



## Mary River Mine: CEAF updates

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An updated list of publicly available research specific to DFO studies.

Publishing Body	Year	Reference / document title	Key Findings / Takeaways	PDF / Source
COSEWIC	2005	Status report on bowhead whale (multiple populations)	Assesses conservation status and threats.	<a href="https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessr/status-reports/bowhead-whale.html">https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessr/status-reports/bowhead-whale.html</a>
COSEWIC	2006	Status report on Atlantic walrus	Evaluates population status and pressures.	<a href="https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessr/status-reports/atlantic-walrus.html">https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessr/status-reports/atlantic-walrus.html</a>
Canadian Science Advisory Secretariat (CSAS)	2007	Recovery potential—allowable harm assessment of Eastern Arctic bowhead whales	Defines recovery benchmarks and allowable harm thresholds to inform management.	<a href="https://publications.gc.ca/collections/collection_2011/mpo-dfo/2007-024-eng.pdf">https://publications.gc.ca/collections/collection_2011/mpo-dfo/2007-024-eng.pdf</a>
DFO	2010	The arctic marine workshop: freshwater institute, Winnipeg, MB	Multi taxa, population, distribution, habitat, seals, whales, marine life	<a href="https://publications.gc.ca/site/eng/9.568416/publication.html">https://publications.gc.ca/site/eng/9.568416/publication.html</a>
CSAS	2011	Identification of Ecologically and Biologically Significant Areas (EBSA) in the Canadian Arctic	Identifies areas of heightened ecological value to guide protection and planning.	<a href="https://waves-vagues.dfo-mpo.gc.ca/library-bibliotheque/3447">https://waves-vagues.dfo-mpo.gc.ca/library-bibliotheque/3447</a>
CSAS	2012	Science Review of Baffinland's Mary River Project Final EIS	Reviews environmental risks and mitigation related to mining and shipping.	<a href="https://csas-scas.dfo-mpo.gc.ca/publications-publications/24b:e2b8-4d6f-9f4b-0ac9042882ae?lang=en">https://csas-scas.dfo-mpo.gc.ca/publications-publications/24b:e2b8-4d6f-9f4b-0ac9042882ae?lang=en</a>
CSAS	2012	Science review of Baffinland's Mary River Project Final Environmental Impact Statement	Identifies shipping, noise, and habitat risks.	<a href="https://publications.gc.ca/collections/collection_2012/mpo-dfo/2012-16-eng.pdf">https://publications.gc.ca/collections/collection_2012/mpo-dfo/2012-16-eng.pdf</a>
Fisheries and Oceans Canada (DFO)	2013	IFMP for Narwhal (Nunavut Settlement Area)	Harvest, monitoring, and disturbance management for narwhal.	<a href="https://www.dfo-mpo.gc.ca/fisheries-peches/ifmp-gmp/narwha/narval/index-eng.html">https://www.dfo-mpo.gc.ca/fisheries-peches/ifmp-gmp/narwha/narval/index-eng.html</a>
Conservation Biology	2015	Arctic marine mammal population status & sea ice loss	Sea ice decline amplifies cumulative threats.	<a href="https://conbio.onlinelibrary.wiley.com/doi/10.1111/cobi.12474">https://conbio.onlinelibrary.wiley.com/doi/10.1111/cobi.12474</a>
CSAS	2018	Mitigation Buffer Zones for Atlantic Walrus (Nunavut)	Recommends vessel/aircraft buffers to reduce disturbance to walrus.	<a href="https://publications.gc.ca/collections/collection_2019/mpo-dfo/7Fs70-7-2018-055-eng.pdf">https://publications.gc.ca/collections/collection_2019/mpo-dfo/7Fs70-7-2018-055-eng.pdf</a>
DFO	2018	Integrated fisheries management plan for Atlantic Walrus (Odobenus rosmarus rosmarus) in the Nunavut Settlement Area	Management measures to limit disturbance and overharvest.	<a href="https://publications.gc.ca/collections/collection_2022/mpo-dfo/24-2018-eng.pdf">https://publications.gc.ca/collections/collection_2022/mpo-dfo/24-2018-eng.pdf</a>
