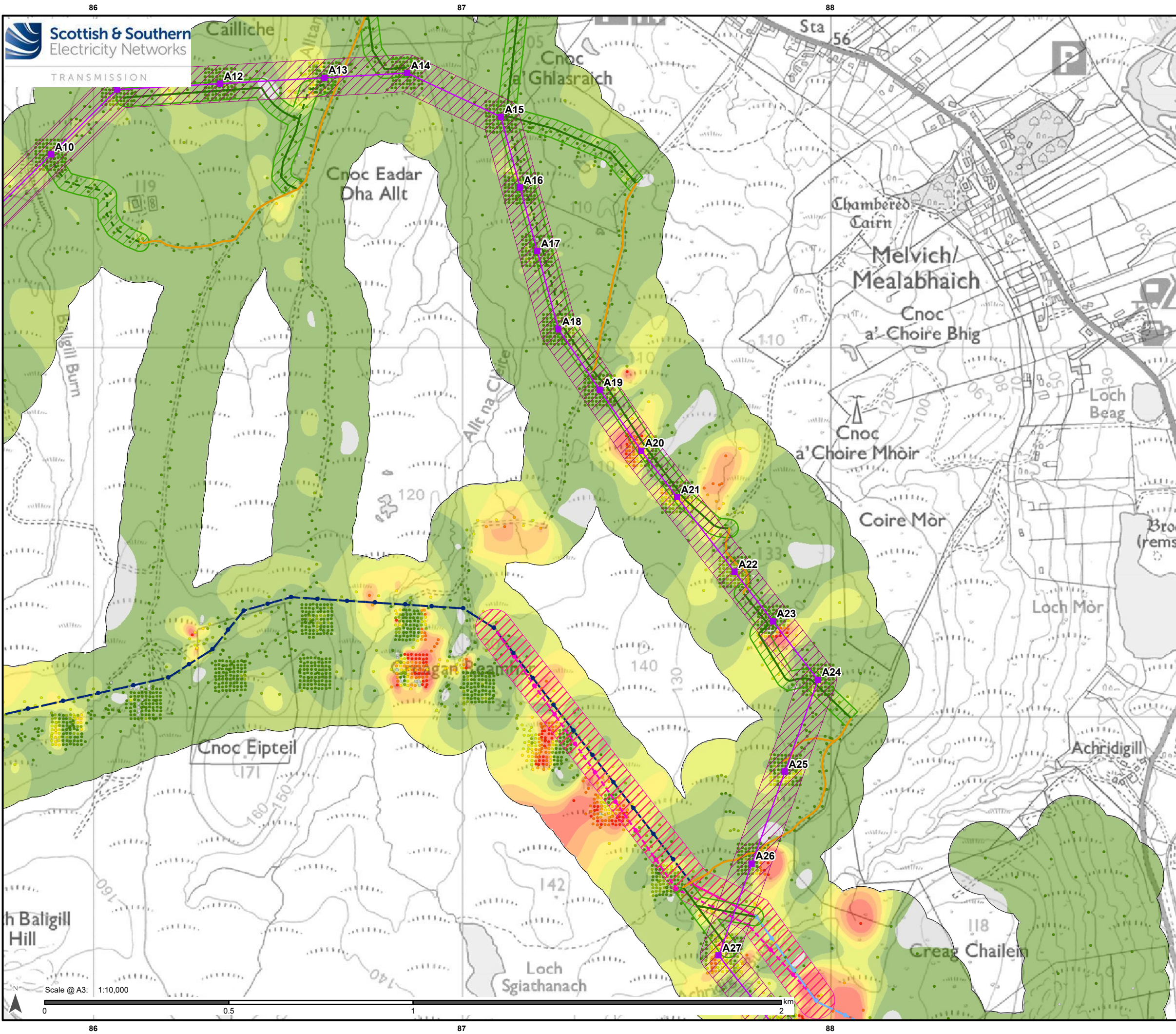




Legend

- Alternative Steel Lattice Tower
- Alternative OHL Alignment
- Limit of Deviation (Alternative OHL)
- Existing Access Track (to be upgraded)
- Proposed Permanent Access Track
- Proposed Temporary Access Track
- Limit of Deviation (Access Track)
- Existing Wood Pole (H pole) (to be retained)
- Existing OHL (to be retained)
- Existing Wood Pole (H pole) (to be dismantled)
- Temporary Wood Pole (H pole)
