

## Great Lakes Executive Committee Meeting Summary

December 10-11, 2024

### OPENING REMARKS

Great Lakes Executive Committee (GLEC) Co-Chairs, Véronique Hiriart-Baer (Environment and Climate Change Canada, ECCC) and Teresa Seidel (U.S. Environmental Protection Agency, EPA) welcomed participants to the December 2024 GLEC meeting in Toronto, Ontario. Véronique also welcome four new Canadian Annex Co-Leads – Jane Shimono from Transport Canada for the Discharges from Vessels Annex, Jennifer Thomas from Fisheries and Oceans Canada for the Aquatic Invasive Species Annex, Brad Hill from Environment and Climate Change Canada for the Groundwater Annex, and Laura Jones from the Canada Water Agency for the Climate Change Impacts Annex.

Under Business Items, the Co-Chairs called for approval the draft June 2024 GLEC Meeting Summary and the day's agenda.

A list of meeting attendees is found in Appendix A.

### DISCUSSION SESSIONS

#### *GLWQA Review and 2025 GLWQA Deliverables*

GLEC Co-Chairs introduced the session by providing an overview of the review of the operation and effectiveness of the GLWQA; the framing of the review, which focused around assessing the timeliness and successful completion of past binational priorities for science and action; and the goal of the review.

Carla Torchia and James Schardt, the GLEC Secretariats, provided an overview of some of the early review findings. They noted that the majority of Priorities were completed successfully and in a timely manner. Areas needing improvement were then discussed, such as: challenges with timely completion; uncompleted Priorities; challenges in tracking and reporting; GLEC member participation; and communication and involvement of external partners.

The session concluded with an overview of major milestones in 2025, including the development of the Progress Report of the Parties, the Binational Priorities for Science and Action, and the State of the Great Lakes report, as well as the hosting of the Great Lakes Public Forum.

#### *Great Lakes Spill Contingency Planning and Response*

Jerry Popiel, from the U.S. Coast Guard, provided an overview of the Canada-U.S. Joint Marine Pollution Contingency Plan and the Great Lakes Annex (CANUSLAK) to the plan. Jerry discussed the history of the plan and CANUSLAK, including the cooperation between Canada and the U.S. in marine environmental protection, binational coordinated planning and pollution response, and real case examples of coordinated response.

#### *Annex 3 Chemicals of Mutual Concern (CMC)*

Annex 3 Co-Leads, Steve Clement (ECCC) and Meaghan Kern (EPA), provided an update on the sulphate nomination and an update on the status of the review of nominations for radionuclides and Polycyclic Aromatic Hydrocarbons (PAHs).

They provided a high-level review of the findings from the binational screening for the state of sulphates in the Great Lakes touching on its toxicity, release into the basin, levels, exposure, scale and binational significance, and controls and management. Based on this weight of evidence, they recommended that sulphate should not be designated as a candidate CMC.

For the other nominated chemicals, they conveyed that PAHs are expected to have a Binational Summary Report completed by June 2025, Lead and Radionuclides to have their criteria-based screening completed and recommendation shared by June 2025, and Microplastics criteria-based screening completed by December 2025.

#### *Annex 4 Nutrients*

Annex Co-Leads, Steve Clement (ECCC) and Santina Wortman (EPA), provided an update on Annex activities in Lake Ontario and Lake Erie, including the work to update the Lake Erie Domestic Action Plans.

For Lake Erie they discussed the tracking and evaluating status and trends of phosphorus loads and harmful algal blooms; the Adaptive Management Approach being taken; harmful algal bloom conditions and phosphorus loads; key findings from the 2017-2021 Evaluation of Progress; and the updates to the Domestic Action Plans.

For Lake Ontario they discussed efforts to update binational estimates of annual phosphorus loads, including data being gathered and estimation approaches and tools; and identifying the spatial and temporal extent of nearshore algae prob nearshore harmful and nuisance algae blooms and impact areas.

#### *Annex 10 Science, State of the Great Lakes (SOGL)*

SOGL Leads, Nancy Stadler-Salt (ECCC) and Matt Pawlowski (EPA), provided background on the State of the Great Lakes (SOGL) ecosystem indicators reports, the timeline and process for the development of the 2025 SOGL report, and highlighted the 5 improvements that were discussed and approved following the December 2023 GLEC meeting.

