

APPENDIX C
2025 Working Group Meeting Records
and Correspondences

APPENDIX C.1
MEWG Meeting Records



January 9, 2024

Marine Environmental Working Group (MEWG) Meeting

Meeting ID: M-01092025
Group / Organization: MEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	Mathias – Chairman MHTO Owen Jaworenko (OJ)
Igloodik Hunter and trappers Organization (IHTO)	none
Sanairajak Hunters and Trappers Organization (HBHTO)	Laimike Ullapak (LU)
Nangmoutaq Hunters and Trappers Organisation (NHTO)	Present – Nysana Qillaq [NQ]
Ikajutit Hunters and Trappers Association (IHTA)	None
Baffinland Iron Mines Corporation (Baffinland)	Cortney Oliver (CO), Lou Kamermans (LK), Lizzie Philips (LP) Translator Jesse Manufor (JM), Matt Weaver(MW) Michael Salomonie (MS) Katie Babin (KB)
Environment and Climate Change Canada (ECCC)	Melissa Pinto (MP), Jessica Kassar (JK) Sarah Forte (SF) Grant Gilchrist (GG)
Qikiqtani Inuit Association (QIA) and Consultants	Bruce Stewart (BS), Jeff Higdon (JH), Andrew Jaworenko (AJ), Amoudla Kootoo (AK) Lindsay Galbraith (LG),
Government of Nunavut (GN)	Natalie D’Souza (ND)
Parks Canada (PC)	Scot Burley (SC), Marie-Claude Martel(MCM) Vincent Marmillot (VM)
Department of Fisheries and Oceans Canada (DFO)	Kimberly Howland (KH), Paul Harper (PH), Nicholas Wasilik (NW), Jose Audet-Lecoutte (JAL), Marianne Marcoux (MM),
Baffinland Consultants	

Organization Name	Participants
WSP Golder	Phil Rouget(PR), Andrea Locke (AL), Patrick Abgrall (PA), Julia Horgan (JH), Trish Tomliens (TT)
CIRNAC	Absent
Observer Organization	
World Wildlife Fund (WWF)	Sam Davin (SD), Devin Holtermann (DH)
Nunavut Impact Review Board (NIRB)	Absent
Canadian Northern Economic Development Agency (CANNOR)	Absent
Oceans North (ON)	Kristin Westdal (KW) Ben Savard (BS)
Transport Canada (TC)	Melissa Guay (MG)
Makivik	Camille Le Gall-Payne (CLP)
Others	

AGENDA

Item	Time	Activity
1	11:00- 11:30	Welcome and Roll Call
2	11:30-12:00	Review Minutes and Action Items
3	12:00-1:00	Lunch Break
4	1:00 – 2:00	Summary of Marine Monitoring Work Completed in 2024 Season (Includes Summary of Program Updates and Implications of Ice Conditions on Field Programs) Q & A
5	2:00 – 3:00	Continuation on 2024 Monitoring
6	3:00 – 3:15	Health Break
7	3:00 – 3:45	2024 Shipping Season Overview
8	3:45 -- 4:30	Overview of 2024 DFO Ballast Water Program Q & A
9	4:30 – 4:45	Update on Terms of Reference (TOR)

SUMMARY OF ACTION ITEMS

Action ID	Responsibility	Item Description	Due Date	Status
M-14062022-04	Daniel Coombs (DFO)	Provide MEWG and TEWG for review the details and report of the sampling program in the Robertson River area.	September 30 th , 2025	Not started – DFO asked to update the due date. QIA is still interested in the report.
M-12122023-09	DFO	DFO to provide aerial survey program results from Steensby Inlet area to the IHTO.	Not specified	Not started. – Clarify this action from the December MEWG minutes where it was actioned.
M-12122023-05	DFO	DFO to find the studies on where narwhal and beluga are located in the winter in the area of the Southern shipping route and provide this information to the MEWG.	Not specified	Not started.
M-12122023-02	DFO	DFO to follow up with IHTO regarding identified calving areas in the Clyde River and Arctic Bay areas	Not specified	Not started.
M-14052024-08	DFO	To meet offline with Andrea Locke (WSP) on the gauge discussion and seek experts within DFO that can provide advice on the issues raised with tidal gauge monitoring.	Not specified	In progress. This has lost some traction, PH (DFO) will follow up with colleagues on this.
M-05062024-03	BIM	To meet with Igloodik to hear their concerns and adjust the mapping for spill modelling if we need to.	Not specified	In progress. BIM has started Steensby engagements.
M-09012025-1	BIM	To organize an interim virtual MEWG in the next 8 weeks to discuss the 5-year monitoring plan for the Northern Shipping Route previously shared in May and June 2024.	End of February or 2 nd week in March	In progress: Planning for this has started, looking at end of February or 2 nd week in March
M-09012025-2	BIM	To confirm the fuel used by vessels when they turn off their scrubber. Whether it is Ultra Low Sulphur Fuel (ULSF) or Marine Gas Oil.	As soon as possible	Completed: The ships use Marine Gas Oil (MGO)

Action ID	Responsibility	Item Description	Due Date	Status
M-09012025-3	QIA	Bruce Stewart QIA to share his thoughts and recommendation on the sedimentation issue in the MEEMP program in an email to Cortney	As soon as possible	Completed – emailed on Feb 28 th , 2025
M-09012025-4	BIM	BIM to hold an information session on the ToR at the same meeting as action M-09012025-1.	End of February or 2 nd week in March	In progress: Planning for this has started, looking at end of February or 2 nd week in March
M-09012025 -5	BIM	BIM committed to provide duration of vessels staging at Ragged Island and proportion of vessels that transited directly to Milne Port compared to those that staged at Ragged Island for the 2024 shipping season. This is to evaluate the risk of hull fouling at Ragged Island.	Not specified	Not started

MEETING MINUTES

The meeting started at 11:00 AM with a welcome and roll call by Cortney Oliver (CO). She informed the members that the day's meeting would focus on the activities and accomplishments of 2024. A roll call followed, with members introducing themselves.

JM (BIM) reviewed the outstanding action points. Key takeaways from this session included:

- While there has been a delay in DFO addressing some of their action items, QIA is interested in receiving the Robertson River Report.
- DFO is uncertain about the action regarding the aerial survey in the Steensby area. This action will be reviewed based on the December 2023 meeting minutes, where it was originally assigned.
- QIA noted that their action item was reported as complete at the June 2024 meeting.
- The action on the tidal gauge has seen little progress. PH (DFO) committed to following up with colleagues.
- BIM has started planning Steensby engagements and will coordinate with Igloodik in the coming weeks.
- It was suggested that action items should be shared with meeting invitations.

Summary of 2024 Marine Monitoring Program – Andrea Locke and Phil Rouget

The Marine Environment Effects Monitoring Program (MEEMP) activities conducted in 2024 were presented by Andrea Locke.

Lunch Break

Questions on the MEEMP Program

- KH (DFO) inquired about the spacing between the two sets of sampling. AL (WSP) clarified that the sampling season in 2024 was shorter than in the previous year. It was not a full period for benthic sampling, but sampling was conducted at the beginning and end of the season, approximately three weeks apart.
- KH (DFO) also asked why no sampling was conducted at Ragged Island. MCM (PC) emphasized the importance of sampling Ragged Island due to concerns about invasive species. AL (WSP) explained that while sampling was planned, safety concerns prevented it. Ragged Island was last sampled two years ago, and there is minimal risk of AIS/NIS as there is no discharge there. BIM vessels adhere to IMO standards, and fewer vessels anchor at Ragged Island compared to Milne Port. However, AL assured that Ragged Island will be considered in future planning with a strong safety plan in place.
- SD (WWF) asked why results were absent from the presentation and whether changes to the sampling plan were planned for 2025. CO clarified that this meeting was to review 2024 activities, and results would be shared in the Spring meeting. SD recommended sediment traps for a more comprehensive understanding of ship-source pollution at Milne Port. AL acknowledged the suggestion but stated it was outside the scope of the MEEMP program. However, water quality monitoring is conducted for Type A water license reporting.

Discussion on Quadrants at Philips Creek

- SF (ECCC) requested additional details on the two missing quadrants at the mouth of Philips Creek. AL (WSP) explained that divers attempted to locate them, but they may have been buried by sediment or moved due to ice breakup. Replacements were not available at the time. Recommendations will be included in the 2024 Annual Report and discussed in the Spring MEWG meeting.
- BS (QIA) urged consideration of SD's (WWF) sedimentation monitoring suggestion, particularly for Steensby Inlet. AL (WSP) stated that changes to methodology are challenging mid-series, but the team will discuss it internally.
- BS (QIA) emphasized the need to determine what happened to the quadrants and explore alternative tracking methods. AL reiterated that sedimentation at Philips Creek is a natural process (spring snowmelt) and not related to the port. BS (QIA) suggested that sedimentation could be linked to the Tote Road project, requiring further investigation.
- CO (BIM) clarified that any sedimentation related to the Tote Road would be detected through BIM's Tote Road monitoring program. She requested BS (QIA) to share recommendations via email. **Action: BS (QIA) to provide recommendations via email.**

Sampling at Ragged Island

- KH (DFO) mentioned that DFO observed vessels staging at Ragged Island for several days. CO (BIM) committed to providing data on the duration of vessel staging at Ragged Island and the proportion of vessels transiting directly to Milne Port versus those staging at Ragged Island. **Action: BIM to provide vessel staging data.**

Marine Mammal Program – Phil Rouget

- DH (WWF) asked about plans for future marine mammal surveys at Steensby and the publication of the shipping route. CO (BIM) confirmed that a draft shipping route had been shared previously and that future monitoring at Steensby was still in the planning phase due to construction delays.
- JH (QIA) inquired about the timeline for the annual report publication. CO (BIM) stated that the timeline would align with previous years, with results shared at an appropriate time.
- JH (QIA) asked if the 2021 ringed seal report had been analyzed and if the 2024 study followed the same design. PR (WSP) clarified that the 2021 survey was conducted by Golder (not LGL), and results would be analyzed alongside the 2024 survey. The study design was the same, except that the 2024 survey included two sampling events.

Planning for 2025

- MM (DFO) inquired about plans for an aerial survey in 2025. CO (BIM) explained that BIM follows a three-year cycle for aerial surveys and acoustic monitoring. The next Leg 2 survey is planned for 2026.
- AK (QIA) noted that April may be too late to plan for aerial surveys and emphasized the importance of involving HTOs. **Action: BIM to organize an interim MEWG meeting within eight weeks to discuss the five-year monitoring plan.**

2024 Shipping Season Overview – Cortney Oliver

- Mathias (MHTO) praised the usefulness of shipping transit information for hunters.
- NQ (NHTO) suggested that other communities should visit Pond Inlet to understand the impact of shipping.

- Sam (WWF) inquired about the fuel used by vessels to ensure compliance. **Action: Confirm the compliant fuel used by vessels.**
- CLP (Makivvik) requested information on discharged water management for the southern route. CO (BIM) noted that BIM would provide more details as Steensby planning progresses.
- LU (HBHTA) asked about ballast water use at Milne Inlet. CO (BIM) confirmed that ballast water is discharged in the deep ocean, 200 nm from shore, and is treated with chlorine to meet D2 standards.

DFO Ballast Water Program – Kim Howland (DFO)

- CO (BIM) thanked Oceans North for funding DFO's monitoring efforts. BS (QIA) appreciated BIM's improved communication and sampling process. KH (DFO) confirmed funding availability for trial monitoring after 2025.

Update on Working Group Terms of Reference (ToR) – Courtney Oliver

- CO (BIM) announced that since April 2024, BIM, QIA, and GoC have worked on refining the enforceability of MEWG recommendations. The ToR is nearly finalized and will be submitted to NIRB before being shared with MEWG for feedback.
- ND (GN) questioned why the ToR was finalized by only three members rather than the full MEWG. CO (BIM) clarified that the Terms and Conditions require consent from BIM, QIA, and GoC. ND (GN) insisted that all members should sign the ToR. ND expressed that the ToR should be agreed to and signed off by all members that are bound by it, not just a few parties. If that has not occurred, the ToR should not bind the entire group. The GN also requested a copy of the ToR that would be submitted to the NIRB be shared with the MEWG and for this to be added by BIM as an action item. BIM declined to add this as an action item during the call and stated they would not be sharing the ToR for further input. CO (BIM) reiterated that concerns should be emailed for discussion.

