



## Marine Environment ᑕᓕᓂᓐ ᐱᓐᓂᓐ

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Phase 2 Proposal / ᐱᓐᓂᓐ ᐱᓐᓂᓐ ᐱᓐᓂᓐ 2 ᐱᓐᓂᓐ

Public Hearing Iqaluit and Pond Inlet January 2021

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 ᐱᓐᓂᓐ 2021



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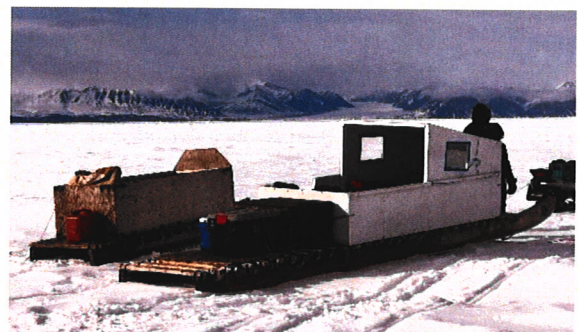
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## Presentation Overview

### ᐱᓐᓂᓐ ᐱᓐᓂᓐ ᐱᓐᓂᓐ

- Assessment Approach and Overview  
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- Construction & Operation at Milne Port  
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- Shipping  
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- Assessment Conclusion  
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- Technical Review Process Summary  
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- Summary  
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ፍጥረት ፍርድና ሰርድ  
ደጋደፈን ፍጥረት ሆኖ

[illegible]

ለጋራ ጥራት ምስክር ወረቀት

- Multiple environmental impact review processes  
ፎካል ልማት ስራ ላይ የሚደረግ የአካባቢ ጥገና
- Deep understanding of key risks  
የአካባቢ ጥገና ስራ ላይ የሚደረግ የአካባቢ ጥገና



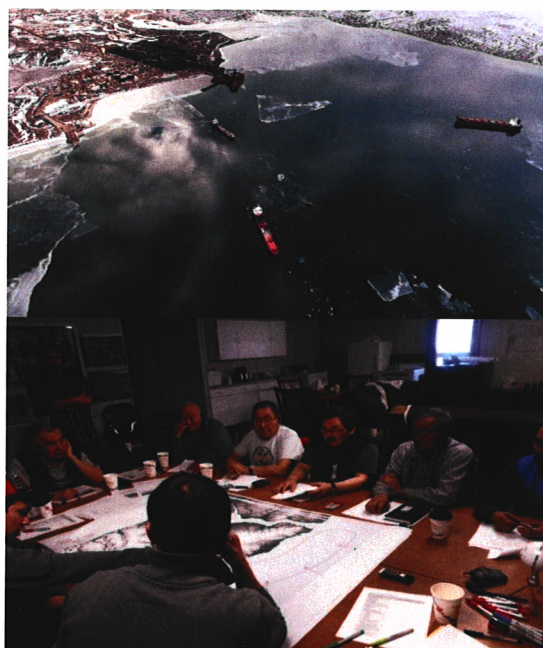


## Assessment Approach – Operational Knowledge

[illegible]

Integration of key learnings as operations  
grow /  $\Delta C \triangleright \tau^b$   $\Delta L \triangleright \Pi^c \Pi \sigma^{\text{sb}}$   $\triangleleft L C \triangleright \tau^{\text{sb}}$   
 $\Lambda P^{\text{sb}} \leftarrow C \triangleleft \Pi^c \Pi J$

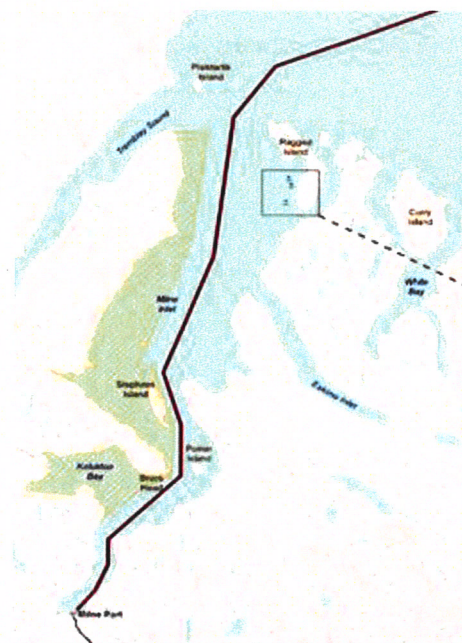
- Implementation of mitigation and management measures over 6 years



## Assessment Approach – Inuit Knowledge

[illegible]

- [illegible]



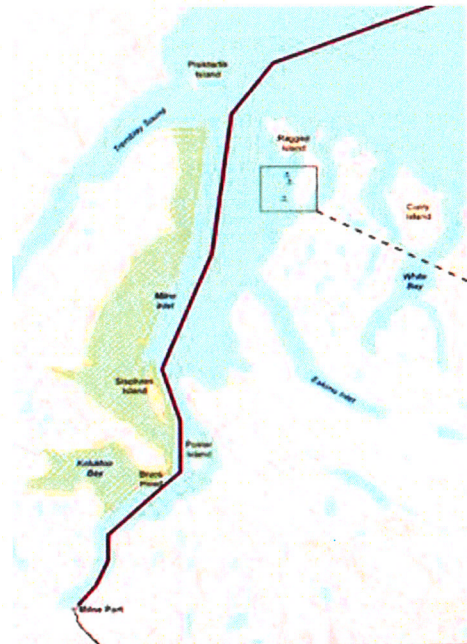




## Assessment Approach – Inuit Knowledge

ፍጥረትና ሕይወት ለሕይወት - ልማት  
ፍጥረትና ሕይወት

- [illegible]

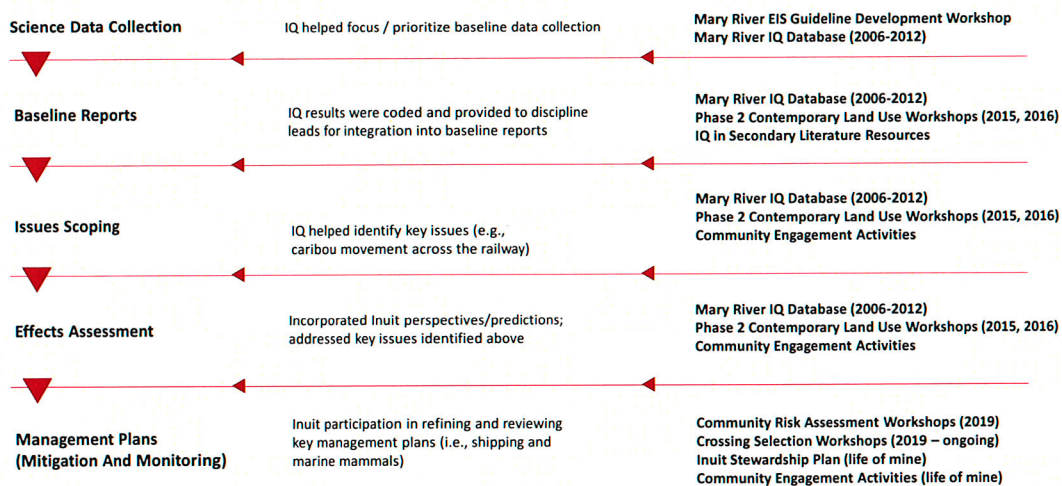


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## Methods of Incorporating IQ into the EIS



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[illegible]

