

ρ^μγ^νΓ^α_β ρ^ρρ^α_βΓ^γ_δ < Δdρ^εγ^ε_δ
 Δρ^μλ^σ ▷ ρ^αΓ^α_βΓ^ε_{σ^α_β}

Strategic Environmental Assessment in Baffin Bay and Davis Strait

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ፍቅር ለሰጡት ሁሉም ጥሪዎች ምስጋና ያቀርባል፡፡ 19-28, 2019

FINAL PUBLIC ENGAGEMENT SESSIONS

NUNAVUT IMPACT REVIEW BOARD

QIKIQTANI COMMUNITIES, NOVEMBER 19-28, 2019



ᐱᑕᐱᓪᓴᐱᐃᑦ ᐱᑙᐱᑕᐱᑦᓴᓴᑦ
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SEA Referral to the NIRB

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- ᑕᐱᐱᓴᑦᑲᐱᐱᑦ ᑕᐱᑦᐱᑦᓴᑦ ᐃᐃᐃᑦ
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- NIRB to draft and coordinate a Strategic Environmental Assessment in Baffin Bay and Davis Strait
- To rely on both Inuit Qaujimajatuqangit and scientific knowledge

ΛCnΔ^qJKL^c

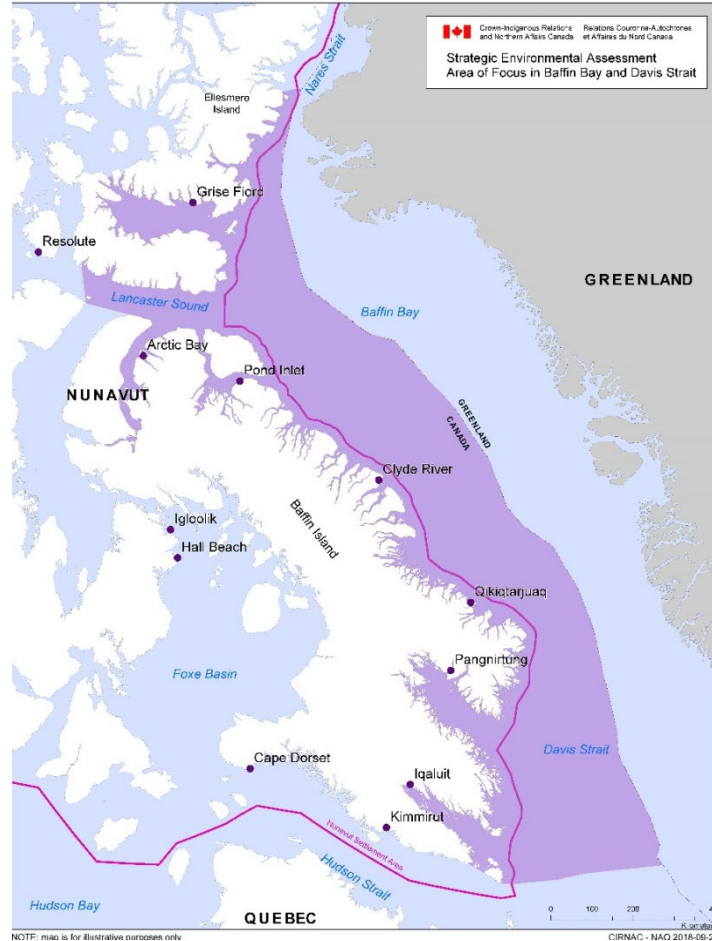
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Objectives

- Background information
- Potential challenges
- Possible oil and gas development scenarios
- Potential impacts and benefits
- Identify mitigation measures
- Develop Final Report and Recommendations
- Parties next steps

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Geographic Areas



Հոգի

- [illegible]

Roles

- NIRB Board
 - Makes all recommendations and guides SEA
- NIRB Staff
 - Technical advice and engagement
- NIRB External Independent Consultant
 - Literature review
 - Develop oil and gas scenarios
- Working Group (NIRB, NTI, QIA, GN, CIRNAC)