CO (BIM) thanked everyone and stated that the action items from the meeting would be circulated within a week. The meeting adjourned at 4:55 PM.



ኒጋረ 9, 2024

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5	2:00 – 3:00	ᑕᑎᐅᓂ 2024ᑕᑎ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ
6	3:00 – 3:15	ᑕᑎᐱᑦ ᑕᑎᐱᑦ
7	3:00 – 3:45	2024-ᑕᑎ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ
8	3:45 -- 4:30	ᑕᑎᐱᑦ ᑕᑎᐱᑦ 2024- ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ
9	4:30 – 4:45	ᑕᑎᐱᑦ ᑕᑎᐱᑦ ᑕᑎᐱᑦ (TOR)

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Marine and Terrestrial Environmental Working Group (MEWG) Meeting

Meeting ID: MT-2003025
Group / Organization: MEWG/TEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	Charlie Inurak (CI)
Igloodik Hunter and trappers Organization (IHTO)	None
Sanairajak Hunters and Trappers Organization (HBHTO)	Laimike Ullapak (LU)
Nangmoutaq Hunters and Trappers Organisation (NHTO)	None
Ikajutit Hunters and Trappers Association (IHTA)	None
Baffinland Iron Mines Corporation (Baffinland)	Cortney Oliver (CO), Janet Merkosak (JM) Translator Jesse Manufor (JM), Todd Swenson (TS) Christine Kowbel (CK) Lawyer
Environment and Climate Change Canada (ECCC)	Jessica Kassar (JK) Paul Smith (PS) Jordan Hollman (JH)
Qikiqtani Inuit Association (QIA) and Consultants	Connor Goddard (CG) Lorraine Land (LL)
Government of Nunavut (GN)	Natalie D'Souza (ND) Jennifer Williams (JW)
Parks Canada (PC)	Scot Burley (SC), Marie-Claude Martel(MCM)
Department of Fisheries and Oceans Canada (DFO)	Nicholas Wasilik (NW), Jose Audet-Lecoutte (JAL)
Natural Resources Canada (NRCan)	Clarrise Fiset (CF)
Baffinland Consultants	
WSP Golder	None
Observer Organization	
CIRNAC	Absent
World Wildlife Fund (WWF)	Sam Davin (SD),
Nunavut Impact Review Board (NIRB)	Absent

Organization Name	Participants
Canadian Northern Economic Development Agency (CANNOR)	Absent
Oceans North (ON)	Kristin Westdal (KW) Alex Ootoowark (AO)
Transport Canada (TC)	Adam Downing (AD)
Makivvik	Absent
Others	Colin Kovachik

AGENDA

Item	Time	Activity
1	11:30 – 11:40	Welcome and Roll Call
2	11:40-1:40	Terms of Reference (ToR) a) Overview of TOR b) Confirming Members for 2025 c) Selecting Independent Chair – Process for nominations
3	1:40-1:45	Wrap-up and Next Steps
4	4:30 – 4:45	Update on Terms of Reference (TOR)

SUMMARY OF ACTION ITEMS

ID	Action	Responsible	Status
MT-200325-01	Provide Terms of Reference (ToR) Flowcharts in Inuktitut to HTA members	BIM	Completed. Will provide this on completion.
MT-200325-02	To answer any questions HTA members may have on the translated flowcharts	BIM	When received
MT-200325	To circulate in an email the request for members to submit independent Chair nominations within 60 days.	BIM	Completed. Sent on Mar 20 th .

MEETING MINUTES

CO (BIM) informed members that an AI tool would be piloted, and the meeting would be recorded.

CI (MHTO) requested clarification regarding the meeting, including the definition of membership, as he had just returned from Mary River after participating in the caribou survey with the GN. CO (BIM) welcomed him and Laimike and then handed the meeting over to Christine for an overview of the Terms of Reference (TOR).

Terms of Reference (TOR) Overview – Christine Kowbel

CK (BIM) explained that a meeting was held last spring to discuss and review changes to the TOR. The focus of this meeting would be on the recommendation process, following Figure D7 – MEWG Recommendation Process. Feedback from group members was considered, and a key inclusion was ensuring that recommendations include a justification.

The process begins when a member drafts a recommendation in writing and submits it to the Chair. HTOs may submit recommendations orally, and the Chair will assist in recording them. These recommendations can pertain to mitigation or monitoring. Once received, the Chair circulates the recommendation to all members, who have 30 days to provide comments and input.

Following circulation, BIM has the opportunity to request that a recommendation not proceed if it could impact company operations. The Chair determines whether the recommendation should be considered or revised. If revision is needed, the process restarts. Most recommendations are expected to be reasonable and will proceed accordingly. BIM must respond within 60 days, outlining whether the recommendation is implementable and providing reasons for support or opposition. If BIM supports the recommendation, it becomes a working group recommendation, and BIM will submit a timeline for implementation, reporting to the NIRB.

Once a recommendation becomes a working group recommendation, it is enforceable, meaning BIM must implement it and cannot revoke its commitment. If BIM does not support the recommendation, the Chair will initiate a vote.

CO (BIM) informed HTOs that the flowcharts would be translated into Inuktitut and shared. CI (MHTO) asked how he could seek clarification once the translation was available. CO (BIM) responded that inquiries could be sent via email in either English or Inuktitut.

CK (BIM) stated that a vote would determine whether a recommendation becomes enforceable. If at least 80% of members support it, including BIM, it becomes enforceable since BIM is responsible for implementation. If the originator of a recommendation disagrees with the outcome, they may consult the Chair, who has tools for resolving disputes, including voting and seeking guidance from the NIRB.

CI (MHTO) asked whether changes to recommendations should be directed to the Chair. CK (BIM) confirmed this and added that all recommendations, whether accepted or rejected, would be included in the NIRB annual report.

Questions

CI (MHTO) asked about the timeline for TOR review. CO (BIM) responded that it would be reviewed after two years.

MCM (PC) inquired whether BIM follows the same recommendation process when proposing changes. CK (BIM) asked for clarification, stating that the group's primary function is to review BIM's monitoring results and plans. MCM (PC) then asked whether BIM must submit a recommendation if it seeks to change approved monitoring plans. CK (BIM) explained that the process is not designed for BIM to make recommendations in that way; instead, if concerns arise about monitoring outcomes, members can submit recommendations. The NIRB, not the working group, is responsible for approving plans.

ND (GN) noted that the recommendation process allows BIM to veto recommendations and questioned how time-sensitive recommendations would be handled given the lengthy process. CK (BIM) clarified that the process is based on evidence, discussion, and voting. BIM must be part of the 80% approval because they are responsible for implementation. She disagreed with the term "veto," stating that BIM cannot implement unfeasible recommendations. ND (GN) maintained that BIM has a decisive influence on recommendations within the working group.

ND (GN) also expressed concern about urgent recommendations, referencing section 11.3 of the TOR, which states that BIM and the Chair will update the working group but does not specify how urgent matters are addressed. CK (BIM) responded that the Chair has discretion in urgent cases. Furthermore, entities outside the working group, such as the GN, have regulatory authority and can act independently if needed. ND (GN) acknowledged the response but remained concerned about clarity in urgent situations.

CO (BIM) noted that CI (MHTO) had left the meeting and asked Laimike if he would continue in English, which he agreed to.

ND (GN) reiterated that any discrepancy between the ToR and regulatory obligations under project certificates or legislation, would trump the ToR. CK (BIM) stated that the working group is advisory, not regulatory, and that urgent matters should be addressed through existing government powers rather than the working group.

CO (BIM) emphasized that the ToR is set for two years and encouraged members to participate in the process before making changes. She stressed that the ToR is not rigid and can be revised based on experience.

SD (WWF) commented that WWF, as an observer, shares concerns with the GN about BIM's influence over recommendations and the lengthy process, which could defer actions to other venues. CK (BIM) responded that the working group is one tool, but issues can also be raised with the NIRB.

Confirming Members for 2025 and Nominations for Independent Chair

CO (BIM) outlined membership and participant limits based on section 4.5 of the ToR. Each organization must designate representatives for 2025, with a maximum of two participants per organization (except for QIA, which can designate up to four). These representatives will serve as primary contacts between their organizations and the Chair. Special technical experts can participate as needed.

JW (GN) inquired what the delegates need for them to be designated from their organizations. CO (BIM) clarified that technical experts with decision-making authority should be designated.

CO (BIM) initiated the selection process for an independent Chair, noting that the qualifications are outlined in the appendix. Each organization may submit up to two nominations with written justifications. BIM will review nominations, prepare a shortlist, and conduct a meeting to discuss candidates. Informal interviews or virtual meetings may be arranged before a final vote.

CG (QIA) asked about the nomination timeline. CO (BIM) suggested 60 days but sought input from the group. CG (QIA) proposed finalizing nominations within two months, aiming for completion by the end of the calendar year. CO (BIM) agreed and confirmed a formal request for nominations would be circulated.

LU (HBHTA) asked whether an HTA director or Chair could be nominated. CO (BIM) responded that nominees must be independent of the working group and meet the listed qualifications.

PS (ECCC) asked about the Chair's time commitment. CO (BIM) offered to provide details later but noted that BIM could handle administrative and logistical support. Jordan Hollman (ECCC) stated that 60 days seemed reasonable for internal discussions.

MCM (PC) asked whether ECCC, DFO, and PC share a single nomination vote as part of the Government of Canada (GoC). CK (BIM) clarified that while GoC has one vote, other GoC organizations like PC can submit two nominations each.

CO (BIM) acknowledged a chat comment from Alex Ootoowark about selecting a Chair from Nunavut and encouraged him to include such considerations in their nomination rationales. She reiterated that the 60-day timeline was flexible based on members' needs.

The meeting concluded with CO (BIM) reminding members that the minutes would be circulated, and any comments should be submitted promptly. She emphasized the two-year review cycle and the opportunity for future revisions.

End of Meeting

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4	4:30 – 4:45	ᐱᓐᓂᓂ ᐱᓐᓂᓂ ᐱᓐᓂᓂ ᐱᓐᓂᓂ (TOR)

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Marine Environmental Working Group (MEWG) Meeting

Meeting ID: M-2003025
Group / Organization: MEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	None
Igloodik Hunter and trappers Organization (IHTO)	None
Sanairaijak Hunters and Trappers Organization (HBHTO)	Laimike Ullapak (LU)
Nangmoutaq Hunters and Trappers Organisation (NHTO)	None
Ikajutit Hunters and Trappers Association (IHTA)	None
Baffinland Iron Mines Corporation (Baffinland)	Cortney Oliver (CO), Janet Merkosak (JM1) Translator Joe Tigullaraq (JT) Translator Jesse Manufor (JM), Todd Swenson (TS) Megan Lord-Hoyle (MLH)
Environment and Climate Change Canada (ECCC)	Jessica Kassar (JK) Paul Smith (PS) Jordan Hollman (JH)
Qikiqtani Inuit Association (QIA) and Consultants	Connor Goddard (CG) Bruce Stewart (BS) Lindsay Galbraith (LG)
Government of Nunavut (GN)	Jennifer Williams (JW)
Parks Canada (PC)	Scot Burley (SC), Marie-Claude Martel(MCM)
Department of Fisheries and Oceans Canada (DFO)	Marianne Marcoux (MM) Jose Audet-Lecoutte (JAL) Colin Kovachik (CK),
Natural Resources Canada (NRCan)	Clarrise Fiset (CF)
Baffinland Consultants	
WSP Golder	Andrea Locke (AL) Patrick Abgrall (PA) Phil Rouget (PR)
Observer Organization	

Organization Name	Participants
CIRNAC	Absent
World Wildlife Fund (WWF)	Sam Davin (SD),
Nunavut Impact Review Board (NIRB)	Absent
Canadian Northern Economic Development Agency (CANNOR)	Absent
Oceans North (ON)	Kristin Westdal (KW) Alex Ootoowark (AO)
Transport Canada (TC)	Adam Downing (AD) Jaideep Johar (JJ),
Makivik	Absent
Others	

AGENDA

Item	Time	Activity
1	2:45 – 3:45	Revisiting Baffinland’s 5 year monitoring Plan
2.	3:45 – 4:00	Summary of Actions and wrap-up

