

# River Breakup 2022

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Department: Engineering

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# Introduction

- Annual River Breakup “routine”
- Collaboration with contractors, consultants, industry, and provincial government
- Integration and alignment of plans



# Prevention/Mitigation

## Intent

- Identify hazards
- Assess risk
- Implement protective measures

## Tactics

- Surface Mitigation
- Underground Mitigation



# Surface Mitigation



## Permanent

- Berms (Flood Mitigation Program)

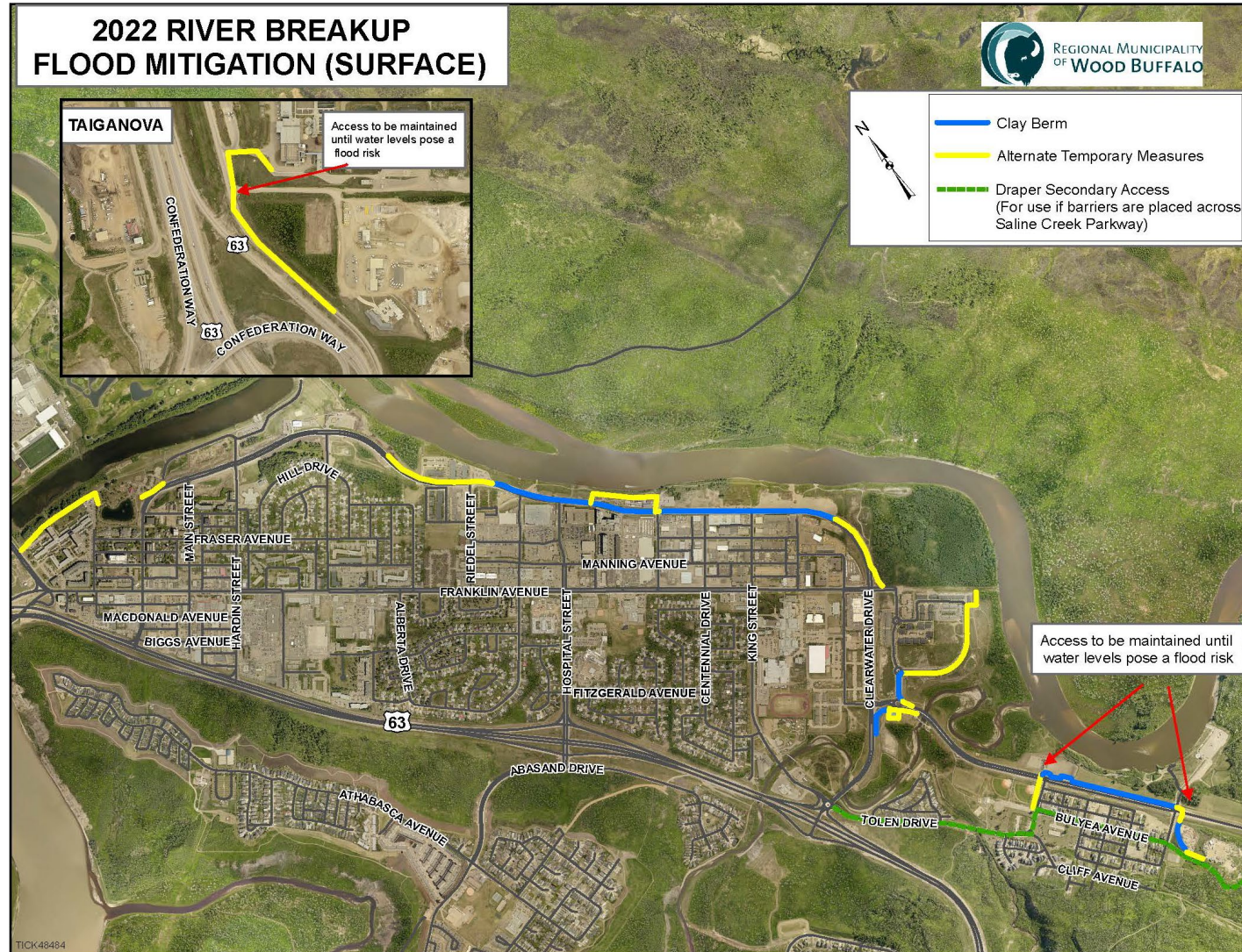