ΛCnZC

- [illegible]

Parties

- NIRB
- Working group (NIRB, NTI, QIA, GN, CIRNAC)
- Communities
- Non-government organizations
- Industry
- Other Government departments not directly involved in the Working Group
- Academia

$$\begin{array}{l} \Delta_{\sigma} \dot{\sigma}^b \\ \Delta_{\sigma} \triangleright \sigma^b \end{array}$$

- [illegible]

Public Engagement

- Informed by communities
- Highlighting how community input informed assessment
- Ever evolving
- Visuals
- Evening sessions
- Afternoon open house
- Co-op/Northern Tables
- Radio
- School Visits
- Visits to organizations
- Hard copies of information
- Brochures
- Interpretation and translations
- Early and varied notification

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Information Prepared Specifically to Support the SEA

- [illegible]

- Hypothetical Development Scenarios
- Environmental Setting and Potential Effects
- Inuit Qaujimajatuqangit Report
- Food Security Report
- Public submissions
- Recommended reports

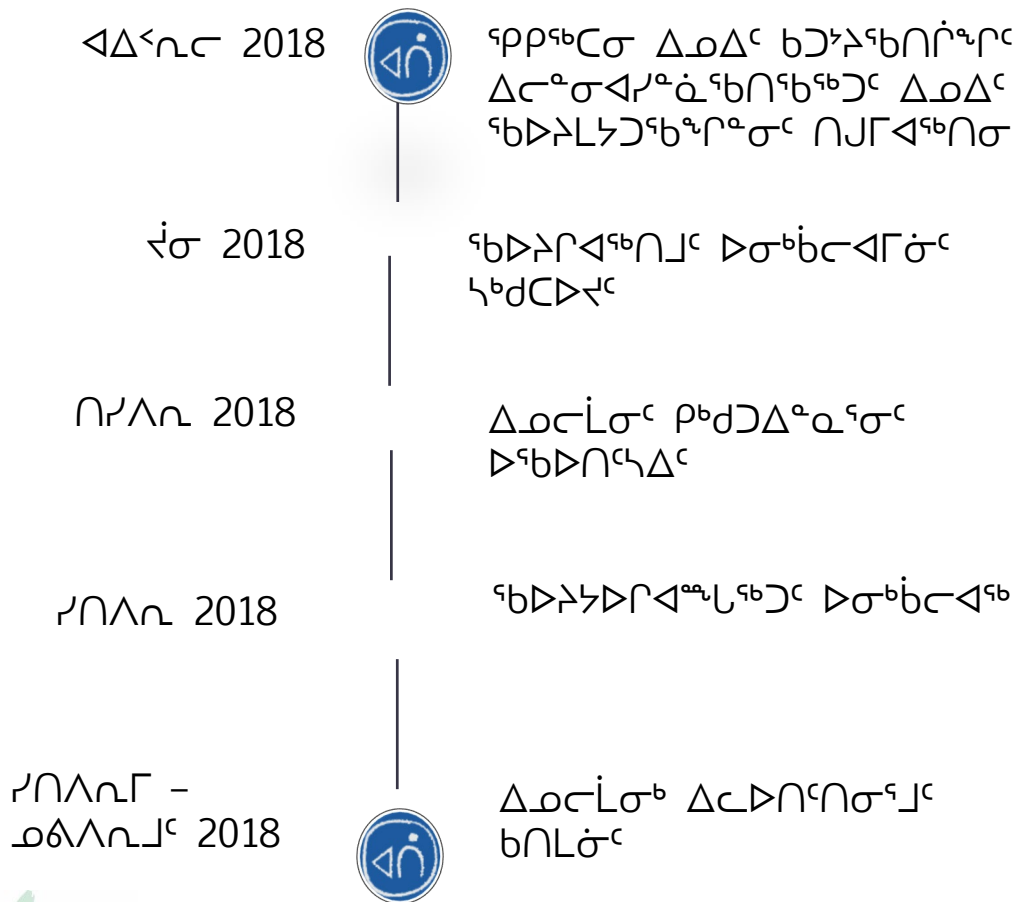
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Phase 1: Issues Scope