SUMMARY OF ACTION ITEMS

Action ID	Responsibility	Item Description	Due Date	Status
M-14062022-04	Daniel Coombs (DFO)	Provide MEWG and TEWG for review the details and report of the sampling program in the Robertson River area.	September 30 th , 2025	Not started – DFO asked to update the due date. QIA is still interested in the report.
M-12122023-09	DFO	DFO to provide aerial survey program results from Steensby Inlet area to the IHTO.	Not specified	Not started. – Clarify this action from the December MEWG minutes where it was actioned.
M-12122023-05	DFO	DFO to find the studies on where narwhal and beluga are located in the winter in the area of the Southern shipping route and provide this information to the MEWG.	Not specified	Not started.
M-12122023-02	DFO	DFO to follow up with IHTO regarding identified calving areas in the Clyde River and Arctic Bay areas	Not specified	Not started.
M-14052024-08	DFO	To meet offline with Andrea Locke (WSP) on the gauge discussion and seek experts within DFO that can provide advice on the issues raised with tidal gauge monitoring.	Not specified	In progress. This has lost some traction, PH (DFO) will follow up with colleagues on this.
M-05062024-03	BIM	To meet with Igloodik to hear their concerns and adjust the mapping for spill modelling if we need to.	Not specified	In progress. BIM has started Steensby engagements.
M-09012025-1	BIM	To organize an interim virtual MEWG in the next 8 weeks to discuss the 5-year monitoring plan for the Northern Shipping Route previously shared in May and June 2024.	End of February or 2 nd week in March	Completed: A virtual meeting was organised on March 20 th .
M-09012025-2	BIM	To confirm the fuel used by vessels when they turn off their scrubber. Whether it is Ultra Low Sulphur Fuel (ULSF) or Marine Gas Oil.	As soon as possible	Completed: The ships use Marine Gas Oil (MGO)

Action ID	Responsibility	Item Description	Due Date	Status
M-09012025-3	QIA	Bruce Stewart QIA to share his thoughts and recommendation on the sedimentation issue in the MEEMP program in an email to Cortney	As soon as possible	Completed – emailed on Feb 28 th , 2025
M-09012025-4	BIM	BIM to hold an information session on the ToR at the same meeting as action M-09012025-1.	End of February or 2 nd week in March	Completed: An adhoc MEWG/TEWG was organised on March 20th
M-09012025 -5	BIM	BIM committed to provide duration of vessels staging at Ragged Island and proportion of vessels that transited directly to Milne Port compared to those that staged at Ragged Island for the 2024 shipping season. This is to evaluate the risk of hull fouling at Ragged Island.	Not specified	In progress

MEETING MINUTES

The meeting began without a roll call, as all attendees were visible on the screen. CO (BIM) confirmed that the meeting would proceed in English unless translation was required. Janet Merkosak was introduced as the interpreter, and participants were invited to request translation if needed.

The primary focus of the meeting was to discuss Baffinland's five-year monitoring plan, first introduced in May and reviewed again in June in Ottawa. Due to low participation in the previous discussion, this meeting aimed to revisit the topic. CO (BIM) thanked stakeholders for their written submissions as well as Environment and Climate Change Canada for confirming they had no comments.

Presentation on the Five-Year Monitoring Plan

Marine Mammal Aerial Survey Program

Patrick Abgrall (WSP) explained that aerial surveys would return to their original three-year cycle, as conducted in 2013, 2016, and 2019. This decision was based on 2023 survey results, which indicated that narwhal abundance levels in Eclipse Sound remained consistent with previous years. Additionally, COSEWIC designated the local narwhal population as "not at risk," recognizing that natural fluctuations in numbers occur. Given this, conducting annual surveys was deemed unnecessary.

Bruce Head Shore-Based Monitoring Program

While aerial surveys will not be conducted annually, the Bruce Head program will continue, providing insight into narwhal abundance, distribution, and group composition. Drones will be used to supplement data collection, particularly for monitoring calf populations. Baffinland will also maintain engagement with local hunters for observational input.

Ship-Based Observer Program

With shipping operations returning to the Early Revenue Phase and fewer vessels operating in Eclipse Sound, icebreakers—previously used for observer deployment—will no longer be required. Instead, the Marine Mammal Observer Network and drone surveillance will be utilized to monitor whale behavior. Baffinland remains open to suggestions for alternative, safe, and effective monitoring methods.

Acoustic Monitoring Program

Acoustic monitoring has been conducted annually for the past six years, providing a strong understanding of underwater noise levels and animal exposure. Since there are no planned increases in shipping for 2025, additional acoustic monitoring is not deemed necessary at this time.

Marine Environmental Effects Monitoring Program (MEEMP) & Non-Indigenous Species (NIS) Monitoring

Andrea Locke (WSP) provided an overview of the MEEMP and NIS/AIS programs, which monitor water and sediment quality, benthic fauna, fish health, and invasive species. The plan remains largely unchanged from 2024. However, sediment quality and benthic infauna sampling follow a three-year cycle, with 60 stations sampled every six years. Due to larger Cape-size ships entering the port, sampling at eight stations near the ore dock will continue annually through 2026.

Discussion on Baseline Year Comparisons

Patrick Abgrall (WSP) emphasized the importance of considering improvements in survey methods over time. In 2004, narwhal population estimates ranged from 9,000 to 37,000, whereas by 2013, improved counting techniques, including aerial photography, allowed for more accurate estimates. When comparing 2004 to 2023 data, there is no statistically significant difference in narwhal abundance.

Additionally, the number of project vessels in the area was relatively low between 2005 and 2012 (20 vessels), compared to 231 non-project vessels. Therefore, attributing narwhal population changes solely to Baffinland's shipping activities does not present a complete picture.

Closing Remarks

CO (BIM) concluded the meeting by outlining the recommendation process. Members have 30 days to submit comments. If further discussion is needed, an additional 30-day period will be provided for final member recommendations (FMR). She thanked participants, translators, and attendees, encouraging anyone with further questions to reach out via email.

The meeting was adjourned

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ᓂᓂᓂᐅᑦ (GN)	ᓂᓂᓂᐅᑦ (JW)
ᓂᓂᓂᐅᑦ ᐃᓂᓂᓂᐅᑦ (PC)	ᓂᓂᓂᐅᑦ (SC), ᓂᓂᓂᐅᑦ (MCM)
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ᑦᑎᓐᑦᑎᓐᑦ ᑲᑲᑦᑎᓐᑦ	
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1	2:45 – 3:45	ᐅᑎᓐᑎᓐᑦ ᑕᑦᑦᑦᑦᑦ ᑕᑦᑎᓐᑦᑎᓐᑦ ᑕᑦᑎᓐᑦᑎᓐᑦ ᑕᑦᑎᓐᑦᑎᓐᑦ
2.	3:45 – 4:00	ᑕᑦᑎᓐᑦᑎᓐᑦ ᑕᑦᑎᓐᑦᑎᓐᑦ ᑕᑦᑎᓐᑦᑎᓐᑦ

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M-14062022-04	ᑕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ (DFO)	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ 30, 2025	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ
M-12122023-09	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ (DFO)	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ
M-12122023-05	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ (DFO)	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ
M-12122023-02	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ (DFO)	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ
M-14052024-08	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ (DFO)	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ	ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ ᐱᓕᓂᐱᓐ

Marine Environmental Working Group (MEWG) Meeting

Meeting ID: M-0807025
Group / Organization: MEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	Jonah Kunnak
Igloodik Hunter and trappers Organization (IHTO)	None
Sanairajak Hunters and Trappers Organization (HBHTO)	Laimike Ullapak (LU)
Nangmoutaq Hunters and Trappers Organisation (NHTO)	Nysana Qillaq (NQ)
Ikajutit Hunters and Trappers Association (IHTA)	None
Baffinland Iron Mines Corporation (Baffinland)	Cortney Oliver (CO), Lizzie Philips (LP) Translator Adriana Safatly (AS) Jesse Manufor (JM), Brad Rasmussen (BR) Andrea Trischuk (AT)
Environment and Climate Change Canada (ECCC)	Jessica Kassar (JK) Melissa Pinto (MP)
Qikiqtani Inuit Association (QIA) and Consultants	Tom Williamson (TW) Bruce Stewart (BS) Lindsay Galbraith (LG) Andrew Jaworenko (AJ) Jeff Higdon (JH) Richard Nesbit (RN)
Government of Nunavut (GN)	Jessica Waldinger (JW)
Parks Canada (PC)	Marie-Claude Martel (MCM)
Department of Fisheries and Oceans Canada (DFO)	Marianne Marcoux (MM) Jose Audet-Lecoutte (JAL) Paul Harper (PH) Nicholas Wasilik (NW) Cory Matthews (CM) Kim Howland (KH)
Natural Resources Canada (NRCan)	None
Baffinland Consultants	
WSP Golder	Andrea Locke (AL)

Organization Name	Participants
	Patrick Abgrall (PA) Phil Rouget (PR) Karisa Petho (KP)
Observer Organization	
CIRNAC	Absent
World Wildlife Fund (WWF)	Sam Davin (SD), Devin Holterman (DH)
Nunavut Impact Review Board (NIRB)	Absent
Canadian Northern Economic Development Agency (CANNOR)	Litia Belanger Taqtu representing Melissa Alexander
Oceans North (ON)	Kristin Westdal (KW) Alex Ootoowark (AO)
Transport Canada (TC)	Adam Downing (AD) Alisa Norman (AN)
Makivvik	Camille LP (CLP)
Others	

AGENDA

Time	Activity	Lead	Materials	Purpose
11:00 – 11:30	Welcome and Roll Call	C. Oliver	N/A	N/A
11:30 – 11:45	Review Minutes and Action Items	J. Manufor	Minutes Action Log	For Approval For Information
11:45-12:45	2024 Marine Environment Annual Monitoring Program Results <i>Questions</i>	P. Abgrall & A. Locke	2024 MEEMP & BH report Marine Program Presentation Deck	For Discussion
2:30 – 2:40	Health Break			
2:40 – 3:40	DFO Program Updates: <ul style="list-style-type: none"> Beluga/Walrus study Narwhal Update Ballast Water Program 	Cory Matthews, M. Marcoux & K. Howland	Presentation	For Discussion
3:40 – 4:00	<i>Summary of Actions and Wrap-Up</i>	C. Oliver	N/A	Discussion



SUMMARY OF ACTION ITEMS

Action ID	Responsibility	Item Description	Due Date	Status
M-14062022-04	Daniel Coombs (DFO)	Provide MEWG and TEWG for review the details and report of the sampling program in the Robertson River area.	September 30 th , 2025	Not started – DFO asked to update the due date. QIA is still interested in the report.
M-12122023-09	DFO	DFO to provide aerial survey program results from Steensby Inlet area to the IHTO.	Not specified	Not started. – Clarify this action from the December MEWG minutes where it was actioned.
M-14052024-08	DFO	To meet offline with Andrea Locke (WSP) on the gauge discussion and seek experts within DFO that can provide advice on the issues raised with tidal gauge monitoring.	Not specified	In progress. This has lost some traction, PH (DFO) will follow up with colleagues on this.
M-05062024-03	BIM	To meet with Igloodik to hear their concerns and adjust the mapping for spill modelling if we need to.	Not specified	In progress. BIM has started Steensby engagements.
M-09012025-1	BIM	To organize an interim virtual MEWG in the next 8 weeks to discuss the 5-year monitoring plan for the Northern Shipping Route previously shared in May and June 2024.	End of February or 2 nd week in March	Completed: A virtual meeting was organised on March 20 th .
M-09012025-2	BIM	To confirm the fuel used by vessels when they turn off their scrubber. Whether it is Ultra Low Sulphur Fuel (ULSF) or Marine Gas Oil.	As soon as possible	Completed: The ships use Marine Gas Oil (MGO)
M-09012025-3	QIA	Bruce Stewart QIA to share his thoughts and recommendation on the sedimentation issue in the MEEMP program in an email to Cortney	As soon as possible	Completed – emailed on Feb 28 th , 2025
M-09012025-4	BIM	BIM to hold an information session on the ToR at the same meeting as action M-09012025-1.	End of February or 2 nd week in March	Completed: An adhoc MEWG/TEWG was organised on March 20 th

Action ID	Responsibility	Item Description	Due Date	Status
M-09012025 - 5	BIM	BIM committed to provide duration of vessels staging at Ragged Island and proportion of vessels that transited directly to Milne Port compared to those that staged at Ragged Island for the 2024 shipping season. This is to evaluate the risk of hull fouling at Ragged Island.	Not specified	Completed – 70 ore carriers called at Milne Port in 2024, 37 vessels anchored at Ragged Island for an average duration of 33.52 h each. This included three vessels that anchored for extended durations in September due to a weather event, and a conveyor breakdown at Milne Port. Excluding these three vessels, the average duration of anchoring at Ragged Island for the remaining 34 vessels was 25.29 h/vessel.
M-08072025- 1	BIM	While BIM does not discharge any waste in the RSA, it was agreed that the language was not comprehensive, and BIM agreed to update description of waste to include - Bilge water, sewage, grey water etc.	Next report	
M-08072025- 2	BIM	BIM/WSP to confirm the number of convoy transits before and during the Bruce Head Program	Next meeting	Completed - Bruce Head surveys ran from 9 Aug to 3 Sept, 2024. 7 convoys occurred before the BH program started and 8 convoys occurred during the BH program.
M-11072025 - 1	BIM	To present or add Steensby spill mitigation measures as part of MEWG Agenda	Next Meeting	Completed - This was attached and sent to the MEWG with the draft minutes on July 22 nd , 2025.
M-11072025- 2	BIM	To include Lindsay Galbraith, Sam Davin and Devin Holterman to the rolling ship schedule	Before shipping season	Completed

Action ID	Responsibility	Item Description	Due Date	Status
M-11072025-3	DFO	DFO to confirm if they have a research vessel around Eclipse Sound.	Not specified	

MEETING MINUTES

Cortney Oliver (BIM) started the meeting by doing a rollcall and asked participants to introduce themselves. This was followed by a call by Jesse Manufor (BIM) for approval of the previous minutes, this was approved unanimously. Members were reminded of an outstanding action seeking expertise or recommendation on Tidal gauge monitoring.

