

Aquatic Control Engineering Ltd - Project Profile

Project Name: Dearne Valley Wetland Habitat Wind Pumps

Client: RSPB



RSPB Old Moor and Edderthorpe Flash Reserve form part of the Dearne Valley Reserve which provides an urban escape to surrounding residents of Sheffield, Doncaster and Barnsley. ACE has installed 2 windmill pumps into the reserve to abstract water from the river Dearne to aid the creation of wetland habitats.

The first pump installed at RSBP Edderthrope Flash, Dearne Valley, will be used to pump water off site in the summer and in autumn back to the river. This is to increase wet grassland habitat suitable for breeding wader populations and passage for wader birds to feed.

The second pump installed at RSBP Old Moor, Dearne Valley, will abstract water from the river into a holding reservoir. The reservoir then feeds water into reed beds to maintain breeding water levels suitable for Bittern. The reservoir can also be used to feed water into other habitat within the reserve including other wet grasslands, mere, wader scrape, and the Wath Ings Fen area.

The windmill pumps were chosen over the electric powered alternatives for environmental factors. They both aid the RSBP green energy targets and are cheaper to operate and maintain compared to electric pumps. In remote locations are a lot cheaper to install. These pumps harness the power of wind only for abstraction and provide a keen feature to footpath amblers and educational tours.

ACE would like to thank the RSPB for the opportunity to provide and install the wind pumps and looks forward to continuing work with RSPB habitats and reserves into the future.

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