Kent and Medway Offsite Reservoir Inundation Emergency Plan

Context

Framework for Reservoir Inundation Preparedness Planning (Cabinet Office: October 2009)

- This guidance confirms upper tier / single tier local authority responsibility for co-ordination of Off- Site reservoir inundation Emergency Planning within their administrative boundaries.

- Upper tier / single tier local authorities have legal requirement to operate a Generic Off-Site plan.

Kent County Council
kent.gov.uk

Context

Type of Dam Breach:

A complete collapse of a dam wall and a sudden inundation of water: If a complete collapse occurs without warning or is forecast, available inundation velocity details and maps (potentially combined with the predicted period of time until collapse) will indicate how much time is available to evacuate downstream properties.

A slow onset reservoir emergency: In a slow onset emergency, i.e. where water is escaping as the result of an uncontrolled or emergency draw-down. The dam will continue to be monitored to assess the risk of a major failure.

Kent County Council
kent.gov.uk

Context

Dam Break Analysis:

“Sunny day” Breach: This would occur in dry weather conditions, suggesting the breach is not a result of increased flows into the reservoir. Downstream conditions are normal

“Rainy day” Breach: The describes a dam failure during a flood event, suggesting the breach may be the result of the increased flows entering the reservoir. Downstream conditions could already be experiencing high flows and flooding

Kent County Council
kent.gov.uk

Context

Consequences of Reservoir Inundation Emergency:

- Deaths and/or injuries amongst population caught in flood wave;
- Flooding, structural damage or total destruction of a number of properties;
- The severing and/or inundation of key parts of the local transport infrastructure, including arterial roads, bridges and railway lines. Closures of key parts of the transport network, such as major arterial roads and bridges linking different areas could compromise the ability of key agencies to respond and deploy their resources where these are needed; and
- The severing and/or inundation of key parts of the local utility infrastructure (electricity, gas, water and telecommunications).

Kent County Council
kent.gov.uk

Context

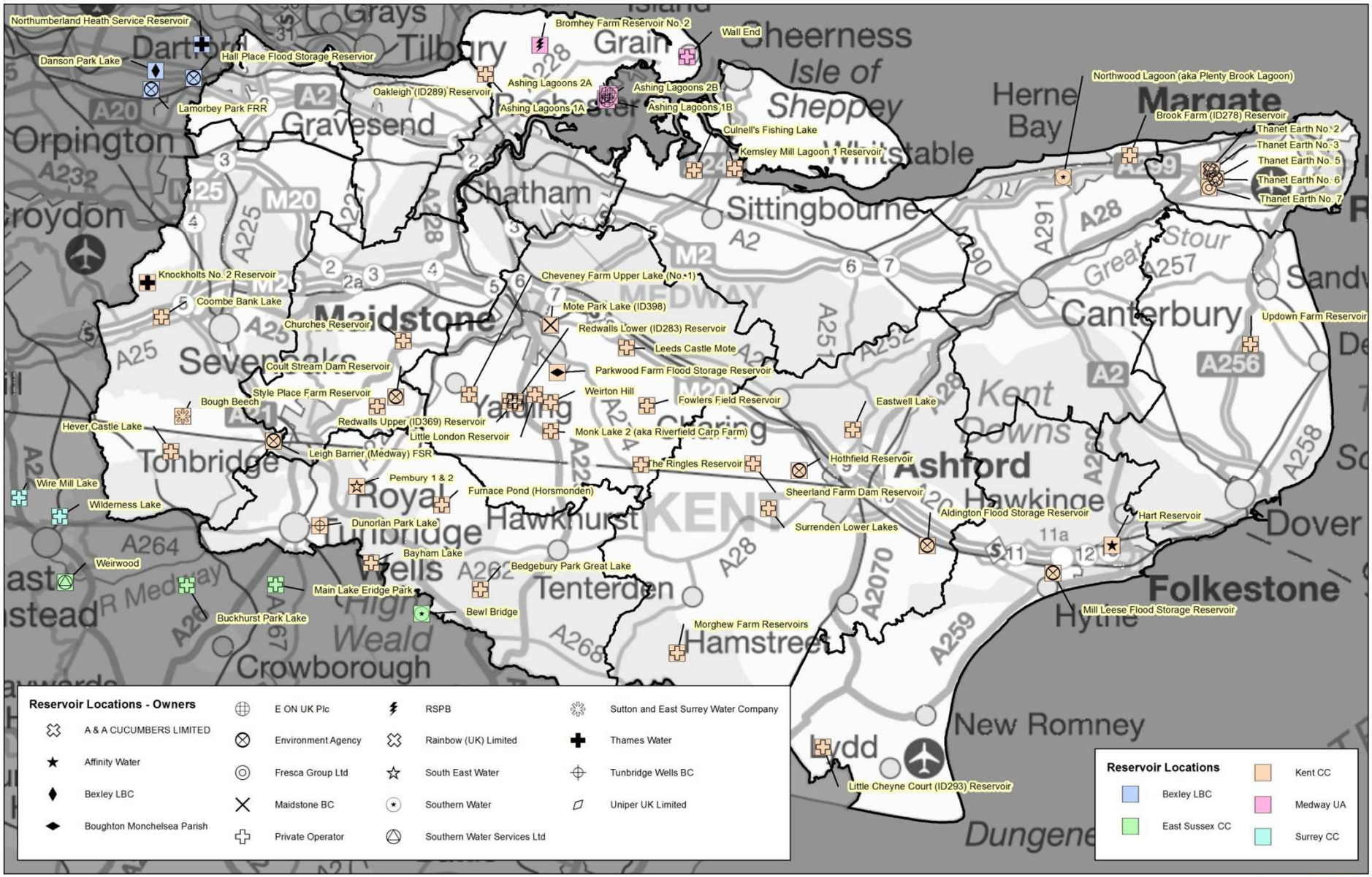
How many ‘Large Raised Reservoirs’ with capacity above 10,000m³ in Kent?

- **44** located within administrative county of Kent;
- **6** located within the Medway Council area; and
- **10** located within neighbouring local authority areas but could impact Kent.

TOTAL: 60 SITES

Kent County Council
kent.gov.uk

‘Large Raised Reservoirs’ with capacity above 10,000m³



Produced by the KCC GIS Team

Ref: ma1964_F1720051_Tony_Harwood

1:258000

Kent County Council kent.gov.uk

Context

Post-script:

- Reservoir Inundation Emergency Plan compliments Kent Resilience Forum Pan Kent Flood Plan, Local Multi-agency Flood Plans and KCC Flood Response Plan;
- Exercise Tethys tested and validated Reservoir Inundation Emergency Plan; and
- Kent Resilience Forum Severe Weather Group (formerly KRF Pan Kent Flood Group) provides multi-agency forum for reservoir inundation planning activity in Kent.
- **Questions?**

Kent County Council
kent.gov.uk