Nancy and Matt then discussed the key messages from the draft State of the Great Lakes 2025 assessments for the 9 SOGL indicators, each Great Lake, and the draft overall assessment for the Great Lakes basin.

#### *Community-Based Science to Restore and Protect Great Lakes*

Sean Backus, Lakewide Management Annex Canadian Co-Lead, discussed Canada's efforts to promote community-based science, enhance community and public awareness and knowledge of Great Lakes issues, and foster stewardship amongst communities and individuals in taking collective actions to protect the environment. Sean introduced the Great Lakes Freshwater Ecosystem Initiative (GLFEI), which is supporting these efforts to empower communities. He highlighted initiatives including citizen

participation in monitoring water quality, coastal conservation, and the utilization of community-collected data for decision-making. Additionally, Carla Torchia, discussed efforts through the GLFEI to support indigenous-led monitoring and stewardship, participation in Great Lakes governance, and on-the-ground actions for enhancing ecosystem health.

## **NEWS AND COMMENTS FROM GLEC MEMBERS**

Véronique Hiriart-Baer (CWA) highlighted the September announcement of \$76 million invested through the Great Lakes Freshwater Ecosystem Initiative to support over 50 partner-led projects aimed at improving water quality, restoring habitats, and tackling key challenges in the Great Lakes basin. Véronique noted that a new call for applications under the Initiative is planned for early 2025, focusing on restoring areas of concern, preventing harmful algae, protecting coastal areas, and promoting community-based science.

Kevin Rath (Métis Nation of Ontario (MNO) Great Lakes Advisory Group) highlighted MNO citizen scientists monitoring efforts including, examining water quality through Water Rangers, benthic monitoring through Ontario Benthos Biomonitoring Network, and eDNA invasive carp monitoring. Kevin also discussed a project, partnering with City of Thunder Bay and EcoSuperior, to place filters on washing machines to track microplastics releases in the Thunder Bay area. In closing, Kevin discussed efforts under the Indigenous Great Lakes Network Initiative, created through Trent University.

Melissa Fabian Mendoza (Canadian Nuclear Safety Commission (CNSC)) highlighted changes in the Executive team at CNSC, including a new President and Chief Executive Officer, Pierre Tremblay, and a new Vice President of the Technical Support Branch and Chief Science Officer, Dean Haslip. She also highlighted an upcoming CNSC hearing and meeting open to the public from January 8-10 and 13-14 regarding Ontario Power Generation's application for licensing to construct the Darlington New Nuclear Project – the first application to construct a small modular reactor in Canada. Finally, Melissa noted that the Nuclear Waste Management Organization (NWMO) has selected the Wabigoon Lake Ojibway Nation-Ignace area as the site for consideration for Canada's deep geological repository for high-level nuclear waste following an extensive engagement process. While site selection isn't regulated by the CNSC, the Commission will be involved in the regulatory review and supporting the impact assessment which is expected to start next year.

Tricia Mitchell (Fisheries and Oceans Canada) highlighted DFO efforts related to invasive species in the Great Lakes, including undertaking over 860 sampling events in Canadian waters to monitor invasive carp, with two instances of grass carp being recorded – a sterile male in Jordan Harbor and a dead specimen reported by a member of the public in Rondeau Bay. In addition, Tricia noted that through broad engagement with Indigenous communities, industries, and stakeholders, DFO outlined fish habitat restoration objectives for the Canadian portion of the Lake Erie watershed, which will inform the development of a draft report on restoration priorities and a Geospatial Dashboard for Canadian waters of Lake Erie to be finalized by late 2025. Lastly, she discussed collaboration with Ontario particularly in early detection and surveillance for Tench in the St. Lawrence River near Cornwall, partnering with the Ontario Ministry of Natural Resources on monitoring and eradicating marbled crayfish, and new work on environmental DNA detection methods to enhance monitoring for invasive species like Carp and other invasives.

