.2 N	Dates 16	6/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
				118.09	0.93	Complete at 0.96m		SHE		
Remarks Peat Probe	refusal at 0.96m BGI	-					Scale (approx)	Logged By		
							1:25 Figure N		_	
								-21.PP023	;	

	Grou	nd Inv	vestigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP02		
Machine : P		Dimensi			Level (mOD) 00.52	Client Ørsted		Job Numbe 10549-04	
			n (RTK Float) 6627.9 E 902465.9 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				100.50	0.02	PEAT Complete at 0.02m			
Remarks Peat Probe r	refusal at 0.02m BGL	-					Scale (approx)	Logge By	
							Figure No. 10549-04		24

	Grou	nd Inv	vestigations Ir www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal			Number PP025	
Machine : P	eat Probe	Dimensio		Ground	Level (mOD) 94.50	Client Ørsted		Job Numbe 10549-04	
			(Autonomous) 671.1 E 902507.8 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks Peat Probe I	refusal at 0.01m BGI			94.49	0.01	PEAT Complete at 0.01m	Scale (approx)	Logge	d
. Jaki jobe i	e.aca. at v.v IIII DOL	-					1:25	JMD	
							Figure N 10549-04		25

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP026		
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		ob umber 49-04-2	
		Location 5863	308.8 E 901738.9 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sh	neet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leg	gend to	Water
					0.97	Complete at 0.97m	34/2 34/2 34/2 34/2 34/2 34/2 34/2 34/2	sta	
Remarks Peat Probe	refusal at 0.97m BGI					Scal (appro		ogged y	
						1:25 Figur	re No.	JMD	_
							9-04-21.	.PP026	,

Grou	ınd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		er 27	
Machine: Peat Probe Method: Peat Probe	Dimensio 13mi		Ground	Level (mOD)	Client Ørsted	Job Number 10549-04	
	Location 5862	49.3 E 901740.8 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sheet 1/1	
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				- (0.35) - 0.35 - 0.35	Complete at 0.35m	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe refusal at 0.35m BG	L				Scale (approx) 1:25 Figure N 10549-0		

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP028		
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5861	45.8 E 901765.8 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
					2.30	Complete at 2.30m		state street str	
Remarks Peat Probe r	refusal at 2.30m BGL	-					Scale (approx)	Logge By	d
						-	Figure No	о.	28
							10549-04	-21.PP02	28

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		oer 29	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	Job Numb 10549-0	
		Location 5861	03.6 E 901832.8 N	Dates 08	3/09/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					0.45) - 0.45	Complete at 0.45m	SMZ	(a (a
Remarks Peat Probe i	refusal at 0.45m BGI					Scale (approx	Logge By	ed
						1:25 Figure	JME)
							• No. ·04 - 21.PP	029

Dimensions Peat Probe 13mm to 23mm 23mm to 23mm 188.52 Manufacture Peat Probe 13mm to 23mm to 23mm 188.52 Manufacture Ma		Grou	nd Inv	vestigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP030		
1908 1908				ons					Numbe	
PEAT					Dates 16	/06/2022				
Remarks Pead Piccle refusal at 2.97m BGL Remarks Pead Piccle refusal at	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Peat Probe refusal at 2.97m BGL 1:25 JMD Figure No.					185.55		Complete at 2.97m		shke	
Figure No.	Remarks Peat Probe i	refusal at 2.97m BGI	L				(1
1 40F40 04 04 DD000 1								Figure No	0.	20

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal	Num PP0		
Machine : P		Dimensio			Level (mOD) 88.92	Client Ørsted	Job Num 10549-	
			(Autonomous) 033.4 E 901942.8 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers	Shee	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
				188.53	- (0.39) - 0.39 - 0.39	Complete at 0.39m	SHE SA	des.
Remarks Peat Probe	refusal at 0.39m BGI			1		Scale (appro		
						1:25 Figur	JMI e No.	ס
							-04-21.PP	² 031

	Grou	nd Inv	estigations Ire www.gii.ie	Site Clogherachullion Wind Farm Donegal		nber 033		
Machine : P		Dimension 13mr		Ground	Level (mOD)	Client Ørsted		n ber 9-04-21
		Location 5860	17.3 E 902015 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	She	e et 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Water
Domasta					1.23	Complete at 1.23m	able able able able able able able able	
Remarks Peat Probe	refusal at 1.23m BGI	_				Scale (appro		ged
							re No.	ИD
						10549	9-04-21.P	P033

Discussion		Grou	nd Inv	estigations Ire www.gii.ie	Site Clogherachullion Wind Farm Donegal		Number PP034			
Comparison Com				ons					Numbe	
Ramarks. Pend Protee rehasol at 0.45m BGI. Remarks. Pend Protee rehasol at 0.45m BGI.				945.6 E 902119.3 N	Dates 16	/06/2022				
PEA	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Peat Probe refusal at 0.48m BGL 1:25 JMD Figure No.					170.95	_		es es	Alea astea astea astea astea astea astea astea	
Figure No.	Remarks Peat Probe i	refusal at 0.48m BGI	<u> </u>							d
1 40F10 01 01 BB001 1							Fi	igure No).	24

	Grou	nd Inv	estigations Ire www.gii.ie	Site Clogherachullion Wind Farm Donegal		oer 36		
Machine : P		Dimensio			Level (mOD) 82.47	Client Ørsted	Job Numb 10549-0	
		Location 5859	982.1 E 902032.8 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
Domasta				181.33	1.14	Complete at 1.14m	SMA	
Remarks Peat Probe	refusal at 1.14m BGI					Scale (approx		
						1:25 Figure	JMC)
							. No. -04-21.PP(036

	Grou	nd Inv	vestigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		ber 137
Machine : P		Dimensio			Level (mOD) 78.66	Client Ørsted	Job Numl 10549-0	
		Location 5860	019.3 E 902049.4 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers	Shee	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
Remarks				177.51	1.15)	Complete at 1.15m	SMZ	
Remarks Peat Probe	refusal at 1.15m BGI	L				Scale (appro		
						1:25 Figur		
							-04-21.PP	037

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		ber 138
Machine : P		Dimensio			Level (mOD) 43.83	Client Ørsted	Job Numb 10549-0	
		Location 5845	580.1 E 900385.8 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
				142.70	1.13	Complete at 1.13m	SME	
Remarks Peat Probe	refusal at 1.13m BGI	_				Scale (appro		
						1:25 Figure		
						10549	-04-21.PP	038

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP039		
Machine : P		Dimensio			Level (mOD) 55.92	Client Ørsted		Job Numbe 10549-04		
		Location 5845	574.3 E 900467.1 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water	
Damaska				155.04	(0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88)	Complete at 0.88m		stoles steen		
Remarks Peat Probe	refusal at 0.88m BGI					(a	Scale pprox)	Logged By	t	
							1:25 Figure No	JMD	_	
							10549-04-		39	

	Ground Investigations Ire www.gii.ie				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP040		
Machine : P	eat Probe	Dimensio		Ground	Level (mOD) 55.58	Client Ørsted		Job Number 10549-04		
		Location 5845	583.8 E 900663.9 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
Remarks				154.67	0.91	Complete at 0.91m	Sealo	solve silve		
Remarks Peat Probe i	refusal at 0.91m BGL	-					Scale (approx)	Logge By		
							1:25 Figure N	JMD lo.	_	
							10549-04		10	

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		ber)41
Machine : P		Dimensio			Level (mOD) 47.85	Client Ørsted	Job Num 10549-	
		Location 5845	566.7 E 900730.9 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	Shee	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
				146.92	0.93	Complete at 0.93m	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	Jes Jes Jes Jes Jes
Remarks Peat Probe	refusal at 0.93m BGI					Scale (approx		
						1:25 Figure	JMI • No.	D
							. NO. -04-21.PP	²041

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP042	
Machine : P		Dimensio			Level (mOD) 22.10	Client Ørsted		Job Numbe 10549-04	
		Location 5844	119.8 E 900863.6 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
				121.55	- (0.55) - (0.55) - (0.55) - (0.55) - (0.55) - (0.56) - (Complete at 0.55m	u	SALCE	
Remarks Peat Probe	refusal at 0.55m BGI	-					Scale approx)	Logged	t
						F	1:25		
						1	10549-04-	-21.PP04	1 2

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		ber 43
Machine : P		Dimension 13mr			Level (mOD) 32.96	Client Ørsted	Job Numb 10549-0	
		Location 5844	74.3 E 900808.3 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
				132.57	- (0.39) - 0.39 - 0.39	Complete at 0.39m	Alex sale sale sale sale sale sale sale sale	12
Remarks Peat Probe	refusal at 0.39m BGI	-		-		Scale (approx	Logg By	ed
						1:25 Figure	JME)
							. No. -04-21.PP	043

Ground I	nvestigations Ire www.gii.ie	and Ltd		Site Clogherachullion Wind Farm Donegal		nber 044
	nsions I3mm to 1.49m		Level (mOD) 07.03	Client Ørsted		n ber 9-04-21
Locat	ion 584223.7 E 900876.8 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	She	et 1/1
Depth (m) Sample / Tests Wate Dept (m)	r h Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater Dn
Remarks		105.54	1.49	Complete at 1.49m	style	
Remarks Peat Probe refusal at 1.49m BGL				Sca (appr		
				Figu	u re No. 49-04-21.P	

	Grou	nd Inv	vestigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Number PP045	
Machine : P		Dimensio			Level (mOD) 05.54	Client Ørsted		Job Numbe 10549-04	
		Location 5841	113.8 E 900828.7 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	1	Legend	Water
Domarko				103.71	1.83	Complete at 1.83m		SMA SMA SMA SMA SMA SMA SMA SMA	
Remarks Peat Probe	refusal at 1.83m BGI	<u>_</u>					Scale approx)	Logged By	t
						ı	1:25 Figure No		
						1	10549-04-	-21.PP04	1 5

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Number PP046		
Machine : P		Dimensio			Level (mOD) 95.94	Client Ørsted		Job Numbe 10549-04		
		Location 5840	094 E 900933.3 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
				95.07	0.87)	Complete at 0.87m		able solve s		
Remarks Peat Probe i	refusal at 0.87m BGI						Scale (approx)	Logged By	d	
							1:25 Figure N	JMD	\dashv	
							10549-04		46	

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Number PP047	
Machine : P		Dimensio			Level (mOD) 117.66	Client Ørsted		Job Numbe 10549-04	
		Location 5841	180 E 900570.8 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				116.99	- (0.67) - (Complete at 0.67m	2	silve	
Remarks Peat Probe	refusal at 0.67m BGI	-		1		(2	Scale approx)	Logged By	d
							1:25 Figure No	JMD	
							10549-04		47

	Grou	nd Inv	estigations Ire www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP048	
Machine : P		Dimensio			Level (mOD) 92.75	Client Ørsted		Job Numbe 0549-04	
		Location 5837	777.7 E 901352.5 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend.	Water
Pomarks				91.11	1.64	Complete at 1.64m	sale sale sale sale sale sale sale sale	SMK SMK SMK SMK SMK SMK SMK SMK	
Remarks Peat Probe	refusal at 1.64m BGI	_						Logged By	t
						Fig	:25 gure No.		
							549-04-2		48