COSEWIC	2019	Assessment and status report (multiple taxa)	Updated listings and threat summaries.	<a href="https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-annual-reports/2019-2020.html">https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-annual-reports/2019-2020.html</a>
Marine Pollution Bulletin	2020	Anchor and chain scour as disturbance agents in benthic environments: trends in the literature and charting a course to more sustainable boating and shipping	Synthesizes global evidence of anchoring impacts and policy gaps.	<a href="https://www.sciencedirect.com/science/article/pii/S0025326X2">https://www.sciencedirect.com/science/article/pii/S0025326X2</a>
Canadian Tech. Report (DFO)	2020	Threats and effects pathways of shipping related to non renewable resource developments on Atlantic walrus (Odobenus rosmarus rosmarus) in Hudson Strait and Foxe Basin, Nunavut	Maps effect pathways from shipping to walrus disturbance.	<a href="https://publications.gc.ca/collections/collection_2020/mpo-dfo/3283-eng.pdf">https://publications.gc.ca/collections/collection_2020/mpo-dfo/3283-eng.pdf</a>
Marine Pollution Bulletin	2021	Underwater sound levels in the Canadian Arctic (2014–2019)	Baseline soundscapes show rising ship contributions.	<a href="https://www.sciencedirect.com/science/article/pii/S0025326X2">https://www.sciencedirect.com/science/article/pii/S0025326X2</a>
Biological Conservation	2022	Overlap between bowhead whales and vessel traffic	Identifies high-risk overlap areas needing management.	<a href="https://www.sciencedirect.com/science/article/pii/S000632072">https://www.sciencedirect.com/science/article/pii/S000632072</a>
CSAS	2023	Estimates of abundance and total allowable removals for Hudson Bay–Davis Strait Atlantic walrus	Updates stock status and sustainable harvest guidance.	<a href="https://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2023/2023_030-eng.pdf">https://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2023/2023_030-eng.pdf</a>
Environmental Reviews	2023	Arctic marine ecosystems face increasing climate stress	Reviews climate-driven vulnerability of Arctic systems.	<a href="https://cdnsiencepub.com/doi/10.1139/er-2022-0101">https://cdnsiencepub.com/doi/10.1139/er-2022-0101</a>
COSEWIC	2024	Status report on narwhal (NH Bay & Baffin Bay)	Updated subpopulation status and threats.	<a href="https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessr/status-reports/narwhal-northern-hudson-bay-baffin-bay-subpo2024.html">https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessr/status-reports/narwhal-northern-hudson-bay-baffin-bay-subpo2024.html</a>

<b>Government of Canada</b>	2024	Canada's ocean noise strategy (draft)	National approach to mitigating underwater noise.	<a href="https://www.dfo-mpo.gc.ca/oceans/publications/noise-bruit/strategie/index-eng.html">https://www.dfo-mpo.gc.ca/oceans/publications/noise-bruit/strategie/index-eng.html</a>
<b>COSEWIC</b>	2025	Eastern Canada-west Greenland bowhead whale population abundance and limit reference point	Status update, harvest and population info.	<a href="https://publications.gc.ca/collections/collection_2025/mpo-dfo/7/Fs70-7-2025-032-eng.pdf">https://publications.gc.ca/collections/collection_2025/mpo-dfo/7/Fs70-7-2025-032-eng.pdf</a>
<b>Frontiers in Conservation Science</b>	2025	Dragging the chain: high-tonnage anchor scour impacts	Demonstrates severe macrobenthic impacts from large vessels.	<a href="https://www.frontiersin.org/journals/conservation-science/articles/10.3389/fcosc.2025.1487428/full">https://www.frontiersin.org/journals/conservation-science/articles/10.3389/fcosc.2025.1487428/full</a>