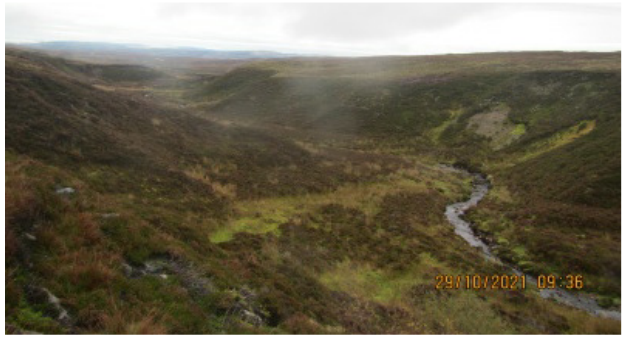
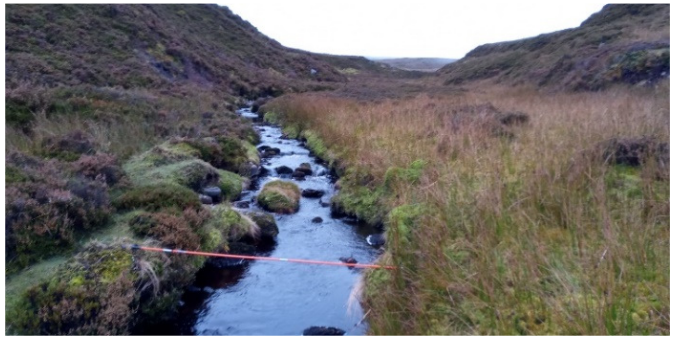
Appendix 13.E Watercourse Crossing Inventory

ID	Watercourse	Location	Grid Ref	Type of Crossing	Description
1	Allt Carn an t-Sean-liathanaich Shown on 1:50,000K scale OS mapping	New access track to Turbine 6	287640 834783	New Main	Channel size: Approx. 2.00m wide and 0.45m deep incised water channel. Water depth 0.1 to 0.3m. Substrate: Boulders and gravel. Watercourse meandering within flat bottomed valley. Secondary channel / flood bank low gradient, up to .6 m wide with rushes and heather on the left. Heather and steep bank to right. Erosion into glacial fluvial deposits righthand banking observed upstream and downstream. Valley size: Large incised, flat bottomed glacial fluvial valley approximately 60m wide by 12m high. Uses natural topographic spur into valley to reduce the build up of the crossing required. Crossing type: Single span or large bottomless arch or boxed bridge with build up to cross the wide deep valley. Subject to a flood risk assessment to determine accurate size and design of crossing.

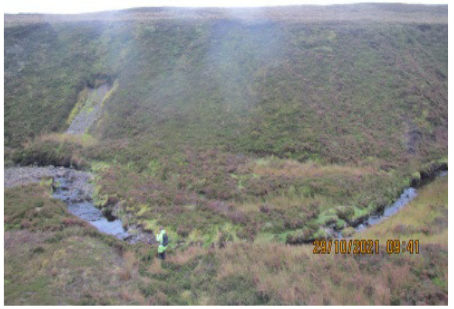
ID	Watercourse	Location	Grid Ref	Type of Crossing	Description



