

Meliadine Extension ᑕᑭᑦᑲᑦᑲᑦ ᐃᑲᑭᑦᑲᑦᑲᑦ

Nunavut Water Board Community Session

October 12, 2023
Rankin Inlet, NU

ᐃᑭᑭᑦᑲᑦ 12, 2023
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PRESENTATION SUMMARY

- Meliadine Extension Description
- Public Engagement and Community Response Update
- Technical Comments
 - Summary
 - Meliadine Lake / AEMP
- Conclusion

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 - ᑕᑭᑦᐱᑦᑦᑦ/AEMP
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- **Project Certificate**

- **2015:** issuance of Project Certificate No.006
- **2018:** Project Certificate Amendment 001
- **2022:** Project Certificate Amendment 002
- **2023:** Project Certificate Amendment 003 in progress

- **Water Licence**

- **2016:** issuance of Water Licence 2AM-MEL1631
- **2021:** Water Licence Amendment

- **ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ**

- **2015:** ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ 006
- **2018:** ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ 001
- **2022:** ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ 002
- **2023:** ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ 003

- **ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦ**

- **2016:** ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ 2AM-MEL1631
- **2021:** ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ

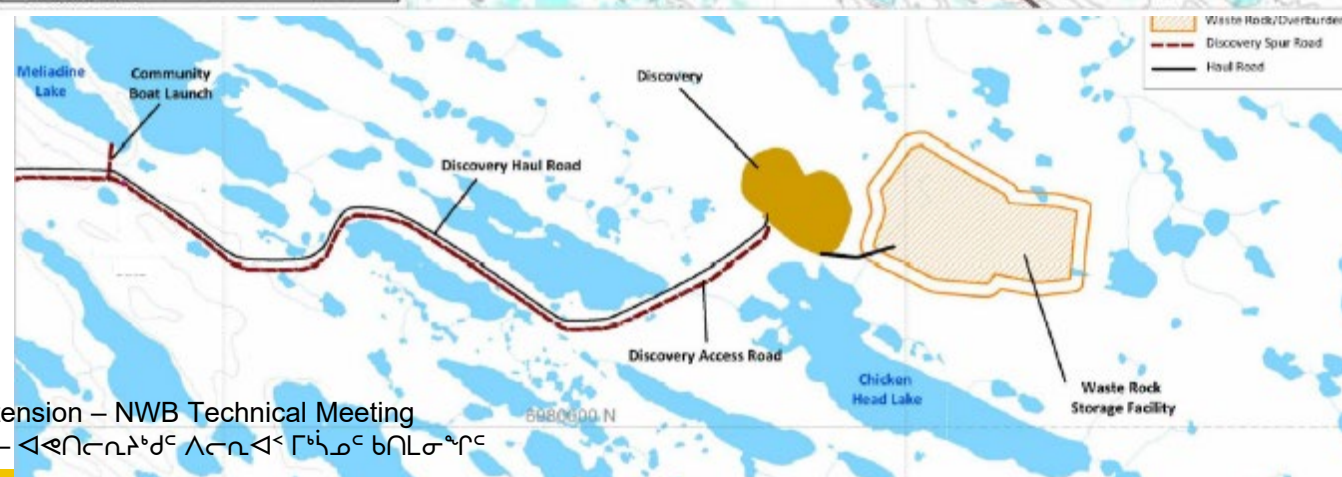
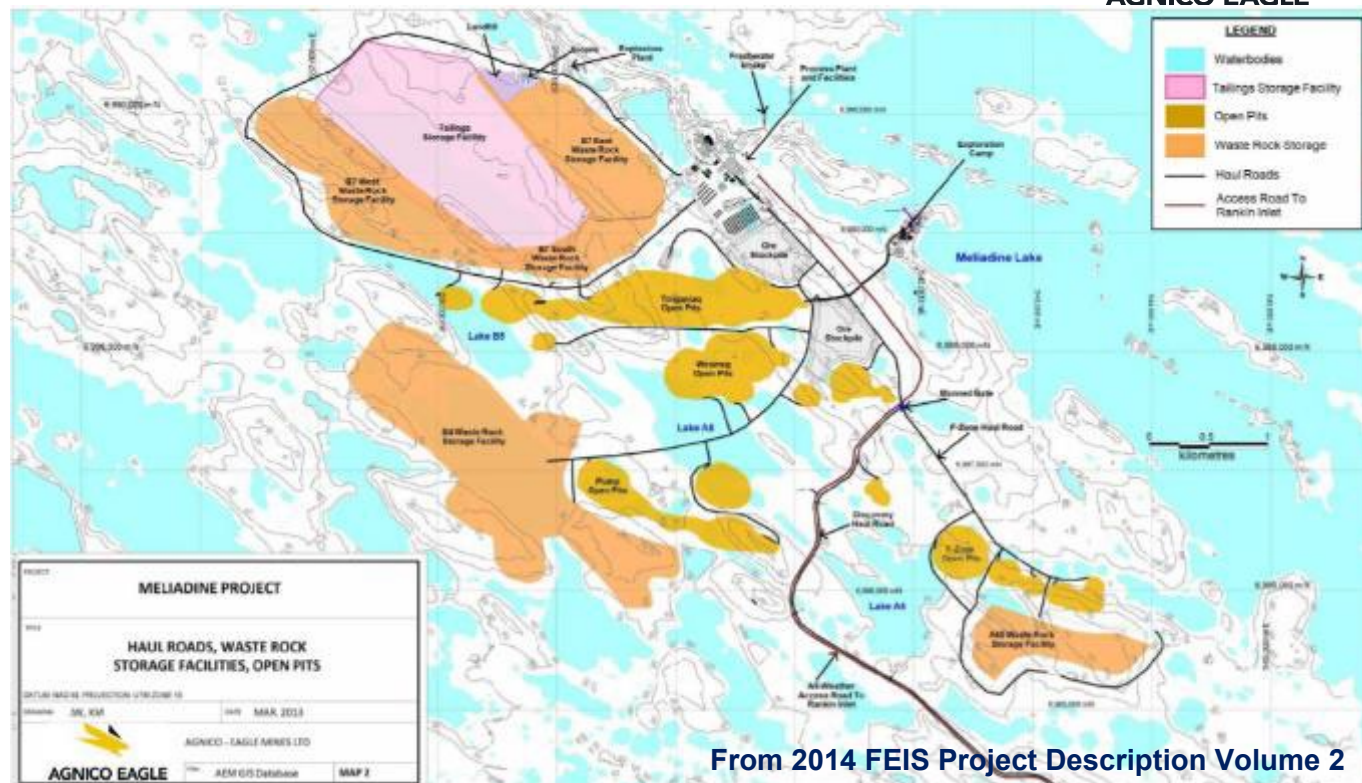
2014 FEIS HISTORY