- Empirical-based Modelling  
በበኞች ርዕሰ ጉዳዮች ላይ ለተፈጻሚ ልዩ ልዩ ጥናቶች
- Conservative model assumptions  
በሌሎች ጉዳዮች ላይ ለተፈጻሚ ልዩ ልዩ ጥናቶች
- Multiple, effective mitigation measures  
በተለያዩ ጉዳዮች ላይ ለተፈጻሚ ልዩ ልዩ ጥናቶች





### Assessment Approach – Thorough and Accurate

‘ፔፕሊድ’ ጋር ‘ፌዴራል’ ጋር -

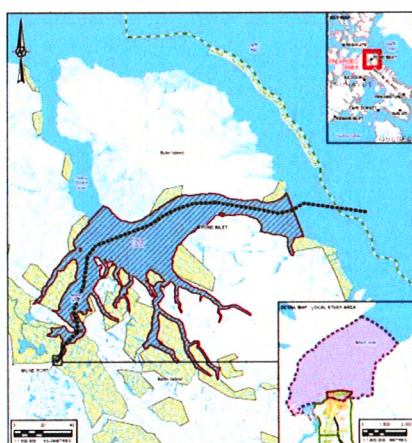
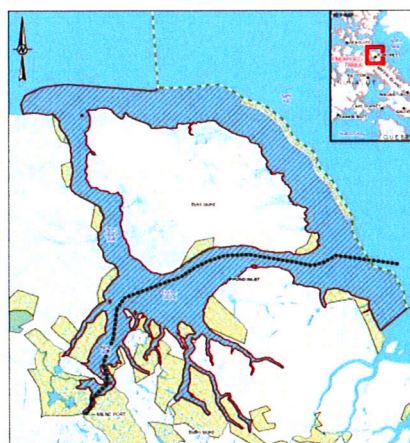
**ፍልጋጥና ምርጫ ምክር ቤቱ ለፍጥነት ምርጫ ምክር ቤቱ**

- 10+ years of data collected  
10+ ልዩ ስርዓት የሚገኝ ሥራ ለጥናት
- Over 30 regional studies  
በኢትዮጵያ 30 ልዩ ክልላት ሥራ ለጥናት
- Peer reviews  
ለጥናት ምርጫ የሚያገለግል ሥራ
- Adaptive management approach  
የጥናት ምርጫ ለጥናት ምርጫ ሥራ



## Study Areas

ፍጥነት ልዩ ልዩ ፍጥነት

Marine Environment /  $\Delta L^9$ 

Marine Mammals / &gt;Δἰc

- LEGEND**
- COMMUNITY
  - SHIPPIING ROUTE (APPROXIMATE)
  - FDA / QIA COMMERCIAL LEASE
  - WATERCOURSE
  - EXISTING FREIGHT DOCK AND CAUSEWAY
  - EXISTING ORE DOCK
  - NEW ORE DOCK AND CAUSEWAYS
  - LOCAL STUDY AREA
  - REGIONAL STUDY AREA
  - INAC FORESHORE LEASE
  - NUNAVUT SETTLEMENT AREA BOUNDARY
  - NUNAVUT LAND CLAIMS AGREEMENT - POND INLET INUIT OWNED LAND
  - WATERBODY







[illegible]

- Underwater noise  
CnD<sup>c</sup> < Cσ σ<sup>c</sup>λ<sup>c</sup>
- Ballast water management  
DΓ<σ<λ<sup>c</sup> DΔλ<sup>c</sup>Δ<sup>c</sup>dĤ<sup>c</sup> ΔΓ<λ<sup>c</sup>λ<sup>c</sup>NCDλ<sup>c</sup> < D<Cλ<sup>c</sup>σ<sup>c</sup>λ<sup>c</sup>
- Impacts to Inuit culture and livelihood  
<Cλ<sup>c</sup>σ<sup>c</sup>λ<sup>c</sup>σ<sup>c</sup>λ<sup>c</sup> ΔσΔ<sup>c</sup> Δ<σ<sup>c</sup>dλ<sup>c</sup>λ<sup>c</sup>σ<sup>c</sup> Δ<λ<sup>c</sup>λ<sup>c</sup>  
ΔΔσλ<sup>c</sup>dPNCλ<sup>c</sup>λ<sup>c</sup>σ<sup>c</sup>



ՀԵՆՐԻԿ ԲՈՒՄԵՆԿԻՆ  
ՎԵՐՆԻԿԱ ՎԵՐԵՏՆԻՔ

- [illegible]





ՀԵՆՐԻ ԿԵՐԵՆՆԻ  
ՎԵՐՆԵՐԻՆԻ

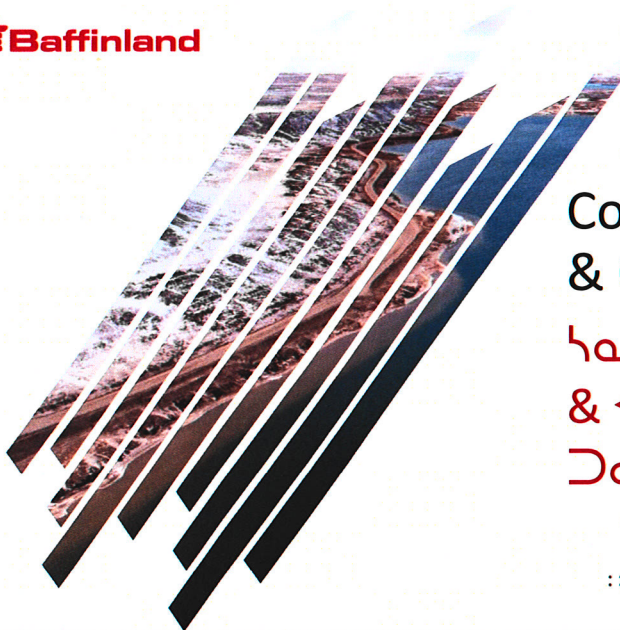
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[illegible]

- 

1.  $\hat{\theta} < \hat{\theta}^a$  ብሏል የዋናው ልዩነት ምንም ዓይነት ምንጭል አይደለም፡፡





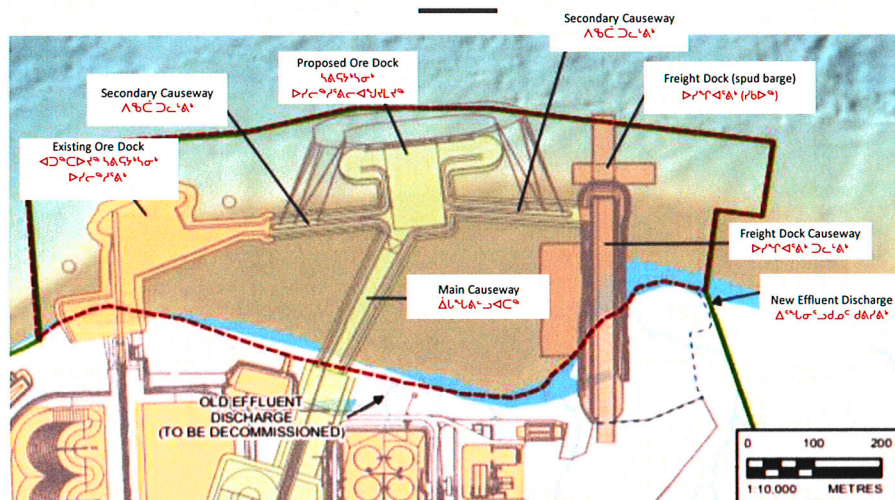
## Construction & Operation at Milne Port

ካዲንፕሪ  
& ልፕሪሪፕሪ ፍፆሃፍ  
ጋሪሪፍ

.....