Marine Monitoring Program 2024 Results

- Andrea Locke (WSP) presented results from the 2024 marine monitoring program, covering water quality, sediment quality, benthic infauna, fish community composition, fish health, and tissue chemistry.
- Water and sediment samples showed that all metal and hydrocarbon levels did not go over the acceptable limits. Iron levels remained stable, and hydrocarbons were either absent or below detection limits, particularly near the freight dock.
- Cape-sized vessel monitoring revealed they observed slight seafloor disturbance at some locations. However, diversity and richness of benthic organisms remain consistent with previous years, suggesting no ongoing disturbance or decline.
- Analysis confirmed that conditions are still aligned with predictions made in the Final Environmental Impact Statement (FEIS), and no additional mitigation measures are currently needed.
- The monitoring team marked there was a shift in dominant fish species compared to 2023, specifically higher Arctic sculpin counts, though overall health and tissue samples continued within normal parameters.

Non-Indigenous and Invasive Species (NIS/AIS)

- 54 new taxa were detected this season, a big reason being advances in DNA barcoding and expanded taxonomy reference libraries. Majority were low-risk, with five species precautionarily added to the watch list.
- No species met the criteria for the trigger list, meaning no formal response actions were required under the current framework.
- Andrea Locke and the DFO team confirmed their ongoing collaboration with the University of New Brunswick to verify identifications and update reference data.
- A previously listed polychaete species continues to be under observation, but its current distribution and abundance suggest it is not behaving invasively.

Freight Dock Habitat Offset Monitoring

- Year 5 monitoring has shown the artificial reef structures continue to gradually colonize. Algal coverage and sessile invertebrate presence (such as tunicates and barnacles) are increasing; however, they are still below natural reference habitat levels.
- There was notable variation in colonization rates across transects, possibly due to current flow patterns and sediment accumulation.
- Structural observations noted localized slumping of boulders and some silt build-up in low-energy zones. These issues are not impacting overall dock integrity but will be monitored to prevent erosion or navigational safety risks.

Bruce Head Monitoring Program

- Patrick Abgrall from WSP presented results from 2024 narwhal monitoring under the Bruce Head program, confirming temporary behavioral responses when vessels approached within approximately 2.6 km. On average, narwhals avoided close proximity for about 19 minutes before returning.
- Importantly, narwhal behavior beyond a 3 km range remained stable. Drone and visual observations showed no long-term displacement, and narwhals were still observed resting, foraging, and socializing near vessel routes.
- The 2024 season saw the highest number of narwhal groups observed in the last decade, reinforcing that vessel presence is not currently causing population-level disturbance.
- Key early warning indicators, such as group size and calf-to-adult ratios, remained consistent with prior years.

Questions & Clarifications

- **Cape Size Vessel Sampling:** Bruce Stewart (QIA) asked how many vessels arrived before sampling. **Action:** Andrea Locke responded that none arrived before sampling.
- **Baseline vs. 2023 Comparison:** Marie-Claude Martel (PC) asked why 2023 data was used; Andrea explained differences in baseline methodologies.
- **Bilge Water Discharge:** Bruce Stewart (QIA) asked about discharge practices; Andrea confirmed none in the study area.
- **Regulatory Framework:** Sam Davin (WWF) requested clarification under the Arctic Waters Pollution Prevention Act and discharge of bilge water and sewage. **Action:** While BIM does not discharge any waste in the RSA, it was agreed that the language was not comprehensive, and BIM agreed to update description of waste to include -Bilge water, sewage, grey water etc.
- Bruce Stewart (QIA), asked BIM to confirm the number of conveyors that transited through Bruce Head before and during the Bruce Head monitoring program -**Action.**

DFO Presentation on Walrus, Beluga, Narwhal and Ballast Water

The DFO team comprising of Cory Matthews and Marianne Marcoux made presentations to the MEWG on DFO's current research on Beluga Whales, Walrus and Narwhal. Kim Howland presented on the 2024 Ballast Water program, highlighting the successes and areas for improvement.

Cortney Oliver (BIM), thanked everyone for participating and meeting adjourned to reconvene on July 11th for the second day of meeting.

Jul 11, 2025

Marine Environmental Working Group (MEWG) Meeting

Meeting ID: M-1207025
Group / Organization: MEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	Jonah Kunnak
Igloodik Hunter and trappers Organization (IHTO)	None
Sanairaijak Hunters and Trappers Organization (HBHTO)	None
Nangmoutaq Hunters and Trappers Organisation (NHTO)	None
Ikajutit Hunters and Trappers Association (IHTA)	None
Baffinland Iron Mines Corporation (Baffinland)	Lou Kamermans (LK) Cortney Oliver (CO), Adriana Safatly (AS) Jesse Manufor (JM), Brad Rasmussen (BR) Andrea Trischuk (AT) Megan Lord-Hoyle (MLH) Angie Bischoff (AB) Todd Swenson (TS)
Environment and Climate Change Canada (ECCC)	Jessica Kassar (JK) Melissa Pinto (MP)
Qikiqtani Inuit Association (QIA) and Consultants	Tom Williamson (TW) Bruce Stewart (BS) Lindsay Galbraith (LG) Andrew Jaworenko (AJ) Jeff Higdon (JH) Richard Nesbit (RN)
Government of Nunavut (GN)	Jessica Waldinger (JW)
Parks Canada (PC)	Marie-Claude Martel (MCM)
Department of Fisheries and Oceans Canada (DFO)	Jose Audet-Lecoutte (JAL) Nicholas Wasilik (NW)
Natural Resources Canada (NRCan)	None
Baffinland Consultants	
WSP Golder	Andrea Locke (AL) Patrick Abgrall (PA) Phil Rouget (PR)

Organization Name	Participants
Observer Organization	
CIRNAC	Absent
World Wildlife Fund (WWF)	Devin Holterman (DH)
Nunavut Impact Review Board (NIRB)	Absent
Canadian Northern Economic Development Agency (CANNOR)	Litia Belanger Taqtu rep Melissa Alexander
Oceans North (ON)	Kristin Westdal (KW) Alex Ootoowark (AO)
Transport Canada (TC)	Adam Downing (AD) Alisa Norman (AN)
Makivvik	Camille LP (CLP)
Others	

AGENDA

Time	Activity	Lead	Materials	Purpose
11:00 – 12:00	Steensby Update	C. Oliver	Presentation	For Information
12:00 – 1:00	Lunch break			
1:00 – 2:00	2025 Monitoring Program Plan <i>Questions</i>	P. Abgrall & A. Locke	2025 Program Presentation deck	Discussion
2:00 – 3:00	2025 Shipping Season	C. Oliver	Presentation	For Discussion
3:00 – 3:30	Summary of Actions and Wrap Up	C. Oliver	N/A	N/A

MEETING MINUTES

Cortney Oliver (BIM) started the meeting with a rollcall and asked participants to introduce themselves.

Steensby Update

Lou Kamermans (BIM) presented to the group Baffinland’s ongoing work at Steensby.

- Reviewed historical marine environment data dating back to 2006, including IQ, land use studies, and baseline surveys.
- Post-approval monitoring and permitting largely completed by 2023; focus now on project certificate requirements and pre-construction activities for the Steensby component (earliest construction expected in 2026).
- Ringed Seal Aerial Survey Report (2021 & 2024) under preparation; to be included in 2025 NIRB Annual Report.

- Bathymetric Data Mapping continues to fill gaps along the shipping route (Hudson Strait to Fox Basin) to ensure vessel safety.
- Spill Modeling: Four priority locations identified (Steensby Port, Mill Islands, and two other sensitive areas) with scenarios to refine spill response plans. Updated spill response plans will be circulated for comments before finalization.
- Community Engagement: Planned for fall 2026 in Igloolik and Sanirajak.

Questions and Comments

- Tom Williamson (QIA) expressed interest in attending the oil pollution prevention training and will confirm with his supervisor regarding availability and approval. Todd Swenson (BIM) informed him that the training has been done for 2025.
- Camille LP (Makivvik) requested for a dedicated presentation or memo summarizing prevention and response measures. **Action:** Lou agreed to share this before the next MEWG meeting
- Bruce Stewart (QIA) asked how 2025 baseline studies will align with older (2007–2009) designs. Lou confirmed lessons from northern programs will be incorporated and regional partnerships prioritized.
- Bruce Stewart (QIA) and Camille LP (Makivvik) asked how the spill modeling locations were confirmed. Phil Rouget (WSP) explained that the locations were chosen based on project certificate terms and IQ. He expressed that community feedback may refine future modeling.
- José Audet-Lecouffe (DFO) emphasized the need for coordination with DFO for future Steensby sampling protocols. Lou confirmed commitment to collaborate.

2025 Marine Monitoring Programs (Andrea Locke and Patrick Agbrall)

Marine Environment Effects Monitoring Program (MEEMP) July 23 – August 13, 2025

- Andrea Locke confirmed that the 2025 program will mirror the 2024 activities, excluding freight dock habitat monitoring. This ensures data continuity while adapting to field conditions such as weather impacts, shifting substrate, or access challenges.
- Potable quadrats will be used for the two benthic quadrats that were lost in 2023. Feedback from field teams will be collected to evaluate how portable quadrats are performing in comparison to permanent ones, particularly in areas with limited visibility or dynamic currents.
- She confirmed that no environmental sampling will take place at Ragged Island in 2025 due to safety concerns stemming from difficult currents, logistical access constraints and no concerns of AIS/NIS based on the current monitoring at Milne Port.

Bruce Head Monitoring Program August 6 to September 3 2025

- Narwhal monitoring will again involve a combination of drone (UAV) surveillance and visual observations to document group behavior, movement, and interactions with nearby vessels.

- There is no anticipated changes in survey design or data analysis approaches for this upcoming field season.

Questions and Comments

- Members stressed that Ragged Island location remains environmentally significant and should not be overlooked in future planning. BIM was asked to revisit the previous action M-09012025 that was made to collect information on average vessel staging durations at Ragged Island to assess potential biofouling risk, even in the absence of active sampling -**Action**
- BIM asked the DFO team if they have a vessel around Eclipse Sound. DFO responded that they will get back on the question -**Action**

2024 Shipping Season Recap and 2025 Overview

- The 2024 shipping season involved 74 carrier transits, with no major incidents or regulatory concerns reported.
- The group reviewed logistical improvements and noted enhanced coordination between vessels, the operations team, and local communities.
- The 2025 shipping season will start between July 30th to Aug 2nd pending ice conditions and 50 ore carriers are expected to call at Milne Port.

Comments

- Three individuals—Lindsay Galbraith, Sam Davin and Devin Holterman expressed interest to be added to the rolling shipping schedule distribution - **Action**
- Members emphasized the importance of maintaining clear and timely communication with all shipping partners, particularly in the event of route deviations or schedule shifts.

