



The British Dam Society

EVENING MEETING

Monday 14th October 2024 - 18.00

Natural Resources Wales - Our 10 year reservoir journey.

Andrew Basford, Jack Lewis-Roberts, Jo Parkinson and Gerallt Richards of NRW



Cyfty Reservoir

For synopsis and brief presenter biographies see overleaf

This meeting will be streamed live on the internet. For more details, including enjoying the live stream as part of a group at one of our Regional Hubs around the UK, please visit the meetings page on the BDS website: www.britishdams.org

For more information, please contact the ICE on 020 7665 2147 or email: bds@ice.org.uk

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Synopsis

Natural Resources Wales - Our 10 year reservoir journey

On 1st April 2013, Natural Resources Wales (NRW) was formed from an amalgamation of three separate bodies in Wales namely, Environment Agency Wales (EAW), Forestry Commission Wales (FCW) and Countryside Council for Wales (CCW). The role of the Enforcement Authority for reservoirs (under the Reservoirs Act 1975) transferred as part of a previous two-year transition programme.

Once formed, NRW also acted as Undertaker for 11 registered reservoirs, predominantly flood risk management assets. During the early years NRW identified a number of potential reservoirs in their ownership or management. The in-house Supervising Engineers carried out initial investigations to determine whether they were likely to possess a raised volume capacity in excess of the new 10,000 cubic metres threshold and the likely risk classification for these structures. Initial studies showed that NRW had 47 sites that required assessment. This soon rose to 74 as the project started. 19 sites were identified as being over the 25,000m³ threshold and duly registered with a further 12 sites registered once confirmed to be over the 10,000m³ threshold. NRW's current reservoir stock has a variety of purposes including flood alleviation, water supply, nature reserves, historical structures and amenity.

This presentation tells the story of the challenges of forming a new organisation running in parallel with legislative changes to the Reservoir Act. From the initial investigation of numerous potential reservoirs and registration to investigative work, outcome workshops and final scheme delivery. NRW has delivered multiple construction schemes over the past 10 year to uphold reservoir safety standards which have included several discontinuance projects. Speakers will provide examples of works undertaken and the challenges ahead for NRW with regards to managing its reservoir portfolio.

Presenter's Biographies

Andrew Basford, Natural Resources Wales | Andrew has worked for NRW and its predecessor, Environment Agency Wales for 16 years. Andrew is an Incorporated Engineer with the Institution of Civil Engineers (ICE) and works as a Project Manager on high risk, high value capital projects. He has delivered several reservoir safety schemes since 2016 including the most recent award winning Llyn Tegid Reservoir Safety improvements Project in Snowdonia National Park.

Jack Lewis-Roberts, Natural Resources Wales | Jack has worked for NRW for the past 7 years in their Flood Risk Management, Reservoir Compliance and Projects Delivery teams. He currently works as a Project Manager specialising in delivery of reservoir compliance schemes. Since joining the team in 2020 he has delivered six Reservoir Safety schemes across a variety of dams, from Flood Storage Areas and SSSIs to amenity lakes and mining infrastructure.

Joanna Parkinson, Natural Resources Wales | Joanna has worked for Natural Resources Wales for the last 6 years, prior to this she worked in the Environment Agency for 5 years and within that period worked as a Reservoir Act Co-Ordinator for East Anglia. On joining NRW she worked as a Reservoir Project Manager, and since 2022 she has worked as the Reservoir Compliance Engineer. Jo also has experience in reservoir

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emergency planning, flood modelling and training procedures. She is a member of the Institute of Civil Engineers (ICE) and is currently working towards chartership through CIWEM.

Gerallt Richards, Natural Resources Wales | Gerallt has worked for Natural Resources Wales and the Environment Agency for over 20 years and is the Lead Specialist Advisor within NRW's Reservoir Regulation Team. He has worked on the identification of potential reservoirs, the flood mapping and risk designation of reservoirs and developing guidance for reservoir owners and engineers. He is a chartered member of CIWEM and a member of the British Dam Society committee.



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WARRINGTON | LEEDS | GLASGOW

The Regional Hubs allow the live stream of BDS evening meetings in London to be enjoyed as part of a group elsewhere in the UK.

Refreshments are provided from 17:30 in conjunction with watching the live streaming of the evening meeting - anyone is welcome to attend!

We would be grateful if you could register your intention to attend with the relevant Regional Hub host - details below.

WARRINGTON HUB | Nathan Freeman | nathan.freeman@uuplc.co.uk |

United Utilities, Lingley Mere, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

LEEDS HUB | Jineesha Mehta | jineesha.mehta@mottmac.com | 0113 394 3361

Mott Macdonald, 7th Floor, 26 Whitehall Road, Leeds LS12 1BE

GLASGOW HUB | Michael Agbo | michael.agbo@mottmac.com | 0141 222 3770

Mott Macdonald, 319 St Vincent St, Glasgow, G2 5LD

For general queries regarding the Regional Hubs please contact:
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