## Construction & Operation ካዲንፕሪ ልፕሪ ልፕሪሪፕሪ





## Port Construction – Habitat Alteration

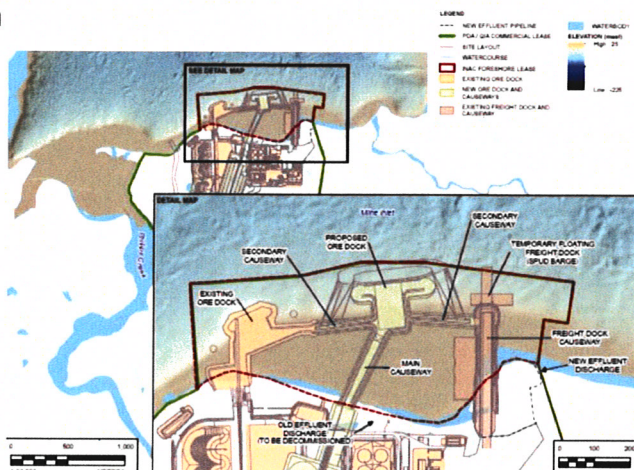
ጋራ ርዕሰ ክፍል -  
ዲፕሎማሲያዊ ልምድ በጋራ ጥሪ

## Phase 2 Ore Dock Design Overview

ጋራ ስራ ለማድረግ ለሚችሉ ሰዎች ማዕከል ማድረግ

### Phased approach to reduce impacts to marine environment

ጋኒሮሲላላጥኑ ምዕናጋጥኑና ጋራ ልጋና ርዕሰ ጉዳይ  
ጋራ ልጋና ርዕሰ ጉዳይ ጋራ ልጋና ርዕሰ ጉዳይ



## Mitigation – Port Construction

[illegible]

- Best management practices during in-water construction including:
  - ◀▷ ርብረብ ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ
  - Silt curtains
    - ከፍተኛ ልሽ ለማረጋገጥ ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ
  - Underwater noise management plan
    - ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ
  - Following the guiding principles for offsetting
    - ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ ለፍጥነት ለማረጋገጥ



24. <sup>b</sup>  $\text{C}_5\text{H}_5\text{N} + \text{C}_6\text{H}_6 \rightarrow \text{C}_6\text{H}_5\text{N} + \text{H}_2$

ለፍትሕ ምክር ቤቱ አባል ሆኖ ለሰነድ ማረጋገጫ ማቅረብ

- Co-developed advanced model with Danish Hydrographic Institute (DHI) Water & Environment ኢዮዋርቭክቦባንቢኛ ሙርኒኒየር ልፎርሲኒየኒኛ ርልሙድ ልፎርሲኒየኒየር ለፎርሲኒየኒኛ ልፎርሲኒየኒኛ
- Calibrated to 2014 data 2014 ለፎርሲኒየኒኛ ሙርኒኒየር ልፎርሲኒየኒኛ ርልሙድ ልፎርሲኒየኒኛ
- 3-month simulation ርዕዞ ለፎርሲኒየኒኛ ሙርኒኒየር ልፎርሲኒየኒኛ
- Modelled Existing and Proposed conditions ድጋፍ ልፎርሲኒየኒኛ ሙርኒኒየር ልፎርሲኒየኒኛ ሙርኒኒየር ልፎርሲኒየኒኛ ሙርኒኒየር ልፎርሲኒየኒኛ



**7-65** **Find:**  $\frac{d}{dt} \left( \int_0^t f(t-s) ds \right)$

AL 51706C-9i 5b7C 4b7A 4C

[illegible]

- Included 2018 Milne Inlet oceanographic and ballast water data  
ለጥንቅቃና ለፖሊስ 2018 የሞከር ርዕሰ ነጠላው ቁልፍ ያለውን የተጨማሪ መረጃ ለመስጠት
- Assessed potential temperature and salinity changes in ambient water  
የአካባቢው ሙሉ አሳይነት እና ስኬት ለመለየት











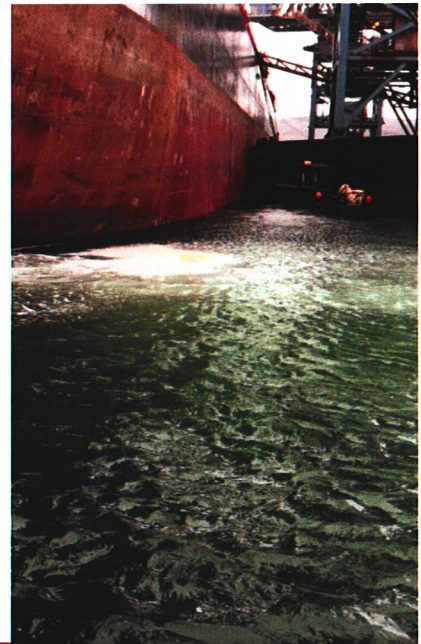
## Port Operation – Aquatic Invasive Species Monitoring & Mitigation

[illegible]

ΔΛ'Γ'Δσ' CΛσ'ΓΔCΔ'ω'Γ'ΔΔ'β'σ'

ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ

- Most stringent in Canada & Arctic  
ba.CF & D.P.D.<sup>s</sup>C.S.FJ L.C.CD<sup>s</sup>N.d.L.J.N.f.C<sup>s</sup> A.D.A.e.D.<sup>s</sup>f.C<sup>s</sup>
- Protocol exceeds regulatory requirements (International Maritime Organization & Transport Canada)  
L.C.CD<sup>s</sup>n.d.L.C.D<sup>s</sup>L.C.D<sup>s</sup>J.C.D<sup>s</sup>d.D.L.C<sup>s</sup>  
L.C.CD<sup>s</sup>n.d.L.C<sup>s</sup>f.C<sup>s</sup>f.C<sup>s</sup>(M.a.<sup>s</sup>f.d.f.A.L.f.G.D.C.n.s.J.C<sup>s</sup>b.D<sup>s</sup>y.B.N.f.C<sup>s</sup>  
& ba.CF A.f.C.f.d.C.n.y.f.d.B.D)



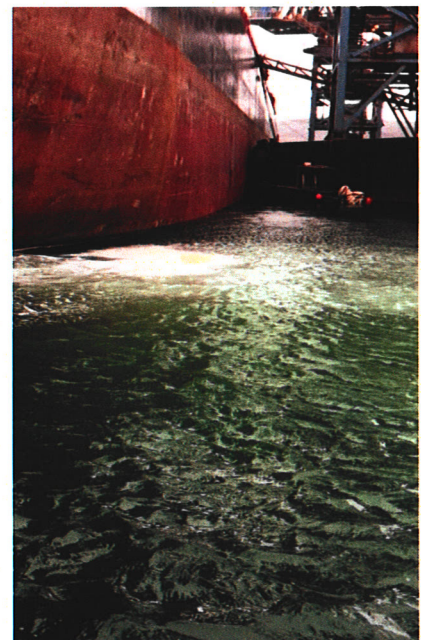
## Port Operation – Aquatic Invasive Species Monitoring & Mitigation

**ᠵᠡᠴᠢᠭ᠎ᠠ ᠠᠨᠤᠯᠦᠰᠡ**

ΔΛ'Γ'ΔΣ' ΓΛ'Σ'ΓΔΓΔ'Σ'Γ'Δ'Σ'

CLP ԳԵՐԱՆՈՒՆԱԿԱՆ ԴԵՐՈՒՄ

- Ballast water compliance testing (salinity and temperature) by Baffinland to verify exchange





## Port Operation – Aquatic Invasive Species Monitoring & Mitigation

[illegible]

ΔΛ'Γ'ΔΣ' ΓΛ'ΓΔΓΔ'Ρ'ΔΔ'Β'Σ'

