

# FLOOD RECOVERY, MITIGATION, AND PREPAREDNESS

Hay River Community Meeting

Tuesday, March 14, 2023



# INTRODUCTIONS

Honourable Kandis Jameson – Mayor Town of Hay River

Honourable Shane Thompson – Minister of MACA, Minister of Lands,  
Minister of Environment and Natural Resources

GNWT and Town of Hay River Staff



# AGENDA

- 2022 Flood Event Summary
- 2022 Flood Recovery Update
- Flood Mitigation
- Emergency Planning
- Preparedness Activity
- Public Health Services
- Volunteer Opportunities
- Questions

# 2022 FLOOD EVENT SUMMARY

- 2022 Event Timeline





## Porritt Landing





Old Town



# Paradise Gardens







553





## Downtown





## Riverview Drive



# Downtown







## West Channel





## Industrial Area

# 2022 FLOOD RECOVERY

# 2022 FLOOD RECOVERY - DISASTER ASSISTANCE

- The GNWT Disaster Assistance Policy (DAP) is a government-funded assistance program that may be implemented after a widespread disaster to ensure essential community functioning and cover the essential basic needs of residents and businesses.
- Disaster assistance is limited to essential items, the loss of which was neither preventable nor insurable. It is not an insurance program to recover all losses, and it provides assistance to restore to pre-disaster condition only.
- Residents, small businesses, including non-profit organizations, and local authorities are expected to use their insurance first to cover the loss or damage of anything that is insurable.

# 2022 FLOOD RECOVERY - STATISTICS

- Total Registrations for Disaster Assistance – 500
  - 406 Town / 94 KFN
- Abatements
  - 217 assigned to MACA contractors (completed)
- Damage Assessments - 456
  - 372 Town / 84 KFN
- Structural Assessments - 52
  - 47 Town / 5 KFN

# 2022 FLOOD RECOVERY - SPILLS

- 43 locations in the Town were identified as having flood-related fuel spills.
  - Spills ranged from very small to medium-sized.
  - No large scale spills needing immediate effort.
- Letters with spill reports were recently provided to the affected property owners.
- MACA and ENR will be working with the property owners to assess and remediate those locations.
- MACA will be contracting with a company to conduct the assessments and manage the remediation work.
- Expect this work to be completed in summer/fall 2023.



# 2022 FLOOD RECOVERY – REPAIRS AND MITIGATION

- Hay River residents and businesses are undertaking their own repairs
- 200 Mitigation Assessments requested in Town of Hay River
- GNWT may provide up to \$75,000 for pre-approved mitigation measures
- In many cases, repairs and mitigation may not be completed before the 2023 flood season. Property owners who can show that they used best efforts to complete mitigation measures would be eligible for disaster assistance in the event of a flood in 2023.
- If you did not undertake any mitigation, you will not be eligible for future disaster assistance.

# 2022 FLOOD RECOVERY – DISASTER ASSISTANCE CLAIMS

- Please submit your final claims as soon as you can if you have completed your repairs.
- At any time
  - You may submit a claim for contents only.
  - You may apply for an advance of up to 50% based on your Damage Assessment Report.
- All final claims for disaster assistance must be submitted by end of December 2023.
  - Some replacement situations might take additional time and the deadline for replacements may be extended on a case-by-case basis if additional time is required.
- Pathfinders will remain in Hay River to provide advice and assistance through 2023.