- Limit of Deviation (Temporary OHL)
- Proposed Temporary OHL
- Temporary UGC Alignment
- Existing Wood Pole (H pole) (to be dismantled)

Probe Peat Depth (m)

- 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

Peat Depth (m)

- 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

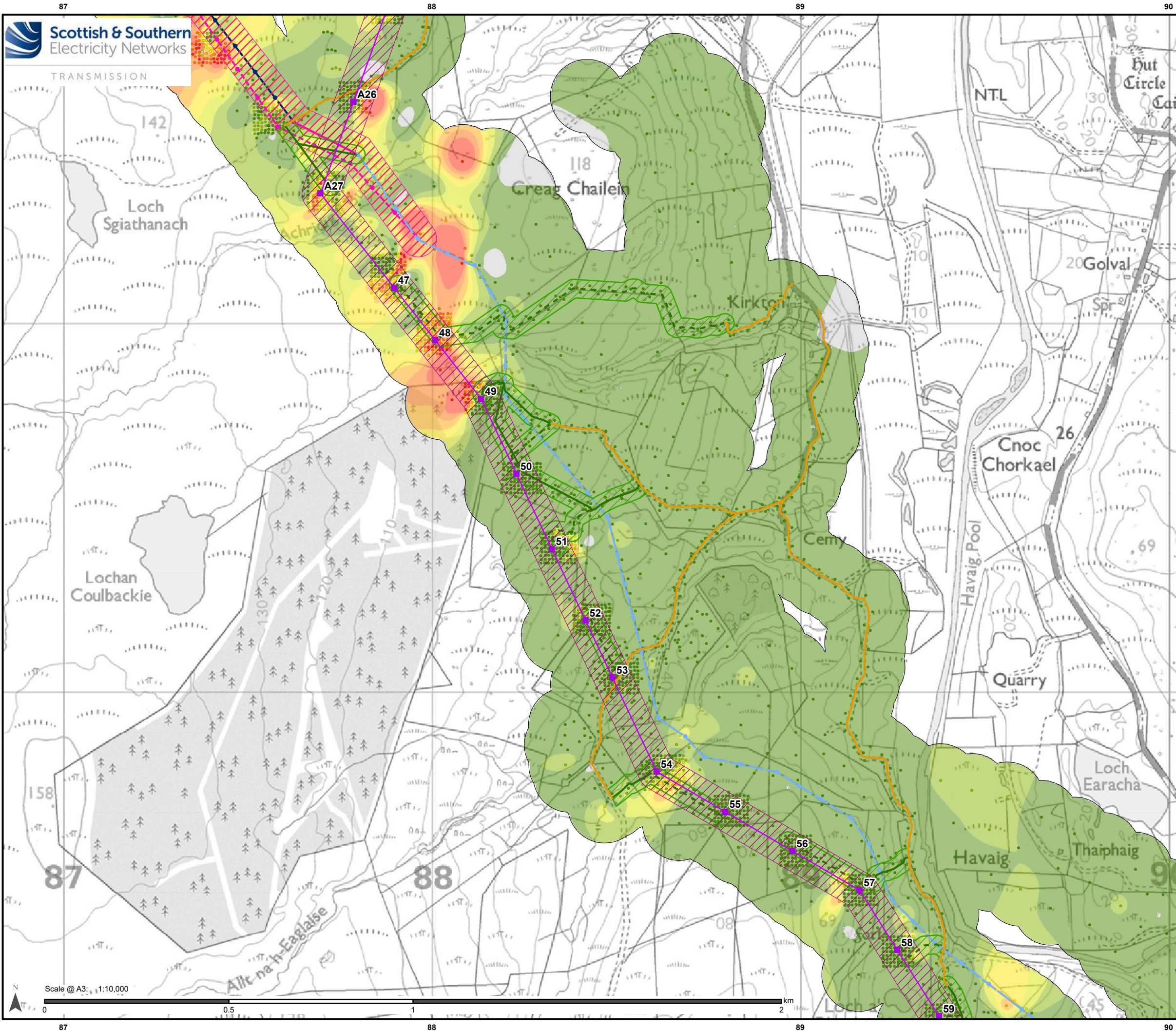
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Project No: LT560
Project: Strathly South Wind Farm Grid Connection
EIA Report - Peat Management Plan