ጥቅምት 2017	ጊዴታዊ ጥናታዊ ምርመራ
ጥቅምት - ሚያ 2017	ፈጠራዊ ልማት ምርመራ
ጥቅምት 2017	ጥናታዊ ምርመራ ምክር ቤቱ ለጥናታዊ ምርመራ
ጥቅምት, ሚያ 2017	ፈጠራዊ ልማት ምርመራ
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February 2017		Government Minister Referral
April – May 2017		Public Engagement Meetings
September 2017		<i>Draft</i> Scope
October, November 2017		Public Scoping Meetings
November 2018		Written Comments
December 2018		<i>Revised Draft</i> Scope
February 2018		Written Comments
March 2018		Final Scope

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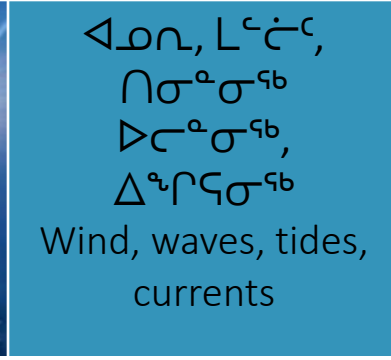


Phase 2: Analyze Potential Development Scenarios



Phase 3: Final SEA Report



[illegible]

The first step in the process of identifying the best person for the job is to determine what the organization needs. This involves understanding the current state of the organization, its goals, and the challenges it faces. Once the organization's needs are clear, the next step is to identify potential candidates. This can be done through various methods, such as reviewing resumes, conducting interviews, or reaching out to industry contacts. The third step is to evaluate the candidates against the organization's needs. This involves comparing their skills, experience, and qualifications to the requirements of the position. Finally, the organization must select the best candidate for the job.

A photograph showing a narwhal's tusk protruding from a hole in a frozen body of water. The tusk is long, dark, and slightly curved. The surrounding landscape is a vast, flat, snow-covered plain under a clear blue sky. In the distance, a range of rugged, snow-capped mountains is visible.

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ገርሚስገሚስ
Climate and
weather



A photograph of a bird of prey, possibly a Red-tailed Hawk, in flight against a clear blue sky. The bird is shown from a side profile, with its wings spread wide, revealing the underside of the wings which are light-colored with dark, barred patterns. The tail is also visible, showing similar dark barring. The bird's head is turned slightly towards the viewer, and its sharp beak is pointed forward. The overall image is in color and has a slightly grainy texture.



A photograph showing a wide, rocky beach in the foreground, covered with grey and brown stones and some low-lying vegetation. In the background, three large, flat-topped rock formations (sea stacks or mesas) are visible in the ocean under a cloudy sky. The formations are dark and have a distinct flat top. The water is calm and greyish-blue.

Coastline and physical environment

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Valued Socio-
 Economic
 Components



Δορυς ε'ε'ε'ε'ε'
 Inuit harvesting
 activities



Δορυς ε'ε'ε'ε'ε'
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 Wellbeing and health

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 Community infrastructure
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 business

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 Heritage & Archaeological
 resources



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 Education and training



Hypothetical Development Scenarios and Associated Activities

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Generic and common set of steps covering a typical oil and gas life cycle. Not all of these steps would necessarily occur for a specific project.

[illegible]

Do not predict what could happen in the future.

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Do not suggest any such activity might occur in the future in Baffin Bay or Davis Strait.

