

# Dawson Creek Flood Mitigation: The Shift to Informed Decision Making

Chelsea Mottishaw B.A., P.Ag. - Watershed Coordinator  
February 2020



*Welcome!*  
to the Peace River  
Regional District!

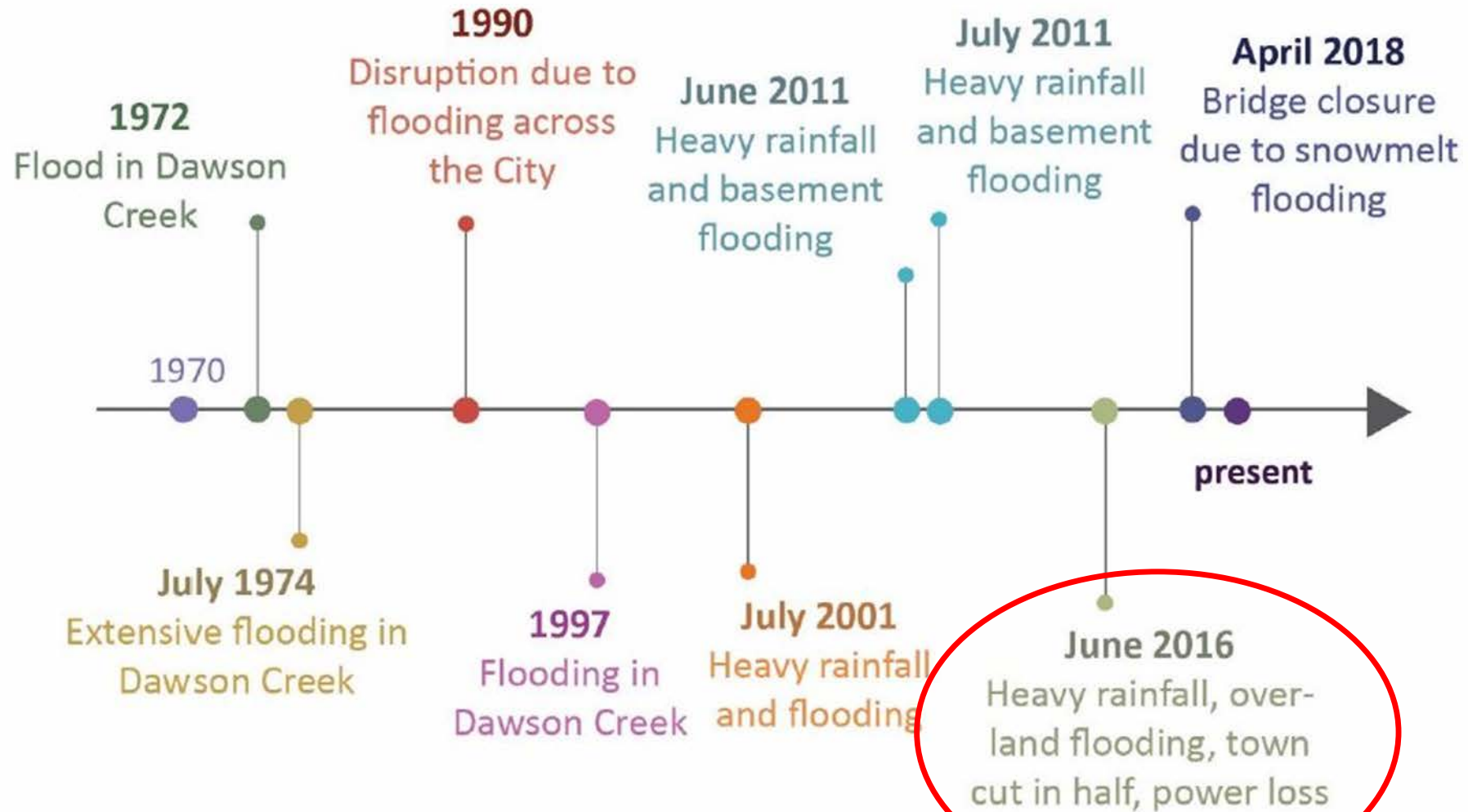
Dawson Creek