ငါ့အဖေ့အမေ့အားလုံးကို ခံစားရဖို့အတွက်

- Commitment to supporting the development of a trigger list of high biological risk species or groupings of species of concern and associated response plans

Δbτ<sup>5b</sup>▷Δσ◁<sup>5</sup>σ<sup>5b</sup>γLτ<sup>c</sup> Λ<sup>5</sup>ε<sup>c</sup>◁ΠC▷▷σ<sup>5</sup>μΔ<sup>c</sup>▷<sup>c</sup>

[illegible]

፲፭. ምክር ቤቱ የጋራ ጥራት ማረጋገጫ ማድረግን ያስፈልጋል፡፡

[illegible]

## Port Operation – Impact of Dust

**ᠳᠤ ᠴᠣᠭ᠎ᠠᐅᠲᠦᠨ ᠰᠡᠵᠡ -**

◀▷Δσ⁹b⁹σ⁹ρ◀▷⁹

## Results to-Date

Results to Date

- Increased stockpiling of ore at Milne Port may increase iron concentrations in the marine environment

[illegible][illegible]

- Baseline monitoring indicates that iron is already abundant in the receiving environment (pre-Project)

[illegible][illegible]

Λατρεύοντας τον Θεό (Λατρεία).



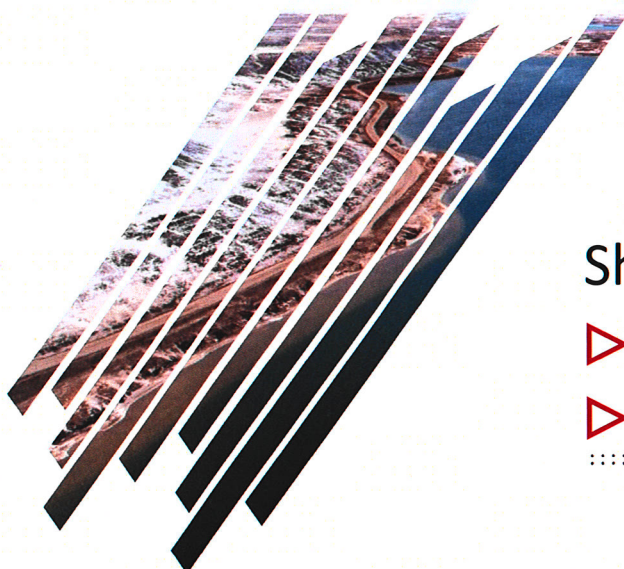


### Port Operation – Dust Monitoring

**ᠳᠤᠴᠣᠭᠠᠨ ᠠᠵᠢᠯᠦᠰᠡ**

ጋራ ልብ ወለድ

- Since start of operations (2015-2019), no significant increase in iron concentrations in sediment relative to baseline.  
◀ᐅᓕᑦᑎᑦᐸᐱᓄᑦᑕᑦᑕ (2015-2019), ᐸᑦᑎᑦᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ.
- Metal concentrations in fish tissue have been relatively consistent between 2010 and 2019 and are aligned with expected natural variability.  
ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ 2010 ᐸᐱᓄᑦᑕᑦᑕ 2019 ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ.
- Notably, iron concentrations have tended to decrease in Arctic Char in recent years compared to pre-Project.  
ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ ᐸᐱᓄᑦᑕᑦᑕ.



## Shipping

▷ ▮ ◁ ५ ↯ ◁ C

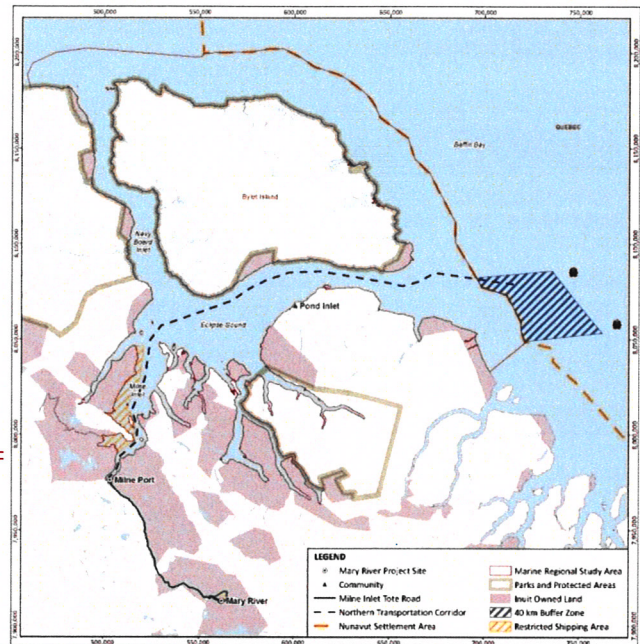
▷ ምክር ቤቱ ለጥቅም



## Shipping Activity Overview – Route

ᐅᐱᐸᐱᐸᐱᐸ ᐅᐱᐸᐱᐸᐱᐸ ᐸᐱᐸᐱᐸᐱᐸ  
ᐸᐱᐸᐱᐸᐱᐸᐱᐸ - ᐸᐱᐸᐱᐸᐱᐸ

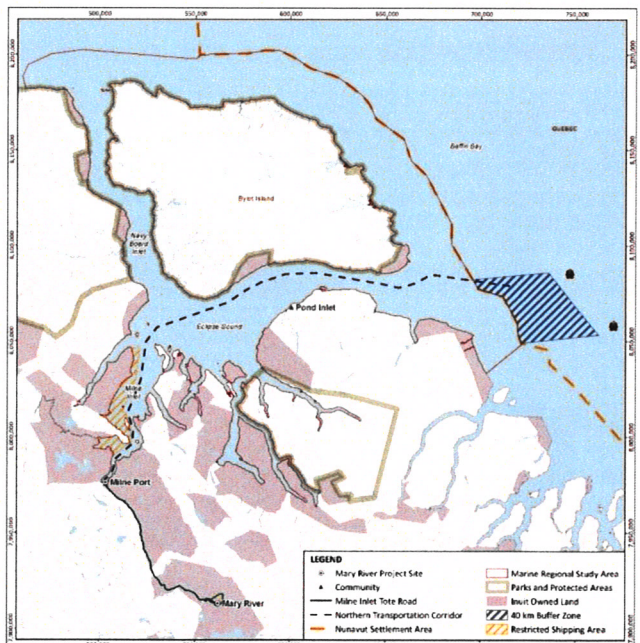
- [illegible]



## Shipping Activity Overview – Route

**▷Γ◁<sup>၃</sup>◁<sup>C</sup> ▷၂<sup>၆B</sup>◁<sup>၆C</sup>◁<sup>၆D</sup>**  
**၆E▷△◁<sup>၆F</sup>◁<sup>၆G</sup> - ◁<sup>၆H</sup>▷**