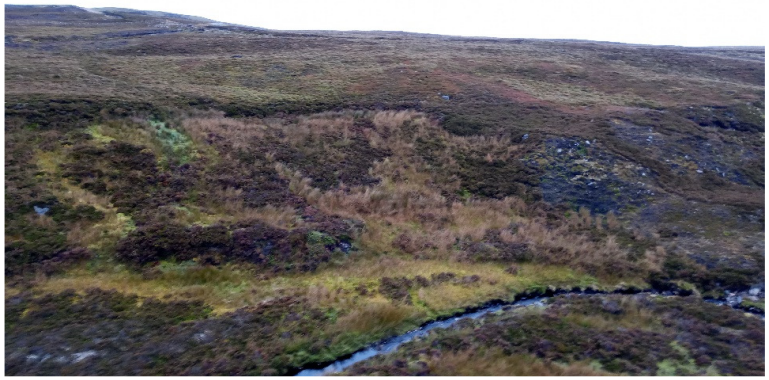
Downstream



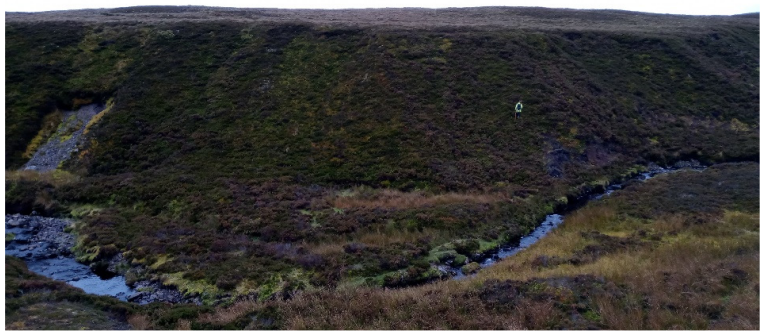
Channel



Upstream



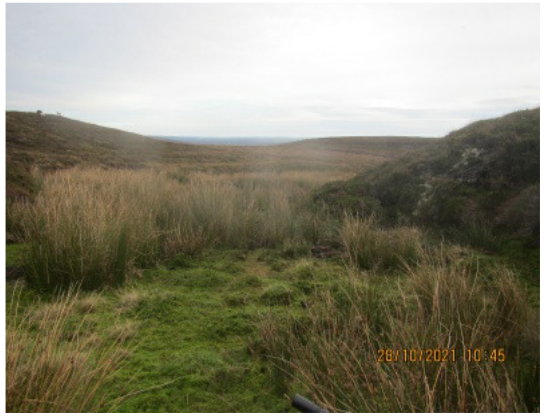
Facing north



Facing south

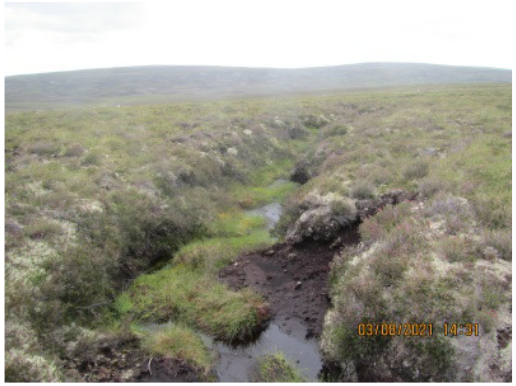
ID	Watercourse	Location	Grid Ref	Type of Crossing	Description
2	Un-named tributary of Allt Carn an t-Sean-liathanaich Achvarasdal Burn Shown on 1:50,000K scale OS mapping	New access track between Turbine 5 and Turbine 7	286355 833601	New	Channel size: 0.3m wide diffuse drainage / wetland. Valley size: approximately 10m wide by 3m high Substate: peaty soils and vegetation/rushes. Wider downgradient 15m wide wetland. Less wide further upgradient, approx. 6m wide, but high banks of uneven heights each side. Crossing Type: series of culverts (in effect, floating section of track)

Channel

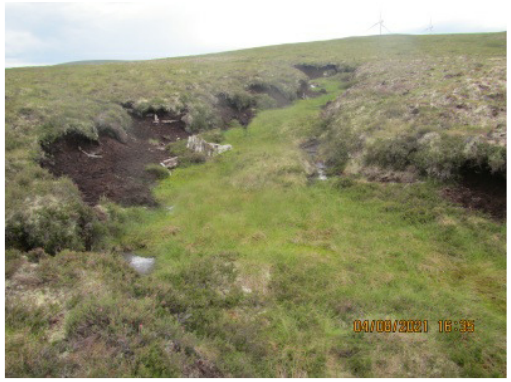


Downstream

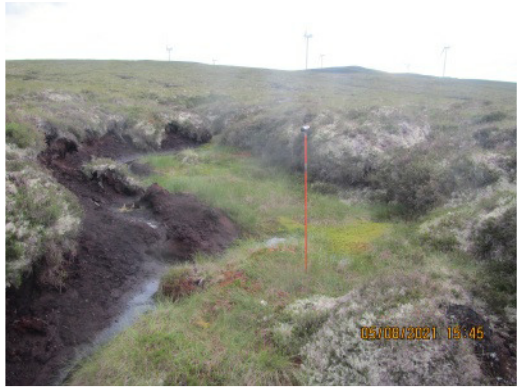
ID	Watercourse	Location	Grid Ref	Type of Crossing	Description
3	Un-named tributary of Rhilean Burn. Shown on 1:25,000K scale OS mapping	New access track between Turbine 2 and Turbine 1	287476 835434	New	Approx 2m to 3.5m wide, mostly diffuse flow, likely to have ephemeral surface water flow in wet conditions. Peat erosional gully, joins man made heather burning ditch down gradient Substrate: peaty soils, heather and moss. Crossing Type: series of culverts (in effect, floating section of track)