- 2014 assessment included:
 - Tiriganiaq deposit using open pit and underground mining methods
 - Pump, F Zone, Wesmeg, and Discovery deposits using open pit methods
 - All-weather access road
 - Discovery road
 - Ore processing (8,500 tpd)
- 2014 ᑭᓐᓂᕈᔪᕐᓇᕋᖅ ᐃᓚᐅᒻᗴᖅ:
 - በቢሌት፡፡፡ ለርሱ ᐊንጨ፣ ንበ፣ ወደ፣ ትልልካ፣ ፋይና፣ ወደ፣ ለውስጥ ምሽግ ማዘጋጀት ᐊንጨ፣
 - Pump-፣ F Zone-፣ Wesmeg-፣ ፋይና፣ Discovery-፣ ለርሱ ᐊንጨ፣ ንበ፣ ወደ፣ ትልልካ፣ ፋይና፣ ወደ፣ ለውስጥ ምሽግ ማዘጋጀት
 - የምግብ መጓጓዣ ማመረቻ
 - በኮንታይነር (Discovery) ማመረቻ
 - አለማወቅ ለተጠቀሙ (8,500 tpd)

2014 FEIS-Γ^c Λ^γϛ^ϛϛ^ϛϛ^c



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WATER LICENCE HISTORY

Approved Water Licence

- Only open pit and underground mining of the Tiriganiaq deposit
- Operations to 2027 (plus initial closure to 2031)

2020 Water Licence Amendment

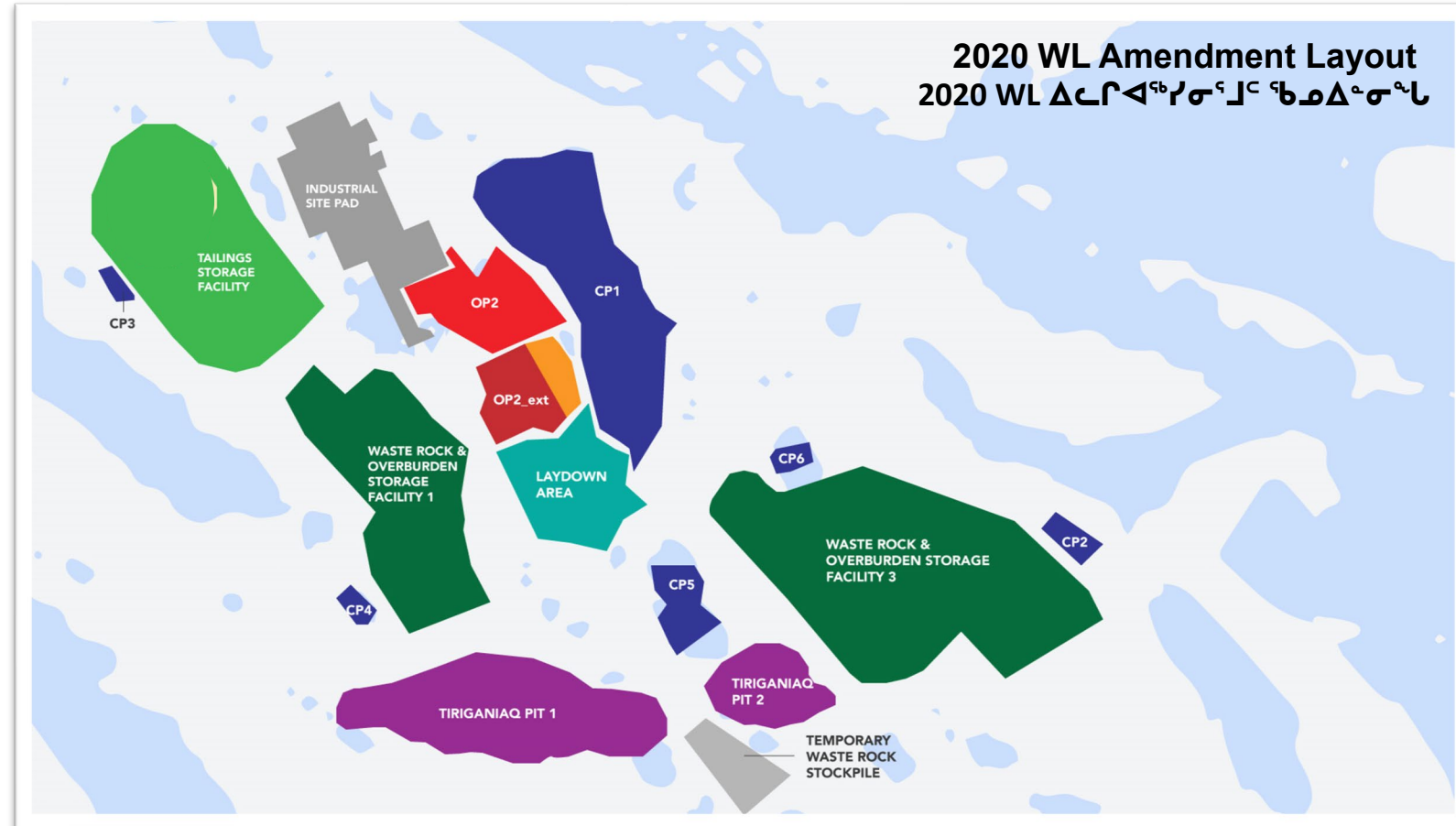
- Construction of access roads
- Additional laydown areas
- Updated waste management strategy

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- ᐅᓄᐃᓐᐱᓐᐱᓐ ᐱᓐᐱᓐ ᓄᓇᐅᓐ ᐃᓕᐱᓐᐱᓐ ᐅᓄᓐᐱᓐᐱᓐᐱᓐ ᐱᓐᐱᓐ
- ᐱᓐᐱᓐ 2027-ᓐᐱᓐ (ᐅᓄᐃᓐᐱᓐᐱᓐᐱᓐᐱᓐ 2031-ᓐᐱᓐ)

2020 ᐃᓐᐱᓐ ᐱᓐᐱᓐᐱᓐ ᐱᓐᐱᓐᐱᓐᐱᓐ

- ᐅᓄᓐᐱᓐᐱᓐ ᐱᓐᐱᓐᐱᓐᐱᓐ;
- ᐱᓐᐱᓐ ᐃᓐᐱᓐᐱᓐᐱᓐᐱᓐ;
- ᐅᓐᐱᓐᐱᓐᐱᓐᐱᓐ ᐃᓐᐱᓐ ᐱᓐᐱᓐᐱᓐᐱᓐ ᓄᓇᓐᐱᓐ



- Continue to mine open pit and underground at Tiriganiaq
- Initiate open pit mining at previously assessed and approved Pump, F Zone, Wesmeg, and Discovery deposits
- Include underground mining of Pump, F Zone, and Discovery deposits
- Extend existing underground mining of Tiriganiaq-Wolf
- Extend the mine of life to 2043

- [illegible]