Title:
Figure V5-7.2.4 - Peat Depth Plan Detailed
Alternative Alignment
Map 4

Drawn by: MM
Date: 20/01/2025

Drawing: 428.013137.00001.00074.0



Legend

- Alternative Steel Lattice Tower
- Alternative OHL Alignment
- Limit of Deviation (Alternative OHL)
- Existing Access Track (to be upgraded)
- Proposed Permanent Access Track
- Proposed Temporary Access Track
- Limit of Deviation (Access Track)
- Existing Wood Pole (H pole) (to be retained)
- Existing OHL (to be retained)
- Existing Wood Pole (H pole) (to be dismantled)
- Temporary Wood Pole (H pole)
- Limit of Deviation (Temporary OHL)
- Proposed Temporary OHL
- Temporary UGC Alignment
- Existing Wood Pole (H pole) (to be dismantled)

Probe Peat Depth (m)

- 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

Peat Depth (m)

- 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

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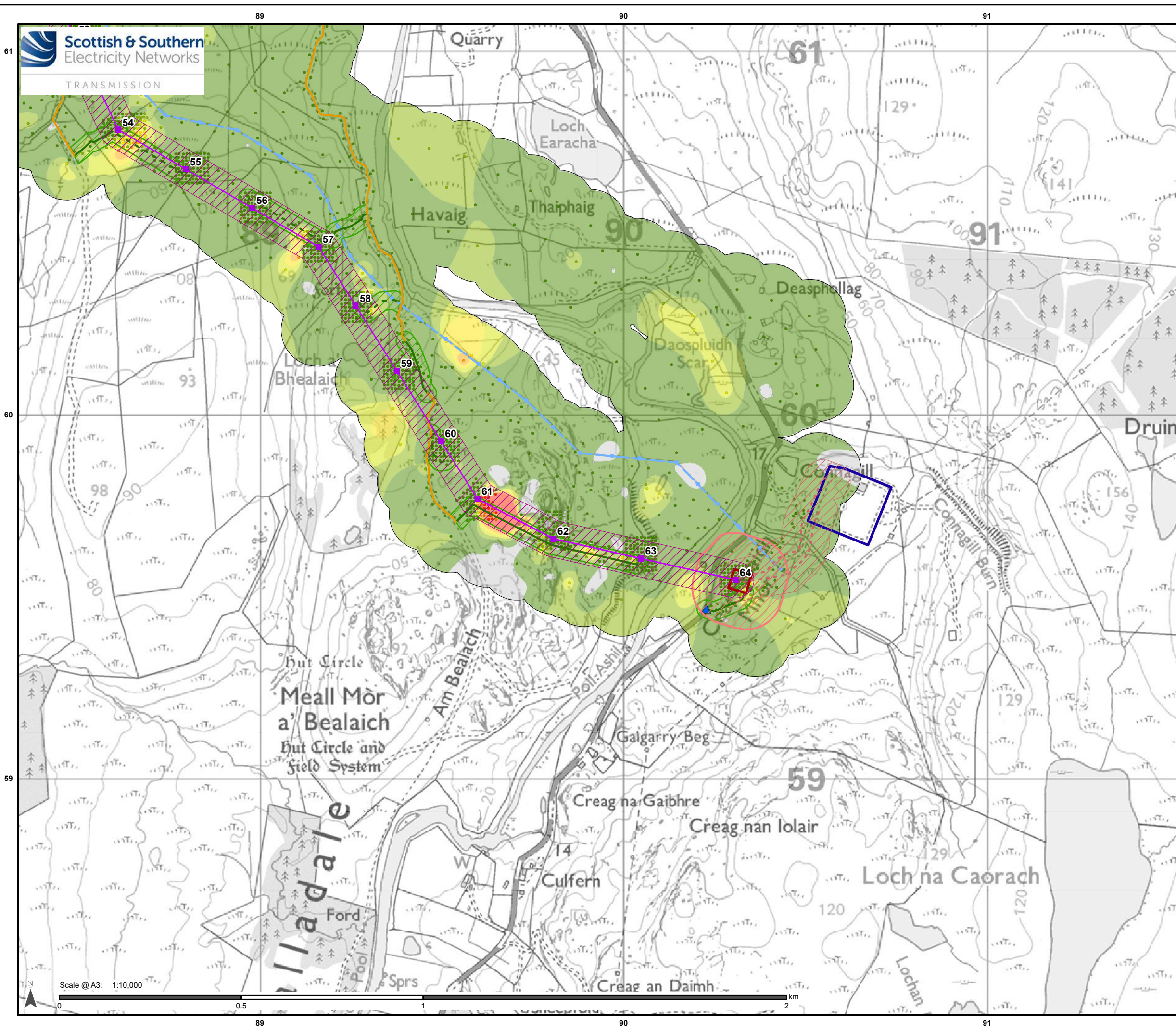
Project No: LT560