Downstream

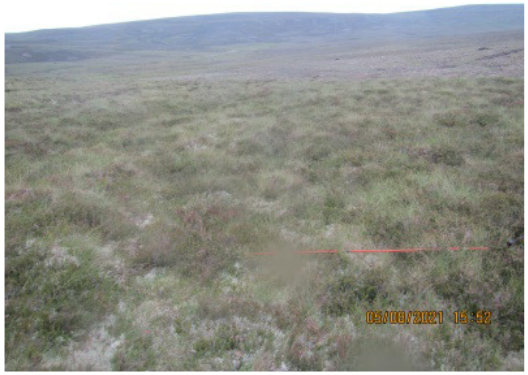


Channel

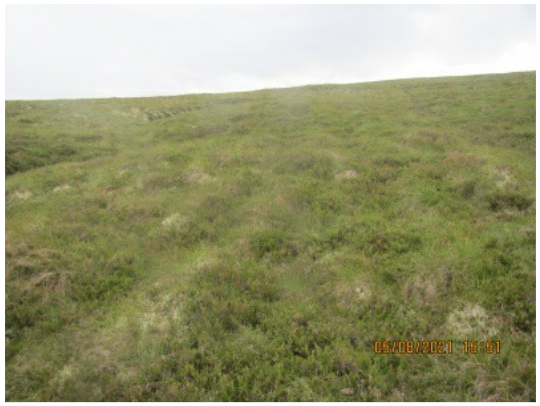


Upstream

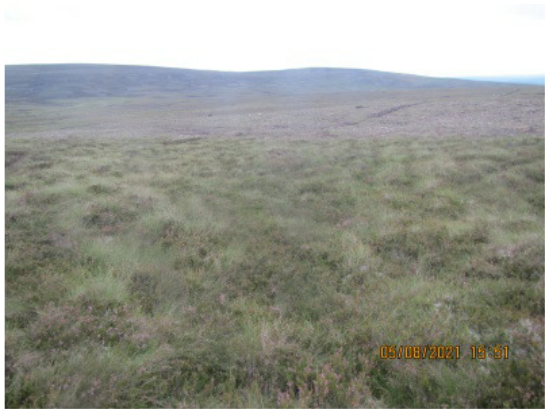
ID	Watercourse	Location	Grid Ref	Type of Crossing	Description
4	Un-named tributary of Allt an t-Slugain Mhor Shown on 1:25,000K scale OS mapping	New access track between Turbine 2 and Turbine 1	287338 835450	New	Approx 2m wide, mostly diffuse flow. Becomes a channel downgradient, possibly linked to a man-made drain. No proper channel. Substrate: peaty soils, heather, molina and moss. Crossing Type: series of culverts (in effect, floating section of track)