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		mber P049
Machine : P		Dimensio			Level (mOD) 97.93	Client Ørsted		o mber 9-04-21
		Location 5838	301.4 E 901377.7 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers	She	eet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater bne
				97.23	- (0.70) - 0.70 - 0.70	Complete at 0.70m	.ssk. .ssk. .ssk.	saliza saliza saliza saliza saliza saliza saliza saliza
Remarks Peat Probe i	refusal at 0.70m BGI	_				Scal (appro		gged MD
						Figur	r e No. 9-04-21.F	

	Grou	nd Inv	estigations Ire www.gii.ie	Site Clogherachullion Wind Farm Donegal	Numl			
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	Job Numl 10549-0	
		Location 5838	38.1 E 901443.6 N	Dates 07	//09/2022	Engineer TOBIN Consulting Engineers	Shee	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
Domasta					1.09	Complete at 1.09m	SMA	
Remarks Peat Probe	refusal at 1.09m BGI	_				Scale (appro		
						1:25 Figur		
						10549	-04-21.PP	050

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal	Numl		
Machine : P		Dimension 13mr		Ground	Level (mOD)	Client Ørsted	Job Numl 10549-0	
		Location 5847	49.8 E 901289.3 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Shee	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
					. (0.25) - 0.25 0.25	Complete at 0.25m	shtz sht	
Remarks Peat Probe i	refusal at 0.25m BGI					Scale (approx		
						1:25 Figure	JME No.)
							-04-21.PP	051

	Grou	nd Inv	vestigations Ir www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe		
Machine : P		Dimension 13n		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 584	787.3 E 901320.9 N	Dates 08	3/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Pomorko					. (0.32)	Complete at 0.32m		style style style style style style style style	
Remarks Peat Probe r	refusal at 0.32m BGI	L					Scale (approx)	Logged By	d
							Figure N 10549-04	o.	52

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal	Numb	
Machine : P		Dimensio 13mr			Level (mOD) 123.42	Client Ørsted	Job Numb 10549-0	
		Location 5848	23 E 901362.6 N	Dates 16	5/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				122.93	(0.49)	Complete at 0.49m	SALCE	ta ta
Remarks Peat Probe	refusal at 0.49m BGI			•		Scale (appro		
						1:25 Figure		
							-04-21.PP(053

	Grou	nd Inv	vestigations Irel www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Number PP054	
Machine : P		Dimensio			Level (mOD) 111.61	Client Ørsted		Job Numbe 10549-04	
		Location 5847	717.9 E 901473.4 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Domasta				109.85	1.76	Complete at 1.76m		SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe	refusal at 1.76m BGI	L				(Scale (approx)	Logged By	t
							1:25 Figure No		_
							10549-04		54

Discussion Summarion Discussion Dis		Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP055	
Companies				ons					Numbe	
Total PEAT PEAT					Dates 16	/06/2022				
PEA	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Peat Probe refusal at 1.96m BGL 1:25 JMD Figure No.					106.16				shle shle shle shle shle shle shle shle shle	
Figure No.	Remarks Peat Probe i	refusal at 1.96m BGI	_							t
10549-04-21.PP055								Figure N	lo.	

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal	Number PP05		
Machine : P		Dimensio			Level (mOD) 80.68	Client Ørsted	Job Number 10549-04	
		Location 5838	330.6 E 901790.7 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				80.34	- (0.34) - 0.34	Complete at 0.34m	SMA	
Remarks Peat Probe r	refusal at 0.34m BGI					Scale (approx) 1:25	Logge By	
						Figure N 10549-0	lo. 4-21.PP0	56

	Grou	nd Inv	estigations Ire www.gii.ie	land Ltd		Site Clogherachullion Wind Farm Donegal		Number PP057	
Machine : P		Dimensio			Level (mOD) 78.93	Client Ørsted		Job Numbe 10549-04	
		Location 5837	72 E 901801.3 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				77.98	0.95)	Complete at 0.95m	5 5 5 5	shle she she she she she she she she she sh	
Remarks Peat Probe	refusal at 0.95m BGI	_			1		Scale (approx)	Logged By	t
							1:25	JMD o.	
							10549-04		57

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe		
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 0549-04	
		Location 5839	936.8 E 901513.6 N	Dates 07	//09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend.	Water
					0.72	Complete at 0.72m	53b 53b 53b	SME VE SME SME VE SME	
Remarks Peat Probe	refusal at 0.72m BGI	L		•		Sc	cale orox)	Logged By	t
							25 gure No.	JMD	
							gure No. 549-04-2		58

Machine : Peat Probe Dimensions Ground Level (mOD) Client Job Number (10549-04-2*) Method : Peat Probe Location Dates (08/09/2022) Engineer Sheet TOBIN Consulting Engineers 1/1		Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP059	
TORN Canading Engineers Total Sample Total Samp				ns	Ground	Level (mOD)			Job Number 10549-04-21
PEAT				12.8 E 902196.2 N	Dates 08	/09/2022			
PEAI	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Kegend Page V
Peat Probe refusal at 4.82m BGL 1:25 JMD Figure No.	Romarks								shire
Figure No.	Remarks Peat Probe	refusal at 4.82m BGI	-					(approx)	
1 40540 04 04 050000								Figure N	lo.

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal	Num PP(
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	Job Num 10549	n ber -04-21
		Location 5848	15 E 902295.9 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Shed	et /1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leger	Mater Dr
					- (0.61) - 0.61	Complete at 0.61m	shte s shte s shte s shte shte s shte	Alza Alza
Remarks Peat Probe	refusal at 0.61m BGI					Scali (appro		
						1:25	JM re No.	D
							е но. 9-04-21.РГ	2060

Dimension Post Probe Dimensions Dime	Ground Investigations Irel				eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP061	
Companies				ons					Numbe	
PEAT					Dates 08	/09/2022				
Remarks Pead	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Peat Probe refusal at 1.88m BGL 1:25 JMD Figure No.					107.18		Complete at 1.88m		able she she she she she she she she she sh	
Figure No.	Remarks Peat Probe	refusal at 1.88m BGI	<u>_</u>							t
10549-04-21.PP061							ı	Figure No	0.	_

Ground Investigations Irela					Ltd	Site Clogherachullion Wind Farm Donegal		Number PP062	
Machine : P		Dimension 13m			Level (mOD) 00.82	Client Ørsted		Job Number 0549-04-2	
			(RTK Float) 126.6 E 902992.8 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers	:	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend	Water
Domarko				99.37	1.45	Complete at 1.45m	sales	able te shire shire te shire shire te shire te shire te shire te shire te shire shire shire shire shire te shire shire te shire shire te shire	
Remarks Peat Probe	refusal at 1.45m BGI	_				Sca (appl		Logged By	
						1:2	25 gure No.	JMD	
								• 21.PP062	2

Ground Investigations Ire www.gii.ie				eland Ltd		Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 96.68	Client Ørsted		Job Numbe 10549-04	∍r ∤-21
		Location 5860	091.4 E 902898.2 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				95.87	0.81)	Complete at 0.81m	8	sable	
Remarks Peat Probe	refusal at 0.81m BGI						Scale (approx)	Logged By	d
							1:25 Figure N	JMD	
							10549-04		63

Ground Investigations Ire www.gii.ie					Ltd	Site Clogherachullion Wind Farm Donegal		Number PP064	
Machine : P		Dimension 13m			Level (mOD) 31.57	Client Ørsted	1	Job Numbei 0549-04-	
		Location 586	330.9 E 902628.9 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers	S	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	egend	Water
Romarks				130.21	1.36	Complete at 1.36m		shle shle shle shle shle shle shle shle	
Remarks Peat Probe	refusal at 1.36m BGI	L				Sca (appr		Logged By	1
							ure No.		+
							49-04-2		4

Ground Investigations Irel				eland	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP06	
Machine : P	eat Probe	Dimensio		Ground	Level (mOD) 139.08	Client Ørsted		Job Numbe 10549-04	
		Location 586	498.3 E 902419.8 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks Peat Probe in	refusal at 0.04m BGI			139.04	0.04	PEAT Complete at 0.04m	Scale (approx)	Logge-By	d
							1:25	JMD	
							Figure N 10549-04		65

Ground Investigations Ire www.gii.ie				eland Ltd		Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 39.40	Client Ørsted		Job Numbe 10549-04	
		Location 5864	171.3 E 902446.3 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				138.62	0.78	Complete at 0.78m	5	SMA	
Remarks Peat Probe	⊥ refusal at 0.78m BGI	_				(1	Scale (approx)	Logged By	t
							1:25	JMD	
							10549-04		36

Ground Investigations Ire				eland Ltd		Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 76.49	Client Ørsted		Job Numbe 0549-04	
			(Autonomous) 647.9 E 903216.5 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers	:	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	.egend	Water
				75.88	- (0.61) - (Complete at 0.61m	23/z 23/z 23/z	SME VE SME VE SME SME VE SME SME VE SME VE SME	
Remarks Peat Probe	refusal at 0.61m BGI	-				Sc. (app		Logged	t
							gure No.		-
						105	549-04-2	21.PP06	37

	Ground Investigations Ireland www.gii.ie					Site Clogherachullion Wind Farm Donegal	Nu PF		
Machine : P		Dimensi			Level (mOD) 70.11	Client Ørsted		Job Numbe 10549-04	
			n (Autonomous) 643.6 E 903263.8 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				70.07	0.04	PEAT Complete at 0.04m		sWa .	
Remarks Peat Probe r	refusal at 0.04m BGI	-					Scale (approx)	Logge By	d
							Figure No.		68

	Ground Investigations Ireland www.gii.ie				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP06	
Machine : P		Dimension 13m			Level (mOD) 56.80	Client Ørsted		Job Numbe 10549-04	
			n (Autonomous) 643 E 903387.8 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				56.77	0.03	PEAT Complete at 0.03m		Alt.	
Remarks Peat Probe r	refusal at 0.03m BGI						Scale (approx)	Logge By	
							Figure No.		69

Ground Investigations Ire www.gii.ie				land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimension 13m			Level (mOD) 56.04	Client Ørsted		Job Numbe 10549-04	
			(Autonomous) 675.8 E 903462.5 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Domarko				53.51	2.53	Complete at 2.53m		shle shle shle shle shle shle shle shle	
Remarks Peat Probe	refusal at 2.53m BGI	<u> </u>					Scale (approx)	Logged By	t
							1:25 Figure No		
							10549-04		70

Ground Investigations Ire www.gii.ie				eland Ltd		Site Clogherachullion Wind Farm Donegal	Number PP07	- 1
Machine : P		Dimension 13mr			Level (mOD) 80.76	Client Ørsted	Job Number 10549-04	
		Location 5849	30.1 E 903106 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				80.40		Complete at 0.36m	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe r	efusal at 0.36m BGI	-				Scale (approx) 1:25 Figure N 10549-04		

Grou	estigations Ir www.gii.ie	eland Ltd		Site Clogherachullion Wind Farm Donegal		Numbe		
Machine : Peat Probe Method : Peat Probe	Dimension 13mr			Level (mOD) 69.83	Client Ørsted		Job Numbe 10549-04	
	Location 5850	82.5 E 903246 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
			69.44	(0.39) - (0.39) - (0.39) - (0.39) - (0.39) - (0.39) - (0.39)	Complete at 0.39m		alle alle sille alle sille sille sille	
Remarks Peat Probe refusal at 0.39m BGI	L					Scale (approx)	Logged By	t
						Figure N 10549-04	o.	72