# Dawson Creek's Flood Events

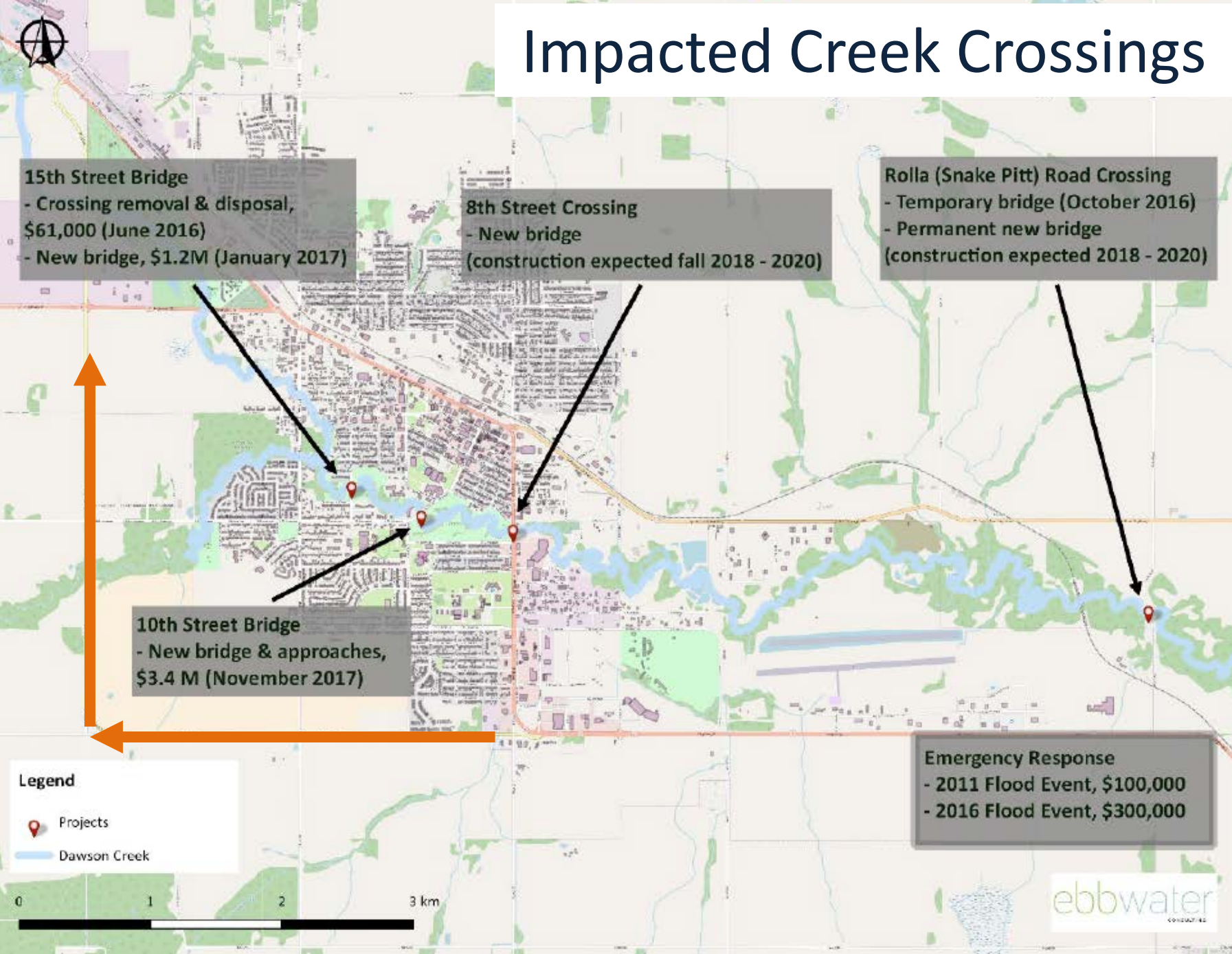


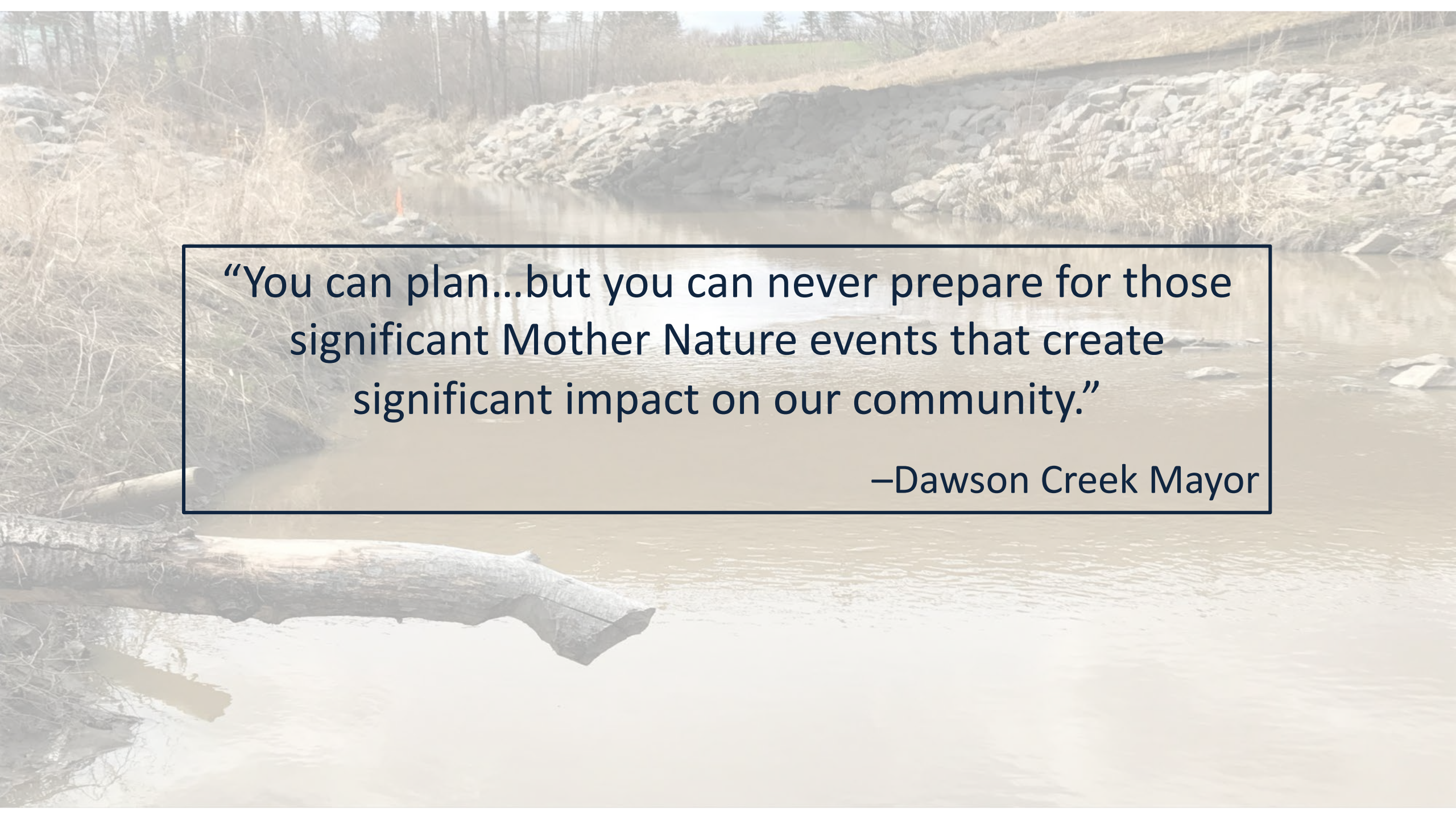
# Historical Flood Events





# Impacted Creek Crossings



A photograph of a river with a rocky bank and a log in the foreground. The river is calm, reflecting the sky and the surrounding landscape. The bank is composed of large, grey rocks and some dry grass. In the foreground, a large, weathered log lies horizontally across the water. The background shows a line of trees and a grassy hillside under a clear sky.