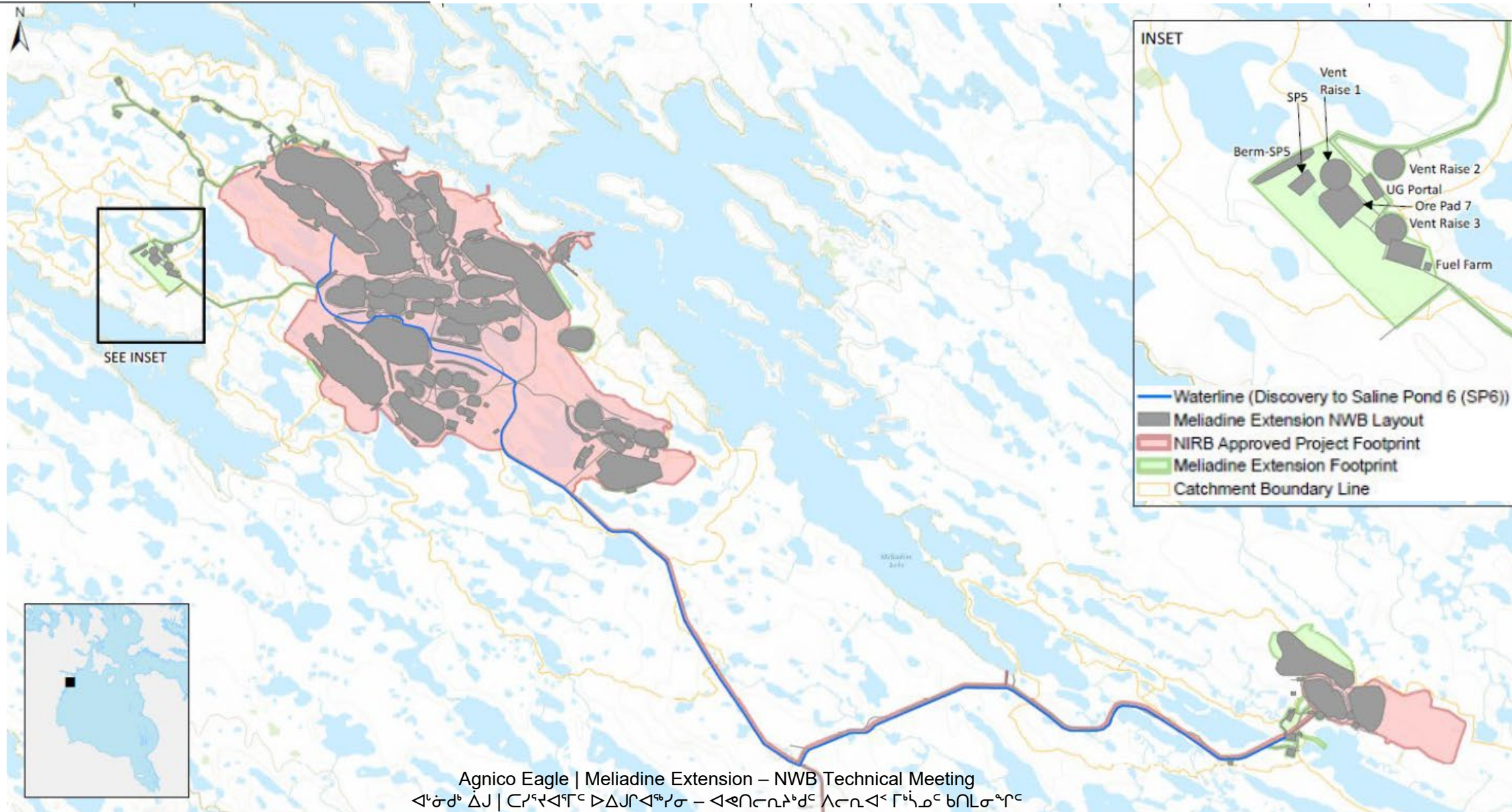
MELIADINE EXTENSION SEQUENCING

$C^{\epsilon} \nabla^{\epsilon} \Gamma^C \triangleright \Delta J \nabla^{\epsilon b} \rho^{\epsilon} J^C \wedge \epsilon^c \nabla \triangleright \sigma^{\epsilon} \bar{\iota}$

[illegible]

[illegible]