Hypothetical Scenarios

$Cd^{\alpha} \underline{Q}^{\beta} J \Delta L^{b_1} \zeta_b \quad P^c C^{\zeta_b} <^{\zeta_b}:$
 $\zeta_d \rho \Delta \zeta^{b_d} d^c \quad \zeta \rho \sigma^{\zeta} \sigma^{\zeta_b}$

$$\begin{array}{c} C d^a d^{\bar{a}} \bar{C}^b C^c \\ \bar{C}^a \bar{C}^b \end{array} \quad \bar{C}^a C^b : \Delta d^c C^d \bar{C}^e$$
[illegible]

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 လၢ်လၢ်လၢ်လၢ်လၢ်

Scenario A: Seismic Exploration

Scenario B: Exploration Drilling

Scenario C: Field Development and Production Drilling

Scenario D: No offshore oil and gas activity

Other Components

Λb^LLJC▷↯^aQ^{fb}▷^c Λ^{fb}▷↯^{fb}σ^c▷

Accidents and Malfunctions

$\wedge \triangleright^{\text{au}} \Gamma^{\text{a}} \sigma^{\text{fb}} <^{\text{a}} \cup \underline{} \neg^{\text{au}} \cup \triangleleft^{\text{fb}} \supset^{\text{fb}}$

Worst Case Scenario

$\rho_{\mathcal{C}} \triangleright^{\leq} \triangleleft \rho_{\mathcal{L}} \triangleright^{\leq} \rho_{\mathcal{C}} \triangleleft \sigma^{\leq} \rho_{\mathcal{C}} \triangleleft \sigma^{\leq} \rho_{\mathcal{C}}$

Climate Change





Highlights of Potential Effects Seismic Surveys

Activity	Influence from Activity	Type of Potential Effect
Seismic survey Vessel movement Icebreaking	Underwater noise	<ul style="list-style-type: none">• Change to behaviour and habitat use for sea life• Death or injury of marine plankton, benthic flora and fauna
Ice breaking	Disturb sea ice and polynyas Lights on vessels	<ul style="list-style-type: none">• Change to behaviour and habitat for plankton, birds, marine mammals• Change to location and success of traditional and commercial harvesting
Seismic survey	Safety/exclusion zone Direct/indirect interference	<ul style="list-style-type: none">• Contact and damage to fishing equipment and other vessels• Change to location and success of traditional and commercial harvesting
Scenario A	Employment opportunities	<ul style="list-style-type: none">• Jobs: Positive and negative

A black and white photograph of a sunset or sunrise over a body of water. The sun is a bright, glowing orb in the upper center, partially obscured by dark, heavy clouds. Its light reflects down the water's surface, creating a bright, vertical path of light. In the foreground, there are dark, rocky islands or reefs. The background shows distant, low mountains under a dark sky.

[illegible]



Highlights of Potential Effects Exploration and Production Drilling

Activity	Influence from Activity	Type of Potential Effect
Ice-breaking Vessels Drilling	Underwater noise	<ul style="list-style-type: none">• Change to behaviour and habitat use for sea life• Death or injury of birds
Drilling Ice-breaking Vessels	In-air noise Lighting	<ul style="list-style-type: none">• Change to behaviour and habitat use for birds
Vessels	Discharge of liquids	<ul style="list-style-type: none">• Change to health and habitat for sea life• Introduction of invasive species
Drilling	Waste and mud	<ul style="list-style-type: none">• Change to health and habitat to bottom dwelling organisms and fish
Exploration Drilling	Employment opportunities	<ul style="list-style-type: none">• Jobs: Positive and negative



Highlights of Potential Effects Exploration and Production Drilling

Activity	Influence from Activity	Types of Potential Effects
Vessels	Discharge of liquids	<ul style="list-style-type: none">• Change to health and habitat for sea life• Introduction of invasive species
Drilling	Waste and mud	<ul style="list-style-type: none">• Change to health and habitat to bottom dwelling organisms and fish
Production drilling	Safety/exclusion zone Direct/indirect interference	<ul style="list-style-type: none">• Contact and damage to fishing equipment and other vessels• Change to location and success of traditional and commercial harvesting

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NIRB Final SEA Report

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- Considered all written submissions
- Considered discussions at Final Meeting
- Contained recommendations to government
- Was released publicly
- Was brought back to communities

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[illegible]

Board's Central Conclusion

Given the importance of the marine environment to the well-being of Nunavummiut, significant gaps in knowledge of the environment necessary to support impact assessment, and an overall lack of regulatory, industry and infrastructure readiness in Nunavut, the 2016 moratorium on oil and gas development in the Canadian Arctic should remain in place for Baffin Bay and Davis Strait until such time as the key issues set out in this Report can be addressed. The Board expects that it will take at least a decade to complete the research, planning, and consultation identified as necessary prior to undertaking a re-assessment by the Minister to determine if the moratorium should be lifted.