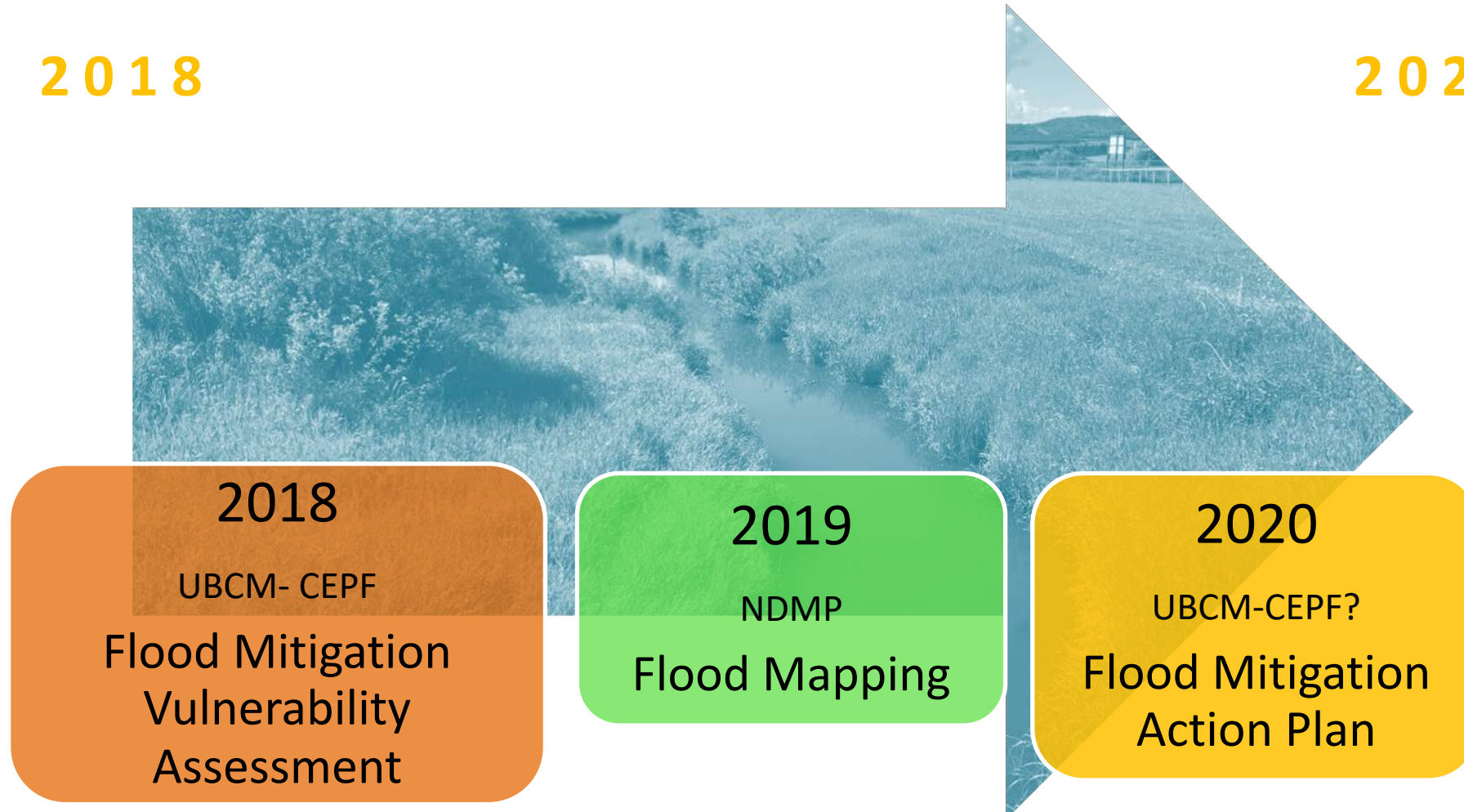
“You can plan...but you can never prepare for those significant Mother Nature events that create significant impact on our community.”

–Dawson Creek Mayor

# Path to Informed Decision Making

2018

2021



2018

UBCM- CEPF

Flood Mitigation  
Vulnerability  
Assessment

2019

NDMP

Flood Mapping

2020

UBCM-CEPF?