Grou	und Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal	Numb	- 1
Machine : Peat Probe Method : Peat Probe	Dimensio		Ground	Level (mOD)	Client Ørsted	Job Numb 10549-0	
	Location 5852	209.3 E 903311.7 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				- (0.44) - 0.44	Complete at 0.44m	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe refusal at 0.44m Br	GL				Scale (approx	Logge By	
					Figure		

	Grou	nd In	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal			r '4
Machine : P	eat Probe rive-in Windowless ampler	Dimensi 13r			Level (mOD) 64.17	Client Ørsted		Job Number 10549-04-21	
		Location 588	n 5270.3 E 903348.7 N	Dates 08	8/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				63.86		Complete at 0.31m		SHE SHE SHE SHE SHE SHE SHE SHE SHE	
Remarks PEat Probe	refusal at 0.31m BGI	L					Scale (approx) 1:25	Logged By JMD o.	t
							10549-04		74

	Grou	nd Inv	estigations Ire www.gii.ie	eland l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP07	
Machine : P		Dimension 13mr		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5849	95.8 E 903026.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
					1.27	Complete at 1.27m		alle alle alle alle alle alle alle alle	
Remarks Peat Probe r	refusal at 1.27m BGI	-					Scale (approx)	Logged By	d
							1:25 Figure N	JMD o.	
							10549-04	-21.PP0	75

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 96.62	Client Ørsted		Job Numbe 10549-04-	
		Location 5850	040 E 902969.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Damaska				94.57	2.05	Complete at 2.05m		shle shle shle shle shle shle shle shle	
Remarks Peat Probe	refusal at 2.05m BGI	-					Scale (approx)	Logged By	i
							1:25 Figure No		\dashv
							10549-04		'6

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		mber P077	
Machine : P		Dimensio 13mi		Ground	Level (mOD)	Client Ørsted		b I mber 19-04-21	1
		Location 5850	086.5 E 902891.1 N	Dates 07	//09/2022	Engineer TOBIN Consulting Engineers		eet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leg	Mater bne	
Remarks					1.05	Complete at 1.05m	SMA	able te salte	
Remarks Peat Probe	refusal at 1.05m BGI	L				Scal (appro		gged	
							re No.	MD	-
							9-04-21.	PP077	

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP078	
Machine : P		Dimension 13mm		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-21
		Location 5851	22.3 E 902823.4 N	Dates 07	7/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Kagend Page Y
					2.73	Complete at 2.73m		state stre stre stre stre stre stre stre st
Remarks Peat Probe r	efusal at 2.73m BGI	-					Scale (approx)	Logged By JMD
							Figure N 10549-04	 o. -21.PP078

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP079	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Number 0549-04-2	1
		Location 5851	159.4 E 902747.9 N	Dates 07	7/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend Nage.	-
						Complete at 2.94m	sale sale sale sale sale sale sale sale	SMAC SMAC	
Remarks Peat Probe	refusal at 2.94m BGI	L						Logged By	
						Fig	:25 gure No.		
								21.PP079	

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimension 13m			Level (mOD) 01.55	Client Ørsted		Job Numbe 10549-04	
		Location 585	194.3 E 902664.5 N	Dates 07	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Domarko				99.72	1.83	Complete at 1.83m		stille	
Remarks Peat Probe i	refusal at 1.83m BGI	_					Scale (approx)	Logged By	t
							Figure No.	0.	30

Grou	ınd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP081	
Machine : Peat Probe Method : Peat Probe	Dimensio			Level (mOD) 03.73	Client Ørsted		Job Number 10549-04-21	
	Location 5852	224.1 E 902593.4 N	Dates 07	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend ja	
			101.92	1.81	Complete at 1.81m		SMAC SMAC	
Remarks Peat Probe refusal at 1.81m BG	L					cale prox)	Logged By JMD	
					Fig	gure No.		

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5850	21.3 E 902865.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
					0.84	Complete at 0.84m	5	state	
Remarks Peat Probe	refusal at 0.84m BGI			•		(a)	Scale pprox)	Logged By	t
							1:25 Figure No	JMD	-
							10549-04		32

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		lumbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted	N	lob lumbe 549-04	
		Location 5849	986.8 E 902811.9 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	s	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	gend	Water
					- (0.46) - 0.46 0.46	Complete at 0.46m	. 3 (2) 2 (2	sales : sales : sales : sales	
Remarks Peat Probe	refusal at 0.46m BGI					Scal (appro		ogged	d
						1:25 Figu	ire No.	JMD	-
							19-04-21	1.PP08	33

	Grou	nd Inv	estigations Ire www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP084	
Machine : P		Dimensio			Level (mOD) 108.31	Client Ørsted		Job Number 10549-04-21
		Location 5847	743.2 E 902463 N	Dates 08	3/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/2
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Vater Water
Remarks					(5.94)	PEAT		SHE
Remarks Peat Probe t	terminated at 5.94m	BGL due to	max length of Peat Probe ro	ods			Scale (approx)	Logged By
							1:25 Figure N	
							10549-04	-21.PP084

	Ground Investigations Ire www.gii.ie				Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P	eat Probe	Dimensio		Ground	Level (mOD) 108.31	Client Ørsted		Job Numbe 10549-04	
		Location 5847	743.2 E 902463 N	Dates 08	3/09/2022	Engineer TOBIN Consulting Engineers		Sheet 2/2	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks				102.37	5.94	Terminated at 5.94m		Logged By	t e
						,	1:25	JMD	
							Figure No. 10549-04		34

Ground Investigations Ire www.gii.ie				land	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5846	330.1 E 902267.3 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Pomarks					2.82	Complete at 2.82m		able able able able able able able able able	
Remarks Peat Probe	refusal at 2.82m BGI	_					Scale (approx)	Logged By	i
							1:25 Figure No		-
							10549-04		35

Ground Investigations Ire					Ltd	Site Clogherachullion Wind Farm Donegal		Number	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Number 10549-04-2	
		Location 5845	567.5 E 902186.8 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ſ	Legend	Water
Remarks						Complete at 2.98m		alle silve s	
Remarks Peat Probe i	refusal at 2.98m BGI	_				(8	Scale approx)	Logged By JMD	
							Figure No 10549-04-		6

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 04.05	Client Ørsted		Job Numbe 10549-04	
		Location 5848	318.8 E 902569.3 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				103.31	0.74	Complete at 3.74m		able silve	
Remarks Peat Probe	refusal at 3.74m BGI	_		ı	•		Scale (approx)	Logged	d
							1:25 Figure N	JMD	-
							10549-04		87

Ground Investigations Ire www.gii.ie					Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5848	864.1 E 902630.3 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
					0.74	Complete at 0.74m	5	astle atles sold astles sold a	
Remarks Peat Probe	refusal at 0.74m BGI						Scale (approx)	Logged By	t
							1:25	JMD o.	-
							10549-04		38

Discussion Discussion Discussion Colored Color		Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal	l l	mber 1089	- 1
1				ns	Ground	Level (mOD)		Nur	nber	
Remarks Pet Probe refused at 1.03m BGL				16.5 E 902708.3 N	Dates 08	/09/2022				
PEA	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	end 5	Water
Peat Probe refusal at 1.03m BGL 1:25 JMD Figure No.	Domasta					- - - - - - -	Complete at 1.03m	skle skle skle skle skle skle skle skle		
Figure No.	Remarks Peat Probe i	refusal at 1.03m BGI	L							
1 A0E 10 01 01 BB000 1							Figu	re No.		

	Grou	nd In	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP090
Machine : P		Dimensi 13n			Level (mOD) 100.67	Client Ørsted		Job Number 10549-04-21
		Location 584	1 507.3 E 902119.4 N	Dates 08	3/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/2
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nater
					(5.19)	PEAT		shire
Remarks Peat Probe r	refusal at 5.19m BGI	<u> </u>					Scale (approx)	Logged By
							1:25 Figure N	
							10549-04	4-21.PP090

	Ground Investigations Ire				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP09	
Machine : P	eat Probe	Dimensio		Ground	Level (mOD) 00.67	Client Ørsted		Job Numbe 10549-04	
		Location 584	507.3 E 902119.4 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 2/2	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Remarks				95.48	5.19	Complete at 5.19m	, Scale	Logge	d
Nomarks							Scale (approx)	Logge By	d
							Figure No. 10549-04	0.	90

	www.gii.ie				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP091
Machine : P	Peat Probe	Dimension			Level (mOD)	Client Ørsted		Job Number 10549-04-21
		Location 5842	61.1 E 902375.1 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Kater Value
Remarks Peat Probe	refusal at 2.72m BGI				2.72	Complete at 2.72m		SME
11.525	_ _ _						1:25	JMD
							Figure N 10549-04	lo. 4-21.PP091

Ground Investigations Ireland L						Site Clogherachullion Wind Farm Donegal		umbe P09	
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		ob umbe 49-04-	
		Location 5842	241.4 E 902410.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sh	1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leg	gend	Water
Pomarks					1.04	Complete at 1.04m	able substantial	Ma Jana Ja	
Remarks Peat Probe	refusal at 1.04m BGI	<u> </u>				Scal (appro		ogged y	Ł
						1:25 Figu i	5 J i re No .	JMD	
							9-04-21.	.PP09	32

Ground Investigations Irel					Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04	
		Location 5842	11.2 E 902467.7 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
					1.89	Complete at 1.89m	62 62 62 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe i	refusal at 1.89m BGI							Logged By	t
							1:25 igure No	JMD o.	_
							0549-04-) 3

	Grou	nd Inv	estigations Ire www.gii.ie	land l	and I td	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimension 13mr		Ground	Level (mOD)	Client Ørsted		Job Numbe 10549-04-	
		Location 5851	62 E 901900.1 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	1	Legend	Water
Pomarks					1.59	Complete at 1.59m		SMA	
Remarks Peat Probe	refusal at 1.59m BGI	<u>_</u>					Scale approx)	Logged By	t
						ı	1:25 Figure No		
							10549-04-		}4

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Number	
Machine : P		Dimensio			Level (mOD) 06.08	Client Ørsted		Job Number 0549-04-	
		Location 5852	258.4 E 901884.8 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	.egend	Water
Domasta				104.78	1.30	Complete at 1.30m	sale sale sale sale sale sale sale	Alle Alle Alle Alle Alle Alle Alle Alle	
Remarks Peat Probe	refusal at 1.30m BGI	<u>_</u>						Logged By	1
						Fig	:25 gure No.		\dashv
						105	549-04-2	21.PP09	15

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio			Level (mOD) 09.69	Client Ørsted		Job Numbe 10549-04	
		Location 5853	313.8 E 901879.6 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				108.81	- (0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88)	Complete at 0.88m		sable	
Remarks Peat Probe	refusal at 0.88m BGI	<u>_</u>				(2	Scale approx)	Logged By	d
							1:25 Figure No		
							10549-04-		96

	Ground Investigations Ire www.gii.ie				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP097
Machine : Po		Dimension 13m			Level (mOD) 116.36	Client Ørsted		Job Number 10549-04-2
		Location 585	376.6 E 901875.1 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend page 3
				115.21	1.15	Complete at 1.15m		able able able able able able able able
Remarks Peat Probe r	refusal at 1.15m BGI	-					Scale (approx)	Logged By JMD
							Figure N	

