Reduce water levels using riverine solutions

- Decrease channel or convert riverine flow in drainage basins and lakes
- Store or impede the flow of water in contributing watersheds
- Better floodplain management (adaptation to flooding)
- Better flood response plans (emergency preparedness)
- Structural solution to reduce high water levels and impacts of flooding
- Non-structural solutions to reduce vulnerability and increase resiliency in communities to floods

Options

- Reduce flood damages associated with recent water levels
- Challenges: license aggressive flood damages, poor infrastructure
- Need to develop effective planning and management practices
- Establish more accurate flood damage curves and flood inundations

Potential Benefits

- Would reduce water levels in the Richelieu River and Lake Champlain
- Constraints: increasing cost of infrastructure, landowner resistance
- Temporary flooding of small agricultural and residential areas
- Protecting the vulnerable population and critical services

Considerations

- Store or impede the flow of water in contributing watersheds
- Reduce high water levels in the Richelieu River and Lake Champlain
- Constraints: increasing cost of infrastructure, landowner resistance
- Temporary flooding of small agricultural and residential areas
- Protecting the vulnerable population and critical services

Potential Benefits

- Reduce water levels in the Richelieu River and Lake Champlain
- Constraints: increasing cost of infrastructure, landowner resistance
- Temporary flooding of small agricultural and residential areas
- Protecting the vulnerable population and critical services

Considerations

- Reduce water levels using riverine solutions
- Store or impede the flow of water in contributing watersheds
- Better floodplain management (adaptation to flooding)
- Better flood response plans (emergency preparedness)
- Structural solution to reduce high water levels and impacts of flooding
- Non-structural solutions to reduce vulnerability and increase resiliency in communities to floods

Options

- Establish more accurate flood damage curves and flood inundations
- Establish buffer zones, like floodplains or floodplains
- Consider floodplains, buffer zones, and flood damage assessments
- Establish more accurate flood damage curves and flood inundations

Potential Benefits

- Reduce flood damages associated with recent water levels
- Challenges: license aggressive flood damages, poor infrastructure
- Need to develop effective planning and management practices
- Establish more accurate flood damage curves and flood inundations

Considerations

- Flood forecasting to improve preparedness
- Flood proofing through engineering, flood safety, and living
- Reducing exposure through resettlement
- Protecting the vulnerable population and critical services

Options

- Reduce flood damages associated with recent water levels
- Challenges: license aggressive flood damages, poor infrastructure
- Need to develop effective planning and management practices
- Establish more accurate flood damage curves and flood inundations

Potential Benefits

- Flood forecasting to improve preparedness
- Flood proofing through engineering, flood safety, and living
- Reducing exposure through resettlement
- Protecting the vulnerable population and critical services

Considerations

- Significant potential to reduce flood damages
- Improved planning and effective actions
- Emergency evacuation plans are not well tested
- Evacuation plans are not well tested