Project: Strathy South Wind Farm Grid Connection
EIA Report - Peat Management Plan

Title: Figure V5-7.2.4 - Peat Depth Plan Detailed
Alternative Alignment
Map 5

Drawn by: MM Date: 20/01/2025

Drawing: 428.013137.00001.00074.0



Legend

- Alternative Steel Lattice Tower
- Alternative OHL Alignment
- Limit of Deviation (Alternative OHL)
- Proposed Underground Cable (UGC)
- Limit of Deviation (UGC)
- Proposed Cable Sealing End (CSE) Compound
- Limit of Deviation (CSE Compound)
- New Bellmouth
- Existing Access Track (to be upgraded)
- Proposed Permanent Access Track
- Proposed Temporary Access Track
- Limit of Deviation (Access Track)
- Existing Wood Pole (H pole) (to be retained)
- Existing OHL (to be retained)
- Connagill 275/132 kV Substation

Probe Peat Depth (m)

- 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

Peat Depth (m)

- 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

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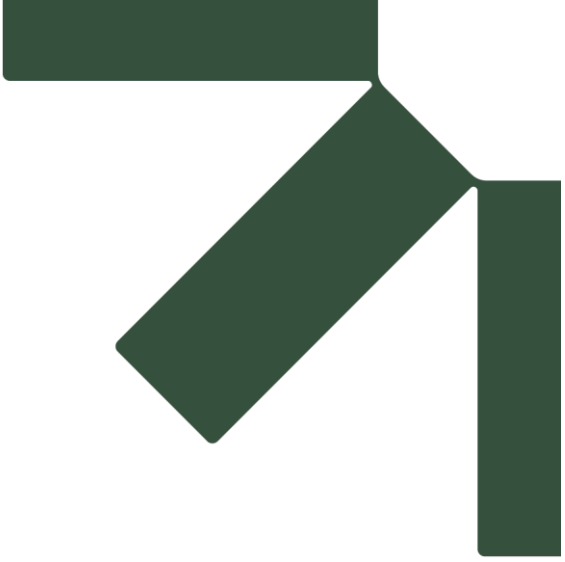
Project No: LT560

