



# 2AM-MRY-1325 Type A Water Licence Renewal

## NWB Technical Meeting

December 3-4, 2024





# MISSION

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Our mission is to become the lowest cost producer of high-grade iron ore in the world.

[illegible]

# VISION

אברהם אבינו

Our vision is to safely and efficiently identify and develop resources within Baffin island, unlocking their wealth-generating potential for the benefit of all stakeholders.

[illegible]

# VALUES

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## Health & Safety

### Safety as a value

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 ልዩ ምስጢር  
 ልዩ ምስጢር

## Integrity

Do what is right, not what is easy.

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 ለጋጋ ርዕሰ ጉዳይ,  
 ለጋጋ ጉዳይ ጉዳይ

## Engage and Develop our People

Լճակի Բնակավայր  
 Բնակավայր

## Respect for all

$\Delta^b \wedge J_{\sigma} \dashv \sigma$      $\rho^b d \vdash L \sigma^b$

## Environmental Stewardship

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## Pursue Performance Excellence

[illegible]

# Presentation Summary

- Mary River Water Licence Renewal Overview
- Technical Overview
- Conclusion



# **Mary River Water Licence Renewal Overview**

# Mary River Water Licence History

## Key Dates

- **June 10, 2013:** Issuance of Type 'A' Water Licence 2AM-MRY1325
- **July 21, 2015:** Issuance of Amendment No. 1 to Type 'A' Water Licence 2AM-MRY1325 (Early Revenue Phase)
- **June 26, 2024:** Renewal Application Submission