AGNICO EAGLE

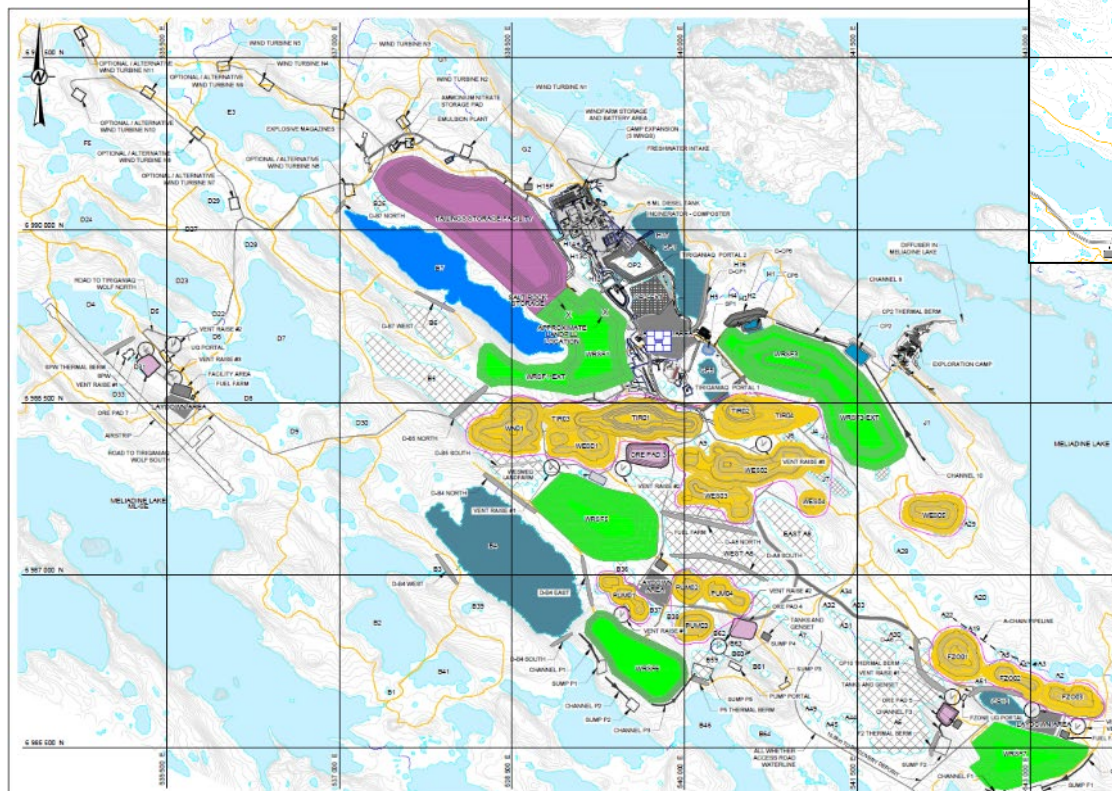


MELIADINE EXTENSION – REFINED SITE LAYOUT

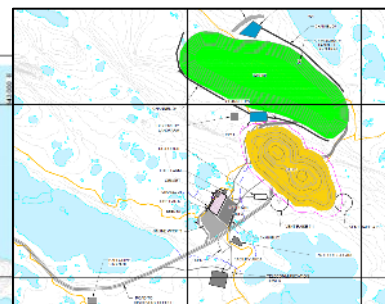
ርኅረፍገ ልጋረፍሚ - ልጋረፍሚ ለጋረፍሚ ለጋረፍሚ



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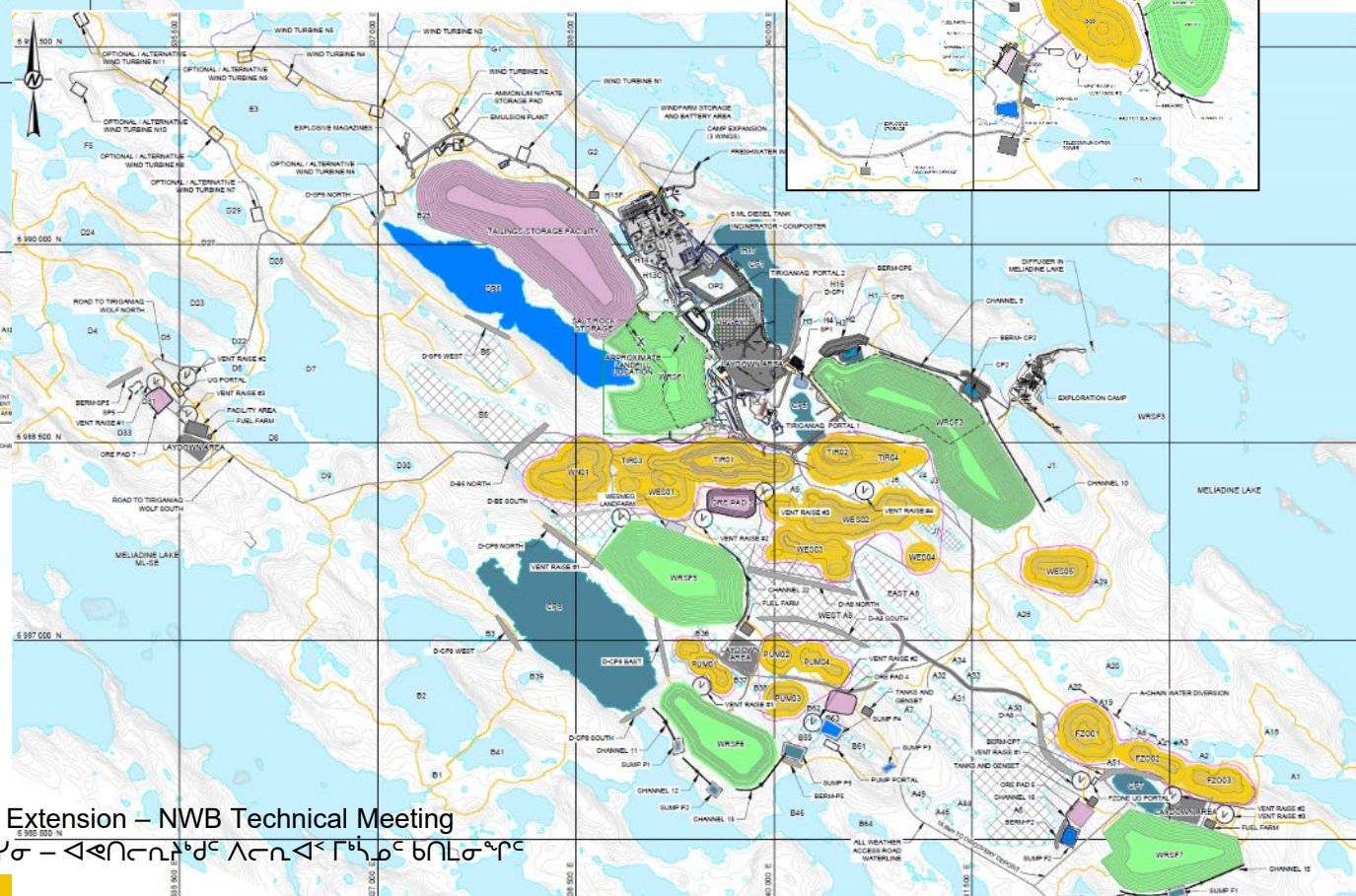
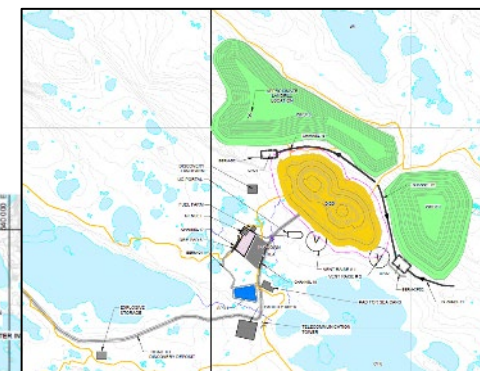
NIRB – 2022 FEIS Addendum
ᐃᑦᓂᓕᓴᓯᐅᐣ^bᐅᐣ^c – 2022 FEIS-ᐱᐣ ᓂᓂᐣᐣᐣ^{ᑭᑭᑭᑭ}
ᐃᑦᓕᓕᐅᓂᒪᒪᐣ^{ᑭᑭ}



NWB – Water Licence Amendment

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Agnico Eagle | Meliadine Extension – NWB Technical Meeting

- Evaluating locations for in-pit tailings and waste rock deposition
- Benefits
 - Optimize the site footprint
 - Within areas that has previously been impacted
 - Reduces the surface area impacted

C¹ r¹ d¹ Γ^c ▷ Δ J^r d^{cb} γ^{cb} - d^{cb} C ▷ r^a e^{cb} γ^{cb}
 f e ▷^c Δ J d^c Δ C ▷^{cb} γ^{cb} Δ σ^c J^c

- የጥገና ምርመራ ለመጀመሪያው ምዕራፍ ለሚከተሉት የጥያቄዎች መረጃ ለማግኘት ለሚችሉት ምርመራዎች ምረቃ ማረጋገጫ ማስገባት ይገባል፡፡
- ልዩነት
 - ለመጀመሪያው ምዕራፍ ለሚከተሉት የጥያቄዎች መረጃ ለማግኘት ለሚችሉት ምርመራዎች ምረቃ ማረጋገጫ ማስገባት ይገባል፡፡
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Public Engagement and Community Response Update