Channel

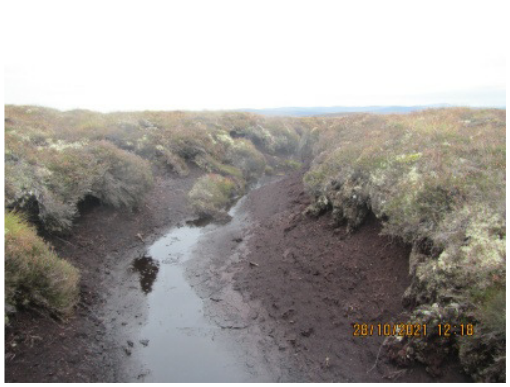


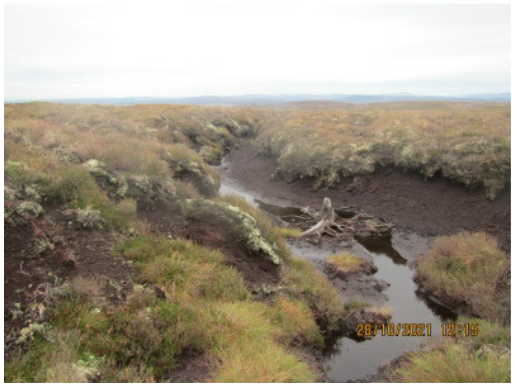
Upstream



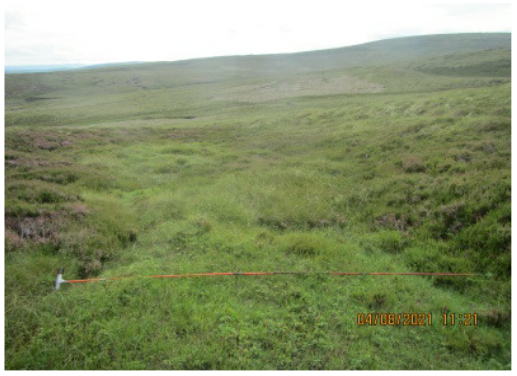
Downstream

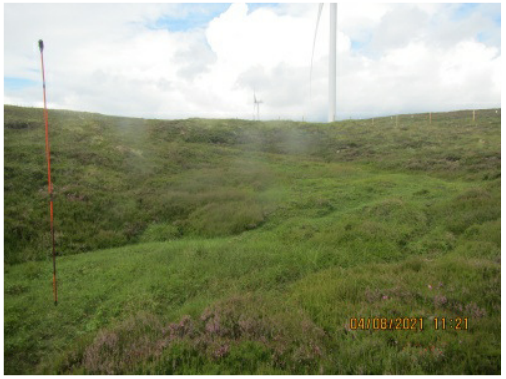
Examples of Minor Drains Crossings (Not Shown on OS mapping)



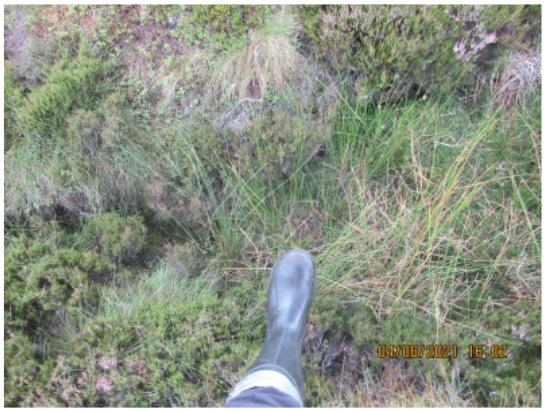


Drain 1 (NGR 286896, 834354) – crossing of peat erosional gully, culvert



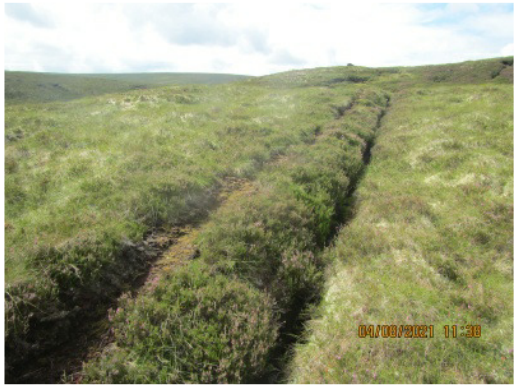
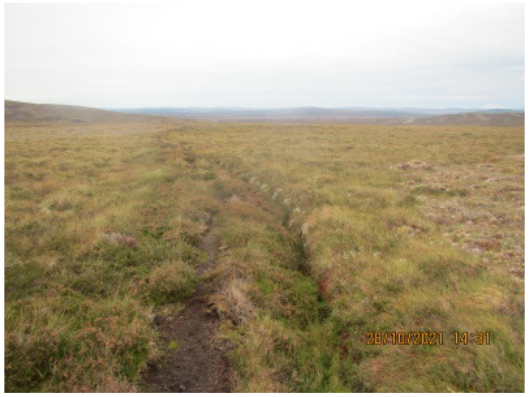


Drain 2 (NGR 286831, 834497) – Crossing of 3m wide diffuse channel, flush down gradient

Drain 3 (NGR 287036,834826) – Culvert crossing.

Examples of Man-made Heather/ Muir Burning Ditches


Near Turbine 4 Near Turbine 2 Near Turbine 3