NUNAVUT WATER BOARD

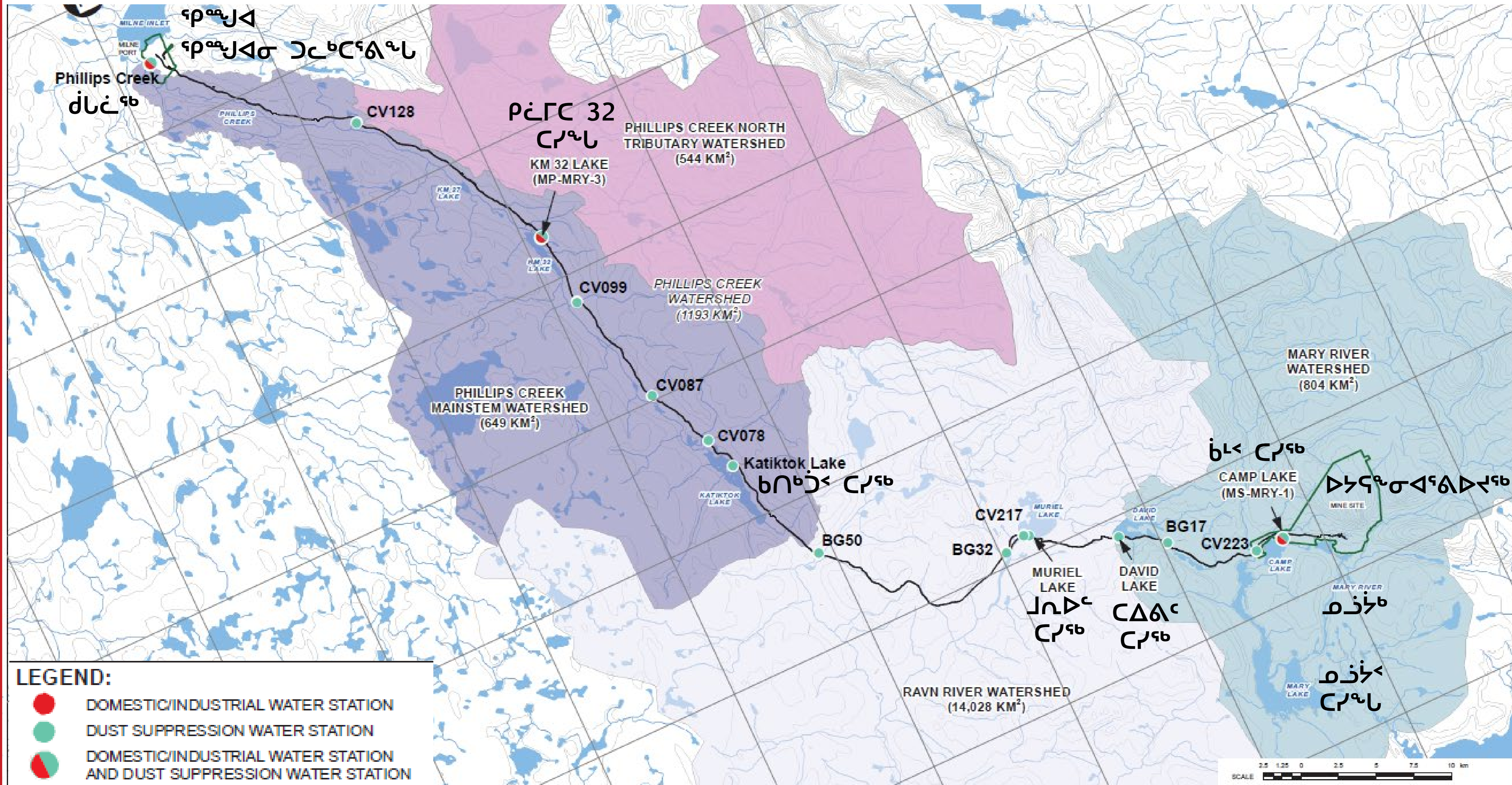
WATER LICENCE NO: 2AM-MRY1325

# Water Licence Renewal Overview

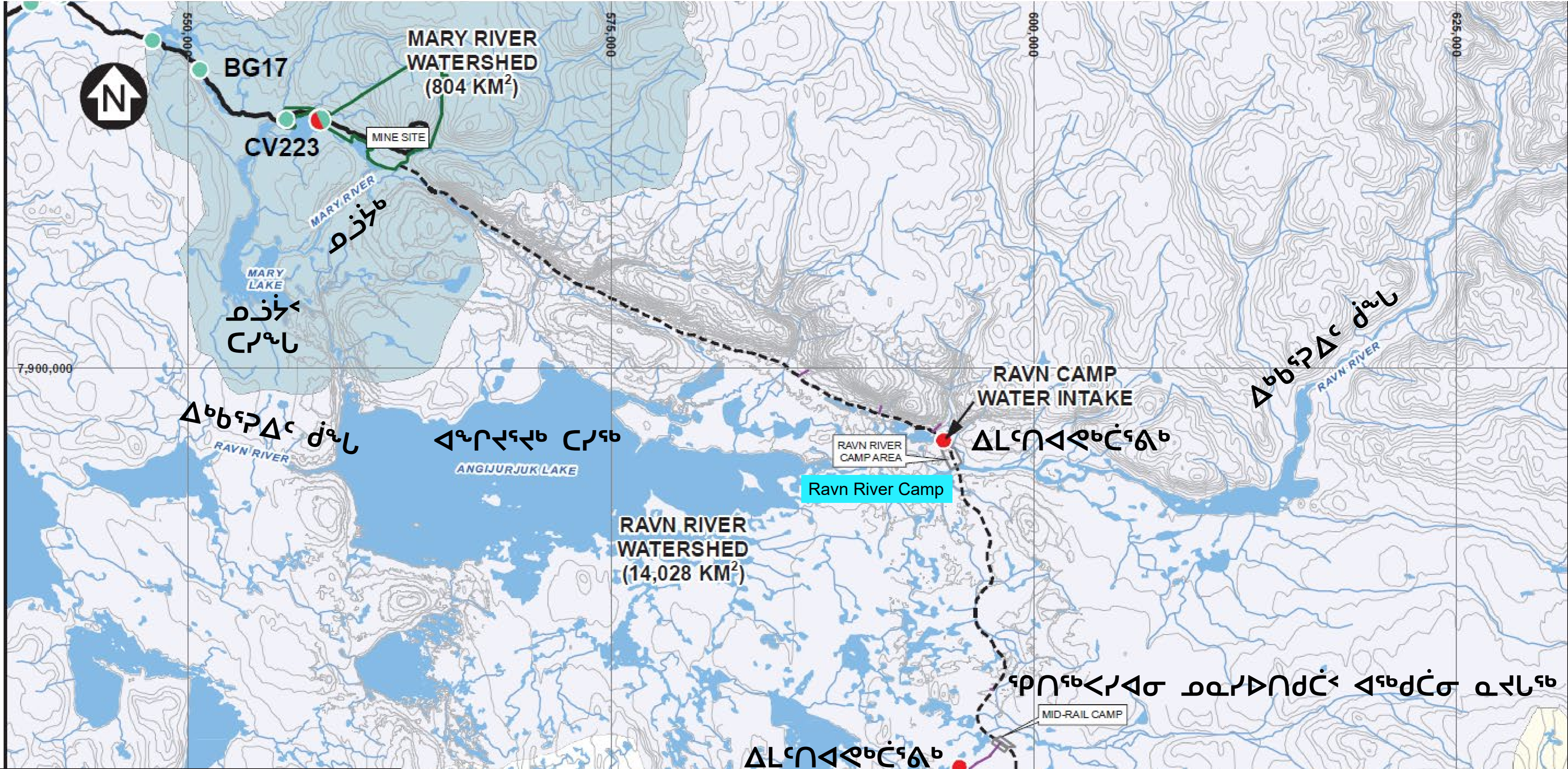
- Requesting a 15-year term
- No substantive changes to current licence terms and conditions requested as part of the water licence renewal
  - Minor improvements to improve functionality
- Management Plans for current operations provided for reference, already subject to annual review
- Current licence issued based on Project Certificate (PC) 005, everything in scope of PC is included in the current water licence