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- 12 focus group meetings
- 12 meetings
- 4 public sessions at the tent at kilometer 15
- 5 hybrid in-person-virtual public sessions
- Public Open houses in
 - 3 Rankin Inlet
 - 1 Coral Harbour
 - 1 Whale Cove
- 6 Site Visits



- [illegible]



- Ongoing support for community programs, training opportunities, and educational initiatives
- Inclusion of Traditional Place Names into our projects guided by the Kivalliq Elders Advisory Committee
- Minimizing mine footprint
- Continuing to comply with monitoring and management plans
- Adjusted plans where required for Meliadine Extension

ငါတို့အတွက် အသုံးပြုဆောင်ရွက်ပေးပါ။

- [illegible]

Developed a Kivalliq Elders Advisory Committee

- 21 Elders from Baker Lake, Chesterfield Inlet, Rankin Inlet, Whale Cove, and Arviat

Itivia / Tasirjuaq Cabin Owner Committee

- Topics discussed in the past years:
 - Meliadine Extension
 - Cabin identification on maps
 - Road to Discovery information sharing
 - Discovery Road updates



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- 21 $\Delta^a \mathbf{a} \mathbf{b} \mathbf{c} \mathbf{d} \mathbf{e} \mathbf{f} \mathbf{g} \mathbf{h} \mathbf{i} \mathbf{j} \mathbf{k} \mathbf{l} \mathbf{m} \mathbf{n} \mathbf{o} \mathbf{p} \mathbf{q} \mathbf{r} \mathbf{s} \mathbf{t} \mathbf{u} \mathbf{v} \mathbf{w} \mathbf{x} \mathbf{y} \mathbf{z}$,
 $\Delta^b \mathbf{a} \mathbf{b} \mathbf{c} \mathbf{d} \mathbf{e} \mathbf{f} \mathbf{g} \mathbf{h} \mathbf{i} \mathbf{j} \mathbf{k} \mathbf{l} \mathbf{m} \mathbf{n} \mathbf{o} \mathbf{p} \mathbf{q} \mathbf{r} \mathbf{s} \mathbf{t} \mathbf{u} \mathbf{v} \mathbf{w} \mathbf{x} \mathbf{y} \mathbf{z}$,
 $\Delta^c \mathbf{a} \mathbf{b} \mathbf{c} \mathbf{d} \mathbf{e} \mathbf{f} \mathbf{g} \mathbf{h} \mathbf{i} \mathbf{j} \mathbf{k} \mathbf{l} \mathbf{m} \mathbf{n} \mathbf{o} \mathbf{p} \mathbf{q} \mathbf{r} \mathbf{s} \mathbf{t} \mathbf{u} \mathbf{v} \mathbf{w} \mathbf{x} \mathbf{y} \mathbf{z}$,
 $\Delta^d \mathbf{a} \mathbf{b} \mathbf{c} \mathbf{d} \mathbf{e} \mathbf{f} \mathbf{g} \mathbf{h} \mathbf{i} \mathbf{j} \mathbf{k} \mathbf{l} \mathbf{m} \mathbf{n} \mathbf{o} \mathbf{p} \mathbf{q} \mathbf{r} \mathbf{s} \mathbf{t} \mathbf{u} \mathbf{v} \mathbf{w} \mathbf{x} \mathbf{y} \mathbf{z}$

[illegible]

- $\Lambda^{\gamma} \Gamma C \triangleright \Gamma^C \triangleright \text{ክፍል} \triangleright \Gamma^C \triangleleft \sigma J^{\text{ክፍል}} \supset^C \triangleright \rho \triangleright \sigma^C$
 $\Lambda \Gamma \sigma^b$:
 - $C \Gamma^{\text{ክፍል}} \triangleleft \text{ክፍል} \triangleright \Delta J \Gamma \triangleleft \sigma^{\text{ክፍል}}$
 - $\Delta^{\gamma} \supset^{\text{ክፍል}} \triangleleft \text{ክፍል} \sigma^b$ ደጋፊ $\Delta^{\text{ክፍል}} \rho \sigma^{\text{ክፍል}}$
 $\text{ደጋፊ} \sigma^{\text{ክፍል}} \triangleleft \rho^C$
 - $\triangleleft \sigma^{\text{ክፍል}} \rho \cap \text{ክፍል} \supset \rho^C \supset \rho \triangleright L^{\gamma} \Gamma \sigma^b$
 $\supset \sigma \rho^{\text{ክፍል}} C \triangleright \rho \sigma^{\text{ክፍል}}$
 - $\triangleleft \sigma^{\text{ክፍል}} \rho \cap \text{ክፍል} \supset \rho^C$
 $\triangleright \sigma^{\text{ክፍል}} \supset \rho^{\text{ክፍል}} \supset \sigma^{\text{ክፍል}} C \triangleright \Gamma^C$

Water Management Engagement 2023

- Discussions surrounding water quality and the health of Meliadine Lake led to the collaborative idea with the KivIA of a site visit to Meliadine Mine
- Firsthand understanding of how water is managed at site
- Included a tea tasting of Meliadine Lake Water (water intake) and accommodations complex water (treated tap water)
- Overview of water quality and tea properties that affect the colour and clarity of brewed tea