Ground Investigations Irela					Ltd	Site Clogherachullion Wind Farm Donegal		umbe P09	- 1
Machine : P		Dimensio		Ground	Level (mOD)	Client Ørsted		ob umbe 49-04	
		Location 5854	129.8 E 901873.3 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sh	1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leg	jend	Water
Pomarks					1.04	Complete at 1.04m	SME SM SME SME SME SME SME SME SME SME S	Ma January Marian January Ma	
Remarks Peat Probe i	refusal at 1.04m BGI	_				Scal (appro		ogged /	t
						1:25 Figu	5 J	JMD	
							19-04-21.	.PP09	98

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal	Numb	
Machine : P		Dimension 13mr		Ground	Level (mOD)	Client Ørsted	Job Numb 10549-0	
		Location 5854	76.6 E 901868.4 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					- (0.44) - 0.44	Complete at 0.44m	SMZ	
Remarks Peat Probe i	refusal at 0.44m BGI	_				Scale (approx)		
						1:25 Figure		
							4-21.PP0	199

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio			Level (mOD) 32.57	Client Ørsted	1	Job Numbe	
		Location 5854	482.8 E 901881.3 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Romarks				130.84	1.73	Complete at 1.73m		Jes	
Remarks Peat Probe	refusal at 1.73m BGI	-					Scale pprox)	Logged By	t
						F	1:25 Figure No		-
							0549-04-		00

	Grou	nd Inv	estigations Ire www.gii.ie	land I	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 31.84	Client Ørsted		Job Numbe 10549-04	
		Location 5854	81.2 E 901888.3 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
				131.28		Complete at 0.56m	si si	SALA.	
Remarks Peat Probe r	refusal at 0.56m BGI	_					Scale pprox)	Logged By	t
						F	Figure No 10549-04-	0.	<u> </u>

	Grou	nd Inv	estigations Ire www.gii.ie	eland l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimension			Level (mOD) 29.76	Client Ørsted		Job Numbe 10549-04	
		Location 5854	79.4 E 901903.3 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				129.60	(0.16)	PEAT	-	31/2 31/2 31/2	
				123.00	- 0.10	Complete at 0.16m			
					- - -				
					<u>-</u> -				
					- - -				
					<u>-</u> -				
					<u>-</u> - -				
					- - -				
					-				
					<u>-</u> -				
					<u>-</u> -				
					_ - -				
Remarks Peat Probe r	refusal at 0.16m BGI	_			<u> </u>		Scale (approx)	Logged By	t
							1:25	JMD	
							Figure No 10549-04)2

	Ground Investigations Irel				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP10	
Machine : P		Dimensi			Level (mOD) 29.18	Client Ørsted		Job Numbe 10549-04	
		Location 585	1 6477.8 E 901913.5 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				129.14	0.04	PEAT Complete at 0.04m		sWe	
Remarks Peat Probe r	refusal at 0.04m BGL	-					Scale (approx)	Logge By	d
							Figure No 10549-04		03

Description Pear Probe Method Pear Probe Pear Probe Pear Probe Pear Probe Pear Probe Method Pear Probe Pear Probe		Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number	
\$360 \$3 \$3 \$4 \$3 \$4 \$4 \$4 \$4				ons					Numbe	
Remarks Peach Proce refusal at 2.41m BGL					Dates 15	/06/2022				
PAI	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Peat Probe refusal at 2.41m BGL 1:25 JMD Figure No.					93.17				Alex Alex Alex Alex Alex Alex Alex Alex Alex	
Figure No.	Remarks Peat Probe i	refusal at 2.41m BGI	_							
1 40E40 04 04 BB440 1							F	igure No	0.	

Discussion South Post Probe Discussion South South		Grou	nd Inv	estigations Irel/ www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal	Num PP1	
15/08/2022 TOBIN Consuling Engineers 1/1 TOBIN Consuling Engineers				ons				Num	
Ramarks Pend Protes rehusul at 1.34m BGI. PEAT					Dates 15	/06/2022			
PEAT	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
Peat Probe refusal at 1.34m BGL 1:25 JMD Figure No.	Domasta				93.52	- - - - - - - - -	Complete at 1.34m	alke as alke a	des
Figure No.	Remarks Peat Probe i	refusal at 1.34m BGI	-						
10549-04-21.PP111							Figur	re No.	

	Grou	nd Inv	vestigations Irel www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimension 13m			Level (mOD) 93.13	Client Ørsted		Job Numbe 10549-04	
		Location 5863	357.4 E 903764.5 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Domasta				91.07	2.06	Complete at 2.06m		shle she she she she she she she she she sh	
Remarks Peat Probe	refusal at 2.06m BGI	<u>_</u>					Scale pprox)	Logged By	t
						F	1:25 Figure No		-
							0549-04-		12

	Grou	nd Inv	vestigations Irel www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimension 13m			Level (mOD) 90.76	Client Ørsted		Job Numbe 10549-04	
			(RTK Float) 318.5 E 903729.6 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				89.96	- (0.80) - (0.80) - (0.80) - (0.80) - (0.80) - (0.80) - (0.80) - (0.80) - (0.80)	Complete at 0.80m		SAVE SAVE SAVE SAVE SAVE SAVE SAVE SAVE SAVE	
Remarks Peat Probe i	refusal at 0.80m BGL	-		•			Scale (approx)	Logged By	d
							1:25 Figure N	JMD	
							10549-04		13

	Grou	nd Inv	estigations Irel www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP114	
Machine : P		Dimensio			Level (mOD) 86.50	Client Ørsted		Job Numbe 10549-04	
		Location 5862	265.6 E 903688.8 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Domarko				85.91	- (0.59) - 0.59 - 0.59	Complete at 0.59m		SAVE SAVE SAVE SAVE SAVE SAVE SAVE SAVE	
Remarks Peat Probe	refusal at 0.59m BGI	L				(1	Scale approx)	Logged By	i
							1:25	JMD o.	\dashv
							10549-04		4

Machine Peru Probe Disease	Ground Investigations Ire www.gii.ie					Ltd	Site Clogherachullion Wind Farm Donegal		Number PP115	
\$68219 4 E 5009052 2 N \$19080222 TOBN Consulting Engineers \$1,11				ons					Numbe	
Remarks Peat I 85m Complete at 1.85m BGL Complete at 1.85m BGL Complete at 1.85m Complete at 1.85					Dates 15	/06/2022				
Remarks Pead December of local at 1.85m BGL Remarks Pead December of local at 1.85m BGL Remarks Pead Probe refusal at 1.85m BGL Remarks	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Peat Probe refusal at 1.85m BGL 1:25 JMD Figure No.	Domarko				82.29				able aske	
Figure No.	Remarks Peat Probe i	refusal at 1.85m BGI	-							t
I ADEAD DA DA DE DE LA COMPANSION DE LA								Figure N	0.	I.E.

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal	Numb	
Machine : P		Dimension 13m			Level (mOD) 52.98	Client Ørsted	Job Numb 10549-0	
			(Autonomous) 232.9 E 904139 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
				52.28	0.70	Complete at 0.70m	state	ta ta ta
Remarks Peat Probe i	refusal at 0.70m BGI	_				Scale (appro	Logg By	
						Figur 10549	e No. 1-04-21.PP	116

Dimension Poss Probe Dimension Di		Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal	Numl	
1 1 1 1 1 1 1 1 1 1				ons				Numl	oer 04-21
Remarks Pend Protise refusal at 0.06m BGJ.					Dates 15	/06/2022			
PEAT	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
Peat Probe refusal at 0.66m BGL (approx) By 1:25 JMD Figure No.					53.13	_ 	Complete at 0.66m	alter aller alter	
Figure No.	Remarks Peat Probe	refusal at 0.66m BGI							
10549-04-21.PP117							Figure	No.	

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal	Numb	
Machine : P		Dimensio			Level (mOD) 53.65	Client Ørsted	Job Numb 10549-0	
			(Autonomous) 207.3 E 904106.8 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				53.23	- (0.42) - 0.42 - 0.42	Complete at 0.42m	SMA	<i>u</i>
Remarks Peat Probe r	refusal at 0.42m BGI	-				Scale (approx) Logge By	
						Figure		

	Grou	nd Inv	vestigations Irel www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe		
Machine : P		Dimension 13m			Level (mOD) 51.42	Client Ørsted		Job Number 10549-04-21	
		Location 586	(dGPS) 185.4 E 904077.8 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Damastra				50.54	(0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88) - (0.88)	Complete at 0.88m		stoles soles stoles	
Remarks Peat Probe i	refusal at 0.88m BGI					S (a)	Scale pprox)	Logged By	t
							1:25 Figure No	JMD	_
							10549-04		19

	Ground Investigations Irela				Ltd	Site Clogherachullion Wind Farm Donegal		Number PP120
Machine : P		Dimensi 13n			Level (mOD) 52.79	Client Ørsted		Job Number 10549-04-21
			n (RTK Float) 173.7 E 904066.1 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Kater Nater
				51.34	1.45	Complete at 1.45m		silve
Remarks Peat Probe r	refusal at 1.45m BGI	-					Scale (approx)	Logged By
							1:25 Figure N	
								4-21.PP120

Discretions	Ground Investigations Ire www.gii.ie				eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP121	
\$6900.0 E \$6900.9 A N \$15000000000000000000000000000000000000				ons					Numbe	
Remarks Peach Proce refusal at 2.59m BCL Remarks Peach Proce refusal at					Dates 15	/06/2022				
PAI	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Peat Probe refusal at 2.59m BGL 1:25 JMD Figure No.					53.07	- - - - - - - - - - - - - - - - - - -			shle	
Figure No.	Remarks Peat Probe i	refusal at 2.59m BGI	_							t
10549-04-21.PP121								Figure N	o.	

Machine : Peat Probe Method : Peat Probe Dimensions 13mm to 2.38m 56.94 Ørsted Monum 10549- Location 586149.5 E 904024.8 N Depth (m) Thickness Depth (m) Depth (m)	04-2 t 1	
Depth (m) Sample / Tests Water benth (m) Field Records Level (mOD) Depth (Thickness) Description Description Legen	d Mater	'
PEAT SALC.		
Alexandrian Alexan	,	אמופו
(2.38) (2.38) (3.46) (3.46) (3.47) (3.48) (4.47) (5.45) (5.45) (6.47) (7.48) (7.48) (8.48)		
Remarks Peat Probe refusal at 2.38m BGL Scale (approx) 1:25 JMI		
1:25 JMI Figure No. 10549-04-21.PF		_

Ground Investigations Irel			eland l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP12		
Machine : P		Dimensio			Level (mOD) 58.08	Client Ørsted		Job Number 10549-04	
		Location 5861	135.8 E 904005.1 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				54.97	3.11	Complete at 3.11m		able able able able able able able able able	
Remarks Peat Probe r	efusal at 3.11m BGL	-					Scale (approx)	Logge By	d
							Figure N	0.	22
							10549-04	F-21.PP1	۷۵

Ground Investigations Ire www.gii.ie				land l	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP124	
Machine : P		Dimensio			Level (mOD) 58.76	Client Ørsted		Job Numbe 10549-04	
		Location 586	115.9 E 903972.7 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				56.81	1.95	Complete at 1.95m		able side side side side side side side sid	
Remarks Peat Probe	refusal at 1.95m BGI	_		1	1		Scale (approx)	Logged By	d
							1:25 Figure N	JMD	
							10549-04		24

	Grou	nd Inv	estigations Ire www.gii.ie	reland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP12	
Machine : P		Dimensio			Level (mOD) 59.52	Client Ørsted	1	Job Numbe	
		Location 5860	093.3 E 903952.6 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Le	egend	Water
Domasta				58.52	1.00	Complete at 1.00m	sale sale sale sale	able able able able able able balle able balle able able	
Remarks Peat Probe	refusal at 1.00m BGI	-				Sca (appr		Logged By	ţ
							ure No.		-
							49-04-2		25

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio			Level (mOD) 60.16	Client Ørsted		Job Numbe 10549-04	
		Location 5860	069.6 E 903927.9 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				58.15	2.01	Complete at 2.01m		able able able able able able able able	
Remarks Peat Probe	refusal at 2.01m BGI	<u> </u>					Scale (approx)	Logger By	d
							1:25 Figure N		
							10549-04	I-21.PP12	26

Discussion Di		Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
1508C2722 TOBN Consuling Engineers 1,11 TOBN Consuling Engineers				ns					Numbe	
Remarks Peet Proce refused at 1.05m BGL Remarks Peet Proce refused at 1.05m B				041.4 E 903896 N	Dates 15	/06/2022				
PEA	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	1	Legend	Water
Peat Probe refusal at 1.08m BGL 1:25 JMD Figure No.	Domarko				60.84	- - - - - - -	Complete at 1.08m		able she she she she she she she she she sh	
Figure No.	Remarks Peat Probe i	refusal at 1.08m BGI	L				(a			t
10549-04-21.PP127								Figure No	0.	