## Temporary

- Clay Berms
- Triple Dams
- Muscle Walls
- Hesco Carts
- Sandbag Program



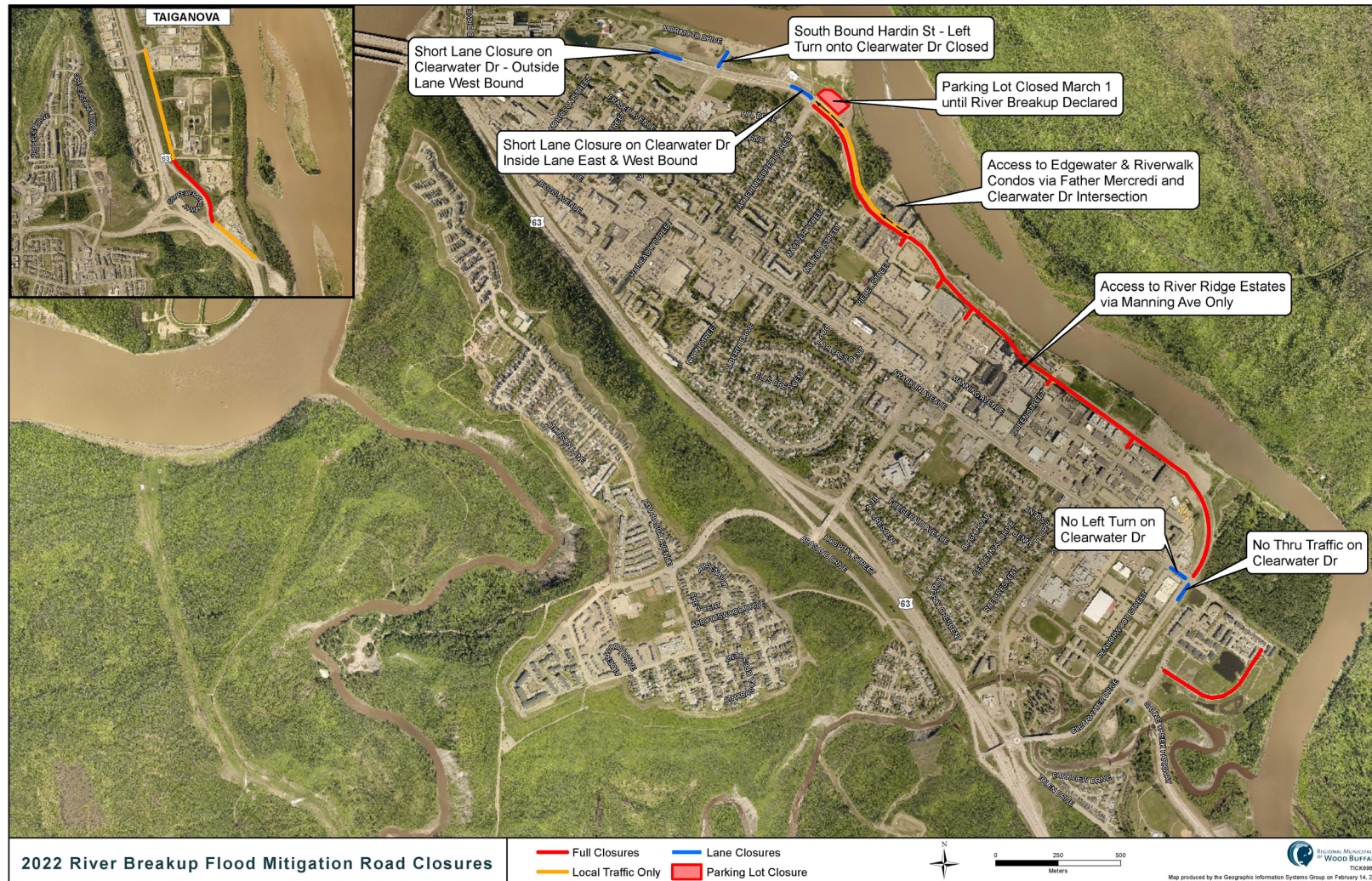


# Surface Mitigation





# Road Closures





# Underground Mitigation



- A. River-side entry points (manholes and storm drain outfalls)
- B. Passageways under the berm (pipes)
- C. Storm Water Management (rain and snow melt)



Watertight manhole cover



Inflatable pipe plug



Pumps for storm water management



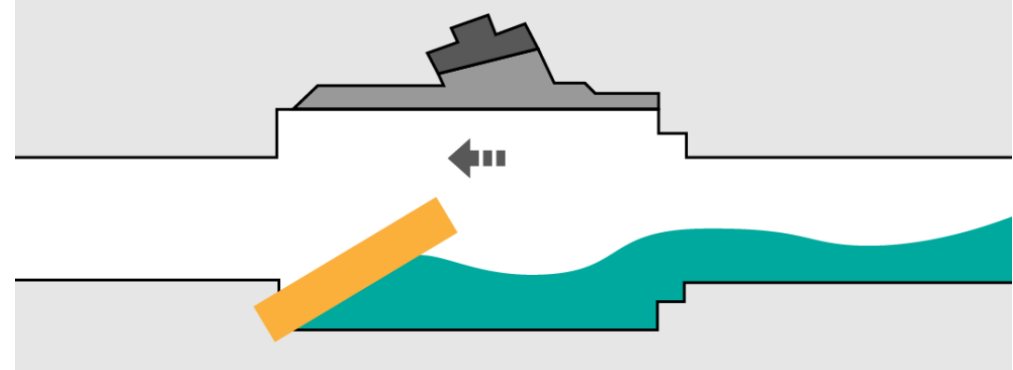
# Underground Mitigation



- Water Treatment Plant
- Wastewater Treatment Plant
- Lift Stations
- Backwater Valve Program