ΔΙΕΥΚΛΙΝΟΜΕΝΟ ΔΕΛΤΙΟ 2023

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Technical Comment Summary

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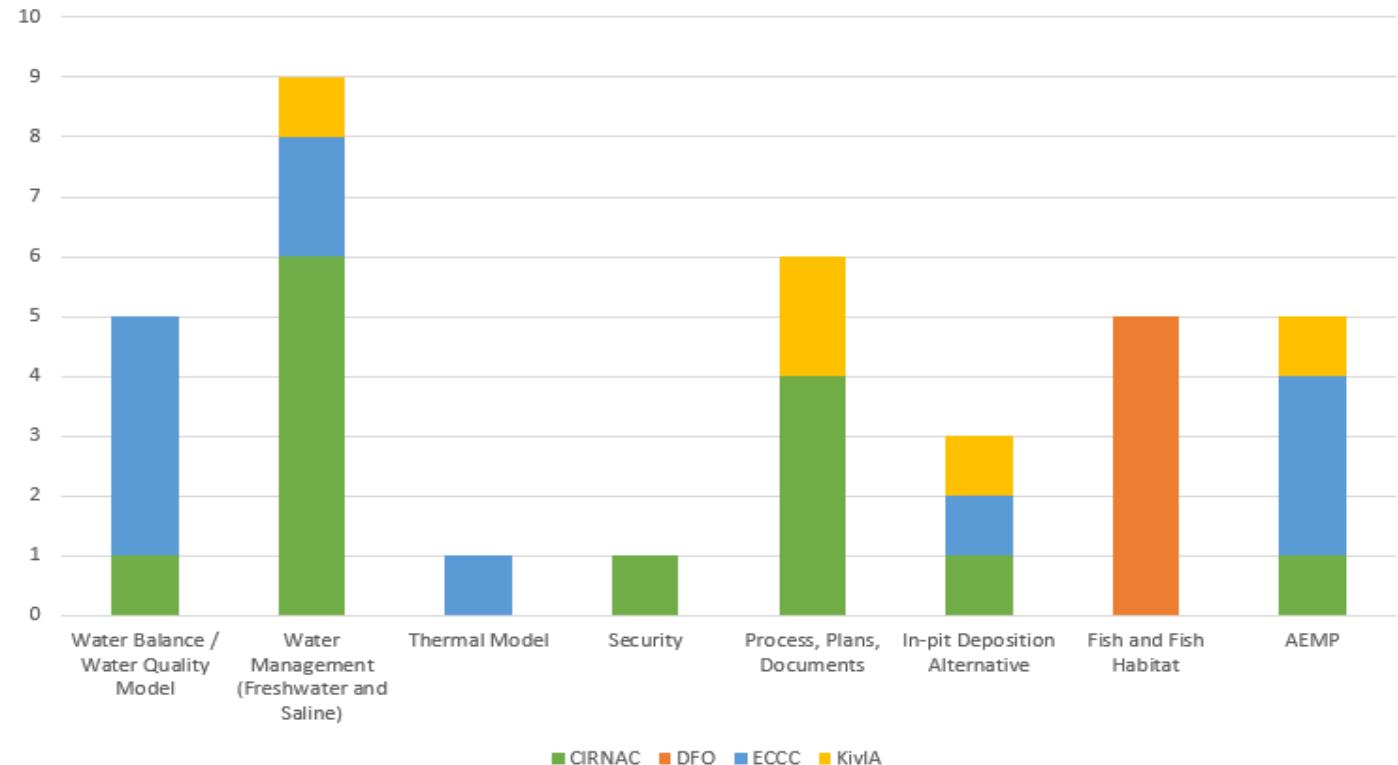


TECHNICAL COMMENT SUMMARY

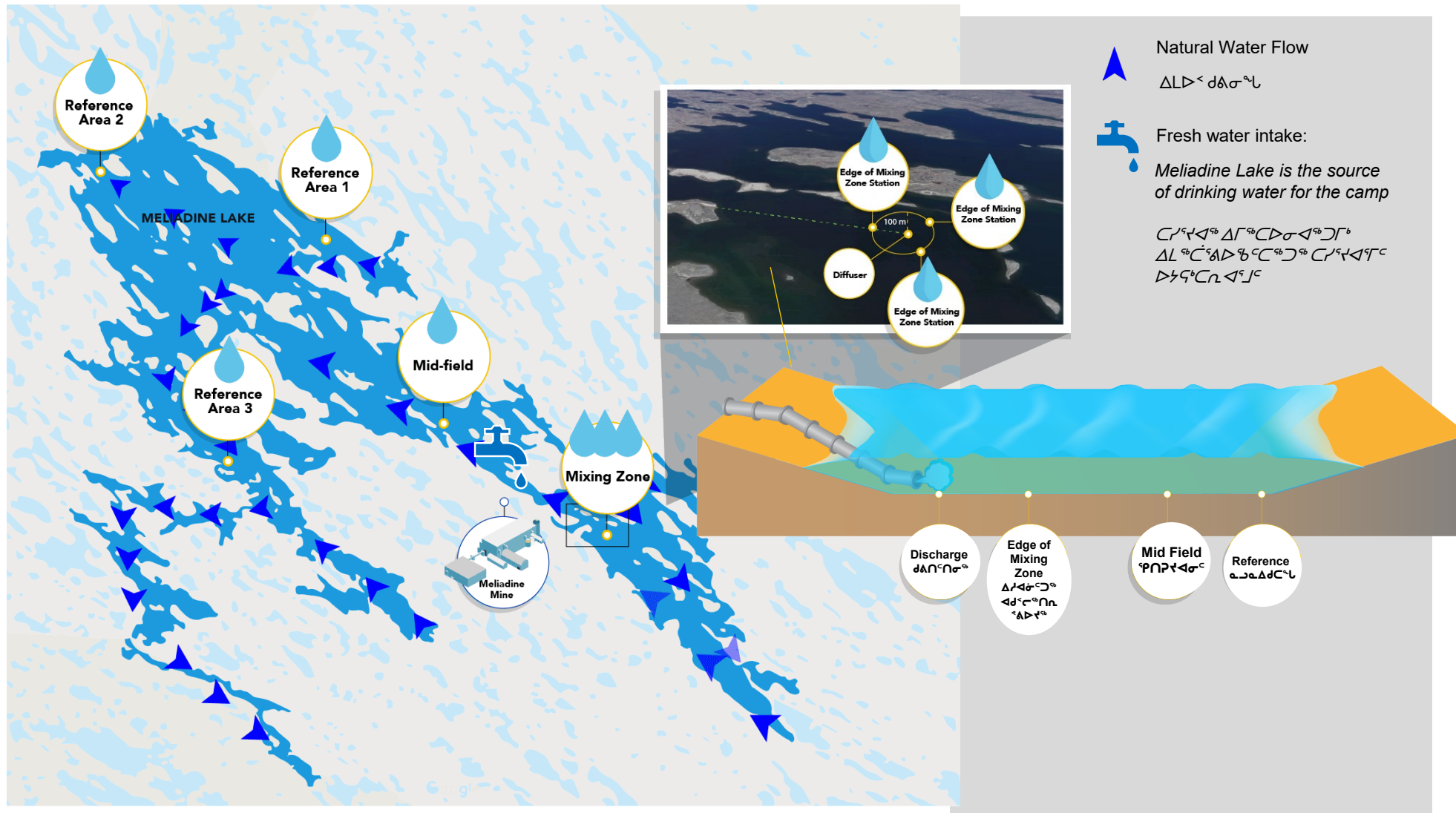
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Resolved through Response to Technical Comments	Resolved based on Current Operations / Annual Reporting	Resolved through Term and Condition, Commitment, NIRB Assessment	Resolved through Existing Conditions of Water Licence for WBWQ Forecast Updates	Resolved through Fisheries Act / Offsetting Plan
KivIA-TRC-04	KivIA-TRC-02	KivIA-TRC-01	KivIA-TRC-05	DFO-TRC-01
CIRNAC-R-03	KivIA-TRC-03	CIRNAC-R-01	CIRNAC-R-04	DFO-TRC-02
CIRNAC-R-05	CIRNAC-R-08	CIRNAC-R-02	ECCC-TRC-03	DFO-TRC-03
CIRNAC-R-06	CIRNAC-R-13		ECCC-TRC-09	
CIRNAC-R-07	ECCC-TRC-04			
CIRNAC-R-09				
CIRNAC-R-10				
CIRNAC-R-11				
CIRNAC-R-12				
CIRNAC-R-14				
ECCC-TRC-01				
ECCC-TRC-02				
ECCC-TRC-05				
ECCC-TRC-06				
ECCC-TRC-07				
ECCC-TRC-08				
ECCC-TRC-10				
ECCC-TRC-11				
DFO-TRC-04				
DFO-TRC-05				