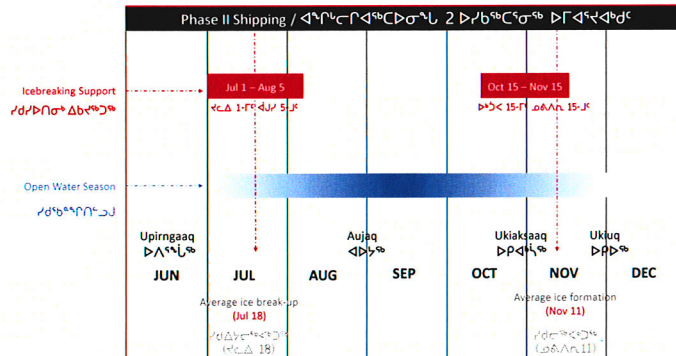
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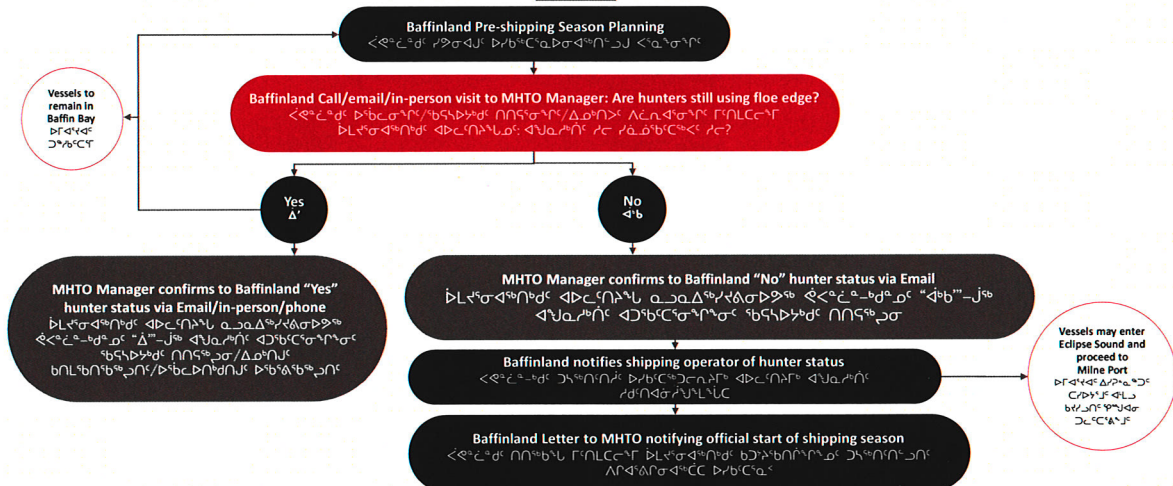


## Shipping Activity Overview – Selection of Shipping Season

**ᐅᑦᐸᓴᓴᐸ ᐱᓕᒃᓂᓴᑦᑕ ᓴᓄᐸᓕᓴᓂᓴ - ᐅᑦᐸᓴᐸᓄᓕ ᐅᓯᓴᓴᑕᓴᐅᑦᑐ**



## Shipping Activity Overview – Start of Shipping Season

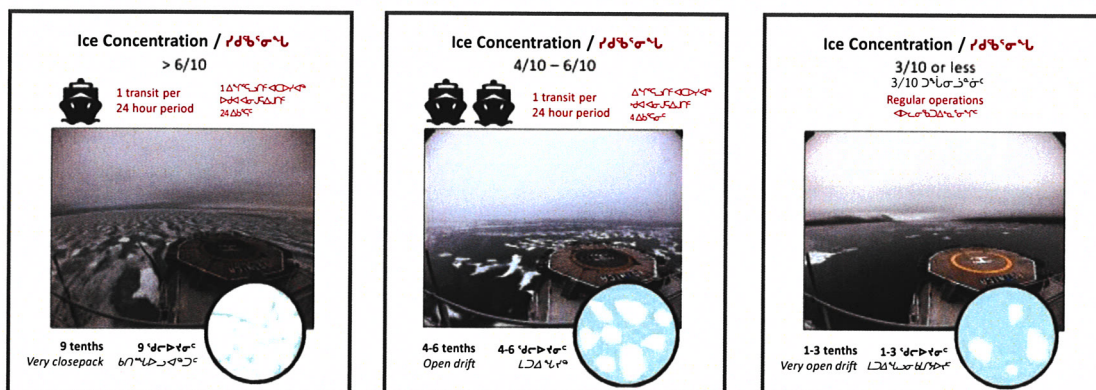
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## Shipping Activity Overview Transit Restrictions

፲፱፻፸፱ ዓ.ም. ጥቅምት ፳፯ ቀን

Vessel Management in Heavier Ice Conditions / ၎ီၤပိၣ်တူၢ်သုးဝါးမံၤ နီၤခွဲၣ်တူၢ်သုးဝါးမံၤ



### Shipping Activity Overview - # of Vessels

Shipping Activity Overview - # of vessels

Vessel (Phase 2) ᐅᑦᐃᓪᐸᐳᐱᕐ (ᐃᔨᑦᒋᑦᐄᐳᐱᕐ ᐇᐲᓂᓴᓚ 2-ᑦ)	July / ᖃᓗ	August / ᐊᓯ	September / ᑦᑎᓵᓚ	October / ᐆᓚᓵᓚ	Total / ᑭᑏᓪᐷᑦᑦ
Ore Carriers ᙻᓵᙻᓂᓂ ᐅᖁᓪᓂᑦ ᐉᑦᑎᓪ	22	62	60	32	176
Other Project Vessels ᐃᖁᓪᐹᑦ ᐅᑥᐃᓪᐸᐳᐱᕐ	12	6	6	8	32
<b>Total</b> <b>ᑭᑏᓪᐷᑦᑦ</b>	<b>34</b>	<b>68</b>	<b>66</b>	<b>40</b>	<b>208</b>
Daily Avg/Mth ᓪᐅᐘᐈᓚᓴᓂ/Cᓪᓂᐉᐈᓚᓴᓂ ᐃᐃᓂᐅᓂᓴᓚ	2.3	2.2	2.2	1.3	1.7







### What makes Ragged Island a good anchorage location?

**ΔΓ<sup>α</sup>σ ρ<sup>β</sup> ρ<sup>γ</sup> ρ<sup>δ</sup>σ λ<sup>ε</sup> <?**

- [illegible]

## Potential Acoustic Effects on Marine Mammals

σΛ<sup>9</sup>б\_Δ<sup>9</sup>σ<sup>9</sup>┘<sup>c</sup>

**ᐱᑦᓂᕈᑦ ᐸᕋᑦ ᐸᕋᑦ ᐸᕋᑦ**

၆၄၇၀

## Acoustic Injury

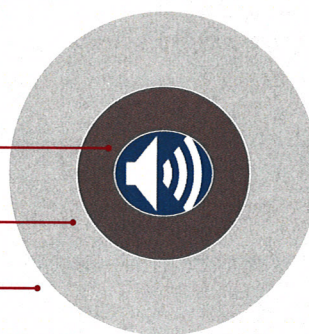
**ፀሐፊዎች ልሳኒያ**

## Behavioural Disturbance

ለጋራ ልማት ለሚገባ

## Masking

כח<sup>56</sup> יא<sup>57</sup> ג<sup>58</sup> א<sup>59</sup> ב<sup>60</sup> ד<sup>61</sup> ה<sup>62</sup> ו<sup>63</sup> ז<sup>64</sup> ח<sup>65</sup> ט<sup>66</sup> י<sup>67</sup> יא<sup>68</sup> יב<sup>69</sup> יג<sup>70</sup> יד<sup>71</sup> טו<sup>72</sup> טז<sup>73</sup> יז<sup>74</sup> יח<sup>75</sup> יט<sup>76</sup> כ<sup>77</sup> כא<sup>78</sup> כב<sup>79</sup> כג<sup>80</sup> כד<sup>81</sup> כה<sup>82</sup> כו<sup>83</sup> כז<sup>84</sup> כח<sup>85</sup> כט<sup>86</sup> ל<sup>87</sup> לא<sup>88</sup> לב<sup>89</sup> לג<sup>90</sup> לד<sup>91</sup> לה<sup>92</sup> לו<sup>93</sup> לז<sup>94</sup> לח<sup>95</sup> לט<sup>96</sup> לך<sup>97</sup> לך<sup>98</sup> לך<sup>99</sup> לך<sup>100</sup> לך<sup>101</sup> לך<sup>102</sup> לך<sup>103</sup> לך<sup>104</sup> לך<sup>105</sup> לך<sup>106</sup> לך<sup>107</sup> לך<sup>108</sup> לך<sup>109</sup> לך<sup>110</sup> לך<sup>111</sup> לך<sup>112</sup> לך<sup>113</sup> לך<sup>114</sup> לך<sup>115</sup> לך<sup>116</sup> לך<sup>117</sup> 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### Shipping –