Water Treatment Plant

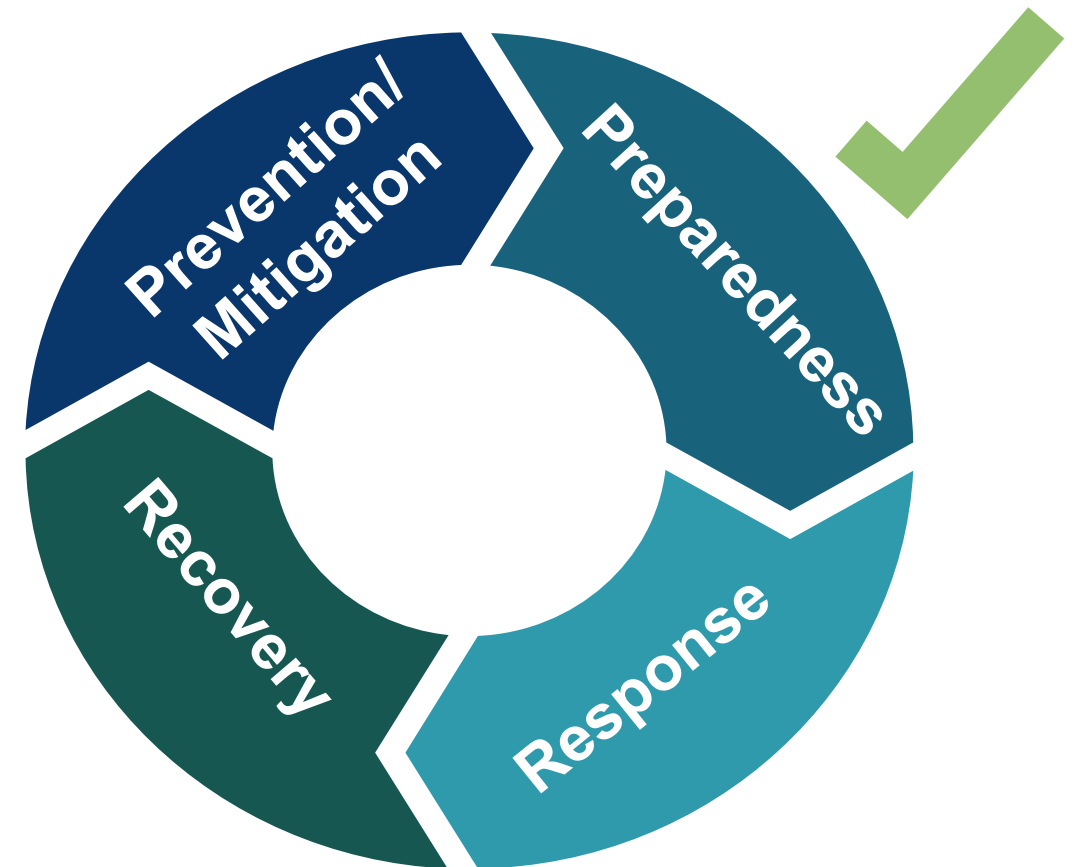
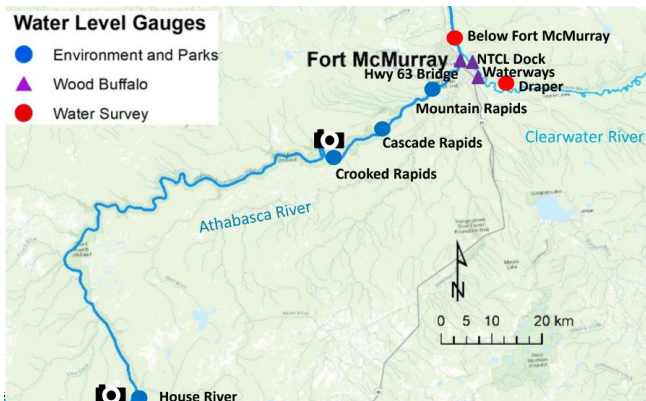


Backwater Valve



# Preparedness

- Collaboration with Alberta Environment and Parks
- Continuous visual and electronic monitoring
- *Alberta Rivers* and *Alberta Emergency Alerts* applications





# Preparedness



- Community Emergency Management Plans (CEMPs)
- Emergency Social Services (ESS)
- *Alertable* application
- Vulnerable Persons Registry (VPR)
- Household preparedness tools
- River Breakup Community Updates



# Thank You



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