Ground Investigations Ire www.gii.ie			eland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP128	
Machine : P		Dimens			Level (mOD) 62.73	Client Ørsted		Job Number 10549-04-21
			n (dGPS) 6023.1 E 903864.3 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend Nate
Remarks Peat Probe	refusal at 0.72m BGI			62.01		Complete at 0.72m	Scale	SHE
- Gat Flobe	i Giusai at V. / ZIII DGL	-					(approx)	JMD
							Figure N 10549-04	o. l-21.PP128

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 86.38	Client Ørsted		Job Numbe 0549-04	
		Location 5849	955.3 E 903076.4 N	Dates 08	/09/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend.	Water
				85.86	- (0.52) - 0.52	Complete at 0.52m	باده	SAVA SAVA SAVA VA SAVA SAV	
Remarks Peat Probe i	refusal at 0.52m BGI	_		1		1:	:25	Logged By	i
							gure No. 549-04-2		29

	Ground Investigations Ir www.gii.ie					Site Clogherachullion Wind Farm Donegal		Number PP130
Machine : Pe	eat Probe	Dimension		Ground	Level (mOD) 67.88	Client Ørsted		Job Number 10549-04-21
		Location 58604	41.1 E 903821.2 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend yate
				67.51	(0.37)	PEAT Complete at 0.37m		SME SME SME SME SME SME SME
Remarks Peat Probe re	efusal at 0.37m BGI	L					Scale (approx) 1:25 Figure N	JMD o. I-21.PP130

	Grou	nd Inv	estigations Ire www.gii.ie	eland l	Ltd	Site Clogherachullion Wind Farm Donegal	Numb	
Machine : P		Dimensio 13mr			Level (mOD) 70.90	Client Ørsted	Job Numb 10549-0	
		Location 5860	072.5 E 903794.3 N	Dates 15	5/06/2022	Engineer TOBIN Consulting Engineers	Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legeno	Water
Damaska				70.43	0.47	Complete at 0.47m	SMZ	
Remarks Peat Probe	refusal at 0.47m BGI	_				Scale (approx		
						1:25 Figure		
						10549-	04-21.PP1	131

	Grou	nd Inv	estigations Ir www.gii.ie	eland	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P	eat Probe	Dimension		Ground	Level (mOD) 76.29	Client Ørsted		Job Numbe 10549-04	
			(RTK Float) 08.5 E 903756.1 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				76.11	(0.18) - (0.18) - 0.18	PEAT Complete at 0.18m		adio adio adio adio	
					- - - - -				
					- - - - -				
					- - - - - -				
					- - - - - - -				
					- - - - - - -				
					- - - - - - -				
					- - - - - -				
					- - - - - -				
					- - - - -				
Remarks Peat Probe r	refusal at 0.18m BGL	_			<u> </u>		Scale (approx)	Logged By	d
							Figure No. 10549-04	о.	 32

	Grou	nd Inv	vestigations Irel www.gii.ie	reland Ltd		Site Clogherachullion Wind Farm Donegal		Number PP133	
Machine : P		Dimensio			Level (mOD) 82.16	Client Ørsted	,	Job Numbe 10549-04	
			(RTK Float) 177.1 E 903693.3 N	Dates 15	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Domarko				81.08	1.08	Complete at 1.08m		shles	
Remarks Peat Probe	refusal at 1.08m BGI	_					Scale approx)	Logged By	b
							1:25 Figure No	JMD o.	-
							10549-04-		33

	Grou	nd Inv	estigations Irel www.gii.ie			Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : Po		Dimension 13mr			Level (mOD) 86.49	Client Ørsted		Job Numbe 0549-04	∍r ∤-21
		Location 5838	79.6 E 901773.4 N	Dates 16	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend.	Water
				86.35		PEAT Complete at 0.14m	sul		
Remarks Peat Probe r	refusal at 0.14m BGI					Sc: (appi		Logged By	d
							gure No. 549-04-2		34

	Grou	nd Inv	vestigations Ire www.gii.ie	Ireland Ltd		Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio			Level (mOD) 36.10	Client Ørsted		Job Numbe 10549-04	
		Location 584	568.4 E 900163.6 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Damaska				133.95	2.15	Complete at 2.15m		shle shle shle shle shle shle shle shle	
Remarks Peat Probe	refusal at 2.15m BGI	L					Scale pprox)	Logged	t
						F	1:25 Figure No		
						1	10549-04-	-21.PP13	35

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 38.91	Client Ørsted		Job Numbe 10549-04	
		Location 5844	(dGPS) 429.8 E 900369.8 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				137.92	- (0.99) - (Complete at 0.99m		able side side side side side side side sid	
Remarks Peat Probe	refusal at 0.99m BGI						Scale (approx)	Logger By	d
							1:25 Figure N	JMD	-
							10549-04		36

	Grou	nd Inv	vestigations Irel www.gii.ie	and Ltd		Site Clogherachullion Wind Farm Donegal		Number PP137	
Machine : P		Dimensio			Level (mOD) 41.25	Client Ørsted		Job Numbe 10549-04	
			(RTK Float) 517.9 E 900376 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
Romarks				138.04	3.21	Complete at 3.21m		able able able able able able able able able	
Remarks Peat Probe i	refusal at 3.21m BGL						Scale (approx)	Logged	d
							1:25 Figure N	JMD lo.	
							10549-04		37

Discription Post Probe Discription Discription		Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		mber P138	
14/98/2072 TORIN Consulting Engineers 1/1				ons				Nui	mber	-
Remarks Peat Probe refused at 0.89m BGL					Dates 14	/06/2022				-
PEA	Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater bne	
Peat Probe refusal at 0.89m BGL 1:25 JMD Figure No.					181.33	- - - - -	Complete at 0.89m	ske	shte shte	
Figure No.	Remarks Peat Probe i	refusal at 0.89m BGI	L							
10549-04-21.PP138							Figur	re No.		

	Grou	nd Inv	estigations Irel www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		nber 139
Machine : P		Dimensio			Level (mOD) 82.63	Client Ørsted	Job Num 10549	nber
		Location 5846	584.2 E 899653.6 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	Shee	et /1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leger	Mater Dr
Remarks				181.14	1.49	Complete at 1.49m	SHE	alea alea alea alea alea alea alea alea
Remarks Peat Probe	refusal at 1.49m BGI	-				Scal (appro		
							ıre No.	
						1054	19-04-21.PF	P139

	Grou	nd Inv	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P		Dimensio			Level (mOD) 80.30	Client Ørsted		Job Numbe 0549-04	
		Location 5845	561.4 E 899602.2 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	egend.	Water
Domarko				178.66	1.64	Complete at 1.64m	534 534 534 534 534 534 534	SMC SMC SMC SMC SMC SMC SMC SMC SMC SMC	
Remarks Peat Probe	refusal at 1.64m BGI	_						Logged By	t
						Fig	:25 gure No		
							549-04-2		10

Grou	ınd Inv	vestigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP141	
Machine : Peat Probe Method : Drive-in Windowless Sampler	Dimensi 13n			Level (mOD) 74.36	Client Ørsted		Job Number 0549-04-2	
	Location 584	n 1562.1 E 899658.9 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	.egend	Water
Pamarks			172.75	1.61	Complete at 1.61m	534 534 534 534 534 534 534	AND	
Remarks Peat Probe refusal at 1.61m BG	GL					cale prox)	Logged By	
					Fig	gure No.		1

	Grou	nd Inv	estigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 69.29	Client Ørsted		Job Numbe 0549-04	
		Location 5845	561.3 E 899706.7 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	L	.egend	Water
Domasta				168.03	1.26	Complete at 1.26m	SAI SAI	ANTALE ANTALE	
Remarks Peat Probe	refusal at 1.26m BGI	_						Logged By	t
						Fig	:25 gure No.		_
							549-04-2		1 2

Ground Investigations Ireland Ltd www.gii.ie Site Clogherachullion Wind Farm Do	Number PP143
Machine : Peat Probe Dimensions Ground Level (mOD) 13mm to 0.76m Ground Level (mOD) 154.01 Ørsted	Job Number 10549-04-21
Location 584562.8 E 899779.3 N Dates 14/06/2022 TOBIN Consulting Engineers	Sheet 1/1
Depth (m) Sample / Tests Water Depth (m) Field Records Level (mOD) Depth (m) (Thickness)	Mager Legend Nater
153.25 0.76 Complete at 0.76m	SMZ
Remarks Peat Probe refusal at 0.76m BGL	Scale (approx) Logged By 1:25 JMD
	Figure No. 10549-04-21.PP143

Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Number PP14	
Machine : Peat Probe Method : Peat Probe	Dimensio			Level (mOD) 47.49	Client Ørsted		Job Numbe 10549-04	
	Location 5845	64.8 E 899856.3 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m) Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
			147.35	(0.14) 0.14	Complete at 0.14m		alle alle	
Remarks Peat Probe refusal at 0.14m BGi	L					Scale (approx) 1:25 Figure N 10549-04		

	Grou	nd Inv	estigations Ire www.gii.ie	land	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	
Machine : P		Dimensio			Level (mOD) 38.27	Client Ørsted		Job Numbe 10549-04	∍r ∤-21
		Location 5845	570.1 E 899956.1 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				137.45	- (0.82) - (Complete at 0.82m		SMA	
Remarks Peat Probe	refusal at 0.82m BGI						Scale (approx)	Logged By	d
							1:25 Figure N	JMD	\dashv
							10549-04		45

	Grou	nd Inv	vestigations Ire www.gii.ie	land l	Ltd	Site Clogherachullion Wind Farm Donegal		mber P146
Machine : P		Dimensio			Level (mOD) 80.48	Client Ørsted		o mber 9-04-21
		Location 5845	517.4 E 899558.9 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	She	eet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Mater Dne
Romarks				179.17	1.31	Complete at 1.31m	shke skle skle skle skle skle skle skle sk	able able
Remarks Peat Probe	refusal at 1.31m BGI	L				Sca (appro		gged
							ıre No.	MD
						1054	19-04-21.F	P146