## No Acoustic Injury

[illegible]

- No potential for acoustic injury (temporary or permanent), based on both modelling and field data  
 $\Delta f \ll f_{hearing}$  ( $f_{hearing} \approx 100$  kHz), based on both modelling and field data  
 $\Delta f \ll f_{hearing}$  ( $f_{hearing} \approx 100$  kHz), based on both modelling and field data  
 $\Delta f \ll f_{hearing}$  ( $f_{hearing} \approx 100$  kHz), based on both modelling and field data
- Mitigation measures effectively reduce spatial and temporal overlap with vessel noise  
 $\Delta t \ll \Delta t_{vessel}$  ( $\Delta t_{vessel} \approx 10$  s), based on both modelling and field data  
 $\Delta t \ll \Delta t_{vessel}$  ( $\Delta t_{vessel} \approx 10$  s), based on both modelling and field data  
 $\Delta t \ll \Delta t_{vessel}$  ( $\Delta t_{vessel} \approx 10$  s), based on both modelling and field data

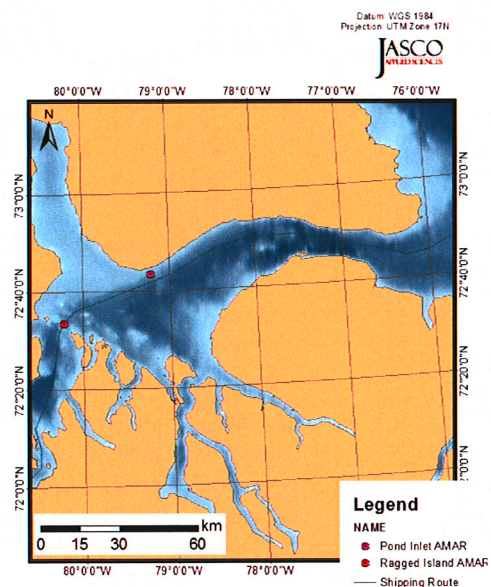


### Shipping –

## Behavioural Disturbance

[illegible]

- [illegible]



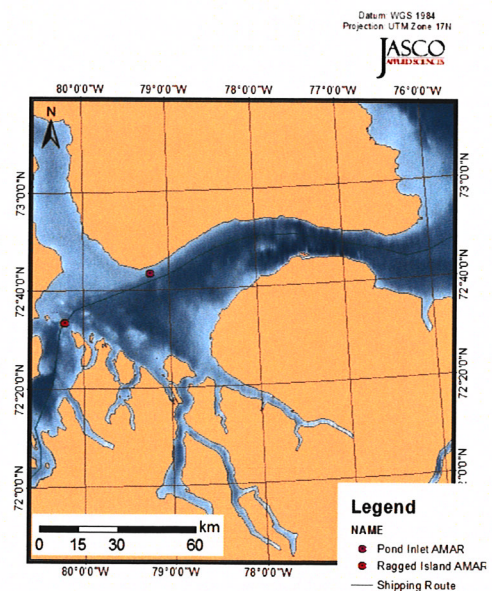


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- ፊኔሮሮሞሶ  
ሙሴሮሮሞሶ  
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ፊኔሮሮሞሶ

[illegible]

- Mitigation measures will reduce source levels (such as speed restrictions) and overlap (such as limiting # of transits in heavy ice)





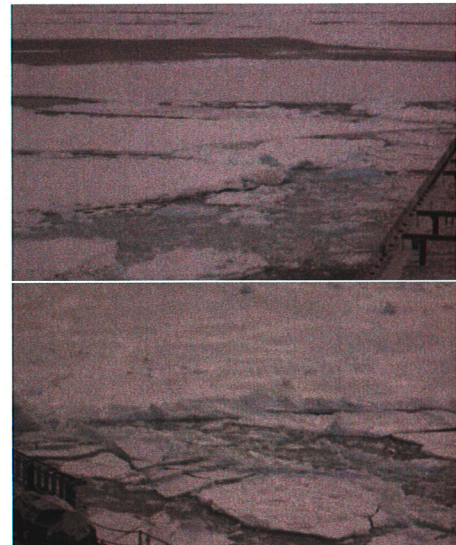
## Temporary Acoustic Masking

- Narwhal generally communicate at higher frequencies than vessel noise and may use natural anti-masking strategies
- Mitigation measures effectively reduce spatial and temporal overlap with vessel noise



▷ ስፍር ምዕራብ - ስፍር ምዕራብ ስፍር ምዕራብ  
▷ ስፍር ምዕራብ ስፍር ምዕራብ

- Ice entrapment naturally occurring phenomenon,  
documented in Arctic for hundreds of years /  
 $\text{ᐱᕐᔭᓄᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ}$   
 $\text{ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ}$   
 $\text{ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ}$   
 $\text{ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ}$
- Baffinland has committed to a post-season narwhal  
clearance survey and development of entrapment response  
framework with MHTO and DFO /  
 $\text{ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ}$   
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 $\text{ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ ᑖᕐᑎᕐ}$





## Shipping – No Vessel Strikes

[illegible]

- With mitigation, no strikes anticipated  
 ▷ ለፍጥነት ማጠናቀቅ ማረጋገጥና ለጥቅም ስራ ማቆም
- 13 knots considered speed threshold above which mortality is likely (based on literature)  
 13 knots-ው ለጥቅም ስራ ማቆም ማረጋገጥና ለጥቅም ስራ ማቆም
- 10 knot restrictions for endangered species based on DFO Annual Guidance to Mariners  
 10 knots-ው ለጥቅም ስራ ማቆም ማረጋገጥና ለጥቅም ስራ ማቆም
- 9 knot speed restriction in regional study area is more conservative, goes above and beyond existing precedent, and notably minimizes strike potential  
 9 knots ለጥቅም ስራ ማቆም ማረጋገጥና ለጥቅም ስራ ማቆም
- Compliance is diligently and transparently monitored – a notification system is in place that alerts Baffinland staff if a vessel exceeds the 9 knot speed limit for fast corrective action or investigation.  
 ለጥቅም ስራ ማቆም ማረጋገጥና ለጥቅም ስራ ማቆም

**Marine Monitoring**  
**ርቢጥጥር ልማትና ልማት**

### Objectives:

Measure the effects that the shipping is having on the marine environment

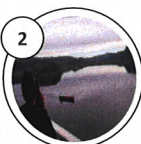
Assess the accuracy of predictions of effects

Determines if adaptive mitigation measures need to be developed



## Aerial Survey

Monitor  
narwhal  
abundance and  
distribution  
(Eclipse Sound  
summer herd)  
and other  
marine mammal  
species in  
Project area



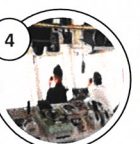
### Bruce Head Shore-based Monitoring

Investigate narwhal response to shipping along the Northern Shipping Route by observing them from top of Bruce Head



## Marine Environmental Effects and Aquatic Invasive

**Species/Habitat Offsets**  
Ballast water and video  
monitoring of vessel hull  
Water quality, sediment  
metals  
Fish abundance and  
health  
Ongoing monitoring for  
the construction of ore  
and freight docks