5 Central Themes

- [illegible]

1. Inuit Qaujimajatuqangit
2. Lack of Readiness
3. Gaps and Uncertainty
4. Marine Planning
5. Alternatives

Inuit Qaujimagatuqangit
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- [illegible]

Lack of Readiness

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- Collect baseline information

- Review spill response capacity

- Establish Arctic spill prevention, response, and evaluation

- Identify and assess communication capability and transportation infrastructure

- Improve ice monitoring and management

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- $\langle C \rangle \Gamma^{\nu} \langle N^b \rangle \Delta \Gamma^{\mu} \langle \sigma^b \rangle$
 $\langle \Delta \sigma^{\mu} \rangle \langle C \rangle \Delta C \langle N^c \rangle \Gamma^{\nu} \langle N^b \rangle$

- [illegible]

- Better understand current environment
- Assess potential effects
- Measures to reduce or prevent impacts
- Update modelling, mapping, and predictions

Marine Planning

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- Analyze risks and benefits of alternative development options
- Analyze risks and benefits of alternative energy sources
- Conduct SEAs in other regions

Minister's Response ᐱᓂᓐᓂᓐ ᐱᓂᓐᓂᓐ ᐱᓂᓐᓂᓐ ᐱᓂᓐᓂᓐ

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Received September 2019

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Congratulated NIRB Board and staff

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Outlined how Final Report and Recommendations will be used

Parties Next Steps

CIRNAC ᐃᓄᓕᓚᐅᐅᑦᑲᑲᓄᓕ



Crown-Indigenous Relations
and Northern Affairs Canada

Relations Couronne-Autochtones
et Affaires du Nord Canada[illegible]

GN မုခ်ၤ ၼ်းၤ



bɔŋɔ ʁə ʔᐱᖃᓴᑦ ᑕᐳᑦᐸᑦ
Building Nunavut Together
Nunavut iuaqatigiingniq
Bâtir le Nunavut ensemble

[illegible]

CIRNAC's use of community input for the assessment

- Input from community members helped identify values, interests and concerns of Qikiqtani Inuit
- Work led by the Qikiqtani Inuit Association ensured the respectful consideration of Inuit Qaujimajatuqangit in the Strategic Environmental Assessment
- This helped the Nunavut Impact Review Board develop recommendations to the CIRNAC Minister
- CIRNAC has reviewed and analyzed the recommendations and is working with federal departments to discuss ongoing and planned initiatives that might address recommendations, and to identify funding needs for future additional work
- The Strategic Environmental Assessment report and the Nunavut Impact Review Board's recommendations will inform the 5-year review of the moratorium on oil and gas activities in Canadian Arctic waters





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QIA's role in the SEA

QIA was asked to collect Inuit Qaujjimajatuqangit for the study.

A new process was made so that we could bring Inuit Qaujimajatuqangit, Inuit priorities and the Inuit point of view into the study.

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[illegible]

- [illegible]

Recommendations

The recommendations section of the final report is almost 30 pages.

- Include an Inuit Qaujimajatuqangit Advisory Committee and a Youth Committee
- Create an oil and gas research institute
- Include traditional rules in research
- Oil and gas education in communities
- More study into harvesting and country food
- Wildlife and environmental monitoring
- Proven oil spill clean up in ice conditions
- Identify “no-go” areas



We need to learn from each other, coordinate between Inuit and industry to exchange knowledge.

[illegible]

**"ᐃᓂᓯᓴᕆᐸᑦ ᑭᐳᑦ
ᐅᑭᓯᐸᐱᑦ ᓂᐸᑦ ᓇᑦ
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ᓴᓴᓄᓈᓈᓂᑦ."**

[illegible]

“We must give the oil and gas people a list of our rules.”