Other business

Cortney Oliver (BIM) will follow up with identified Independent Chair nominees to confirm their interest and availability. And subsequently circulate their resumes and qualifications for the MEWG to review and provide feedback prior to selecting a final facilitator.

She thanked everyone for their continued interest and participation and the meeting was adjourned.



ᔨᓕᐃ 08, 2025

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1:00 – 2:00	2025-ᑕᓂ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ	ᐸᓂᓪᐸ ᐸᓂᓪᐸ (PA) ᐸᓂᓪᐸ ᐸᓂᓪᐸ (AL)	2025-ᑕᓂ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ	ᐸᓂᓪᐸ ᐸᓂᓪᐸ ᐸᓂᓪᐸ
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Marine Environmental Working Group (MEWG) Meeting – November 17, 2025

Meeting ID: M-1117025
Group / Organization: MEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	Elisha Kasarnak (EK)
Iglolik Hunter and trappers Organization (IHTO)	Seemee Qamaniq (SQ)
Sanirajak Hunters and Trappers Organization (HBHTO)	None
Nangmoutaq Hunters and Trappers Organisation (NHTO)	None
Ikajutit Hunters and Trappers Association (IHTA)	None
Baffinland Iron Mines Corporation (Baffinland)	Cortney Oliver (CO), William Bowden (WB) Todd Swenson (TS) Jesse Manufor (JM), Brad Rasmussen (BR) Andrea Trischuk (AT) Paige Glenn (PG) Tarek Ghadie (TG) Tabitha Kasarnak (TK)
Translators/Interpreters	Gela Naqica (GN) Rhoda Katsak (RK)
Environment and Climate Change Canada (ECCC)	Jessica Kassar (JK) Grant Gilchrist (GG) Jennifer Sabourin (JS) Sarah Forte (SF)
Qikiqtani Inuit Association (QIA) and Consultants	Amoudla Kootoo (AK) Bruce Stewart (BS) Lindsay Galbraith (LG) Jeff Higdon (JH)
Government of Nunavut (GN)	Jessica Waldinger (JW)
Parks Canada (PC)	Marie-Claude Martel (MCM) Vincent Marmillot (VM)
Department of Fisheries and Oceans Canada (DFO)	Jose Audet-Lecoutte (JAL) Paul Harper (PH)

Organization Name	Participants
	Kim Howland (KH)
Makivvik	Andrew Dumbrille (AD)
Natural Resources Canada (NRCan)	None
Baffinland Consultants	
WSP Golder	Andrea Locke (AL) Patrick Abgrall (PA) Phil Rouget (PR) Julia Horgan (JH) Mitch Firman (MF) Tannis Thomas (TT) Sima Usvyatsov (SU)
Observer Organization	
CIRNAC	Absent
World Wildlife Fund (WWF)	Sam Davin (SD) Devin Holterman (DH)
Nunavut Impact Review Board (NIRB)	Absent
Canadian Northern Economic Development Agency (CANNOR)	Aminul Haque (AH) Alexie Baillargeon (AB)
Oceans North (ON)	None
Transport Canada (TC)	None
Others	

AGENDA

Time	Activity	Lead	Materials	Purpose
10:00 – 10:30	Welcome and Roll Call Welcome Kinngait and Kimmirut	C. Oliver	N/A	N/A
10:30 – 11:00	Review Minutes and Action Items	J. Manufor	Minutes Action Log	For Approval For Information
11:00 – 12:00	Summary of Marine Monitoring Work completed in 2025 – MEEMP Q & A	A. Locke (WSP)	Presentation	For Discussion
12:00 – 1:00	Lunch Break			
1:00 – 2:00	Summary of Marine Monitoring Work completed in 2025 – Bruce Head	P. Abgrall & A. Locke (WSP)	Presentation	For Discussion

	Q & A			
2:00 – 2:30	2025 Shipping Season Overview Q & A	C. Oliver	Presentation	For Discussion
2:30 – 2:45	Health Break			
2:45 – 3:30	ECCC Seabird Study Preliminary Results Q & A	G. Grant (ECCC)	Presentation	For Discussion
3:30 – 3:45	Summary and Meeting Wrap-up	C. Oliver	N/A	

SUMMARY OF ACTION ITEMS

Action ID	Responsibility	Item Description	Due Date	Status
M-14062022-04	Daniel Coombs (DFO)	Provide MEWG and TEWG the report of the sampling program in the Robertson River area.	September 30 th , 2025	Not started – DFO requested an updated due date. QIA remains interested in the report.
M-14052024-08	DFO	To meet offline with Andrea Locke (WSP) about the tidal gauge discussion and seek experts within DFO to provide advice on issues raised regarding tidal gauge monitoring.	Not specified	Completed. DFO organised a meeting between BIM and Canadian Hydrological Services (CHS). Baffinland is following up with conversations with CHS.
M-05062024-03	BIM	To meet with Igloodik to hear their concerns and adjust spill modelling if needed.	Not specified	In progress. BIM has started Steensby engagements. Meetings were held the week of Nov 17 th , 2025.
M-11072025-3	DFO	DFO to confirm if they have a research vessel around Eclipse Sound.	Not specified	
M-11172025-1	BIM	BIM to explore the use of sediment traps for the MEEMP program. Rationale: WWF suggested that sediment traps may provide more accurate results than relying on the top 5cm of grab samples.	Before next meeting	
M-11172025-2	BIM/WSP	BIM/WSP to confirm data availability to compare all 5-baseline ringed seal survey years (2006, 2007, 2008, 2021 and 2024)	BIM/WSP to confirm data availability for this comparison.	
M-11172025-3	BIM	ECCC requested early access to final Annual reports to allow sufficient review.	As soon as possible	
M-11182025-1	BIM	Baffinland to organise a meeting with HTOs on the Independent Chair Process ahead of	As soon as possible	Completed. A meeting was held with the HTOs on Dec 2 nd .

Action ID	Responsibility	Item Description	Due Date	Status
		January virtual meeting to ensure Boards are set-up to vote on a Chair.		
M-11182025-2	BIM	Baffinland to set up a virtual meeting to meet with Independent Chair candidates in the 2 nd week of January, 2026. As requested by members.	2 nd week in January, 2026	In progress
M-11182025-3	BIM	Baffinland will have dedicated engagement with the HTOs (Igloolik, Kimmirut and Kinngait) and Makivvik corporation to discuss the spill modelling work.		
M-11182025-4	BIM	BIM to revise the memo on rationale to amend 5-year monitoring plan following Parks Canada’s clarification on hydrophone deployment in the TINMCA.	As soon as possible	Completed. This was recirculated on Nov 18 th .

MEETING MINUTES

Welcome and Opening Remarks

Cortney Oliver (BIM) opened the meeting and conducted a roll call. Members were reminded of completed follow-up actions, including the Steensby spill mitigation measures that was circulated on July 22nd with the draft 42 MEWG minutes and BIM thanked DFO for completing their action item by organising the meeting with Canadian Hydrological Services regarding tidal gauge monitoring that occurred on October 7th, 2025.

1. Summary of Marine Monitoring Work Completed in 2025 – Marine Environmental Effects Monitoring Program (MEEMP). Presented by Andrea Locke (WSP)

Andrea Locke (WSP) presented a summary of the marine environmental monitoring programs conducted in 2025 as part of the Marine Environmental Effects Monitoring Program (MEEMP) and the Non-Indigenous and Aquatic Invasive Species (NIS/AIS) program. These programs include eight main components: marine water quality, marine sediment quality, benthic infauna, macroflora and epifauna, fish community, fish health and tissue chemistry, and NIS/AIS monitoring. Some programs, such as tide gauge monitoring, are currently being reviewed and redeveloped to improve scientific certainty. Monitoring activities were carried out at Milne Port and nearby reference areas using established methods and sampling frequencies.

Marine water quality monitoring was conducted through five sampling events during the summer of 2025, timed where possible to coincide with active discharges from holding ponds. Preliminary results indicate that water

quality conditions are consistent with findings from 2017–2025. All measured parameters were within applicable guidelines, with the exception of one chromium result that slightly exceeded guidelines. Iron concentrations continued a decreasing trend observed in recent years, dissolved iron was below detection limits in all samples, and no hydrocarbons were detected. Marine sediment quality and benthic infauna monitoring were conducted under a reduced sampling program, as these components operate on a three-year cycle due to the absence of previously identified adverse effects. Eight stations near the ore dock were sampled to assess potential effects associated with larger ore vessels, such as propeller wash.

Additional monitoring included scuba-based surveys of macroalgae and benthic epifauna, with 26 quadrats (including 2 quadrats near the mouth of Philips Creek that could not be located in 2024 and were replaced during the open water season of 2025 i.e. temporary quadrats) sampled across Milne Port and a reference area. Fish community sampling involved 97 sampling events, resulting in 615 fish representing 11 taxa, with Arctic char making up 24 percent of the catch. Fish health and tissue chemistry programs focused on horn sculpin, rock bore clams, and Arctic char, with samples collected for body condition, metals, and PAH analysis; laboratory results are still pending. NIS/AIS monitoring involved screening all collected species against known invasive species lists and reviewing new species records for distribution and origin. Targeted programs also included zooplankton sampling, settlement plate monitoring for species identification and DNA analysis, and additional benthic samples preserved for genetic work. Together, these activities provide a comprehensive overview of marine environmental conditions in 2025, with further results expected when laboratory analyses are completed.

Questions & Comments

Andrew Dumbrille (Makivvik): Requested clarification on release timelines for the monitoring results. **Response:** Cortney Oliver (BIM) explained the reporting cycle: preliminary results in fall; final results in spring; published in the NIRB Annual Report with intervener comments.

Andrew Dumbrille (Makivvik): asked for clarifications on where contaminants might be coming from if they are detected. **Response:** Andrea Locke (WSP) clarified that any contaminant would be detected through water-quality and marine-sediment sampling. If Non-Indigenous Species (NIS) were present, they would be observed on the settlement plates. She also noted that ships do not discharge anything other than treated ballast water, and that DFO is currently conducting a program that actively samples ballast water prior to discharge. Kim Howland (DFO) added that DFO has been sampling ballast water and has found viable propagules in some of the discharges. She pointed out that it is potentially feasible to do similar tests along with the salinity tests that BIM currently does using compliance testing devices as a more rapid testing approach. In response, Cortney Oliver (BIM) highlighted that, according to DFO's preliminary results, the number of organisms detected was lower than levels observed at other Canadian ports. Kim Howland (DFO) agreed with this clarification.

Sam Davin (WWF): Recommended deploying sediment traps to obtain more precise sedimentation data. **Response:** Cortney Oliver (BIM) noted risk of loss but agreed to review feasibility. **(Action M-11172025-1)**

Seemee Qamaniq (Igloodik HTA): Emphasized importance of local knowledge when placing sampling devices. **Response:** Andrea Locke (WSP) stated that Baffinland has been working with Inuit on the environmental sampling team. Members of this team have been very helpful as they informed the location of the reference areas. He

further asked what determines the number of fish that are caught and sent for analysis. **Response:** Andrea Locke (WSP) explained that an established scientific protocol outlines the number of samples to be collected.

2. Bruce Head Monitoring Program - Patrick Abgrall (WSP)

Patrick Abgrall (WSP) provided an overview of the 2025 Bruce Head shore-based monitoring program, noting that the presentation focused on what data were collected and how the program was carried out, rather than final results. The field program ran for approximately four weeks, from August 8 to August 31, with some adjustments due to weather and ice conditions that limited water access and required the team to leave slightly early. About 15 staff lived at the Bruce Head camp during this period. Patrick highlighted how the observation infrastructure has improved significantly over the years, including a sheltered observation platform and a designated drone launch area, which now allow for safer, more consistent, and higher-quality data collection under challenging Arctic conditions.

The monitoring program relies on several complementary data sources. Visual observations are conducted from the shore using binoculars to record narwhal numbers, locations, group composition, and behaviour across 28 defined sub-areas of the study area. These surveys are typically completed hourly and intensified when vessels pass through the area to understand how narwhal distribution changes in the presence or absence of ships. Observers also record vessel traffic using AIS data from both satellite and shore-based receivers, including systems accessible to community members in Pond Inlet. In addition, weather conditions and other human activities, such as hunting or tourism vessels, are documented because they can influence both narwhal behaviour and observation quality.