**Ship-based  
Observer**  
Observe for

**Observe for potential ship strikes**  
Inform vessel Master if marine mammals are trapped or disturbed



Acoustic  
Monitoring  
Confirm

### confirm accuracy of noise modelling



## Inuit Stewardship Plan



## Marine Monitoring ርከድጥር ምልክቶች

### ለዲፋሪዎች:

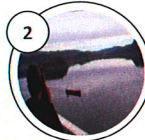
ምልክቶችን  
ፈጥሮአዊ ምልክቶች  
ፈጥሮአዊ ምልክቶች

ምልክቶችን  
ፈጥሮአዊ ምልክቶች  
ፈጥሮአዊ ምልክቶች

ፈጥሮአዊ ምልክቶች  
ፈጥሮአዊ ምልክቶች  
ፈጥሮአዊ ምልክቶች



1. ምልክቶች  
ምልክቶች  
ምልክቶች



2. ምልክቶች  
ምልክቶች  
ምልክቶች



3. ምልክቶች  
ምልክቶች  
ምልክቶች



4. ምልክቶች  
ምልክቶች  
ምልክቶች



5. ምልክቶች  
ምልክቶች  
ምልክቶች



6. ምልክቶች  
ምልክቶች  
ምልክቶች



## Monitoring: Inuit Involvement

### ፈጥሮአዊ ምልክቶች: ልማት ፈጥሮአዊ ምልክቶች

- A total of 18 Inuit (some worked on multiple programs) in 2019 vs 14 non-Inuit personnel  
ከፍተኛው 18-ህገ ልማት (ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች) 2019-ህገ 14-ህገ ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች
- Lead Inuit Researchers identified on monitoring programs  
ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች
- Program-specific follow-up meetings in Pond Inlet with all Inuit researchers  
ለፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች ፈጥሮአዊ ምልክቶች



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## Monitoring: Inuit Involvement

உதாரணம்: அந்த அருள்

- [illegible]



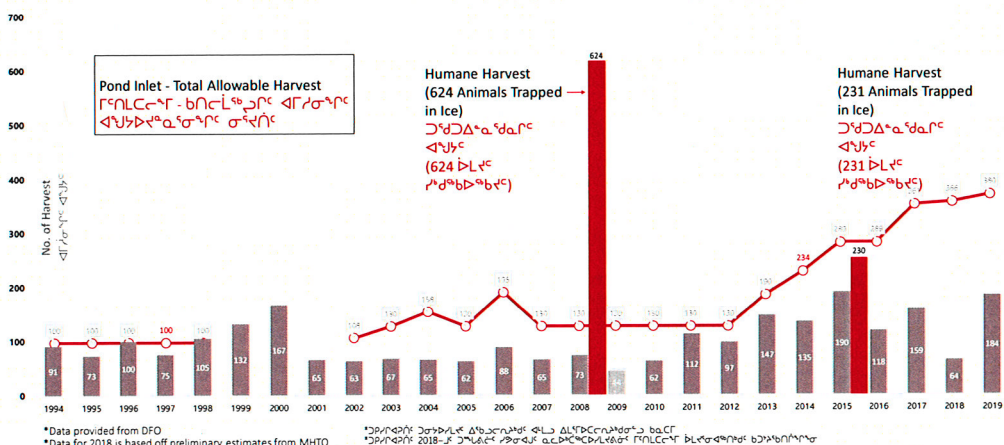
## Marine Mammal Aerial Survey Program – Annual Comparisons

Marine Mammal Aerial Survey Program – Annual Comparisons

	Year / ሰዓዊት	Date / ቀን-ወር	Abundance / ብዛድ	CV	95% CI	Source / ምንጭ
Eclipse Sound ርቀት	2004	August / ሰኔ	20,225	0.36	9,471 – 37,096	Richard et al. 2010 / ሪቻርድ ሲንግሎን. 2010
Eclipse Sound ርቀት	2013	18-19 August / ሰኔ	10,489	0.24	6,342 – 17,347	Doniol-Valcroze et al. 2015 / ዶኒዮል-ቫልክሮዝ ሲንግሎን. 2015
Eclipse Sound ርቀት	2016	7-10 August / ሰኔ	12,039	0.23	7,768 – 18,660	Marcoux et al. 2019 / ማርኩዝ ሲንግሎን. 2019
Eclipse Sound ርቀት	2016	15 August / ሰኔ	20,093	0.57	6,449 – 104,339	Golder 2018 (DFO data) / ጎልደር 2018 (ፈንድርብ ስርዓት ለፈንድርብ ስርዓት ስርዓት ስርዓት)
Eclipse Sound ርቀት	2016	21 August / ሰኔ	12,955	0.16	7,245 – 23,166	Golder 2018 (DFO data) / ጎልደር 2018 (ፈንድርብ ስርዓት ለፈንድርብ ስርዓት ስርዓት ስርዓት)
Eclipse Sound ርቀት	2019	22-21, 25-27 August / ሰኔ	9,931	0.05	9,009 – 10,946	Golder 2020 (Baffinland data) / ጎልደር 2020 (ፈንድርብ ስርዓት ለፈንድርብ ስርዓት ስርዓት ስርዓት)



Recorded Harvest Data



## Narwhal Early Warning Indicator Monitoring

**Narwhal Early Warning Indicator Monitoring**

### Requirement to Identify Marine Mammal EWIs in other Marine Development Projects in Canada

[illegible][illegible]

### Annual Proportion of Immature Narwhal Recorded during the Bruce Head-Shore-based Monitoring Program

<sup>1</sup> Pilot vessel-based monitoring program results

Year / ວິທົວ	Proportion of Immature Narwhal / ອັດຕາອຸປະກອນນົກນ້ອຍ
2014	0.152
2015	0.163
2016	0.164
2017	0.163
2018	N/A / ບໍ່ມີຂໍ້ມູນ <sup>1</sup>
2019	0.156

<sup>1</sup> Pilot vessel-based monitoring program replaced the Bruce Head shore-based monitoring program in 2018. The pilot program was not successful in yielding a comparable dataset for inclusion in this analysis.

for inclusion in this analysis.



ከፍተኛ ጥራት ያለው ጥናት -

▶ Ի՞նչ է Երևանի քաղաքը:

- Drone footage of narwhal nursing and resting while vessel is transiting southbound



ኃይለማርያም ሥላሴ -

▶ፖፕሊከሪክ ሊጋሪ

- Drone footage of narwhal nursing and resting while vessel is transiting southbound  
ᐃᑭᐱᑦᓴᐅᑲᑦ ᖁᑭᕈᑦᓴᐅᑲᑦ ᑕᖁᑦᓴᐅᑲᑦᓴᐅᑲᑦ  
ᖁᑭᐱᑦᓴᐅᑲᑦ ᐳᑲᑲᑦᓴᐅᑲᑦᓴᐅᑲᑦ ᐃᑭᐱᑦᓴᐅᑲᑦ  
ᐅᑭᐱᑦᓴᐅᑲᑦ ᓂᑯᑲᑦᓴᐅᑲᑦᓴᐅᑲᑦᓴᐅᑲᑦᓴᐅᑲᑦ