Project: Strathly South Wind Farm Grid Connection
EIA Report - Peat Management Plan

Title: Figure V5-7.2.4 - Peat Depth Plan Detailed
Alternative Alignment
Map 6

Drawn by: MM Date: 20/01/2025

Drawing: 428.013137.00001.00074.0



Annex A Excavated Materials Calculations

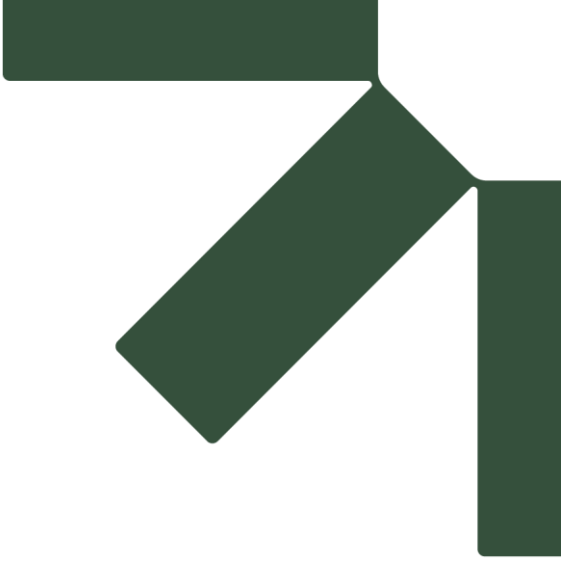
Strathy South Wind Farm Grid Connection

**Volume 4: Appendix V5-7.2: Stage 1 Outline Peat Management Plan –
Alternative Alignment**

SSEN Transmission

SLR Project No.: 428.013137.00001_04

Infrastructure	Length (m)	Width (m)	Area (m ²)	Average Depth (m)	Number	Total Excavated Volume Acrotelm Peat (m ³)	Total Excavated Volume Catotelm Peat (m ³)	Total Excavated Volume (m ³)	Length (m)	Width (m)	Area (m ²)	Average Depth (m)	Number	Total Re-use Volume Acrotelm Peat (m ³)	Total Re-use Volume Catotelm Peat (m ³)	Total Re-use Volume (m ³)	Notes
Permanent Access Track - Construction width 6.5m Operation Width 5m.	7900	6.5	51350	0.65	1	25675	7703	33378	7900	3.75	29625	0.65	2	29625	8888	38513	Re-use 3m either side of cut track. 1.5m reinstated to reduce construction width from 6.5m to 5m
Temporary Access Track	5810	5	29050	0.27	1	7844		7844	5810	5	29050	0.27	1	7844		7844	To be fully reinstated.
Existing Access Track (to be upgraded)	10900	1.5	16350	0.22	1	3597		3597	10900	1.5	16350	0.22	1	3597		3597	0.75m upgrade fully re-used either side of track.
Underground Cable (UGC)	780	40	31200	0.17	1	5172		5172	780	40	31200	0.17	1	5172		5172	
Cable Sealing End (CSE)	50	55	2750	0.31	1	844		844	220	1	220	0.50	1	110		110	
Tower 19	70	70	4900	0.90	1	2450	1960	4410	70	70	4900	0.90	1	2450	1960	4410	
Tower 20	50	50	2500	0.41	1	1025		1025	50	50	2500	0.41	1	1025		1025	
Tower 21	70	70	4900	0.38	1	1862		1862	70	70	4900	0.38	1	1862		1862	
Tower 22	50	50	2500	0.35	1	875		875	50	50	2500	0.35	1	875		875	
Tower 23	50	50	2500	0.32	1	800		800	50	50	2500	0.32	1	800		800	
Tower 24	50	50	2500	0.38	1	950		950	50	50	2500	0.38	1	950		950	
Tower 25	50	50	2500	0.42	1	1050		1050	50	50	2500	0.42	1	1050		1050	
Tower 26	70	70	4900	0.41	1	2009		2009	70	70	4900	0.41	1	2009		2009	
Tower 27	50	50	2500	0.28	1	700		700	50	50	2500	0.28	1	700		700	
Tower 28	70	70	4900	0.38	1	1862		1862	70	70	4900	0.38	1	1862		1862	
Tower 29	80	80	6400	0.33	1	2112		2112	80	80	6400	0.33	1	2112		2112	
Tower 30	50	50	2500	0.49	1	1225		1225	50	50	2500	0.49	1	1225		1225	
Tower 31	80	80	6400	0.52	1	3200	128	3328	80	80	6400	0.52	1	3200	128	3328	
Tower A1	80	80	6400	1.08	1	3200	3712	6912	80	80	6400	1.08	1	3200	3712	6912	
Tower A2	50	50	2500	1.14	1	1250	1600	2850	50	50	2500	1.14	1	1250	1600	2850	
Tower A3	50	50	2500	1.07	1	1250	1425	2675	50	50	2500	1.07	1	1250	1425	2675	
Tower A4	50	50	2500	0.85	1	1250	875	2125	50	50	2500	0.85	1	1250	875	2125	
Tower A5	50	50	2500	0.89	1	1250	975	2225	50	50	2500	0.89	1	1250	975	2225	
Tower A6	50	50	2500	2.75	1	1250	5625	6875	50	50	2500	2.75	1	1250	5625	6875	
Tower A7	50	50	2500	0.42	1	1050		1050	50	50	2500	0.42	1	1250		1050	
Tower A8	50	50	2500	1.20	1	1250	1750	3000	50	50	2500	1.20	1	1250	1750	3000	