Patrick also described the growing role of drones in the program. In 2025, 107 drone-based focal follow surveys were completed, bringing the total number of drone surveys to 642 since the program began. These surveys allow researchers to closely examine narwhal behaviour, group structure, movement patterns, and mother-calf interactions, including nursing, at distances farther from the observation station and closer to vessel routes. This information feeds into the program's Early Warning Indicator (EWI), which tracks changes in the proportion of juveniles and calves over time. While full analysis is still underway and results will be presented in spring meetings, Patrick emphasized that combining visual observations, drone data, and vessel tracking provides a robust and evolving understanding of narwhal presence and behaviour in the Bruce Head area.

Questions and Answers

Devin Holterman (WWF-Canada) asked for clarification on what is meant by a "focal follow" in the drone monitoring program. Specifically, he wanted to know whether each drone outing counts as one survey and whether the reported 107 focal follow surveys represent 107 individual drone flights or something else. **Response:** Patrick Abgrall (WSP) explained that a focal follow refers to the tracking of a single, identifiable group of narwhals using a drone. A focal follow ends if the animals dive for a prolonged period and can no longer be confirmed as the same group, or if battery life or weather conditions require the drone to return. If there is enough battery time remaining, the same drone flight may include a second focal follow on a different group. He confirmed that the 107 focal follows represent 107 different narwhal groups, not 107 drone flights. The length of each focal follow

varies widely, ranging from a few minutes to up to 15–20 minutes, depending on animal behaviour, visibility, and operating conditions.

Lindsay Galbraith (QIA): asked if BIM could provide the number of surveys per year over time, as it would be useful to see that level of effort on actual numbers without having to go back to all of the annual reports. She further asked how differing methodologies (shore-based vs. drone) are handled for EWI. **Response:** Patrick Abgrall (WSP) responded that observation data at Bruce Head vary with hunting and visibility. However, drone imagery ensures enough data availability. Hence, both datasets remain separate but are analyzed together. On the number of surveys, it is reported for each year in the respective annual report.

Lindsay Galbraith (QIA): Asked the range of focal follow length in addition to the survey effort. **Response:** Patrick Abgrall (WSP) explained that this information is presented in the various annual reports, but the 2025 data is still being analyzed. Cortney Oliver (BIM) added that all Baffinland's monitoring reports are available on Baffinland's website.

3. Ringed Seal Program – Patrick Abgrall (WSP)

Patrick Abgrall (WSP) presented an overview of the methodology and results from the 2021 and 2024 Steensby Ringed Seal supplementary baseline aerial survey program, noting that the 2024 work was only recently finalized and therefore is being presented now. The surveys were conducted to update and supplement earlier baseline data collected in 2006–2008, addressing the long gap in information and supporting regulatory requirements related to future shipping activities. Surveys were carried out in early June, when ringed seals are most visible on the ice, using a single aircraft based out of the Mary River Mine site. The work followed Fisheries and Oceans Canada survey protocols and relied entirely on infrared and digital photographic imagery rather than visual observers.

The surveys covered two areas: the Steensby Inlet shipping corridor and a control area at Tasiujaq, allowing comparisons between a future shipping area and a location without shipping influence. Infrared imagery was first used to detect heat signatures on the ice, which were then verified using conventional digital photographs to confirm the presence of ringed seals and distinguish them from other heat sources. Results showed clear year-to-year variation in seal densities in both areas. In Steensby Inlet, estimated densities declined from about 0.9 seals per square kilometre in 2021 to about 0.5 in 2024, while similar declines were observed in the control area. These values fall within the range observed in earlier surveys, reinforcing that interannual variability is a normal feature of ringed seal distribution.

He also highlighted that changes were observed not only in overall density but in the spatial distribution of seals. Hotspot analyses showed that the locations where seals were most likely to be found shifted between years, with relatively low overlap in hotspots in Steensby Inlet compared to greater consistency in the control area. This variability likely reflects changing environmental conditions such as prey availability or ice conditions. Together, the findings provide an important baseline for understanding natural variability and will help inform future monitoring and mitigation once shipping begins. The presentation concluded with an overview of community

participation, noting increasing involvement from multiple communities in monitoring roles as programs expand in the Steensby area.

Questions & Comments

Lindsay Galbraith (QIA): stated that she has two questions. First, I heard you say that there will be a survey when shipping starts for ringed seal. That would be the next survey, so there's no other pre shipping surveys planned. Is that correct? And, it sounds like you might not have that plan yet, but when do you think that survey might take place for Steensby? Second, how does environmental variability like weather conditions and ice affect survey results. **Response:** On the first question, Cortney Oliver (BIM) explained that the goal of the ringed seal survey was to update some of the baseline that was collected in the early 2000s – 2006 and 2008. So, the commitment TC 119 was to get two years of supplemental baseline study which we have done. As far as future monitoring plans, Baffinland indicated that they do not have timelines that can be shared, but that they are across the project certificate on what needs to be done and what needs to be updated. And that the working group is the avenue to share that information when it is complete. Patrick Abgrall (WSP) in answering the second question explained that weather strongly affects seal haul-out; and that the surveys were not conducted consecutively due to weather limitations.

Paul Harper (DFO): Noted that, based on the 2021 and 2024 ringed seal programs, it is difficult to assess trends using only two sampling years spaced apart. He added that the project's terms and conditions indicate that baseline data should include at least two years of sampling prior to icebreaking. **Response:** Patrick Abgrall (WSP) clarified that the 2021 and 2024 ringed seal surveys were used to update the 2006–2008 baseline dataset. The DFO team requested a five-year comparison to fully address questions regarding area use and hotspots. Baffinland agreed to confirm the availability of the raw baseline data from 2006, 2007, and 2008 to support this analysis (**Action M-11172025-2**).

Sam Davin (WWF) asked for clarification on whether there is a formally defined southern Regional Study Area (RSA), given the area selected for the ringed seal survey. **Response:** Cortney Oliver (BIM) clarified that the RSA is defined in the 2012 Final Environmental Impact Statement (FEIS) and includes Hudson Strait. However, the map presented reflected only the ringed seal study area, not the full RSA. It was also noted that there will be opportunities to conduct aerial surveys to supplement baseline data in Hudson Strait

Paul Harper (DFO): Requested more review time for annual reports to ensure a more robust discussion. **Response:** Cortney Oliver (BIM) noted the comment and will share documents earlier where possible. (**Action M-11172025-3**)

4. Review of the 2025 Shipping Season - Cortney Oliver (BIM)

Cortney Oliver (BIM) provided an overview of the 2025 shipping season, highlighting that it began on July 29 and ended earlier than in previous years, on October 9. The season lasted 73 days and benefited from open-water conditions at both the start and end, with no need for icebreaking support. In total, 49 ore carriers operated during the season, including a mix of Capesize, Baby Cape, and primarily Panamax vessels, along with six resupply vessels and fuel tankers. Twelve convoys were used opportunistically to help reduce underwater noise exposure. The first

convoy passed Pond Inlet just before midnight on July 29, and the final convoy departed on October 9. Overall, the season was described as smooth and successful, particularly from a safety and ice-management perspective.

She also summarized community communications and compliance measures during the season. Annual pre-shipment meetings were held with the Hamlet of Pond Inlet and the Mittimatalik Hunters and Trappers Organization, along with advance flow-edge confirmation and distribution of 72-hour and 24-hour shipping notices. 14 shipping monitors were hired to provide round-the-clock coverage, share vessel tracking information with the community, and post regular updates through Facebook, VHF announcements, and rolling schedules. While 18 minor deviations were recorded—mostly related to route adjustments for ice or vessel passing, and two speed-related incidents—these were addressed through established reporting and safety protocols. Overall community feedback declined compared to previous years, suggesting fewer concerns or questions, and Cortney noted that the season was considered very successful from an operational and safety standpoint.

Question and comments

Andrew Dumbrille (Makivvik): Asked why vessels started later this season. **Response:** Cortney Oliver (BIM) explained that lower shipping tonnage allowed more flexible scheduling; operations began once conditions were suitable.

Andrew Dumbrille (Makivvik) asked for clarification on whether all commitments made in the North would also apply to the South. **Response:** Cortney Oliver (BIM) explained that terms and conditions are reported in the annual report. She clarified that if a requirement pertains to the South—and Baffinland is not currently operating there—it will not be reported on. Commitments related to Steensby, once operational, are clearly outlined in the Project Certificate.

Sam Davin (WWF-Canada) asked clarification around Milne Port and the northern route once Steensby is operational. He stated that going back to the Project Description, it states that once Steensby Port is operational, Milne Port will only be used occasionally for the delivery of oversized equipment for the mine site. To me, that seems quite explicit that there would not be regular shipping to Milne Port. **Response:** Cortney Oliver (BIM) clarified that there could still be shipments such as freight, fuel, or heavy equipment.

Sam Davin (WWF-Canada) further asked if there could be a breakdown of ship transits to and from the northern route, particularly how the convoys are structured and how often they are used. He asked about the status of discussions with Transport Canada and other government entities on whether this is how operations will proceed, or if the matter is still under discussion. **Response:** Cortney Oliver (BIM) replied that the dialogue is still ongoing.

Marie-Claude Martel (Parks Canada) asked how many tonnes of ore Baffinland shipped this summer and whether any ore remains on the ore dock for next year. **Response:** Cortney Oliver (BIM) stated that Baffinland shipped 4.5 million tonnes wet weight as Baffinland reports in wet weight because that is the number we have early. The dry weight will be about 4.3 million tonnes which is what is used for sales. She added that ore remains on the ore pad, but she can't confirm the exact quantity.

Seemee Qamaniq (Igloodik HTA) asked whether ships operating in the region have their hulls cleaned before entering Inuit waters and how hull fouling is managed. A discussion ensued, with different persons making comments. **Response:** Andrea Locke (WSP) explained that vessels are not cleaned before each arrival; instead,

hull maintenance and anti-fouling practices are governed by International Maritime Organization (IMO) guidelines. Ships apply approved anti-fouling coatings, keep records, and are typically cleaned during scheduled dry-dock periods, primarily for efficiency and fuel performance, rather than in response to project-specific or Canadian regulatory requirements.

Andrew Dumbrille (Makivvik) clarified that IMO and Transport Canada hull-fouling guidelines are voluntary rather than mandatory. He questioned whether Baffinland vessels are required to follow these guidelines and how compliance is verified. Andrea Locke (WSP) explained that Baffinland conducts due diligence at the shipping company level—reviewing company practices and expectations—rather than inspecting every individual vessel before arrival. Transport Canada follows IMO guidance, with regulations focused mainly on the toxicity of hull coatings rather than mandatory cleaning schedules.

The conversation concluded with agreement that hulls are generally cleaned during dry-dock periods, typically within a five-year cycle. Cortney Oliver (BIM) emphasized that Baffinland issues a standing instruction to all vessels annually and expects chartered vessels to align with IMO and Transport Canada guidance.

5. ECCC Seabird Study – Preliminary Results - Grant Gilchrist (ECCC)

Grant Gilchrist presented an overview of a long-standing, multi-phase seabird research collaboration directly linked to the Baffinland project, focused primarily on Thick-billed Murres (Akpa). The research evolved alongside changes in shipping routes, initially concentrating on the southern route, shifting to the northern route, and now returning to the south while building on earlier baseline data. The collaboration emerged from Marine Working Group discussions and information gaps identified by the Nunavut Impact Review Board, particularly around where seabirds occur, when they are present, and how they may interact with shipping. Environment and Climate Change Canada leads the research with academic partners, while Baffinland provides financial support that is leveraged with external grants. Importantly, the research is conducted at arm's length, with results published in peer-reviewed literature and used to inform marine spatial planning and mitigation discussions. Advanced tracking technologies, cliff-based fieldwork supported by professional climbers, and long-term data collection allow the team to generate robust, repeatable datasets that establish defensible baselines on seabird movements, foraging behaviour, and habitat use across seasons and years.