	Grou	nd Inv	vestigations Ir www.gii.ie	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe		
Machine : P		Dimensi 13n			Level (mOD) 77.68	Client Ørsted		Job Numbe 10549-04-	
		Location 584	478.4 E 899518.9 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
				177.03	- (0.65) - 0.65	Complete at 0.65m		SMLC SMLC SMLC SMLC SMLC SMLC SMLC SMLC	
Remarks Peat Probe	refusal at 0.65m BGI	-					Scale (approx)	Logged By	t
							Figure N	lo.	
							10549-04	1-21.PP14	+/

	Grou	nd Inv	estigations Irel	land l	Ltd	Site Clogherachullion Wind Farm Donegal		Numbe	- 1
Machine : P	reat Probe Prive-in Windowless campler	Dimension 13m			Level (mOD) 71.85	Client Ørsted		Job Numbe 10549-04	
		Location 584	449 E 899481.6 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Pomarks				170.02	1.83	Complete at 1.83m		SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe	refusal at 1.83m BGI	-					Scale approx)	Logged By	t
						F	1:25 Figure No		-
							10549-04-		18

	Grou	nd Inv	vestigations Ire www.gii.ie	Site Clogherachullion Wind Farm Donegal	Numb PP1			
Machine : Peat Probe Method : Drive-in Windowless Sampler		Dimension 13m			Level (mOD) 68.73	Client Ørsted		er 14-21
		Location 584	424.5 E 899452 N	Dates 14	/06/2022	Engineer TOBIN Consulting Engineers	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legeno	Water
Romarks				167.40	1.33	Complete at 1.33m	SME	
Remarks Peat Probe i	refusal at 1.33m BGI	-				Scale (approx		
						1:25 Figure		
							04-21.PP1	149

	Grou	nd Inv	vestigations Ire www.gii.ie	Site Clogherachullion Wind Farm Donegal		Number PP150			
Machine : Peat Probe Method : Peat Probe		Dimensio			Level (mOD) 80.34	Client Ørsted Engineer TOBIN Consulting Engineers		Job Number 10549-04-21 Sheet 1/1	
		Location 5845	545.4 E 899588.4 N	Dates 14	/06/2022				
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	ı	Legend	Water
Pomarks				178.74	1.60	Complete at 1.60m	58 58 58 58 58 58 58 58 58 58 58 58 58 5	SMAC SMAC SMAC SMAC SMAC SMAC SMAC SMAC	
Remarks Peat Probe	refusal at 1.60m BGI	_					Scale pprox)	Logged By	d
							1:25 Figure No	JMD o.	-
							0549-04-		50

APPENDIX 5 - Rotary Borehole Records



Ground Investigations Ireland Ltd							Site Clogherachullion Wind Farm Donegal			
Machine : Beretta T41 Flush : Water				Diamete mm case	ed to 10.00m	Ground Level (mOD) 96.50		Client Ørsted	Job Number 10549-04-21	
Core Dia: 64 mm Method: Rotary Cored		Location 584116.8 E 901656.3 N			Dates 14/07/2022- 15/07/2022		Engineer TOBIN Consulting Engineers	Sheet 1/1		
Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Lagrange Lagra	
0.00	30					96.30	(0.20)	Firm brown slightly gravelly fibrous PEAT (Topsoil) Poor Recovery. Recovery consists of spongy brown pseudofibrous PEAT. Driller notes Peat.	SMA	
2.50 2.50-2.95	65				1,0/0,1,0,0 SPT(C) N=1	94.00		Plastic dark brown pseudofibrous PEAT (Very Soft).	stle	
4.00 4.00-4.45	59				1,0/1,0,0,0 SPT(C) N=1	92.50	_	Very soft grey slightly silty slightly sandy slightly gravelly CLAY.	34/2 3	
5.50 5.50-5.95	22		_		2,1/1,2,3,3 SPT(C) N=9	91.20 91.00	(0.20) 5.50	Very soft grey slightly silty slightly sandy gravelly CLAY. Gravel is fine to coarse angular to subrounded. Poor Recovery. Recovery consists of grey / red fine to coarse subangular to subrounded GRAVEL. Driller notes Gravel (Loose).	X 0	
7.00 7.00-7.06	91	79	36		25,25/50 SPT(C) 50*/60 50/0	89.50		Strong red medium to coarsely crystalline GRANITE. Slightly Weathered. 7.00m - 10.00m BGL: 2 Fracture Sets: F1: 5 - 25 degrees, very close to medium spaced, planar to undulating, rough, occasional orange to brown oxidation staining. F2: 60 - 80 degrees, very close to medium spaced, planar, rough, frequent orange to brown oxidation staining.		
8.50	100	91	63	10		86.50	(3.00)			
Remarks No groundw Borehole co Borehole ba	rater encou mplete at 1 ckfilled on	ntered 0.00m BG completion	GL n					Scale (appro	JMD	

Ground Investigations Ireland Ltd www.gii.ie								Site Clogherachullion Wind Farm Donegal	Borehole Number BH03		
Machine : Beretta T41 Flush : Water				Diamete mm case	Ground Level (mOD) 131.00		mOD)	Client Ørsted	Job Number 10549-04-21		
Core Dia: 64 mm Method : Rotary Cored		Location 586345.7 E 902573.3 N			Dates 19/07/2022		22	Engineer TOBIN Consulting Engineers			
Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level Depth (m) (Thickness)		pth n) (ness)	Description	Legend	Water
0.00	86					130.60		(0.40) 0.40 (0.40) 0.80 (1.30)	MADE GROUND: Recovery consists of light grey Cobbles of Granite with a little finer material. Finer material consists of light grey slightly sandy fine to coarse subangular to subrounded Gravel. Driller notes Cobbles. Spongy dark brown slightly sandy pseudofibrous PEAT. Recovery consists of light to dark grey COBBLES and BOULDERS of Granite with some finer material. Finer material consists of light to dark grey fine to coarse angular to subrounded Gravel. Driller notes Boulders with Gravel.		
2.10	100	80	0		05.05/50	128.90	Ē (2.10 (0.50)	Strong dark grey coarsely crystalline GRANODIORITE. Moderately Weathered.		
2.50 2.50-2.57 3.20 4.00	93	92	67	5	25,25/50 SPT(C) 50*/70 50/0	128.40		(2.90) 5.50	Strong dark grey coarsely crystalline GRANODIORITE. Slightly Weathered. 2.10m - 3.10m BGL: 3 Fracture Sets: F1: 0 - 20 degrees, very close to closely spaced, planar to undulating, rough, rare orange to brown oxidation staining. F2: 40 - 60 degrees, close to medium spaced, planar to undulating, rough, occasional orange to brown oxidation staining. F3: 1 Fracture at 80 - 90 degrees from 2.10m to 2.0m BGL, undulating, rough, slight sandy clay smearing and orange to brown oxidation staining. 3.20m - 5.50m BGL: 2 Fracture Sets: F1: 0 - 20 degrees, close to medium spaced, planar to undulating, rough, F2: 55 - 75 degrees, widely spaced, planar, rough, occasional brown oxidation staining. Complete at 5.50m	Logge By	ed
No groundw Borehole co Borehole ba	mplete at 5	i.50m BGL							(approx) 1:50 Figure N 10549-0	JMD	

Clogherachullion Wind Farm Rotary Core Photographs



BH02



BH02



BH03



BH03

APPENDIX 5 – Laboratory Testing



National Materials Testing Laboratory Ltd. SUMMARY OF TEST RESULTS Particle Index Properties Bulk Undrained Triaxial Test Cell Lab BH/TP Depth sample Moisture Density <425um PL Density Presssure Compressive Strain at LL Vane Remarks Mg/m3 % % Mg/m3 Stress kPa Failure % kPa No No. kPa TP06 0.50 1075.0 TP06 2.50 В 1161 98.8 960 714 266 TP07 1.20 В 412.0 TP08 23.6 1.50 В 1.75 13.8 63 35 28 TP10 1.00 717.0 В TP11 0.50 788.0 В TP15 1.00 684.0 В TP16 0.50 В 662.0 TP17 1.50 53.0 В TP20 1.00 718.0 TP22 0.50 141.2 В TP22 28.0 1.30 TP24 274.0 0.50 В TP24 1.50 В 19.8 TP25 0.90 277.0 В TP26 1.50 25.6 В TP29 0.50 478.0 В TP31 1.00 819.0 В TP32 984.0 0.30 TP32 0.80 50.3 В TP34 694.0 1.00 В TP35 0.30 442.0 Job ref No. NMTL 358 GII Project ID: N/A NMTL Notes: Cloherachullion Wind Farm, Donegal 1. All BS tests carried out using preferred (definitive) method unless oth Location

National Materials Testing Laboratory Ltd. SUMMARY OF TEST RESULTS Particle Index Properties Bulk Undrained Triaxial Test Cell Lab BH/TP Depth sample Moisture Density <425um PL Density Presssure Compressive Strain at LL Vane Remarks Mg/m3 % % Mg/m3 Stress kPa Failure % No m No. kPa kPa GC01 0.0-0.50 755 GC01 0.50-0.90 792 GC02 0.0-0.50 684 GC03 0.0-0.50 379 GC04 887 0.0-0.50 GC04 0.50-1.00 698 GC05 0.0-0.40 413 GC06 0.0-0.45 598 GC07 0.0-0.50 565 599 GC08 0.0-0.50 GC09 0.0-0.35 332 GC10 700 0.0-0.50 GC11 807 0.0-0.50 GC11 0.50-1.00 1056 GC11 1.00-1.50 1426 GC11 1.50-2.00 1239 GC11 1177 2.00-2.50 GC11 2.50-2.95 1170 792 GC13 0.0-0.50 GC14 1441 0.0-0.50 GC14 0.50-1.00 1264 GC14 465 1.00-1.50 GC14 1.50-2.00 1251 GC14 2.00-2.50 1003 GC15 2.50-2.95 640 GC16 0.0-0.50 983 Job ref No. NMTL 358 GII Project ID: N/A **NMTL** Notes: Cloherachullion Wind Farm, Donegal 1. All BS tests carried out using preferred (definitive) method unless oth Location

National Materials Testing Laboratory Ltd. SUMMARY OF TEST RESULTS Particle Index Properties Bulk Undrained Triaxial Test Cell Lab BH/TP Depth sample Moisture Density <425um PL Density Presssure Compressive Strain at Vane LL Remarks % Mg/m3 % % Mg/m3 kPa Stress kPa Failure % kPa No No. GC16 0.50-1.00 1014 GC16 1.00-1.40 792 GC17 623 0.0-0.45 GC18 0.0-0.30 590 GC19 0.0-0.50 1057 GC19 0.50-0.85 867 GC20 0.0-0.50 1120 GC20 0.50-1.00 1250 GC20 1.00-1.50 1200 1.50-2.00 1095 GC20 GC21 0.0-0.50 862 GC21 0.5-0.90 690 GC101 557 0.0-0.35 GC151 0.0-0.50 934 GC151 0.50-1.00 1010 GC152 705 0.0-.0.50 GC152 0.50-1.00 746 Job ref No. NMTL 358 GII Project ID: N/A NMTL Notes: 1. All BS tests carried out using preferred (definitive) method unless oth Location Cloherachullion Wind Farm, Donegal

NMTL LTD Contract: Cloherachullion Wind Farm, Donegal Unit 18c, Tullow Industrial Estate Client: **Ground Investigations Ireland Ltd** Tullow **Engineer: Conor Finnerty County Carlow GII Project ID** N/A Tel: 00353 59 9180822 Date: 28/10/2022 Sb Checked: Вс Tested By: Mob: 00353 872575508 Job ref No. **NMTL 3584** billa@nmtl.ie High Extremely High Low Very High Intermediate 0-35 50-70 70-90 90 + 70 35-50 60 Plasticity Index 50 40 30 20 10 0 60 20 40 80 100 120 0 **Liquid Limit**

Sieve	%		
Size mm	Passing		
125.000	100.0		
75.000	100.0		
63.000	100.0		
50.000	100.0		
37.500	100.0		
28.000	100.0		
20.000	100.0		
14.000	100.0		
10.000	100.0		
6.300	100.0		
5.000	100.0		
3.350	99.9		
2.000	99.8		
1.180	99.4		
0.600	99.0		
0.425	98.8		
0.300	98.6		
0.212	98.4		
0.150	98.1		
0.063	97.8		

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
		Silt	Sand		Gravel			
		97.8	2.0			0.2	0.0	0.0

NM

TL

Ltd

Sample Description Dark brown/black slightly sandy SILT.