# Approved Water Stations



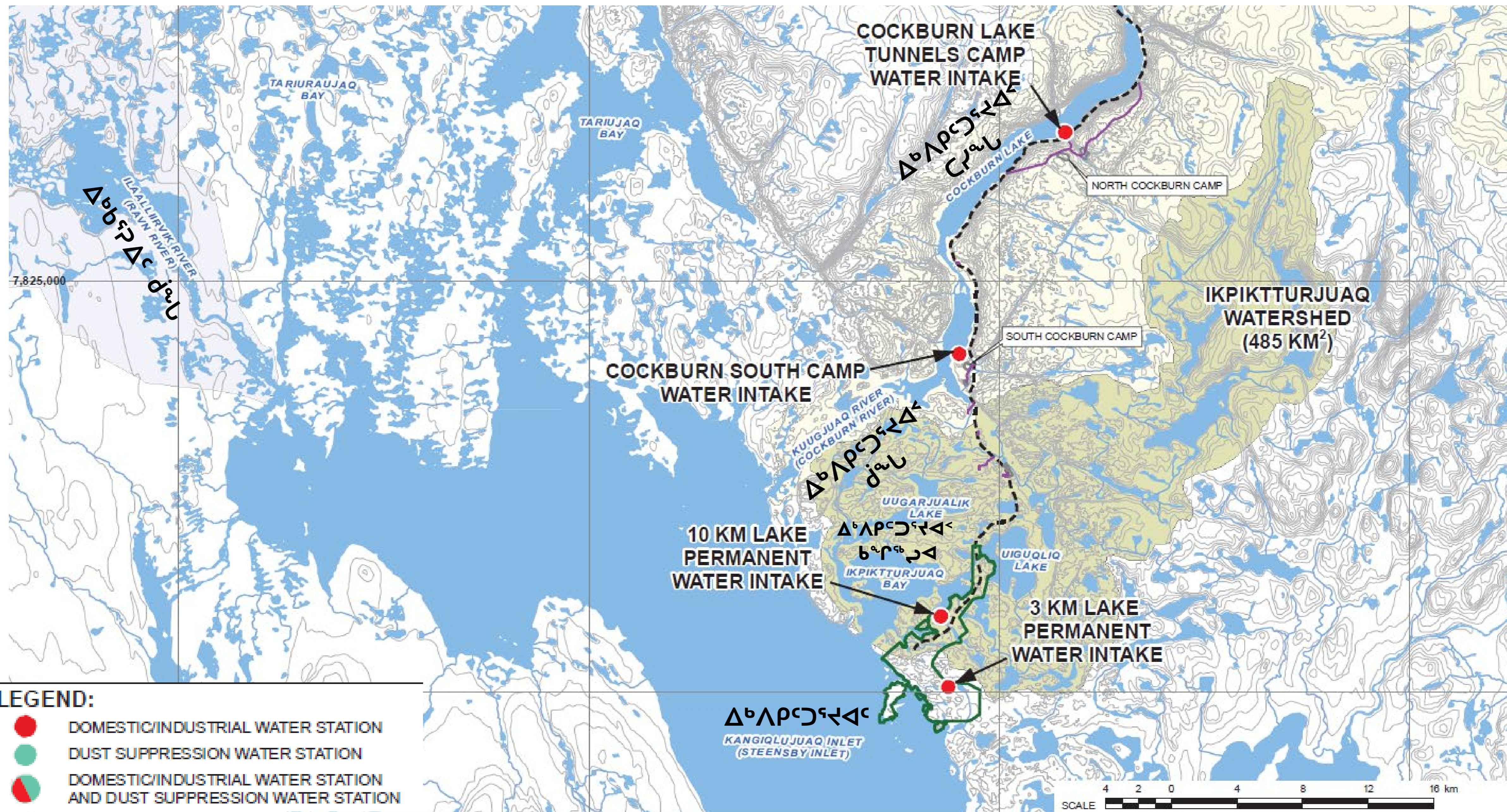
# Approved Water Stations - Steensby



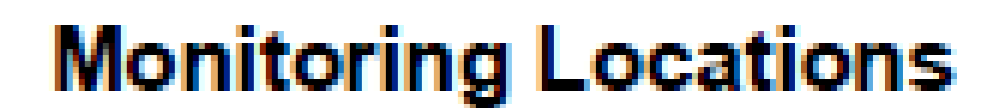
LEGEND:


- DOMESTIC/INDUSTRIAL WATER STATION
- DUST SUPPRESSION WATER STATION
- DOMESTIC/INDUSTRIAL WATER STATION AND DUST SUPPRESSION WATER STATION

# Approved Water Stations - Steensby






# 1 Baffinland



-  Aquatic
-  Regulated
-  Verification

See larger poster



-  Aquatic
-  Regulated
-  Verification

See larger poster

# Water Licence Monitoring Team

- Site Environment Team
  - 7 Inuit technician and specialists
  - 4 QIA environmental monitors



# Freshwater Monitoring Programs

- Aquatic Effects Monitoring Program (AEMP)
  - Surveillance Network Program (SNP)
  - Environmental Effects Monitoring (EEM)
  - Core Receiving Environment Monitoring Program (CREMP)
  - Lake Sedimentation Monitoring Program
  - Dustfall Monitoring Program
- Hydrometric Monitoring
- Groundwater Monitoring
- Tote Road Monitoring Program (TRMP)

# Aquatic Effects Monitoring Program (AEMP)

- Monitoring freshwater lakes and streams in the receiving environment
  - Water samples
  - Studies on sediment, benthic invertebrates and fish
- Data is compared geographically, temporally, and against benchmarks
- Methods: water sampling, electrofishing, gill nets, sediment traps



# Aquatic Effects Monitoring Program - Lakes

- Lake sampling includes:
  - Field parameter depth profile
  - Water quality samples at different depths
  - Secchi disk measurements



# Aquatic Effects Monitoring Program - Lakes

- Winter sampling at lakes under the ice at various depths



# Aquatic Effects Monitoring Program - Streams

- Stream sampling includes sites near and far from the mine site



# Sediment Sampling

- Understand rates of sediment deposition from the Project
- Collect and deploy sample containers on the lake bed near the mine
- Collect sediment core samples



# Surveillance Network Program (SNP)

- Surface water monitoring in streams adjacent to site
- Water quality monitoring from pond discharges



# Community Engagement

- Engagement carried out by Inuit-led team
- Communication about Mary River Project in Inuktitut and English, following and respecting Inuit oral traditions
- Ongoing engagement regarding on the Mary River Project
- Inuit knowledge



# Technical Submissions

# Key Themes – Management Plans



# Steensby Component



# Erosion and Sediment Control



# Inuit Knowledge and Inuit Water Rights



# Conclusion

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THANK YOU

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