The presentation highlighted detailed findings from Cape Graham Moore and other key colonies, showing how murres' movements vary by breeding stage, sea ice conditions, and oceanography, and how these factors influence potential overlap with shipping routes. Tracking data demonstrate consistent northeast foraging patterns during incubation, shorter trips during chick rearing, and rapid seasonal migration through Hudson Strait, suggesting that periods of highest vulnerability to shipping may be brief but variable across years. The work also integrates satellite ice data, vessel traffic information, and Indigenous knowledge, while supporting graduate students and postdoctoral researchers who drive much of the analytical work. Looking ahead, the team plans expanded research across northern Hudson Bay, Hudson Strait, Baffin Island, and northern Quebec, alongside Inuit-led field training programs that build local capacity and pathways into environmental monitoring careers. Gilchrist emphasized that climate-driven sea ice loss is likely to keep seabirds in northern waters for longer periods

in the future, potentially increasing interactions with shipping, underscoring the importance of sustained, collaborative, long-term research to inform adaptive management and mitigation.

Question and comments

Seemee (Igloolik HTA) asked about polar bear management and Inuit involvement in the program. **Response:** Grant Gilchrist (ECCC) clarified that majority of field staff are Inuit and camps use polar bear fencing.

Closing

Cortney Oliver (BIM) provided a summary of action items from the meeting – investigation of sediment traps as suggested by Sam Davin (WWF), an analysis of the 5 years of ringed seal baseline data a request from DFO and Paul Harper (DFO) request for timely circulation of report for more review time. She thanked everyone for attending the first day of the meeting. The meeting was adjourned to the next day November, 18, 2025

Marine Environmental Working Group (MEWG) Meeting – November 18, 2025

Meeting ID: M-1118025
Group / Organization: MEWG Members and Observers, Baffinland and Consultants
Meeting Location: Conference Call
Meeting Chair: Cortney Oliver

Organization Name	Participants
Member Organization	
Mittimatalik Hunters and Trappers Organization (MHTO)	Elisha Kasarnak
Iglolik Hunter and trappers Organization (IHTO)	Seemee Qamaniq
Sanirajak Hunters and Trappers Organization (HBHTO)	Laimiki Ulluapak
Nangmoutaq Hunters and Trappers Organisation (NHTO)	None
Ikajutit Hunters and Trappers Association (IHTA)	Kunnak Enoogoo
Baffinland Iron Mines Corporation (Baffinland)	Cortney Oliver (CO), Paige Glenen (PG) Jesse Manufor (JM), Tarek Ghadieh (TG) Andrea Trischuk (AT) Tabitha Kasarnak (TK) Angie Bischoff (AB) Todd Swenson (TS)
Translator/Interpreter	Gela Naqica (GN)
Environment and Climate Change Canada (ECCC)	Jessica Kassar (JK) Jennifer Sabourin (JS) Grant Gilchrist (GG) Sara Forte (SF)
Qikiqtani Inuit Association (QIA) and Consultants	Amoudla Kootoo (AK) Bruce Stewart (BS) Lindsay Galbraith (LG) Jeff Higdon (JH)
Government of Nunavut (GN)	Jessica Waldinger (JW)
Parks Canada (PC)	Marie-Claude Martel (MCM) Vincent Marmillot (VM)
Department of Fisheries and Oceans Canada (DFO)	Jose Audet-Lecoutte (JAL) Paul Harper (PH)
Natural Resources Canada (NRCan)	None
Baffinland Consultants	

Organization Name	Participants
WSP Golder	Andrea Locke (AL) Patrick Abgrall (PA) Phil Rouget (PR)
OSRL/TetraTech	Eric Comerma (EC) Matt Frediani (MF)
Observer Organization	
CIRNAC	Absent
World Wildlife Fund (WWF)	Devin Holterman (DH) Sam Davin (SD)
Nunavut Impact Review Board (NIRB)	Absent
Canadian Northern Economic Development Agency (CANNOR)	Aminul Haque (AH) Alexie Baillargeon (AB)
Oceans North (ON)	None
Transport Canada (TC)	None
Makivvik	Andrew Dumbrille (AB)
Others	

AGENDA

Time	Activity	Lead	Materials	Purpose
10:00 – 10:10	Welcome and Roll call	C. Oliver	N/A	N/A
10:10 – 10:40	Independent Chair	C. Oliver	N/A	For Discussion
10:40 – 11:10	Steensby Spill modelling update Q & A	P. Glenen	Presentation	For Discussion
11: 10 – 11:25				
11:25 – 12:35	Monitoring Plans for 2026 Q & A	C. Oliver	Presentation	For Discussion
12:35 – 12:45	Summary and Meeting Wrap-up	C. Oliver	N/A	

MEETING MINUTES

Cortney Oliver (BIM) started the day's meeting with a roll call and welcomed new participants.

1. Independent Chair Process – Cortney Oliver (BIM)

The meeting opened with Cortney Oliver (BIM) providing an update on the process for selecting an Independent Chair. Members were reminded that an information package had been circulated outlining the three shortlisted candidates and that the initial phases of the selection process, as defined in the Terms of Reference, had been completed. This update was intended to clarify the group's current position in the process and to outline the decision points ahead.

She explained that the next step is to determine how the group wishes to proceed toward final selection. Two options are available under the Terms of Reference: inviting the shortlisted candidates to attend a virtual meeting to introduce themselves and discuss what they would bring to the role, or proceeding directly to a vote based on the written applications and members' independent review. Cortney emphasized that either approach is acceptable and encouraged members to consider which option would best support an informed and confident decision.

She also noted that voting is conducted by members, with the Government of Canada participating through a consolidated vote rather than by individual departments. Federal representatives were asked to identify a lead department to coordinate internal input and submit the consolidated federal position. The floor was then opened for questions and discussion, allowing members to share perspectives on the process to date and to provide input on the preferred next steps for advancing the selection of the Independent Chair.

Questions & Comments

Andrew Dumbrille (Makivvik): Asked if Chair's duties match BIM's current role. **Response:** Cortney Oliver (BIM) replied Yes—responsibilities remain the same under the Terms of Reference (ToR).

Jessica Waldinger (GN): Asked if only five candidates were nominated. **Response:** Cortney Oliver (BIM) replied yes, stating that only two organizations submitted nominations. ECCC put forward one candidate on behalf of the Government of Canada and Baffinland also interviewed her set of own candidates.

Seemee Qamaniq (IHTO): Suggested including local representatives as vice-chair. The other HTO/HTAs representatives expressed that they have not seen the memo on Independent Chair candidates. **Response:** Cortney Oliver (BIM) proposed to organise a meeting with the HTOs/HTAs to review the ToR, review the candidates, understand the process and take the discussion back to their respective boards and come to a decision. **(Action M-11182025-1)**

Jessica Waldinger (GN), Andrew Dumbrille (Makivvik), Jose Audet-Lecouffe (DFO) and Amoudla Kootoo (QIA) all stated that they would like a meeting to meet with the candidates. **Decision:** Virtual meeting with Chair candidates will occur in the second week of January 2026. **(Action M-11182025-2)**

2. Steensby Spill Modelling Update – Cortney Oliver (BIM)

Cortney Oliver (BIM) introduced an update on the spill modeling work for the Steensby shipping route, noting that external technical experts are supporting the effort. The presentation builds on discussions held at the June 2024 meeting in Ottawa, where initial plans for spill modeling were shared. Since then, Baffinland has changed service providers and remains in the information-gathering phase, collecting inputs to refine the modeling approach. She

emphasized that this presentation was a recap of the study scope and methodology and that additional opportunities for community input would occur in the coming months, reflecting strong interest expressed previously by communities such as Igloolik.

The spill modeling is a computer-based simulation designed to assess potential impacts from hypothetical fuel spills along the shipping route. Using probabilistic modeling, hundreds of simulations are run for each scenario to account for variability in wind, currents, ice conditions, and weather patterns over a five-year data set. The model evaluates how fuel could travel across the marine environment, estimates minimum travel times to shorelines, and identifies areas with higher likelihood of exposure. Results supplement baseline spill modeling completed for the Environmental Impact Statement and are validated against real-world spill data to ensure reliability.

Cortney outlined four proposed spill modeling locations selected based on regulatory criteria, including ecological sensitivity, shipping pinch points, proximity to shorelines, and importance to marine mammals, birds, and Inuit harvesting activities. These locations include Steensby Port (SR1), Foxe Basin west of Prince Charles Island (SR2), the Mill Island area (SR3), and south of Kimmirut (SR4). Multiple spill scenarios will be modeled, including ship-to-shore fuel transfer spills, full fuel tanker loss, and releases from ore carriers during both open-water and ice conditions. Cortney noted that these proposed locations will be shared formally with communities through letters and engagement sessions, and that the modeling results will inform spill response, emergency preparedness, and management plans for southern shipping operations.

Questions & Responses

Grant Gilchrist (ECCC) expressed that the information is quite informative. He asked if the maps presented could be shared. **Response:** Cortney Oliver (BIM) responded that the maps can be made available in PDF and shared to him.

Lindsay Galbraith (QIA) asked what is the source of the 3D data used for the modelling and the second question why is the modelling a lower volume for winter spill scenario. **Response:** Cortney Oliver (BIM) replied that Baffinland would not be transporting fuel during winter, hence lower spill volume modelling. On question of 3D Modelling data, Matt Frediani (OSRL) stated that they are currently evaluating Copernicus and HYCOM datasets.

Lindsay Galbraith (QIA): Asked whether model will be made available to the public to be used for community emergency preparedness or other purposes. **Response:** Cortney Oliver (BIM) stated that reports will be shared through the NIRB process. However, open-source release requires further discussion as there are proprietary concerns.

Andrew Dumbrille (Makivvik): Asked whether spill probability, response time, and cost are included in the model. **Response:** Tarek Ghadih (BIM) responded that the model assesses probability of oil reaching locations—not response measures or costs.

Sam Davin (WWF): Asked about simulation duration and if it took account of trapped-oil scenarios. **Response:** Matt Frediani (OSRL) replied that the spill is tracked for 30 days post-release, and the modelling will incorporate ice-related behaviour.

Sam Davin (WWF): Asked if any of the vessels that Baffinland currently charters or plans to charter in the future are equipped with dual fuel engines and if there a chance they would be using LNG or alternative fuels? The rationale for this question is that these fuels should also be modeled because fuels like LNG would really warrant atmospheric release modeling as well. **Response:** Cortney Oliver (BIM) thanked Sam for his question and replied that she does not have the information offhand today, but I will take your comments back.

3. Monitoring Plans for 2026 – Paige Glenen (BIM)

Paige Glenen provided an update on the process to revise monitoring and management plans for the Steensby project. Work has begun to update these plans, with formal community engagement planned for 2026. Once implemented, the monitoring plans will be living documents that are continuously updated and will explicitly document how Inuit Qaujimagatuqangit (IQ) is incorporated into monitoring and management. Inuit will continue to be involved at all levels of fieldwork, including as field monitors and participants, and communities will be regularly informed about how IQ is being applied.

The update focuses on management plans for the construction and operations phase, particularly those related to the marine environment under the project's environmental management system. Existing plans will be revised to include the southern shipping route, and several Steensby-specific plans will be newly developed. These include Spill at Sea response Plan, Marine Monitoring Plan, Ballast Water Management Plan, Adaptive Management Framework, Steensby Construction Environmental Protection Plan, Shipping and Marine Wildlife Management Plan, an Oil Pollution Prevention Plan, and an Oil Pollution Emergency Plan tailored to Steensby operations.

All updated and newly developed plans will be shared with QIA, the Marine Environment Working Group, NIRB, and regulators for review. The working group will play an active role in reviewing and updating the plans, with the anticipated start of this review process occurring in the second quarter of 2026.

Questions and Responses

Cortney Oliver (BIM) committed that Baffinland will be having dedicated engagement with the HTOs and Makivvik corporation to discuss the spill modelling work. **(Action M-11182025-3)**

Sam Davin (WWF): Asked whether underwater radiated noise is included in the management plan. **Response:** Cortney Oliver (BIM) replied yes. Stating that underwater noise will be managed under Steensby Construction Environmental Protection Plan.

Devin Holterman (WWF): Asked when management plan drafts will be circulated and available for review. **Response:** Paige Glenen (BIM) replied that the target is Q2 2026.

4. 5-Year Monitoring Plan Amendment – Cortney Oliver (BIM)

Cortney Oliver (BIM) introduced the final agenda topic for the meeting: an amendment of the five-year environmental monitoring plan that was originally proposed in May 2024. Based on the assessment of the last couple of years of monitoring and data, a key amendment involves moving the aerial surveys and acoustic monitoring programs to a three-year cycle rather than an annual one, confirming that 2026 would be a year when

both would be scheduled. To manage resources efficiently, the team proposed alternating monitoring programs in years when the aerial survey is conducted (which is confirmed to be running this year for mammals in Eclipse Sound and Admiralty Inlet), the Bruce Head program will be paused, allowing for ongoing mammal monitoring along the Northern route by alternating the two programs under the current shipping regime.