Project

Checked

Sb

Operator

Sands and silts are generally peat fibres, with a small amount of silt.

Clougherachullion Wind Farm - Donegal

Nc Approved Bc Date

GII PROJECT ID:10549-04-2021 Sample No.

Date sample tested 20/10/2022 Depth

Project No. BH/TP No. NMTL3584 TP06 B

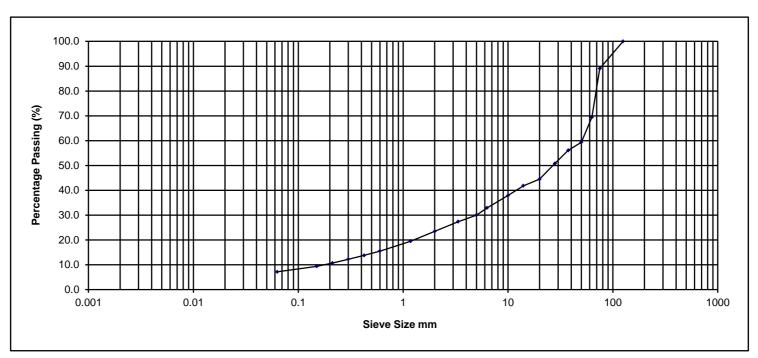
2.50m

· No.

Sieve	%
Size mm	Passing
125.000	100.0
75.000	89.1
63.000	69.5
50.000	59.3
37.500	56.1
28.000	50.8
20.000	44.5
14.000	41.8
10.000	37.9
6.300	32.9
5.000	30.0
3.350	27.4
2.000	23.5
1.180	19.5
0.600	15.5
0.425	13.8
0.300	12.2
0.212	10.7
0.150	9.4
0.063	7.2

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium C	Coarse	Fine	Medium Coarse	Cobbles	Boulder
		Silt	Sand		Gravel			
		7.2	16.3			46.0	30.5	0.0

NM

TL

Ltd

Operator

Sample Description Dark brown silty sandy GRAVEL.

sample is made up of peaty gravel.

Project Clougherachullion Wind Farm - Donegal GII PRO.

Sb Checked Nc Approved Bc Date sample tested

BH/TP No.

GII PROJECT ID:10549-04-2021 Sample No.
ple tested 24/10/2022 Depth

Project No.

TP08 B

1.50m

NMTL3584

Sieve	%			
Size mm	Passing			
125.000	100.0			
75.000	72.0			
63.000	66.8			
50.000	64.0			
37.500	62.3			
28.000	58.1			
20.000	53.2			
14.000	50.2			
10.000	47.1			
6.300	41.2			
5.000	38.0			
3.350	34.8			
2.000	29.2			
1.180	24.3			
0.600	18.8			
0.425	16.2			
0.300	13.7			
0.212	11.3			
0.150	9.3			
0.063	6.2			

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

I	Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
			Silt	Sand		Gravel			
L			6.2	23.0			37.7	33.2	0.0

NM

Sample Description Grey/brown silty very sandy GRAVEL.

Project No. BH/TP No.

NMTL3584 TP09

TL

Clougherachullion Wind Farm - Donegal Project Approved Bc Nc

GII PROJECT ID:10549-04-2021 Sample No. 20/10/2022 Depth

В

Ltd

Sb Checked Operator

Date sample tested

1.00m

Sieve	%
Size mm	Passing
125.000	100.0
75.000	73.6
63.000	53.6
50.000	53.6
37.500	49.7
28.000	49.7
20.000	49.7
14.000	33.0
10.000	31.6
6.300	30.1
5.000	29.7
3.350	29.2
2.000	27.6
1.180	25.0
0.600	21.5
0.425	20.0
0.300	18.5
0.212	17.2
0.150	15.9
0.063	13.4

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
		Silt	Sand			Gravel		
		13.4	14.2			26.0	46.4	0.0

NM

TL

Ltd

Operator

Sample Description Dark brown black silty sandy GRAVEL with cobbles.

Project No. BH/TP No. NMTL3584

Clougherachullion Wind Farm - Donegal GII PROJECT ID:10549-04-2021 Sample No. Project 20/10/2022 Depth Sb Checked Date sample tested Nc Approved Bc

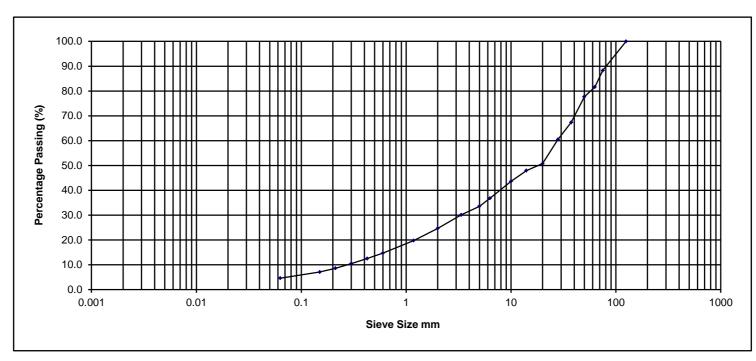
TP11

В 1.30m

Sieve	%			
Size mm	Passing			
125.000	100.0			
75.000	88.3			
63.000	81.6			
50.000	77.7			
37.500	67.4			
28.000	60.5			
20.000	50.8			
14.000	47.9			
10.000	43.6			
6.300	36.8 33.6			
5.000				
3.350	30.1			
2.000	24.7			
1.180	19.8			
0.600	14.7			
0.425	12.5			
0.300	10.5			
0.212	8.6			
0.150	7.1			
0.063	4.6			

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium C	Coarse	Fine	Medium Coarse	Cobbles	Boulder
		Silt	Sand			Gravel		
		4.6	20.1			57.0	18.4	0.0

Sample Description Brown silty very sandy GRAVEL.

Project No. BH/TP No.

NMTL3584 TP15

TL

Ltd

Operator

NM

Project Clougherachullion Wind Farm - Donegal

Sb Checked Nc Approved Bc Da

GII PROJECT ID:10549-04-2021 Sample No.

Date sample tested 20/10/2022 Depth

B 2.00m

Sieve	%			
Size mm	Passing			
125.000	100.0			
75.000	100.0			
63.000	76.1			
50.000	54.7			
37.500	45.3			
28.000	35.8			
20.000	29.4			
14.000	25.8			
10.000	24.1			
6.300	21.6			
5.000	19.7			
3.350	17.9			
2.000	14.0			
1.180	10.0			
0.600	6.7			
0.425	5.5			
0.300	4.5			
0.212	3.7			
0.150	3.0			
0.063	2.0			

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

ſ	Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
			Silt	Sand			Gravel		
L			2.0	12.0			62.2	23.9	0.0

Sample Description Brown slightly sandy fine to coarse GRAVEL.

Project No. NMTL3584 BH/TP No. TP17

Project Clougherachullion Wind Farm - Donegal

Operator Sb Checked Nc Approved Bc Date

GII PROJECT ID:10549-04-2021 Sample No.

Date sample tested 20/10/2022 Depth

B 1.50m

NM

TL

Ltd

Sieve	%
Size mm	Passing
125.000	100.0
75.000	100.0
63.000	100.0
50.000	100.0
37.500	100.0
28.000	100.0
20.000	100.0
14.000	100.0
10.000	100.0
6.300	100.0
5.000	100.0
3.350	100.0
2.000	99.5
1.180	98.3
0.600	96.5
0.425	95.6
0.300	94.6
0.212	93.6
0.150	92.8
0.063	91.0

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder	l
		Silt	Sand		Gravel				l
		91.0	8.5			0.5	0.0	0.0	l

NM

Project No. BH/TP No. NMTL3584 TP20

TL

Project Clougherachullion Wind Farm - Donegal
Sb Checked Nc Approved Bc

Sample Description Dark brown /black PEAT. Sand and silt are fibers of peat.

GII PROJECT ID:10549-04-2021 Sample No.

B 1.00m

Ltd

Operator Sb Checked

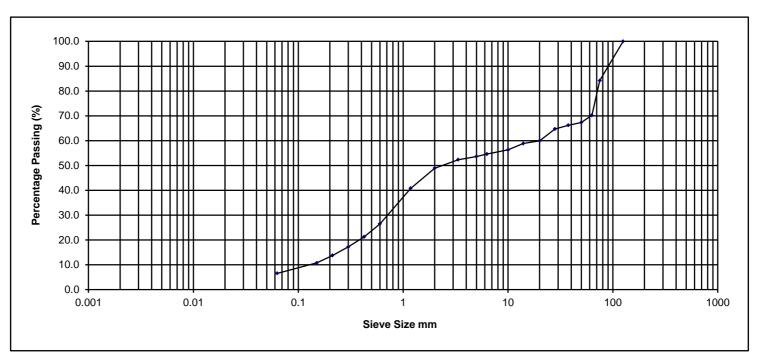
Approved Bc Date sample tested

20/10/2022 Depth

Sieve	%		
Size mm	Passing		
125.000	100.0		
75.000	84.2		
63.000	70.2		
50.000	67.3		
37.500	66.2		
28.000	64.7		
20.000	60.0		
14.000	58.9		
10.000	56.3		
6.300	54.6		
5.000	53.6		
3.350	52.3		
2.000	48.9		
1.180	40.8		
0.600	26.5		
0.425	21.2		
0.300	17.2		
0.212	13.8		
0.150	10.8		
0.063	6.6		

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Ī	Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
			Silt	Sand		Gravel			
			6.6	42.3			21.3	29.8	0.0

NM

TL

Ltd

Operator

Sample Description Brown silty gravelly SAND.

Project No. BH/TP No.

NMTL3584

Project Clougherachullion Wind Farm - Donegal GII PROJECT ID:10549-04-2021 Sample No.

