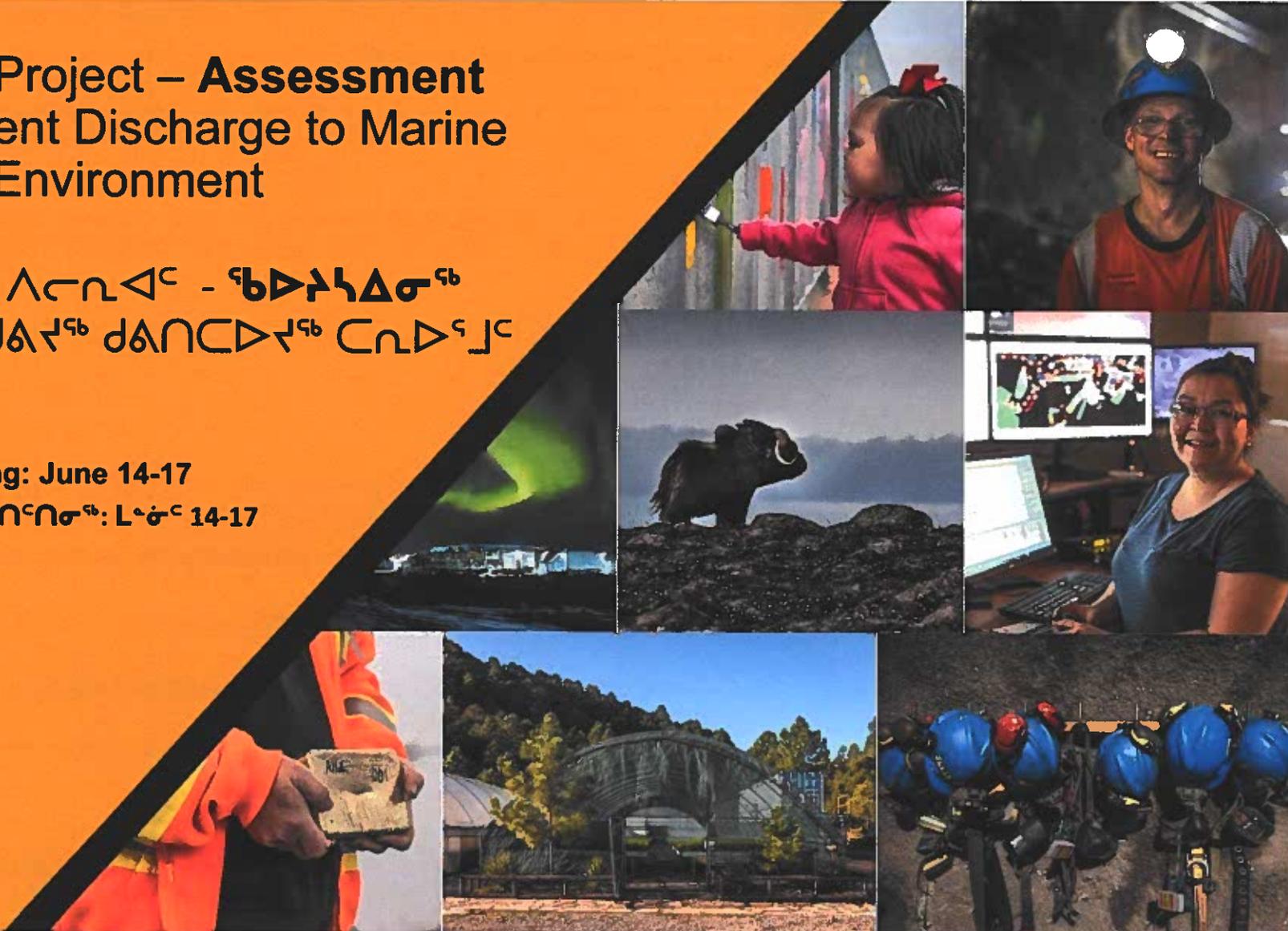


Meliadine Project – Assessment Saline Effluent Discharge to Marine Environment

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Final Hearing: June 14-17

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MARINE ENVIRONMENT / ᑕᓄᐅᑦᑦᑦᑕᐅᑦ ᐃᑦᑎᑦᑕ



- BASELINE SAMPLING AREA - 2011
- BASELINE SAMPLING AREA - 2018
- MARINE LOCAL STUDY AREA - 2018
- DISCHARGE 1 - POTENTIAL DISCHARGE LOCATION INTO MELVIN BAY (OFF ITIVIA FUEL STORAGE FACILITY)
- DISCHARGE 2 - POTENTIAL DISCHARGE LOCATION INTO MELVIN BAY (OFF BYPASS ROAD)
- DISCHARGE 3 - POTENTIAL DISCHARGE LOCATION INTO HUDSON BAY (OFF CHAR RIVER BRIDGE)
- DISCHARGE 4 - INTO PRAIRIE BAY (OFF JOHNSTON COVE)
- DISCHARGE 5 - INTO PRAIRIE BAY (OFF MELIADINE RIVER)
- PROPOSED DIFFUSER LOCATION
- APPROVED DIFFUSER LOCATION (CURRENT)
- RANKIN INLET SEWAGE OUTFALL PIPE (APPROXIMATE LOCATION)