# 2022 FLOOD RECOVERY – TOWN OF HAY RIVER

- \$4+ Million
- Support
  - Disaster Financial Assistance
  - CANNOR
  - Trans Canada Trail
  - Insurance



# 2022 FLOOD RECOVERY – TOWN OF HAY RIVER

## PUBLIC WORKS

- Riverview Drive
- Paradise Road
- Industrial Area Roads
- Airport Road
- Road Silt Removal
- Storm / Sewer System Silt Removal
- Landfill
- Vale Island / West Channel Roads
- Lift Station - Beaver Cres
- Lift Station 1
- West Channel Berm - Alaska Road
- Water Monitoring Equipment
- Storm Outlets
- Crosswalk Signs - Airport crossing
- West Channel Firehall

# 2022 FLOOD RECOVERY – TOWN OF HAY RIVER

## RECREATION

- Old Town Connector Trail
- Rotary Trail
- Irma Miron Trail
- Porritt Landing Marina
- Fisherman's Wharf Pavilion
- West Channel Playground
- Hoffman Way - Golf Course
- Ski Club Trails
- Keith Broadhead Ballpark
- Don Wright Ballpark
- Vale Island Playground
- Bob McMeekin Park
- KFN Ice Crossing Day Use Area





Lift Station #1





## Storm & Industrial





Water Treatment Plant Road & Paradise Road





## West Channel



## Alaska Road





Bob McMeekin





## Keith Broadhead & Connector Trail





Rotary & Irma Miron





Porritt Landing &  
Fisherman's Wharf







## Ski Club

# FLOOD MITIGATION

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- Levels of Responsibility
- Historical Mitigation
- Planned Mitigation

# FLOOD MITIGATION - ACTIVITY

- Riverview Drive Raising
- West Channel Berm Enhancements
- Paradise Gardens Road
- Airport Road Raising
- Downtown Berm
- Lift Station 1 Mitigation Study
- Flood Mapping
- Storm System Backflow Prevention
- Dredging Lobbying
- Sandbagging

# FLOOD MITIGATION - FUTURE

- Drainage Projects
- Climate Adaptation Study
- Building Standards
- Land Development



# EMERGENCY PLANNING

# NWT EMERGENCY MANAGEMENT ORGANIZATION (EMO)

- The *Emergency Management Act* (EMA) establishes a system designed to prepare for, respond to and recover from civil emergencies in the NWT, to ensure the safety and security of residents.
- Through the NWT Emergency Plan, EMO provides overall coordination of territorial emergency preparedness, response, recovery and mitigation activities.
- The Territorial EMO is located within MACA and is responsible for:
  - providing support to community/local EMOs;
  - leading the GNWT in the coordination of emergency response support in the event a local EMO requires assistance

# NWT EMO STRUCTURE

## Communities

- Local Emergency Management Organization (LEMOs)
- Community Emergency Plans

## Regional Emergency Management Organizations (REMOs)

- Emergency Operations Centres
- 1 dedicated staff in each Regional Office (Inuvik, Norman Wells, Fort Simpson, Fort Smith, Behchoko)
- NWT Emergency Plan

## Territorial Emergency Management Organization (TEMO)

- Located in Yellowknife
- Emergency Operations Centre
- 5 dedicated staff
- NWT Emergency Plan

Federal Government support accessed through Request for Assistance via TEMO to Public Safety Canada



# NWT EMERGENCY MANAGEMENT ORGANIZATION (EMO)

- Assists community governments to improve their emergency management capacity and when requested provide support to emergency responses.
- Activities or tools available to assist community governments improve emergency management capacity include:
  - Community emergency planning and tabletop exercise workshops to assist in developing or updating the community's emergency plan
  - A Community Emergency Plan template – a guide to assist community governments in developing their emergency plans
  - A Community Emergency Management video series – to educate community emergency management officials on basic emergency management and the NWT emergency management system.
  - Continued testing of the NWT public alerting system, development of wildfire and flood alert templates in partnership with communities and use of the system to issue broadcast intrusive alerts.

# LESSONS LEARNED- AFTER ACTION REVIEW

- Continued efforts seek feedback and identify opportunities for improvements after emergency events. Currently conducting an After Action Review (AAR) on the 2022 flooding event.
  - The first phase focused on Preparedness and Response to the 2022 flood. Engagement took place January-February 2023, including online survey open to the public January 9 to 23, 2023.
  - Because flood recovery is still ongoing and will continue throughout 2023, a second phase of the AAR will be undertaken later in 2023, which will focus on the Recovery from the 2022 flood.