Category	ECCC (Blue)	DFO (Orange)	KivIA (Yellow)	CIRNAC (Green)
Water Balance / Water Quality Model	4	0	0	1
Water Management (Freshwater and Aquatic Ecosystems)	2	0	1	6
Thermal Model	1	0	0	0
Security	0	0	0	1
Process, Plans, and Documents	0	0	2	4



TECHNICAL COMMENT SUMMARY – MELIADINE LAKE MONITORING AREAS

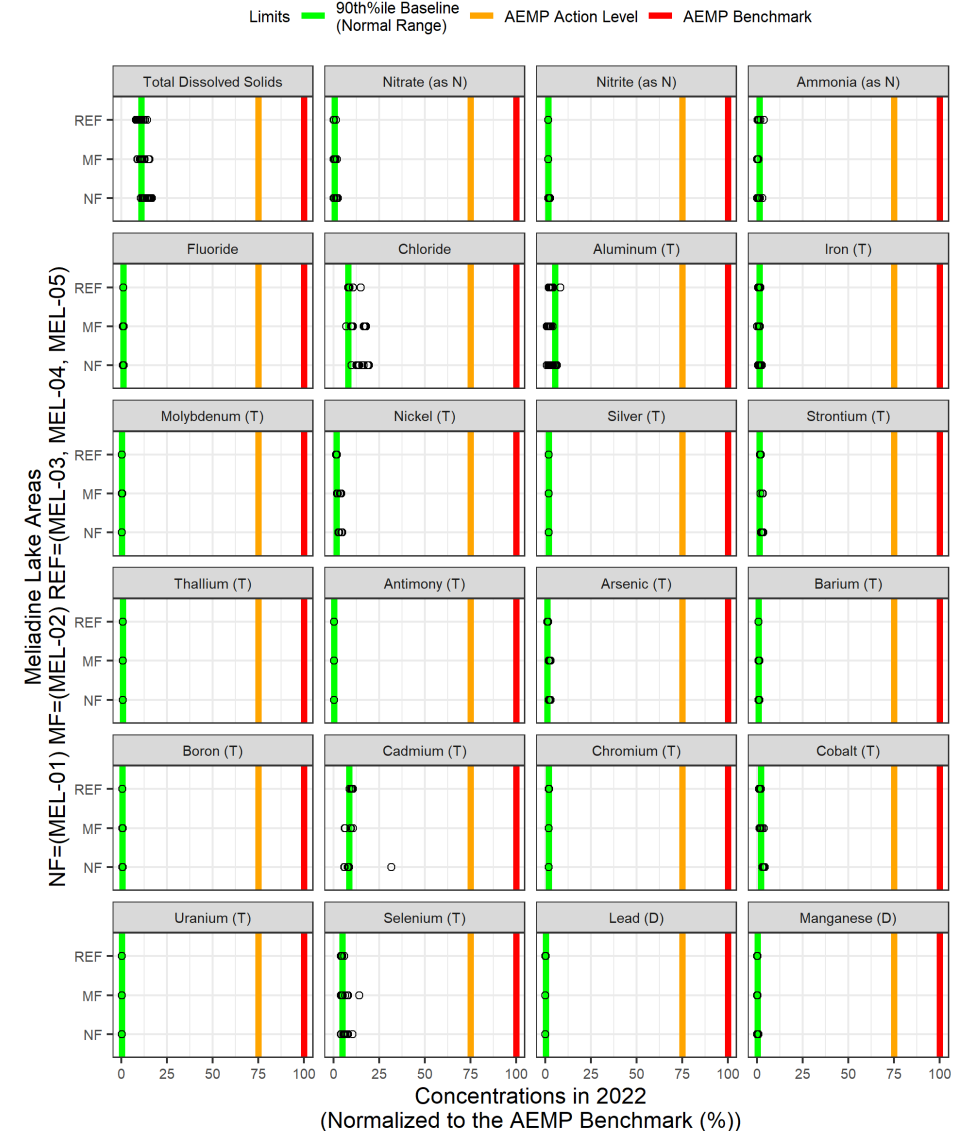


[illegible]

-
- Meliadine Lake - Near Field**
- Criteria** AEMP Benchmark AEMP Action Level Normal Range
- Phase** Baseline | Control Pre-construction Construction Operations
- Mixing Model** FEIS (2014) WLA (2020) FEIS (2022)
- Total Dissolved Solids (Calculated) (mg/L)**
- Year**
- | Year | Baseline Control (mg/L) | Pre-construction (mg/L) | Construction (mg/L) | Operations (mg/L) | FEIS (2014) (mg/L) | WLA (2020) (mg/L) | FEIS (2022) (mg/L) |
|------|---------------------------|-------------------------|---------------------|-------------------|--------------------|-------------------|--------------------|
| 2008 | 25 | | | | 25 | | 25 |
| 2010 | 25 | | | | 25 | | 25 |
| 2012 | 25 | | | | 25 | | 25 |
| 2014 | 25 | | | | 25 | | 25 |
| 2016 | 25 | 25 | | | 25 | | 25 |
| 2018 | 25 | 25 | 25 | | 25 | | 25 |
| 2020 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2022 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2024 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2026 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2028 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2030 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2032 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2034 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2036 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2038 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2040 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2042 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2044 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2046 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2048 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 2050 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

TECHNICAL COMMENT SUMMARY – WATER QUALITY IN MELIADINE LAKE

- Concentrations of parameters with aquatic life and human health guidelines are low throughout Meliadine Lake, including in samples collected at 100 m to 250 from the discharge location.
- ბონიტრატის და სხვა პარამეტრების კონცენტრაციები წყლის დამაბინძურებელი ნივთიერებების დონეზე დაბალია, რაც ადასტურებს, რომ წყლის ხარისხი ადამიანებისა და წყლის ბუნებისათვის საფრთხის გარეშეა.