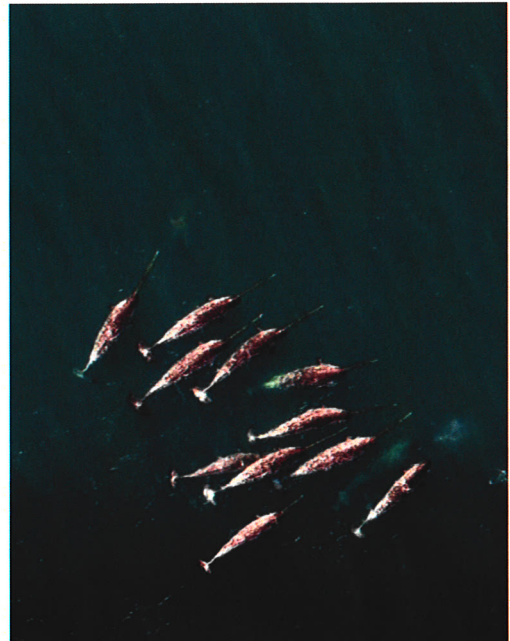
[video]



## Shipping - Summary

[illegible]

- [illegible]



## Shipping - Summary

[illegible]

- Narwhal response to vessel-based underwater noise:  
ᐃᓴᑦ ᖃᕈᕙᑦ ᐅᒃᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ  
ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ
- Is localised and temporary, across regional study area & for duration of shipping season  
ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ  
ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ
- Unlikely to compromise the integrity of the Baffin Bay Population or Eclipse Sound stock  
ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ  
ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ ᐅᑦᑲᑦ





## Shipping - Summary

**▷ፖፕሊከሽን - ልማት፣ፖሊሲ**

- [illegible]



## Shipping - Summary

**▷ፖፕሊከርድ - ሚኒስቴር**

- Follow-up monitoring, with community, to confirm assessment predictions  
ክልተኛው የጥናት ደረጃ ለጥናቱ ምን ዓይነት ምልክቶች እንደሚገኙ ለማረጋገጥ፣ ለጥናቱ ምን ዓይነት ምልክቶች እንደሚገኙ ለማረጋገጥ፣ ለጥናቱ ምን ዓይነት ምልክቶች እንደሚገኙ ለማረጋገጥ፣
- Marine Environmental Working Group, community members and regulators engaged on monitoring findings & adaptive measures  
አገልግሎት ለሕዝቡ ለማረጋገጥ፣ ለጥናቱ ምን ዓይነት ምልክቶች እንደሚገኙ ለማረጋገጥ፣ ለጥናቱ ምን ዓይነት ምልክቶች እንደሚገኙ ለማረጋገጥ፣ ለጥናቱ ምን ዓይነት ምልክቶች እንደሚገኙ ለማረጋገጥ፣





**ᐃᐅᓕᑦᑎᖅᑎᓂᔭ**  
**ᑦᑭᒥᑦᑎᓂᑦᑭᓪ ᓇᐃᓄᑦᑯᒪᖅ**

.....

[illegible][illegible]



Comment Topic / ጉግጥሞች	Related ID's / ደብዳቤዎች
Ballast Water / ልማትና የውሃ አስተዋወካ	QIA-44, MHTO-5e
Marine Environment / ልማትና የአየር ንብረት	QIA-43, PCA-02, MHTO-5d
Shipping/ የጉልበት መጓጓዣ	PCA-04c, PCA-04b, PCA-04a, MHTO-5b, MHTO-5a, MHTO-4c, MHTO-4b, MHTO-4a, DFO 3.4.4 NEW



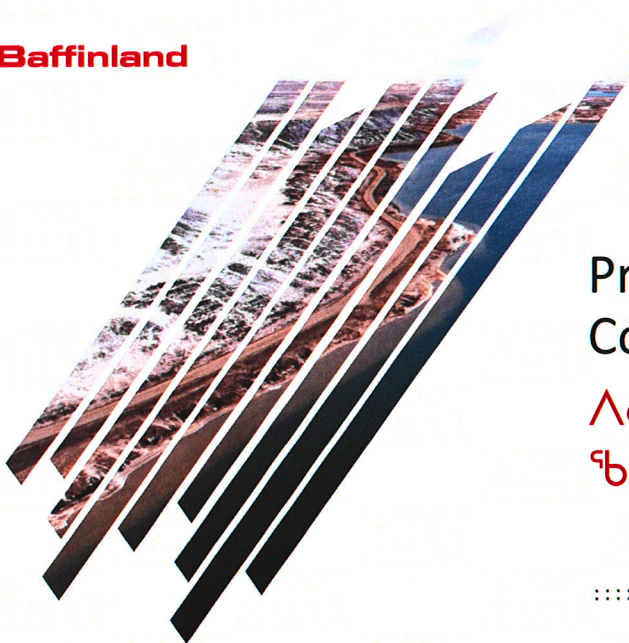
## Marine Environment Key Commitments

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><b>Transit Restrictions During Heavier Ice Conditions</b></li> <li><b>Establishment of Restricted Shipping Areas</b></li> <li><b>Strict Speed Restrictions</b></li> </ul> | <ul style="list-style-type: none"> <li><b>Dust Suppressant and Mitigations at Milne Port and Stockpile</b></li> <li><b>End-of-season Narwhal Entrapment Aerial Surveys</b></li> </ul> |
|--|---|



## Marine Environment Key Commitments ᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ

- Risk-Based Approach for Ballast Water Management and Monitoring  
 ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ
- Monitoring for Early-Warning Indicator  
 ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ
- Ringed Seal Monitoring  
 ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ
- Avoidance of North Water Polynya  
 ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ
- Development of Inuit Stewardship Plan  
 ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ
- QIA approval of Adaptive Management  
 ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ



## Project Certificate Conditions

ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ ᑕᓄᑦᑕᓕᓄᑦ

.....



- General Marine Environment (#76; Remove since completed)  
ርስጋሩ ልዩነት ምልክት (#76; ለኢኮኖሚክስ ስርዓት ማስተካከል)
- Marine Working Group (#77; no change)  
ፈረንሳይ-ሪፖርት ለኢኮኖሚክስ ስርዓት ማስተካከል (#77; ለጥያቄዎች)
- Icebreaking and Shipping (#78-80; Update 78)  
ሶፊያ ሪፖርት ለጥያቄዎች ስርዓት ማስተካከል (#78-80; ማስተካከል 78)
- Shoreline Effects and Sediment Redistribution (#81-85; Remove 81, update 82, Remove 83(a) and 84)  
ሶፊያ ሪፖርት ለጥያቄዎች ስርዓት ማስተካከል (#81-85; ለጥያቄዎች ስርዓት ማስተካከል 82, ለጥያቄዎች ስርዓት ማስተካከል 83(a) ለጥያቄዎች ስርዓት ማስተካከል 84)
- Ballast Water (#86-91; Update 87 & 89; Remove 90 & 91)  
ፈረንሳይ-ሪፖርት ለጥያቄዎች ስርዓት ማስተካከል (#86-91; ማስተካከል 87 & 89; ማስተካከል 90 & 91)
- Spill Prevention (#92-98; Remove #92 & 96)  
ፈረንሳይ-ሪፖርት ለጥያቄዎች ስርዓት ማስተካከል (#92-98; ለጥያቄዎች ስርዓት ማስተካከል #92 & 96)
- Supplemental Baseline Assessments (#99-100; Update #99)  
ፈረንሳይ-ሪፖርት ለጥያቄዎች ስርዓት ማስተካከል (#99-100; ማስተካከል #99)
- Monitoring (#101 ; Update to streamline and reduce repetition)  
ፈረንሳይ-ሪፖርት ለጥያቄዎች ስርዓት ማስተካከል (#101 ; ማስተካከል ለጥያቄዎች ስርዓት ማስተካከል ለጥያቄዎች ስርዓት ማስተካከል)

- [illegible]



ፍጥረትና ሕይወት  
ወይም ፍጥረትና ሕይወት

• • • • •

**ፍልላክ ህጻናትን ያደርጉበት**

- [illegible]





Thank you  
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