# EMERGENCY PLANNING

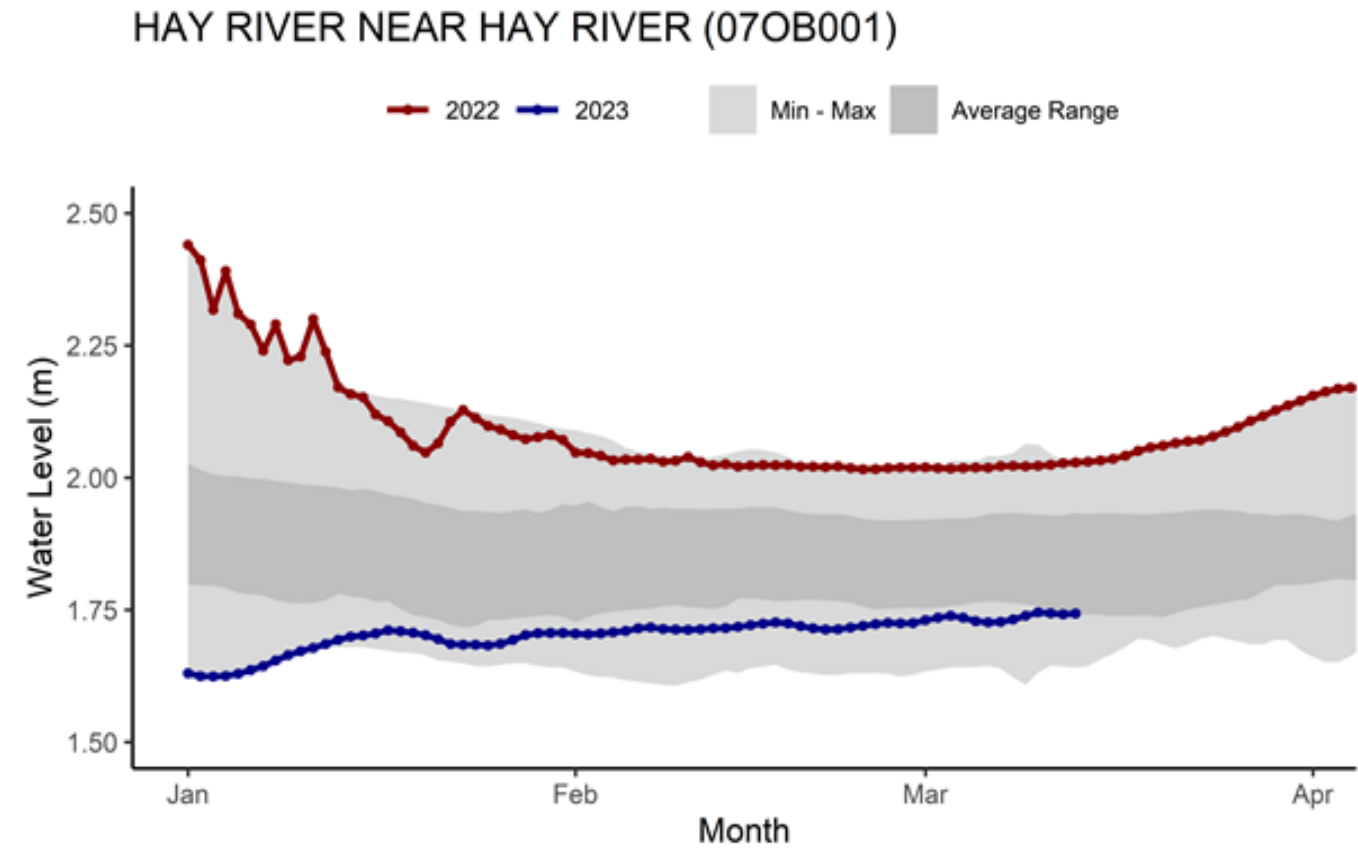
- Lessons Learned
- Hay River Emergency Plan
- Preparedness Exercises