Tower A9	80	80	6400	0.47	1	3008		3008	80	80	6400	0.47	1	3200		3008	
Tower A10	50	50	2500	0.33	1	825		825	50	50	2500	0.33	1	1250		825	
Tower A11	80	80	6400	0.45	1	2880		2880	80	80	6400	0.45	1	3200		2880	
Tower A12	50	50	2500	0.24	1	600		600	50	50	2500	0.24	1	1250		600	
Tower A13	50	50	2500	0.33	1	825		825	50	50	2500	0.33	1	1250		825	
Tower A14	80	80	6400	0.30	1	1920		1920	80	80	6400	0.30	1	3200		1920	
Tower A15	80	80	6400	0.20	1	1280		1280	80	80	6400	0.20	1	3200		1280	
Tower A16	50	50	2500	0.33	1	825		825	50	50	2500	0.33	1	1250		825	
Tower A17	50	50	2500	0.21	1	625		625	50	50	2500	0.21	1	1250		625	
Tower A18	80	80	6400	0.32	1	2048		2048	80	80	6400	0.32	1	3200		2048	
Tower A19	50	50	2500	0.36	1	900		900	50	50	2500	0.36	1	1250		900	
Tower A20	80	80	6400	1.92	1	3200	9088	12288	80	80	6400	1.92	1	3200	9088	12288	
Tower A21	50	50	2500	1.22	1	1250	1800	3050	50	50	2500	1.22	1	1250	1800	3050	
Tower A22	50	50	2500	0.70	1	1250	500	1750	50	50	2500	0.70	1	1250	500	1750	
Tower A23	50	50	2500	0.32	1	800		800	50	50	2500	0.32	1	1250		800	
Tower A24	80	80	6400	0.44	1	2816		2816	80	80	6400	0.44	1	3200		2816	
Tower A25	50	50	2500	0.68	1	1750	450	2200	50	50	2500	0.68	1	1250	450	1700	
Tower A26	50	50	2500	0.57	1	1250	175	1425	50	50	2500	0.57	1	1250	175	1425	
Tower A27	80	80	6400	1.76	1	3200	8064	11264	80	80	6400	1.76	1	3200	8064	11264	
Tower 47	50	50	2500	1.45	1	1250	2375	3625	50	50	2500	1.45	1	1250	2375	3625	
Tower 48	50	50	2500	2.71	1	1250	5525	6775	50	50	2500	2.71	1	1250	5525	6775	
Tower 49	80	80	6400	0.53	1	3200	192	3392	80	80	6400	0.53	1	3200	192	3392	
Tower 50	50	50	2500	0.11	1	275		275	50	50	2500	0.11	1	275		275	
Tower 51	50	50	2500	0.20	1	500		500	50	50	2500	0.20	1	500		500	
Tower 52	50	50	2500	0.39	1	975		975	50	50	2500	0.39	1	975		975	
Tower 53	50	50	2500	0.14	1	350		350	50	50	2500	0.14	1	350		350	
Tower 54	80	80	6400	0.57	1	3200	448	3648	80	80	6400	0.57	1	3200	448	3648	
Tower 55	50	50	2500	0.22	1	550		550	50	50	2500	0.22	1	550		550	
Tower 56	50	50	2500	0.21	1	525		525	50	50	2500	0.21	1	525		525	
Tower 57	80	80	6400	0.24	1	1536		1536	80	80	6400	0.24	1	1536		1536	
Tower 58	50	50	2500	0.26	1	650		650	50	50	2500	0.26	1	650		650	
Tower 59	50	50	2500	0.10	1	250		250	50	50	2500	0.10	1	250		250	
Tower 60	50	50	2500	0.13	1	325		325	50	50	2500	0.13	1	325		325	
Tower 61	80	80	6400	1.53	1	3200	6592	9792	80	80	6400	1.53	1	3200	6592	9792	
Tower 62	80	80	6400	0.21	1	1344		1344	80	80	6400	0.21	1	1344		1344	
Tower 63	50	50	2500	0.23	1	575		575	50	50	2500	0.23	1	575		575	
Tower 64	80	80	6400	0.19	1	1216		1216	80	80	6400	0.19	1	1216		1216	
Totals						126824	60962	187786						138938	62147	192187	
Total Excavated Volume Acrotelm Peat (m ³)						126824											
Total Excavated Volume Catotelm Peat (m ³)						60962											
Total Excavated Volume Peat (m ³)						187786											
Total Re-use Volume Acrotelm Peat (m ³)							138938										
Total Re-use Volume Catotelm Peat (m ³)							62147										
Total Re-use Volume of Peat (m ³)							192187										
Net Balance (m ³)							-4401										