Flood Mitigation  
Action Plan



# Flood Mitigation Gaps



Zoning & Policies



Hydrometric Data



Institutional Knowledge Gap



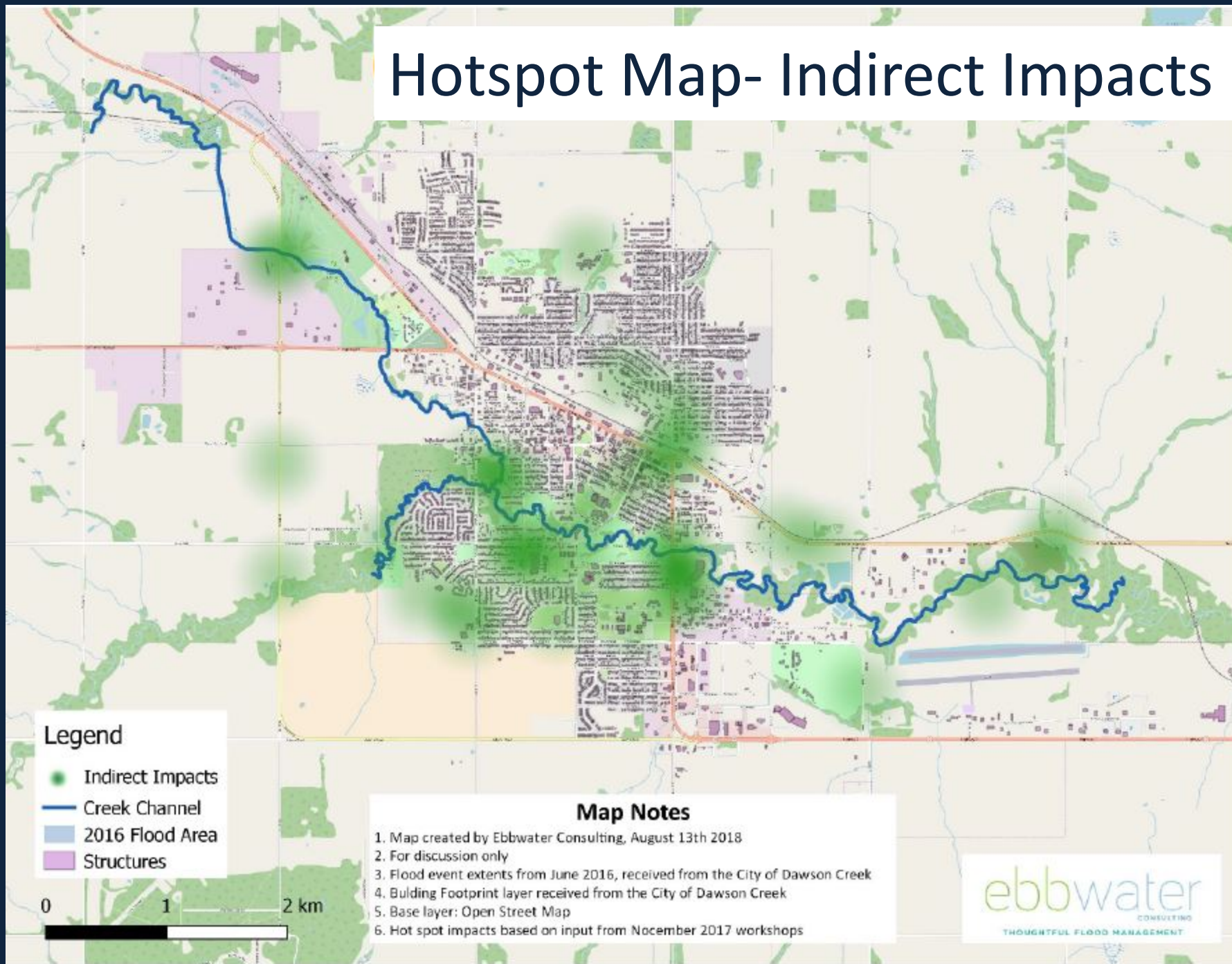
Internal Review of EMP



Grant Funding



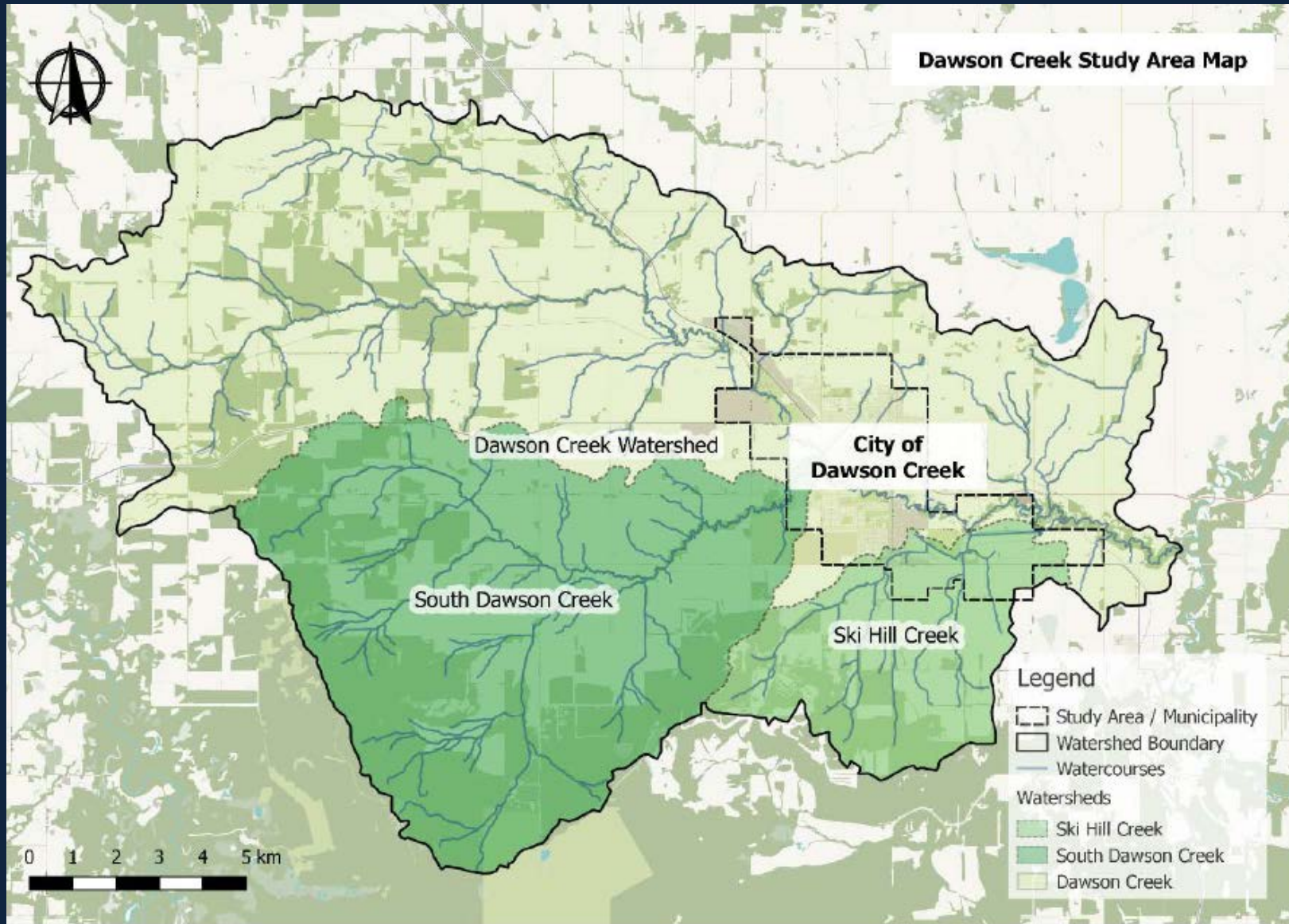
# Hotspot Map- Indirect Impacts



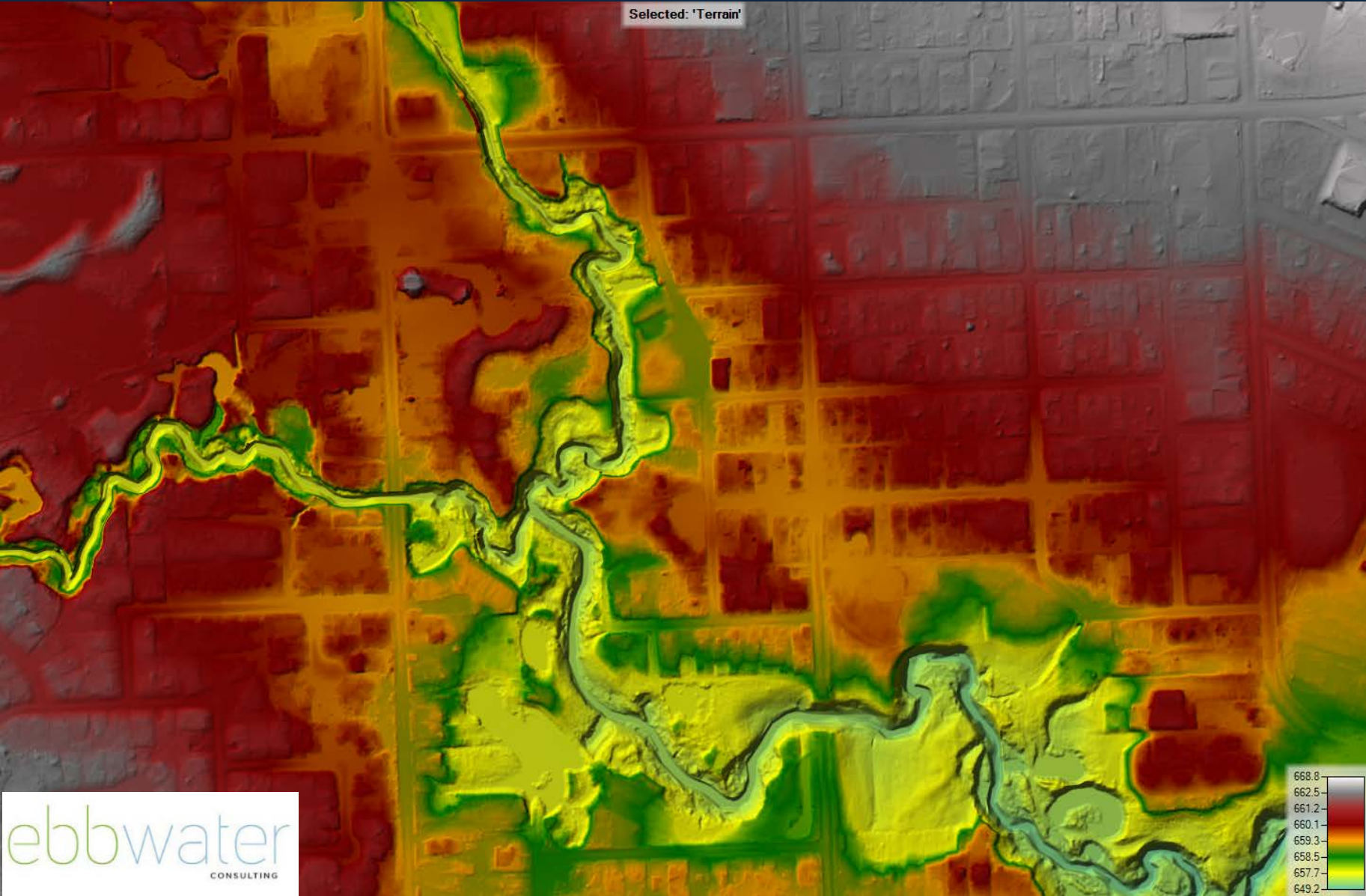