# EMERGENCY PREPAREDNESS

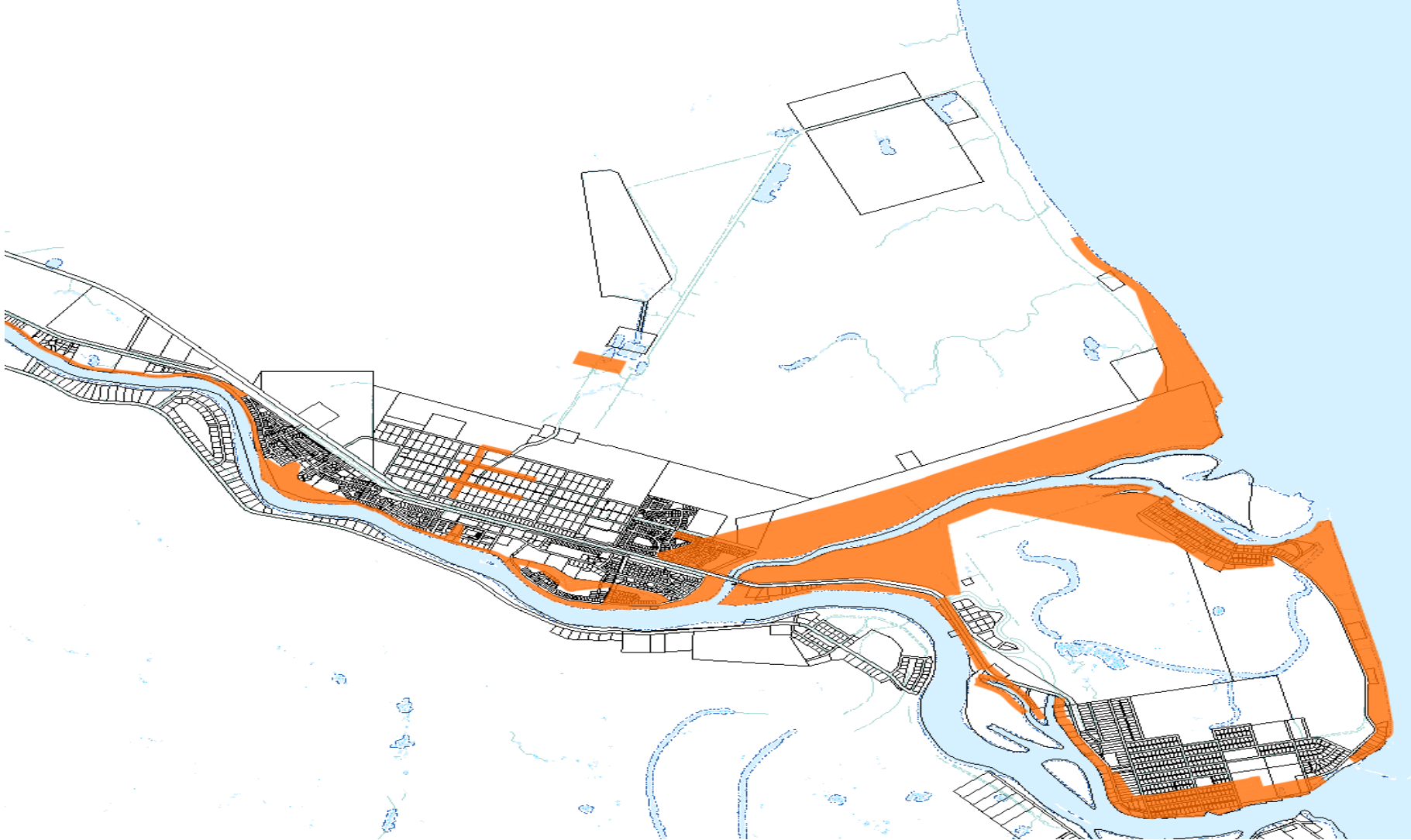


# EMERGENCY PREPAREDNESS

- Flood Forecast
  - Current Indicators
  - Monitoring Activities



# EMERGENCY PREPAREDNESS



# EMERGENCY PREPAREDNESS





# EMERGENCY PREPAREDNESS

- The **Be Ready** for Floods campaign is underway
- Resources for residents include a planning workbook to help individuals and households develop their own flood plan:
  - Property preparation checklist
  - Emergency kit guidance
  - Evacuation planning
  - Staying informed



## PLANNING WORKBOOK

This workbook is intended to help individuals and households develop their own flood plan.