MARINE MONITORING OCEAN DISCHARGE MONITORING PLAN

MDMER

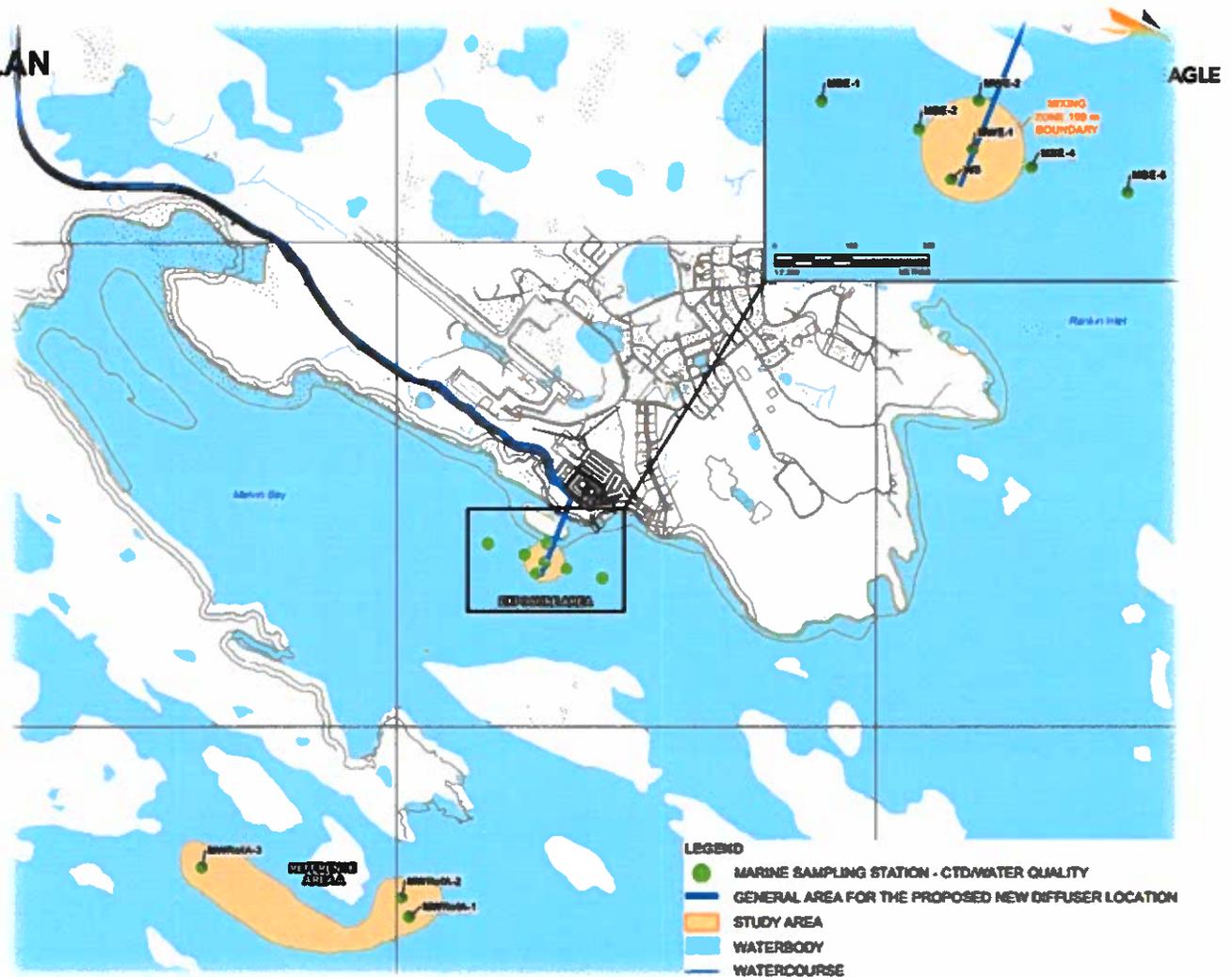
- Once per week
- Final Discharge Pipe (end of pipe)

Effluent Characterization

- Four times per year, at least one month a part, during discharge
- Final Discharge Pipe (end of pipe)

Water Quality

- Four times per year, once a month during discharge
- Receiving Environment
- Exposure Area
- Reference Area A





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Accidents and Malfunctions

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TEMMP MONITORING / TEMMP ᖃᐅᐱᕐᕐᕐᕐᕐ

CARIBOU MONITORING



10 km

Level 1

- On-going monitoring throughout the year using collaring program data
- **Trigger:** 50+ caribou within 10km of Meliadine
- **Monitoring:** Ground survey every 2 days and review of satellite collar information 2x/week
- **Mitigation:** Daily site-wide warnings (including KIA, HTO, GN)
- **Duration:** 5 days or until Level 2 is reached (caribou within 5km of Meliadine)