Annex B Peat Coring Data

Strathy South Wind Farm Grid Connection

**Volume 4: Appendix V5-7.2: Stage 1 Outline Peat Management Plan –
Alternative Alignment**

SSEN Transmission

SLR Project No.: 428.013137.00001_04

		Peat Core Log						Hole No. PC01 Sheet 1 of 1			
Project: Strathy South Wind Farm Grid Connection				Client: SSEN				Dates: 03-10-2024			
Project No: 428.013137.00001_04				Logger: ET		Approved By: AH		Coordinates: E: 289647.00 N: 959767.00			
Location: Sutherland				Hole Type: PC		Level:		Vertical Scale: 1:26			
Water	Depth (m)	Sample Type	Depth	Recovery (%)	Depth (m) / Discontinuity Detail	Level (mAOD)	Legend	Stratum Description			
	0.00 - 1.00			Recovery = 100%		1.00		Dark brown fibrous PEAT (H2, B2).			
	1.00 - 2.00								Dark brown pseudo-fibrous PEAT (H3, B2).		1
	2.00 - 3.00			Recovery = 85%						2	
	3.00 - 4.00			Recovery = 100%						3	
				Recovery = 90%		4.00		Peat Core Complete at 4.00m		4	
										5	
Remarks: Peat core obtained using peat sampler. Peat core terminated on granular stratum.											