It is a good idea to print out your filled plan and keep in a folder with any other important paperwork you will need if there is a community evacuation or damage to your property in your emergency kit(s) and/or save a digital plan on a memory stick to keep in your kit(s).

Once completed, this workbook will provide you and your household with flood-specific emergency plans for:

1. Staying safe at home until emergency workers reach you or services are up and running
2. Being ready to quickly evacuate

The workbook also provides:

- Suggested emergency kit contents (household and evacuation kits)
- Property preparation checklists
- Information on how to stay informed and updated
- A list of your personal emergency contacts

It is a good idea to save this plan in a folder with any other important paperwork you will need if there is a community evacuation or damage to your property. Keep the paper folder in your emergency kit(s) and/or save the digital folder on a memory stick to keep in your kit(s).

Not all fields may apply to your situation. Use this workbook as a tool and adapt as necessary to suit your needs.

Please review this plan with all members of your household so they are aware of roles.





# EMERGENCY PREPAREDNESS - PROPERTY

- Move equipment, vehicles and belongings stored outside
- Elevate supplies and equipment stored in garages and sheds
- Install barriers to protect low lying assets
- Prepare and check sump or other pumps
- Install / inspect backflow valves
- Pump out sewer tanks
- Install weather protection sealant around the base of low-level doors
- Take special precautions to safeguard electrical or propane heating



# EMERGENCY PREPAREDNESS - EVACUATION

- Make a household emergency plan and a basic emergency kit
- Prescriptions and medications for all family members
- Make temporary accommodation arrangements
- Plan for handling of pets
- Have sufficient clothing and essentials for family members packed
- Keep vehicles fueled

# EMERGENCY PREPAREDNESS – EVACUATION MESSAGING

## Evacuation Notice

- Issued through general public communications
- Community wide
- General risk to the community
- Execute general preparedness activity
- Pre-register

## Evacuation Alert

- Issued through general public communications and NWT Alert
- Issued for an area of the community
- Heightened awareness
- Those with special needs can evacuate

# EMERGENCY PREPAREDNESS – EVACUATION MESSAGING

## Evacuation Order

- Issued through general public communications, NWT Alert, Emergency Responders
- Execute family / organization evacuation procedure
  - Take household travel kit including medicines
  - Take emergency kit
  - Take pets
  - Shutoff propane tanks and heating systems
- Register household
  - Online form available at <https://hayriver.com/breakup/>
  - Call in to Registration Centre
  - Visit Registration Centre
- Travel to planned accommodation or public reception centre
  - If assisted travel is required, contact Registration Centre



# EMERGENCY PREPAREDNESS – EVACUATION TYPES

- Partial Evacuation
  - Within Community
- Mass Evacuation
  - Host Community(ies)

# EMERGENCY PREPAREDNESS - COMMUNICATIONS

- Town of Hay River Facebook
- Town of Hay River Website ([hayriver.com/breakup](http://hayriver.com/breakup))
- Emergency Measures Email System
- Registration Centre – 833-699-0188
- Emergency Responders
- NWT Alert System



# PUBLIC HEALTH SERVICES

- For mental health support, please contact Community Counselling Services at (867) 874-8450

# VOLUNTEER OPPORTUNITIES

- Flood Monitoring Crew
- Food Services
- Evacuation Centre Support
- Registration Services
- Recovery Support
- [humanresources@hayriver.com](mailto:humanresources@hayriver.com)



# QUESTIONS?

- Name
- Question
- Follow-up