Level 2

- **Trigger:** Less than 50 caribou are within 5km of Meliadine
- **Monitoring:** Ground survey every 2 days and review of satellite collar information 2x/week
- **Mitigation:** daily site-wide warnings about caribou. Environmental Supervisor may add more measures, i.e. stopping work, depending on caribou distribution/proximity, etc.
- **Duration:** 10 days or when Level 3 starts or when caribou pass outside 5 km

5 km

Level 3

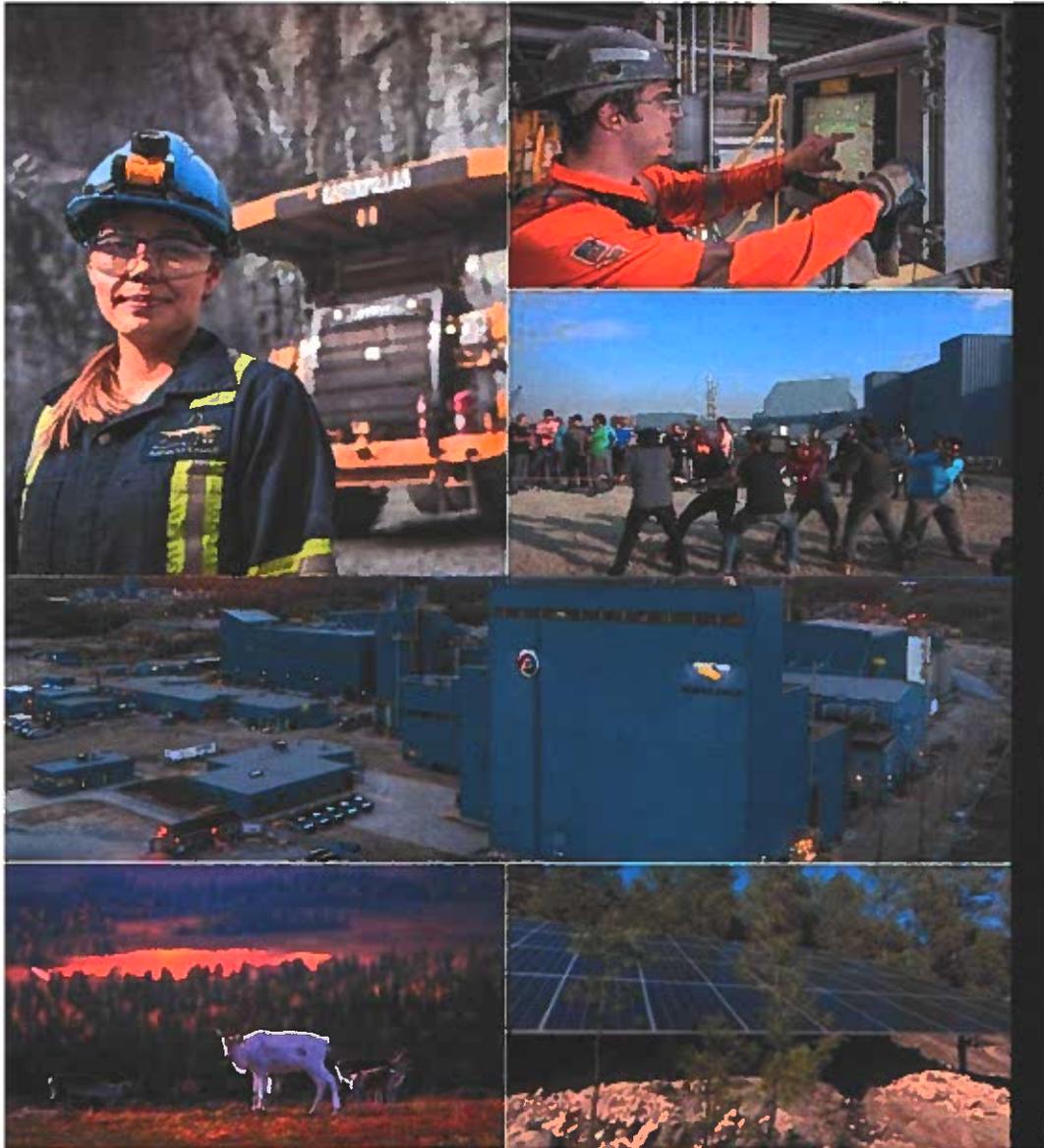
- **Trigger:** 50+ caribou within 5km of Meliadine
- **Monitoring:** ground survey 3x/day and review of satellite collar information min. 2x/week
- **Mitigation:** daily site-wide warnings (3x/day) about caribou. Work suspension protocol begins.
- **Duration:** until caribou pass outside 5 km



TERRESTRIAL ADVISORY GROUP / ᓄᓇᓂᓄᓂᓂ ᓂᓄᓂᓄᓂ ᓄᓂᓄᓂᓄᓂ



- Establishment of Meliadine Terrestrial Advisory Group
 - IQ is a guiding principle
 - Benefit the monitoring programs, particularly caribou
- Terms of Reference
 - Draft circulated to interested parties February 19, 2021
 - Comments received from two parties
 - All comments are needed for consideration before issued
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Ma'tna; Thank You; ᑦᑯᑦᑲᑦᑲᑦ

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