# Integrated Flood Mapping



# Study Area



# Flood Modelling & Mapping



# Geomorphic Assessment





**INFORMED DECISION MAKING REQUIRES  
THE INTEGRATION OF STRUCTURAL &  
NON-STRUCTURAL SOLUTIONS**

# Mitigation Pathways



Flood Policy & Zoning



Infrastructure Upgrades



Emergency  
Management



Natural Assets



Operational  
Changes













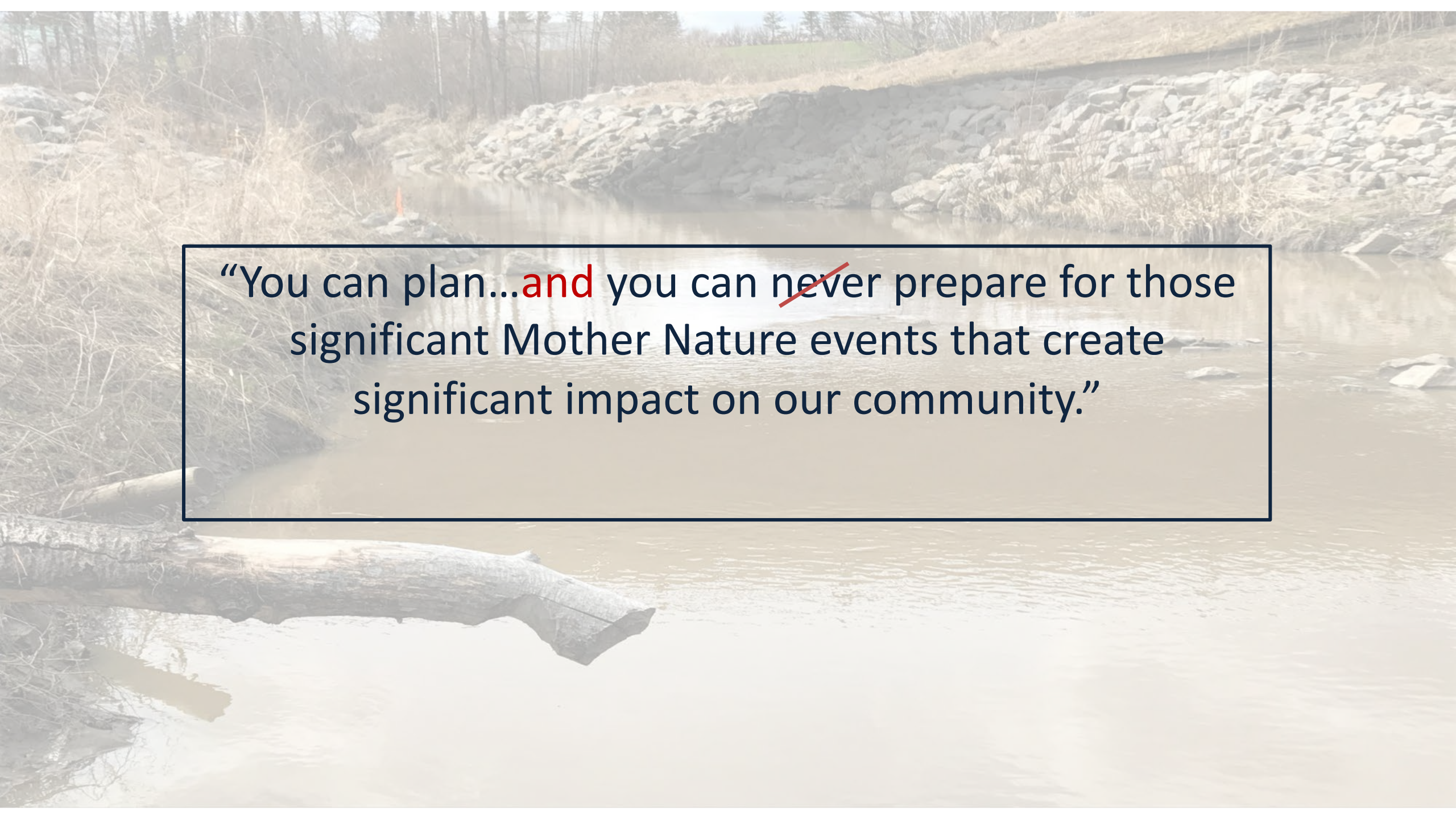
# The Path Forward

- Lunch & Learns
- Internal Flood SOP for staff
- Regional Collaboration
- Emergency Alerts



NORTH EAST BC

Emergency & Public Alerts

A photograph of a river with a rocky bank and a log in the foreground. The water is calm and reflects the surrounding environment. The background shows a grassy hillside and trees.

“You can plan...and you can ~~never~~ prepare for those significant Mother Nature events that create significant impact on our community.”

# questions?



Chelsea Mottishaw, B.A., P.Ag., Watershed Coordinator – [cmottishaw@dawsoncreek.ca](mailto:cmottishaw@dawsoncreek.ca)