

A city skyline at sunset with a river in the foreground. The sun is low on the horizon, casting a warm orange glow over the scene. The buildings are silhouetted against the bright sky, and their reflections are visible in the water. The overall mood is serene and urban.

Bow River Water Management Project

Update

Rick Blackwood, Assistant Deputy Minister

June 20, 2018

Alberta

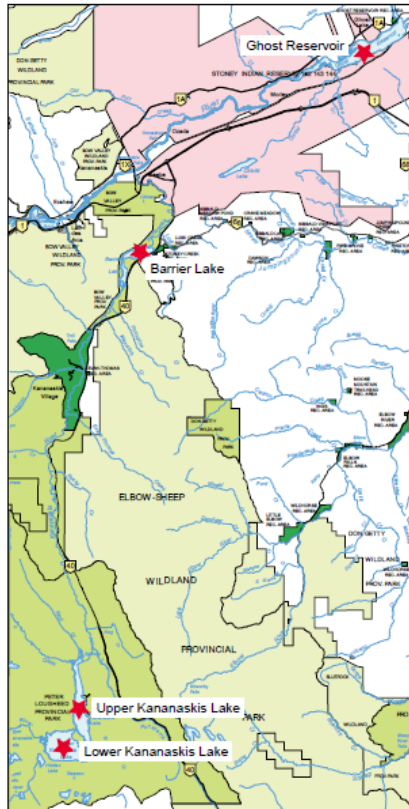
The Role of the Government of Alberta

- Invited the Bow River Working Group (BRWG) to reconvene
 - Strong history of collaborative exploration
 - Informed by best available data and knowledge in the basin.

The Role of the Government of Alberta

- Established an Advisory Committee to oversee work
 - Co-chaired with the City of Calgary
- Provided funding, resources and support.
- Government used a hands off approach.

Calgary Flood Resilience Projects



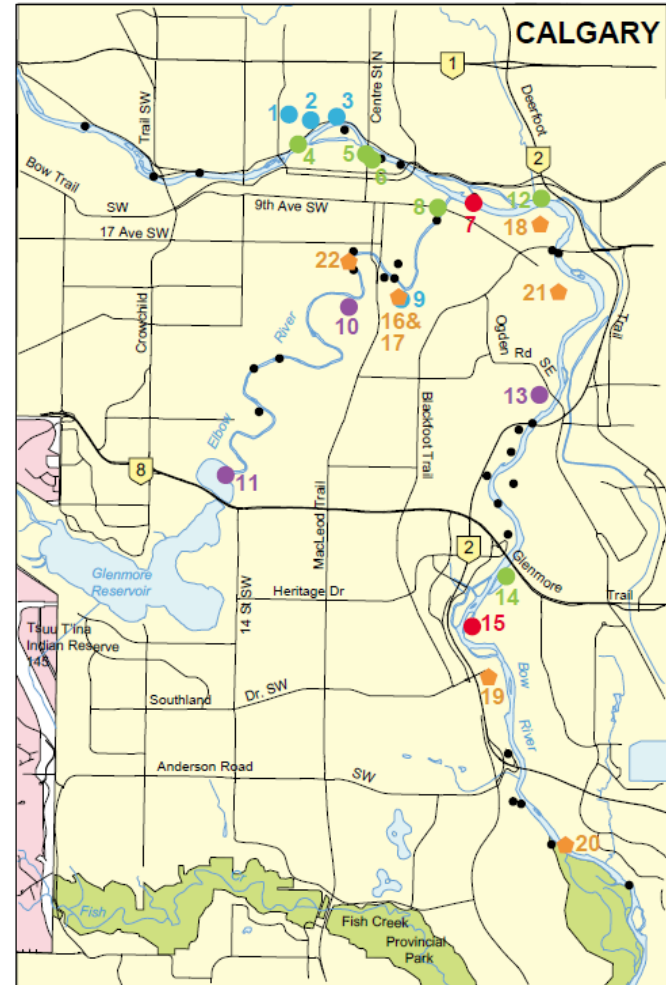
1. Upper Plateau Separation Project - \$4,153,027 - Approved
2. Sunnyside Pumpstation #2 Improvements - \$6,416,953 - Pre-construction stage
3. Sunnyside Pump Station #1 - \$3,400,000 - Pre-construction stage
4. West Eau Claire Flood Barrier - \$2,115,005 - Pre-construction stage
5. Centre Street Bridge lower deck flood barrier improvements - \$1,530,000 - Pre-construction stage
6. Downtown Flood Barrier - \$4,153,028 - Approved
7. Calgary Zoo Erosion Protection - \$600,000 - Complete
8. 9th Avenue (Inglewood) Bridge - Flood Resiliency - \$5,240,487 - Approved



9. Stormwater outfall improvements - \$1,800,000 - Active construction
10. Roxboro Sanitary Lift Station Replacements - \$1,728,900 - Complete
11. Glenmore Dam Infrastructure Improvement Program - Elevated Hoists - \$7,600,000 - Active Construction
12. Site Condition Improvements at the Western Headworks Diversion - \$567,000 Pre-construction
13. Bonnybrook WWTP - Flood Mitigation Prg. \$11,455,600 - Active Construction
14. Heritage Drive permanent flood barrier - \$3,960,000 - Pre-construction stage
15. Carburn Park - \$110,000 - complete
16. Rain Gardens for Resilience - \$100,000
17. Rainwater for Resilience - \$873,246
18. Bioengineering Demonstration and Education Project Partnership - Implementation of Project Education Plan \$522,500 - Active construction
- 19 - 22. Riparian Health Restoration - Multiple Sites - \$750,000

Cost-shared with the City of Calgary

- Community Protection and Public Safety
 - Risk Assessments
 - Stormwater Management
 - Water/Wastewater Infrastructure
- ★ Five-year modified operations agreement with TransAlta - \$5,500,000/year
- Healthy Watersheds/Riparian Restoration
- Erosion Control/Bank Stabilization
- All erosion control/bank stabilization projects are complete, except for one (Montgomery) - \$50,800,000



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Update on Flood and Drought Mitigation in the Bow Basin

- Drought storage in expanded Glenmore Reservoir
 - Spillway gate upgrades that will increase the overall capacity of the reservoir
- Carseland Canal debris deflector
 - Conceptual studies complete
 - Preferred option is to install a floating trash boom
- Operation of provincially owned water management infrastructure

Update on Flood and Drought Mitigation in the Bow Basin

- Ghost Rapid Drawdown Rate Study
 - Phase 1: Initial Data Review - underway
 - Phase 2: Site Investigation and Design
 - Phase 3: Construction

Update on Flood and Drought Mitigation in the Bow Basin

- Flood Mitigation Infrastructure on the Bow River
 - Phase 1: Conceptual Assessment
 - Phase 2: Feasibility Study
 - Phase 3: Detailed Design and Engineering
 - Phase 4: Construction

Update on Flood and Drought Mitigation in the Bow Basin

- Phase 1: Conceptual Assessment – Approved and underway
 - Hydrology study
 - Conceptual engineering design
 - High-level geotechnical investigation
 - Table top environmental scan
 - Stakeholder and Indigenous communities pre-engagement

Questions?

