



EDMONTON SECTION

Canadian Society for Civil Engineering

CSCE DINNER MEETING NOTICE

Thursday, January 21, 2016

University of Alberta Faculty Club, 11435 Saskatchewan Drive

“Flood and Drought Mitigation in Alberta”

Cathy Maniego, P.Eng., MBA

Executive Director of Resilience and Mitigation Branch

Ministry of Environment and Parks

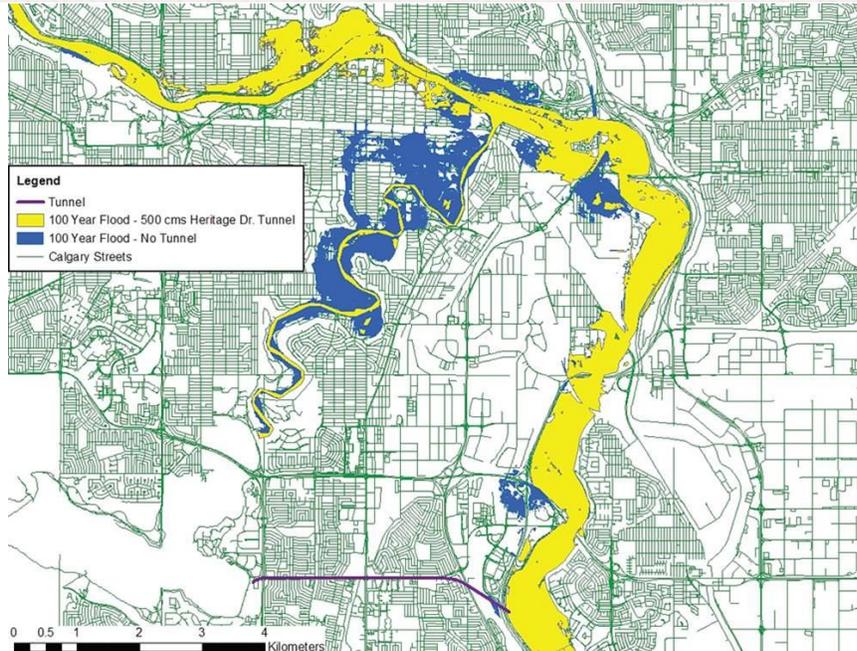
Government of Alberta

Abstract

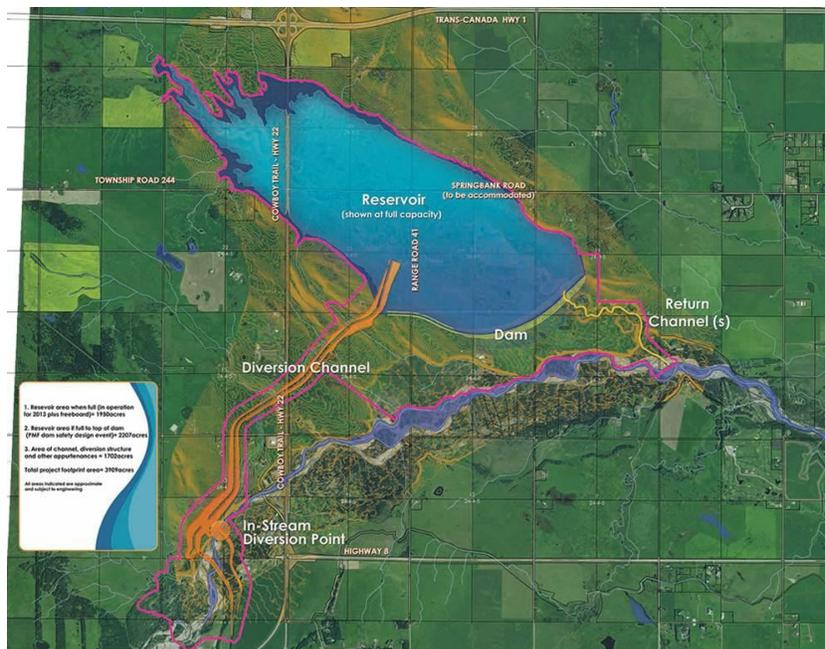
In late June, 2013, heavy precipitation fell for three days over the front ranges of the Rockies leading to widespread flooding along the Bow River and its tributaries. It was the most expensive natural disaster in Canadian history with damage estimates reaching \$6 billion. In the aftermath of the flood, the Resilience and Mitigation team was created to improve flood and drought resiliency in Alberta. This presentation will focus on the challenges and opportunities facing the branch, use the Elbow River as an example, and explore some key issues in the coming year.

Communities devastated by flooding demanded assurances that they would be protected from a similar event in the future. The pressure to implement solutions meant options for structural protection were analyzed in parallel with the development of flood management policies. Areas of particular concern were High River, Bragg Creek and the City of Calgary.

Three structural options were proposed to mitigate flooding along the Elbow River: an underground diversion tunnel; an off stream dry dam at Springbank; and a dry dam at McLean Creek. Each project had its advocates and critics. The Resiliency and Mitigation Branch worked to analyze the benefits and costs of the proposed projects with the Springbank dry dam chosen as the best option.



Critical to the development of resilience and mitigation is the creation of flood management policies in Alberta that enhance public safety and limit economic disruption while respecting private property rights. As pressure for immediate structural solutions eases, there is an opportunity to integrate multiple approaches to flood management in the coming year. Key issues the Branch is working on include the implementation of development regulations for flood hazard areas, flood mapping of vulnerable communities, and consulting with Albertans on a range of potential policy issues.





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Speaker Bio



Cathy Maniego is the Executive Director of the Resilience and Mitigation Branch, within the Ministry of Environment and Parks. As a professional civil engineer with over 15 years of experience in planning and project management, Cathy brings extensive technical expertise in transportation, water management and land use planning. In her current capacity, she leads the development of planning and policy for the mitigation of flood and drought in Alberta, as well as flood hazard identification and river forecasting, and is committed to excellence in the public service. By working with municipalities and communities, she supports the development of a provincial adaptation framework in order to ensure responsible, sustainable and safe water management within the province. Cathy is a graduate of the University of Alberta, holding both a B.Sc in Civil Engineering and a Masters in Business Administration in public administration.

DINNER MEETING DETAILS

Date: Thursday, January 21, 2016

Location: University of Alberta Faculty Club, 11435 Saskatchewan Drive

Cocktails Registration – 5:30pm
Dinner – 6:30pm
Presentation – 7:30pm
Closing Remarks – 8:30pm

CSCE Student Members - \$12.00
Student Non-members - \$17.00
CSCE Members - \$25.00
Non-members - \$35.00

Please assist us in forecasting attendance by registering at least two days in advance via website at www.csceedmonton.ca. An additional \$5 drop-in fee will be applied to individuals not pre-registered.



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