

HALIFAX WATER | DAM SAFETY REVIEW

Halifax Water



Description of Services Provided:

Meco was retained by Halifax Water to complete a Dam Safety Review (DSR) for six (6) dam systems; PockWock, Lake Major, East Lake, Lake Lamont, Chain Lake and Bayers Lake. Structures included earth embankments, concrete dams and spillways and timber crib dams and fish ladders, as well as sluice gates and stop log control structures. Meco completed all work in the framework established in the CDA Dam Safety Guidelines, 2007. Halifax Water has an eclectic array of structures and several unconventional structure types. Most of Halifax Water's structures are under 10m height and vary in classification from LOW to VERY HIGH consequences.

The project demonstrates Meco's capability and knowledge in the fields of hydrology, hydraulics and civil design as well as performance assessment of water control structures. The main components of the project deliverables were:

- A review of consequences of dam failure and a recommendation for consequence classification in accordance with the CDA Guidelines.
- A detailed site inspection for physical deficiencies at all dams, including preparing a photo log.
- A review and limited analysis of Design and Construction.
- A review of OM&S and EPP manuals and practices
- A review of compliance with previous reports
- Documentation and preparation of a formal report with findings and recommendations