		Peat Core Log						Hole No. PC02 Sheet 1 of 1	
Project: Strathy South Wind Farm Grid Connection				Client: SSEN			Dates: 03-10-2024		
Project No: 428.013137.00001_04				Logger: ET		Approved By: AH		Coordinates: E: 288128.00 N: 961834.00	
Location: Sutherland				Hole Type: PC		Level:		Vertical Scale: 1:26	
Water	Depth (m)	Sample Type	Depth	Recovery (%)	Depth (m) / Discontinuity Detail	Level (mAOD)	Legend	Stratum Description	
	0.00 - 1.00			Recovery = 100%	1.00			Dark brown fibrous PEAT (H2, B2).	1
	1.00 - 2.00				2.00			Dark brown pseudo-fibrous PEAT (H4, B2).	2
				Recovery = 100%				Peat Core Complete at 2.00m	3
									4
									5
Remarks: Peat core obtained using peat sampler. Peat core terminated on granular stratum.									

		Peat Core Log						Hole No. PC03 Sheet 1 of 1	
Project: Strathy South Wind Farm Grid Connection				Client: SSEN				Dates: 03-10-2024	
Project No: 428.013137.00001_04				Logger: ET		Approved By: AH		Coordinates: E: 288122.00 N: 961832.00	
Location: Sutherland				Hole Type: PC		Level:		Vertical Scale: 1:26	
Water	Depth (m)	Sample Type	Depth	Recovery (%)	Depth (m) / Discontinuity Detail	Level (mAOD)	Legend	Stratum Description	
	0.00 - 1.00			Recovery = 100%	1.00			Dark brown fibrous PEAT (H2, B2).	1
	1.00 - 2.00							Dark brown pseudo-fibrous PEAT (H3, B2).	2
	2.00 - 3.00			Recovery = 90%					3
				Recovery = 85%				Peat Core Complete at 3.00m	4
									5
Remarks: Peat core obtained using peat sampler. Peat core terminated on granular stratum.									

		Peat Core Log						Hole No. PC04 Sheet 1 of 1	
Project: Strathy South Wind Farm Grid Connection				Client: SSEN				Dates: 03-10-2024	
Project No: 428.013137.00001_04				Logger: ET		Approved By: AH		Coordinates: E: 284074.00 N: 962690.00	
Location: Sutherland				Hole Type: PC		Level:		Vertical Scale: 1:26	
Water	Depth (m)	Sample Type	Depth	Recovery (%)	Depth (m) / Discontinuity Detail	Level (mAOD)	Legend	Stratum Description	
	0.00 - 1.00			Recovery = 90%	0.50			Dark brown fibrous PEAT (H2, B2).	1
							Dark brown pseudo-fibrous PEAT (H3, B2).		
	1.00 - 2.00							2	
	2.00 - 3.00								
				Recovery = 100%	3.00			Peat Core Complete at 3.00m	3
									4
									5
Remarks: Peat core obtained using peat sampler. Peat core terminated on granular stratum.									



PC01
0 – 1.0m



PC01
1.0 – 2.0m



Floor 2
4 Redheughs Rigg
South Gyle
Edinburgh
EH12 9DQ

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Connection**



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Project No.: 428.013137.00001

Photograph Date: October 2024



PC01
2.0 – 3.0m



PC01
3.0 – 4.0m



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PC02
0 – 1.0m



PC02
1.0 – 2.0m



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PC03
0 – 1.0m



PC03
1.0 - 2.0m



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PC03
2.0 – 3.0m



PC04
0 – 1.0m



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PC04
1.0 – 2.0m



PC04
2.0 – 3.0m



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**Strathy South Wind Farm Grid
Connection**



Project No.: 428.013137.00001

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