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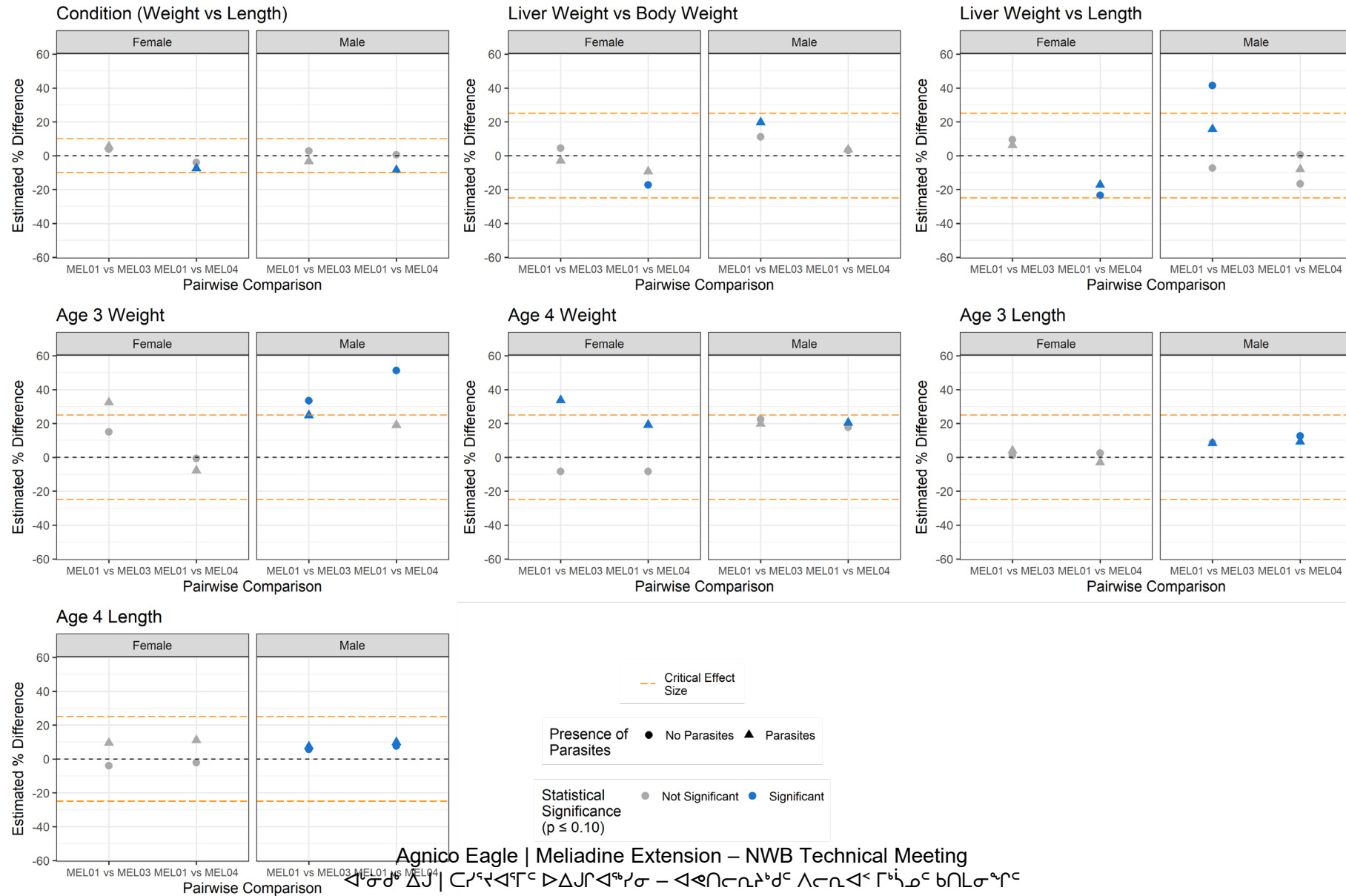
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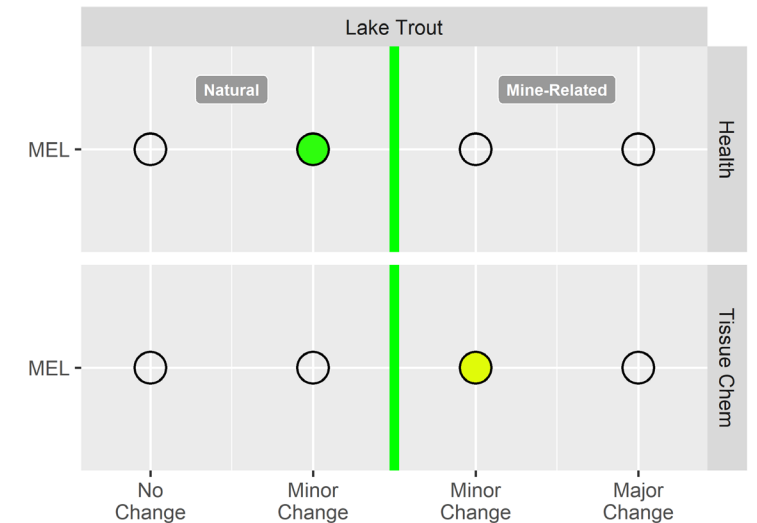
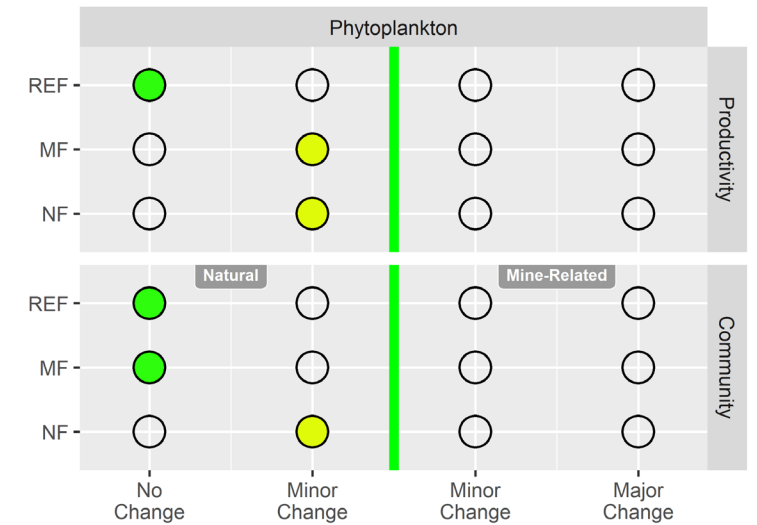
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- Figure 1 displays five panels showing the Trophic Status Index (TSI) for five different locations (MEL-01, MEL-02, MEL-03, MEL-04, and MEL-05) from 2013 to 2022. The y-axis represents the TSI index (0-50), and the x-axis represents the year (20xx). The panels are organized into two rows: MEL-01, MEL-02, and MEL-03 in the top row; MEL-04 and MEL-05 in the bottom row. Each panel shows data for three TSI types: Chlorophyll-a (green circles), Secchi (red circles), and Total Phosphorus (blue circles). The panels are divided into three horizontal sections representing trophic levels: Eutrophic (top), Mesotrophic (middle), and Oligotrophic (bottom). Horizontal dashed lines indicate the boundaries between these levels. Data points are plotted with error bars. The legend indicates that green circles represent Chlorophyll-a, red circles represent Secchi, and blue circles represent Total Phosphorus.

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Conclusions

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Matna
Thank you

Trading Symbol:
AEM on TSX & NYSE

Investor Relations:
416-847-8665
info@agnicoeagle.com

agnicoeagle.com



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