The most substantial change discussed involves the acoustic monitoring program in Eclipse Sound. While it is scheduled to run again in 2026, Cortney Oliver proposed pausing this specific monitoring on the Northern shipping route to shift those resources toward gathering supplementary baseline information in the Southern shipping route (Foxe Basin). The rationale for this move is that similar monitoring programs are already underway in Eclipse Sound, suggesting potential collaboration opportunities. Crucially, the current data already captures existing shipping configurations, and no new vessel types or shipping configurations are expected in the North, leading the team to prioritize the need for new baseline data in the southern area.

Vincent Marmillot (Parks Canada): Clarified that Parks Canada's hydrophone at TINMPA was removed 3 years ago; memo needs correction. **Response:** Cortney Oliver (BIM), we will amend memo and recirculate. **(Action M-11182025-4)**

Lindsay Galbraith (QIA): Stated that QIA does not support the amendment, requesting integrated results for Bruce Head and clarity on the Ship-Based Observer (SBO) program, as well as the alternative modeling approaches like sediment traps, ballast water monitoring and hull fouling. **Response:** Cortney Oliver (BIM) explained that the pause is to conduct broader aerial surveys, and that BIM has 10 years of consecutive Bruce Head data. Baffinland is still running the MEEMP program where alternatives like sediment traps will be reviewed, DFO is putting together a proposal on the ballast water program for consideration and there is no plan to conduct hull fouling in the near term and the rationale has been discussed in meetings in 2025. On the SBO program, there are health & safety challenges with continuing the program but Baffinland is exploring options.

Closing

Cortney Oliver (BIM) in ending the meeting encouraged follow-up questions by email. She informed the MEWG that there will be a combined meeting of the MEWG and TEWG to discuss independent Chair selection in January, 2026. As part of engagements on spill modelling, letters will be going out to Kinngait, Igloodik and Kimmirut communities. She thanked members for their participation.



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ባለቤቱ ልብዥ	ክብራዊባልሙር
ልራፊት ክብራዊባልሙር	
ፍብራፊት ልግራፊት (MHTO)	ልራፊት ክብራዊ (EK)
ልግራፊት ልግራፊት (IHTO)	ፊፍት ክብራዊ (SQ)
ከራፊት (ከራፊት) ልግራፊት (HB HTA)	ክብራዊባልሙር
ክብራዊ ልግራፊት (ልግራፊት) ልግራፊት (NHTO)	ክብራዊባልሙር
ልግራፊት (ልግራፊት) ልግራፊት (IHTA)	ክብራዊባልሙር
ረጅሙና ከልግራፊት ልግራፊት ልግራፊት (ረጅሙና)	ልራፊት ልራፊት (CO), ግራፊት ልግራፊት (WB) ልግራፊት (TS) ከፊት ልግራፊት (JM) ግራፊት ልግራፊት (BR) ልግራፊት ልግራፊት (AT) ልግራፊት ልግራፊት (PG) ባለፊት ልግራፊት (TG) ልግራፊት ክብራዊ (TK)
ግራፊት / ግራፊት	ግራፊት ልግራፊት (GN) ግራፊት ክብራዊ (RK)
ልዩጊድ ልግራፊት ልግራፊት ልግራፊት ልግራፊት (ECCC)	ከፊት ክብራዊ (JK) ግራፊት ልግራፊት (GG) ከፊት ልግራፊት (JS) ግራፊት ልግራፊት (SF)
ፎቆራ ልግራፊት ክብራዊ (QIA) ስፔሻላይዥን	ልግራፊት ልግራፊት (AK) ግራፊት ልግራፊት (BS) ፎቆራ ልግራፊት (LG) ልግራፊት ልግራፊት (JH)
ልግራፊት ልግራፊት (GN)	ከፊት ልግራፊት (JW)
ፍብራፊት ልግራፊት ልግራፊት (PC)	ግራፊት ልግራፊት ልግራፊት (MCM) ልግራፊት ልግራፊት (VM)

በገጠሞች ለገጠሞች	በገጠሞች ለገጠሞች
ገጠሞች ለገጠሞች (DFO)	ገጠሞች ለገጠሞች (JAL) ገጠሞች ለገጠሞች (PH) ገጠሞች ለገጠሞች (KH)
ገጠሞች	ገጠሞች ለገጠሞች (AD)
ገጠሞች ለገጠሞች (NRCAN)	ገጠሞች ለገጠሞች
ገጠሞች ለገጠሞች	
WSP ገጠሞች	ገጠሞች ለገጠሞች (AL) ገጠሞች ለገጠሞች (PA) ገጠሞች ለገጠሞች (PR) ገጠሞች ለገጠሞች (JH) ገጠሞች ለገጠሞች (MF) ገጠሞች ለገጠሞች (TT) ገጠሞች ለገጠሞች (SU)
ገጠሞች ለገጠሞች	
ገጠሞች ለገጠሞች (CIRNAC)	ገጠሞች ለገጠሞች
ገጠሞች ለገጠሞች (WWF)	ገጠሞች ለገጠሞች (SD) ገጠሞች ለገጠሞች (DH)
ገጠሞች ለገጠሞች (NIRB)	ገጠሞች ለገጠሞች
ገጠሞች ለገጠሞች (CANNOR)	ገጠሞች ለገጠሞች (AH) ገጠሞች ለገጠሞች (AB)
ገጠሞች ለገጠሞች (Oceans North)	ገጠሞች ለገጠሞች
ገጠሞች ለገጠሞች (TC)	ገጠሞች ለገጠሞች
ገጠሞች	

ገጠሞች ለገጠሞች

ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች
10:00 – 10:30	ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች	d. ገጠሞች	ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች
10:30 – 11:00	ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች	ገጠሞች ለገጠሞች ገጠሞች ለገጠሞች

11:00 – 12:00	ወጪ ለሰራተኛ ርኅቡ ለሰራተኛ ለሥራ ስርዓት ውድህሳስ (MEEMP) ለሰራተኛ ለሥራ ስርዓት	ፊ. ጊ (WSP)	ውድህሳስ	ውድህሳስ ለሰራተኛ ለሥራ ስርዓት
12:00 – 1:00	ውድህሳስ			
1:00 – 2:00	ወጪ ለሰራተኛ ርኅቡ ለሰራተኛ ለሥራ ስርዓት ውድህሳስ ለሰራተኛ ለሥራ ስርዓት	ፊ. ጊ (WSP)	ውድህሳስ	ውድህሳስ ለሰራተኛ ለሥራ ስርዓት
2:00 – 2:30	2025-ፎ ውድህሳስ ለሰራተኛ ለሥራ ስርዓት	d. ገጽ	ውድህሳስ	ውድህሳስ ለሰራተኛ ለሥራ ስርዓት
2:30 – 2:45	ውድህሳስ			
2:45 – 3:30	ውድህሳስ ለሰራተኛ ለሥራ ስርዓት ለሰራተኛ ለሥራ ስርዓት	ፊ. ገጽ (ውድህሳስ ለሰራተኛ ለሥራ ስርዓት)	ውድህሳስ	ውድህሳስ ለሰራተኛ ለሥራ ስርዓት
3:30 – 3:45	ወጪ ለሰራተኛ ርኅቡ ለሰራተኛ ለሥራ ስርዓት	d. ገጽ	ውድህሳስ	

ገቢዎች ደንበኞች	ገቢዎች	ደንበኞች	ገቢዎች	ገቢዎች
M-11172025-3	ገቢዎች	ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች (ECCC) ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች	ገቢዎች ገቢዎች ገቢዎች	
M-11182025-1	ገቢዎች	ገቢዎች ገቢዎች	ገቢዎች ገቢዎች ገቢዎች	ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች
M-11182025-2	ገቢዎች	ገቢዎች ገቢዎች	ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች ገቢዎች 2026	ገቢዎች ገቢዎች ገቢዎች

ቅድሚያ ርቢላን (AD) (LPA): ለአባላታችን ነጠብቃ የጠቀሰው ደግሞ ለባላታችን የሚሰጠው ምንምምንጭ ገቢ የሚመጣውን ገቢ ለማሳደግ የሚያስችል ሆኖ ተገልጿል። **የደንብ:** ወጋጅ ለርቢላን (ከጋብሮ) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል።

ቅድሚያ ርቢላን (AD) (LPA) የገቢዎችን አቅርቦት ለማሳደግ ለማሻሻል የሚያስችል ሆኖ ተገልጿል። **የደንብ:** ወጋጅ ለርቢላን (ከጋብሮ) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል።

ከ ርቢላን (SD) (ወጋጅ ለርቢላን ለማሻሻል የሚያስችል ሆኖ ተገልጿል) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። **የደንብ:** ወጋጅ ለርቢላን (ከጋብሮ) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል።

ከ ርቢላን (SD) (ወጋጅ ለርቢላን ለማሻሻል የሚያስችል ሆኖ ተገልጿል) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። **የደንብ:** ወጋጅ ለርቢላን (ከጋብሮ) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል።

ጋብሮ ለርቢላን (MCM) (የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። **የደንብ:** ወጋጅ ለርቢላን (ከጋብሮ) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል።

ጋብሮ ለርቢላን (SQ) (አጠቃላይ ለማሻሻል የሚያስችል ሆኖ ተገልጿል) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። **የደንብ:** ወጋጅ ለርቢላን (ከጋብሮ) የሚጠቀሙትን ስራዎች ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል። ለማሳደግ ለማሻሻል ለማድረግ የሚያስችል ሆኖ ተገልጿል።

ባለሙያ ስም	ኮርፖሬሽን
ፕሮጀክት ማኅተም ስልጠና (PC)	ገቢ-ኃይል ስልጠና (MCM) ግራፊክስ ስልጠና (VM)
ፈጠራዊ ስልጠና ስልጠና (DFO)	ገቢ ስልጠና-ርብረት (JAL) ገቢ ስልጠና (PH)
ግራፊክስ ስልጠና ስልጠና (NRCAN)	ኮርፖሬሽን ስልጠና
ግራፊክስ ስልጠና ስልጠና	
WSP ገቢ	ገቢ ስልጠና (AL) ገቢ ስልጠና (PA) ገቢ ስልጠና (PR)
OSRL/ ስልጠና ስልጠና (TetraTech)	ገቢ ስልጠና (EC) ገቢ ስልጠና (MF)
ግራፊክስ ስልጠና ስልጠና	
ፕሮጀክት ማኅተም ስልጠና ስልጠና ስልጠና (CIRNAC)	ኮርፖሬሽን ስልጠና
ግራፊክስ ስልጠና ስልጠና (WWF)	ገቢ ስልጠና (DH) ገቢ ስልጠና (SD)
ግራፊክስ ስልጠና ስልጠና (NIRB)	ኮርፖሬሽን ስልጠና
ግራፊክስ ስልጠና ስልጠና (CANNOR)	ገቢ ስልጠና (AH) ገቢ ስልጠና (AB)
ገቢ ስልጠና (Oceans North)	ኮርፖሬሽን ስልጠና
ገቢ ስልጠና ስልጠና (TC)	ኮርፖሬሽን ስልጠና
ገቢ ስልጠና	ገቢ ስልጠና (AD)
ገቢ ስልጠና	

ኮርፖሬሽን ስልጠና

ገቢ ስልጠና	ገቢ ስልጠና	ገቢ ስልጠና	ገቢ ስልጠና	ገቢ ስልጠና
10:00 – 10:10	ገቢ ስልጠና ስልጠና ስልጠና	d. ገቢ ስልጠና	ገቢ ስልጠና ስልጠና	ገቢ ስልጠና ስልጠና
10:10 – 10:40	ገቢ ስልጠና ስልጠና ስልጠና	d. ገቢ ስልጠና	ገቢ ስልጠና ስልጠና	ገቢ ስልጠና ስልጠና ስልጠና
10:40 – 11:10	ገቢ ስልጠና ስልጠና ስልጠና	ገቢ ስልጠና	ገቢ ስልጠና ስልጠና	ገቢ ስልጠና ስልጠና ስልጠና