**We are more intertwined
with our environment than
people in the south...we are so
connected to the land, the wildlife,
and the weather that there is no one
that can cut that bond between me and
my land.**

Δ^{9b}baΔ⁷bπ²a⁹σ⁴bC⁹bπL⁷γ²c:

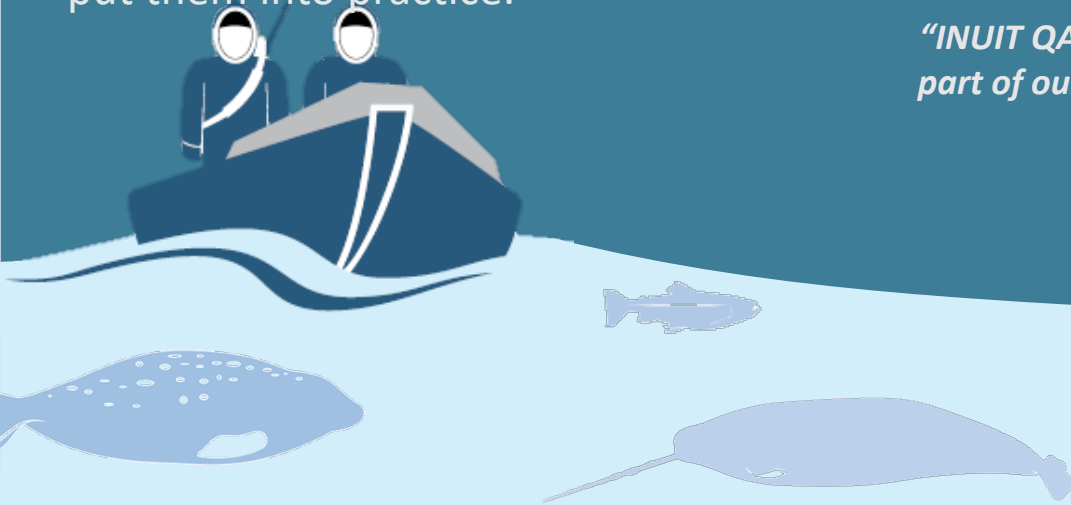
- Inuit are the experts with Inuit Qaujimajatuqangit, the land, and the animals.

- 5 meetings until 2021.
- Knowledge exchange with other Inuit.
- Have elders pass on knowledge to youth.
- Record Inuit Qaujimajatuqangit and show organizations, Inuit, non-Inuit, and Government HOW to use it.



What will QIA and the Committee do?

- Work with an elder/youth committee on the use of Inuit Qaujimajatuqangit.
- Design a guide or methodology for knowledge sharing so that Inuit Qaujimajatuqangit could be used in data collection, analysis, decision-making, and operations etc.
- Create a 5 year plan on how best to apply the recommendations.
- Educate people about Inuit wildlife laws and norms so that we could put them into practice.



“Δοδοῖς ἑβδελύχῃς
 Δορὶδῶς ἐν δόξῃ Δορὶδῶς
 ἑβδελύχῃς ἑβδελύχῃς
 Δορὶδῶς ἑβδελύχῃς
 ἑβδελύχῃς ἑβδελύχῃς.”



“INUIT QAUJIMAJATUQANGIT needs to be part of our daily lives at home, at work, in all we do.”

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GN ᓄᓄᓂᓯ ᓂᓴᓴᓂ



ᓂᓴᓴᓂ ᓄᓄᓂᓯ ᓂᓴᓴᓂ
Building *Nunavut* Together
Nunavu liuqatigiingniq
Bâtir le *Nunavut* ensemble

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Last thoughts

- No proposed oil and gas projects
- Community input and knowledge essential to successful SEA
- NIRB SEA completed
- Work not over

Thank you ᓴᓂᓴᓂᓴᓂ



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Contact

$\mathcal{H}_n \triangleleft^{\epsilon} \Delta^b \mathcal{H}^c$

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