Sb Checked Nc Approved Bc Date sample tested 20/10/2022 Depth

TP22 B

1.30m

Sieve	%
Size mm	Passing
125.000	100.0
75.000	100.0
63.000	100.0
50.000	95.4
37.500	81.8
28.000	69.9
20.000	60.5
14.000	53.5
10.000	48.4
6.300	41.1
5.000	36.8
3.350	33.8
2.000	28.3
1.180	23.1
0.600	17.5
0.425	14.8
0.300	12.4
0.212	10.3
0.150	8.5
0.063	6.1

NM

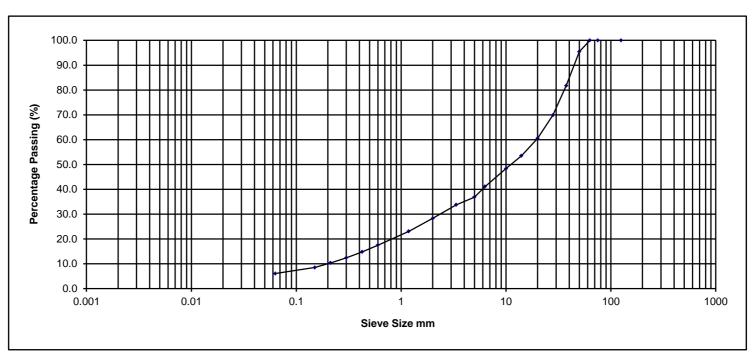
TL

Ltd

Operator

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Γ	Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
			Silt	Sand			Gravel		
			6.1	22.2			71.7	0.0	0.0

Sample Description Dark brown silty very sandy GRAVEL.

Project No. NMTL3584 BH/TP No. TP24

В

1.50m

Project Clougherachullion Wind Farm - Donegal GII PROJECT ID:10549-04-2021 Sample No.

Sb Checked Nc Approved Bc Date sample tested 20/10/2022 Depth

Sieve	%			
Size mm	Passing			
125.000	100.0			
75.000	100.0			
63.000	100.0			
50.000	100.0			
37.500	100.0			
28.000	100.0			
20.000	100.0			
14.000	100.0			
10.000	100.0			
6.300	99.5			
5.000	99.3			
3.350	98.3			
2.000	94.8			
1.180	87.9			
0.600	80.5			
0.425	77.7			
0.300	75.3			
0.212	72.9			
0.150	71.0			
0.063	67.0			

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

ſ	Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
			Silt	Sand		Gravel			
l			67.0	27.8			5.2	0.0	0.0

NM

TL

Ltd

Operator

Sample Description Dark brown /black slightly gravelly slightly sandy SILT. (PEAT)
Sample contains root fibre.

Project No. BH/TP No.

NMTL3584 TP25

0.90m

Project Clougherachullion Wind Farm - Donegal

Sb Checked Nc Approved Bc Do

GII PROJECT ID:10549-04-2021 Sample No.

Date sample tested 20/10/2022 Depth

1P25 B

Sieve	%
Size mm	Passing
125.000	100.0
75.000	95.9
63.000	86.5
50.000	79.0
37.500	68.6
28.000	62.4
20.000	56.0
14.000	55.7
10.000	53.3
6.300	48.6
5.000	46.2
3.350	42.0
2.000	35.5
1.180	29.1
0.600	21.4
0.425	17.3
0.300	13.5
0.212	10.5
0.150	8.3
0.063	5.4

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Γ	Clay	Fine	Medium Coarse	Fine Medium C	oarse	Fine	Medium Coarse	Cobbles	Boulder
			Silt	Sand		Gravel			
			5.4	30.1			51.0	13.5	0.0

NM

TL

Ltd

Operator

Sample Description Dark brown/black silty very sandy GRAVEL.

Project No. BH/TP No.

NMTL3584

Project Clougherachullion Wind Farm - Donegal GII PRO.

Sb Checked Nc Approved Bc Date sample tested

GII PROJECT ID:10549-04-2021 Sample No.
mple tested 20/10/2022 Depth

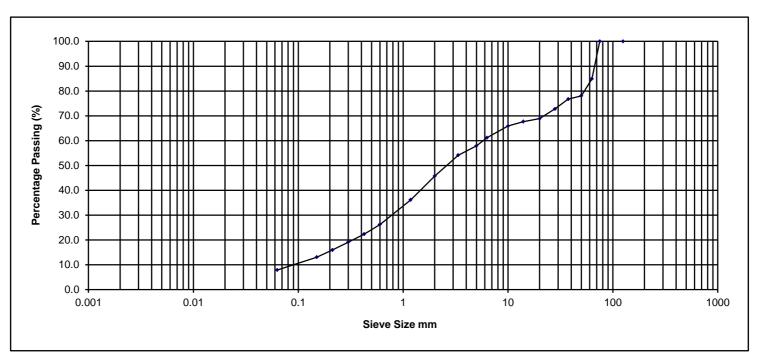
TP26 B

1.50m

Ciarra	%				
Sieve					
Size mm	Passing				
125.000	100.0				
75.000	100.0				
63.000	84.9				
50.000	78.1				
37.500	76.7				
28.000	72.8				
20.000	68.9				
14.000	67.7				
10.000	65.9				
6.300	61.2				
5.000	57.9				
3.350	54.1				
2.000	45.8				
1.180	36.1				
0.600	26.2				
0.425	22.3				
0.300	19.1				
0.212	16.0				
0.150	13.1				
0.063	7.9				

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
		Silt	Sand		Gravel			
		7.9	37.9			39.2	15.1	0.0

Sample Description Grey/brown silty very sandy GRAVEL.

Project No. NBH/TP No.

NMTL3584 TP28

Ltd

Operator

NM

TL

Project Clougherachullion Wind Farm - Donegal

Sb Checked Nc Approved Bc

GII PROJECT ID:10549-04-2021 Sample No.

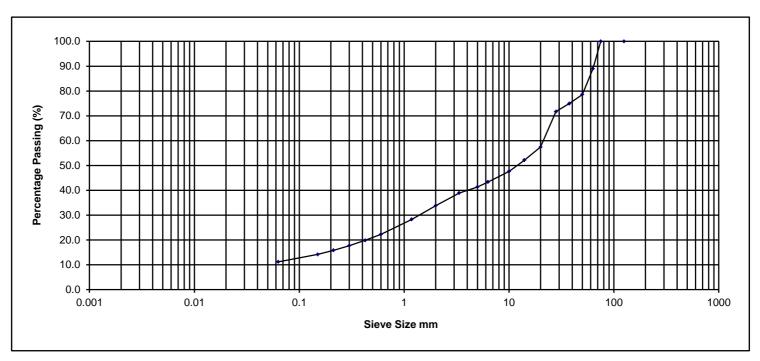
Date sample tested 20/10/2022 Depth

B 1.50m

Sieve	%			
Size mm	Passing			
125.000	100.0			
75.000	100.0			
63.000	89.0			
50.000	78.6			
37.500	74.9			
28.000	71.7			
20.000	57.5			
14.000	52.1			
10.000	47.6			
6.300	43.4			
5.000	41.3			
3.350	38.9			
2.000	33.8			
1.180	28.3			
0.600	22.3			
0.425	19.9			
0.300	17.7			
0.212	15.8			
0.150	14.2			
0.063	11.2			

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

ſ	Clay Fine Medium Coarse Fine Medium Coarse		Fine	Medium Coarse	Cobbles	Boulder			
ı		Silt Sand		Gravel					
l			11.2	22.6			55.1	11.0	0.0

NM

Ltd

Operator

-

TL

Sample Description Brown/orange silty very sandy GRAVEL.

Project No. BH/TP No.

NMTL3584

Project Clougherachullion Wind Farm - Donegal GII PRO.

Sb Checked Nc Approved Bc Date sample tested

GII PROJECT ID:10549-04-2021 Sample No. ple tested 20/10/2022 Depth

TP29 B

1.30m

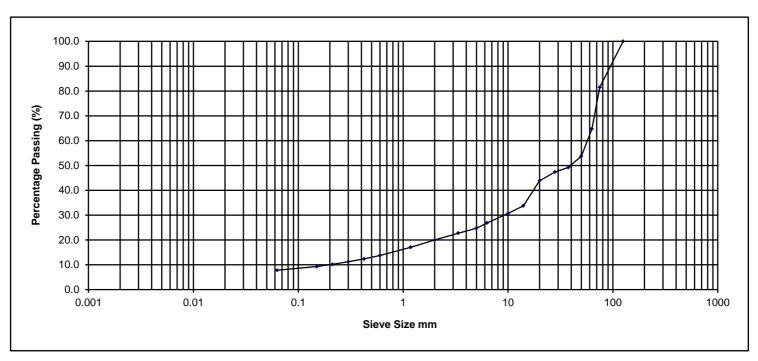
Sieve	%
Size mm	Passing
125.000	100.0
75.000	81.5
63.000	64.7
50.000	53.8
37.500	49.2
28.000	47.4
20.000	43.9
14.000	33.8
10.000	30.7
6.300	26.9
5.000	24.7
3.350	22.7
2.000	20.0
1.180	17.1
0.600	13.7
0.425	12.4
0.300	11.2
0.212	10.2
0.150	9.3
0.063	7.8

NM

TL

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

Clay	Fine	Medium Coarse	Fine Medium	Coarse	Fine	Medium Coarse	Cobbles	Boulder
		Silt	Sand			Gravel		
		7.8	12.2			44.7	35.3	0.0

Sample Description Dark brown/black silty sandy GRAVEL.

Approved Bc

Project No. BH/TP No. NMTL3584 TP32

		Project	t	Clougherach
Ltd	Operator	Sb	Checked	Nc

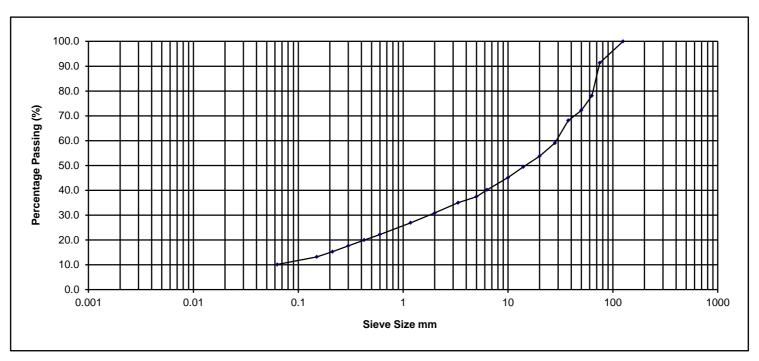
chu	ıllion Wind Farn	n - Donegal	GII PROJECT	ID:10549-04-2021	Sample No.
	Annroyed	Bc	Date sample tested	20/10/2022	Denth

В 0.80m

Sieve	%			
Size mm	Passing			
125.000	100.0			
75.000	91.3			
63.000	78.1			
50.000	72.2			
37.500	68.1			
28.000	59.1			
20.000	53.8			
14.000	49.5			
10.000	45.2			
6.300	40.2			
5.000	37.4			
3.350	35.0			
2.000	30.9			
1.180	26.9			
0.600	22.2			
0.425	20.0			
0.300	17.6			
0.212	15.3			
0.150	13.2			
0.063	10.1			

Determination of Particle Size Distribution

BS 1377: 1990: Part 2: Clauses 9.2 & 9.5



Percentage Particle Size

ĺ	Clay Fine Medium Coarse Fine Medium Coarse		Fine	Medium Coarse	Cobbles	Boulder			
		Silt Sand		Gravel					
l			10.1	20.8			47.2	21.9	0.0

NM

TL

Ltd

Operator

Sample Description Dark grey/black silty very sandy GRAVEL.

Project No.

NMTL3584

0.80m

Project Clougherachullion Wind Farm - Donegal GII PROJECT ID:10549-04-2021 Sample No.

Sb Checked Nc Approved Bc Date sample tested 20/10/2022 Depth

BH/TP No. TP35 Sample No. B