Sharon Hayes for Jonathan Arnold (Parks Canada) noted that Parks Canada has a significant presence in the Great Lakes region focused around five national parks, two national marine conservation areas, Rouge National Urban Park, 11 national historic sites, and two canals. Sharon highlighted Parks Canada's focus on Indigenous-led monitoring and stewardship around Lake Superior, as well as efforts to build capacity through the Guardians Programs by advancing collaborative water quality monitoring initiatives with Métis and First Nations communities. She then discussed continuing progress in the formal establishment of the Lake Superior National Marine Conservation Area with the province of Ontario and development of general regulations for national marine conservation areas with consultations involving provincial, federal, and Indigenous partners. Sharon also highlighted the Point Pelee Coastal Resilience Program and the funding and establishment of a regional scale multi-agency, the Pelee Coastal Resilience Committee, to increase the resilience of the parks' ecosystems and advance coastal zone management in the area. In closing, Sharon touched on "Together With Giigoonyag", a collaborative, community-driven research effort involving the Saugeen Ojibway Nation, Parks Canada, and Ontario is ongoing. Using a two-eyed seeing approach, the project aims to better understand Lake Huron's lake whitefish population dynamics.

Elizabeth Everhardus for Leo Luong (Ontario Ministry of the Environment, Conservation and Parks) highlighted that since 2018, Ontario has invested \$73.1 million in close to 600 projects to safeguard the Great Lakes. During this time, Ontario has invested in 42 environmental clean-up actions that have taken place across 17 Areas of Concern in the Great Lakes Basin. Adding to this investment is Ontario's Wetlands Conservation Partner Program at \$31 million and the stormwater wastewater investments at \$24.5 million.

Jennifer Keyes (Ministry of Natural Resources and Forestry) provided an update on Ontario's progress toward establishing a framework for geological carbon storage, which involves the permanent sequestration of carbon dioxide in deep underground geological formations. Over the summer of 2024, the Ontario government consulted on a legislative and regulatory framework for the safe and responsible permanent storage of carbon dioxide within geological formations in a manner that protects the public safety and the environment and other, land and resource users. Based on feedback from industry, First Nations, local communities, and other stakeholders, the Geological Carbon Storage Act was introduced to the Ontario legislature, which is currently under review and been deferred to committee hearings. A public comment period via the Environmental Registry is open until January 9, 2025, offering stakeholders an opportunity to provide input.

Emily Finnell (Michigan Department of Environment, Great Lakes, and Energy) highlighted several accomplishments. In October 2024, Michigan successfully removed the final Beneficial Use Impairment (BUI), degradation of benthos, for the Muskegon Lake Area of Concern (AOC) with full delisting anticipated next year. Emily next discussed efforts and work to secure federal and non-federal sponsors for sediment remediation in both the Rouge and Detroit River AOCs. She then highlighted work on the Domestic Action Plan and progress with point sources and wastewater treatment plants, as well as innovative approaches such as pilot wetland restoration projects and collaboration with farmers to enhance agricultural practices to address challenging non-point sources. In closing, Emily noted that EGLE has received a \$2 million appropriation from the Michigan Legislature to address microplastics and a development of a comprehensive strategy, a five-year monitoring plan, integration of microplastics into water chemistry sampling, and targeted research to identify gaps and inform recommendations. Additionally, legislation is under consideration to support statewide research and monitoring and to assess risks to human health and ecosystems, and in collaboration with private industry, feasibility work is underway to explore installing a barrier in the Grand River to capture plastic pollution.

Deborah Lee (National Oceanic and Atmospheric Administration (NOAA)) highlighted several NOAA accomplishments. In 2024, NOAA designated the Lake Ontario National Marine Sanctuary, encompassing 1,300 square nautical miles, which will promote heritage tourism, research, and community engagement, and also initiated the designation process for the Lake Erie Quadrangle National Marine Sanctuary. With respect to habitat restoration, NOAA completed projects in the Maumee River Area of Concern, restoring critical wetland habitats and improving hydrological connections. Innovative research on invasive mussel control in Lake Michigan was also conducted using underwater vehicles, with findings to refine future applications. Additionally, NOAA contributed to the State of the Great Lakes reports and five employees were recognized through EPA Region 5's Regional Administrators Award for their contributions to the ecosystem indicator team. In closing, Deborah expressed gratitude as she prepares to retire after 40 years of federal service, and that an interim NOAA GLEC member will be appointed during the search for a new director.

Chuck Traxler (U.S. Fish and Wildlife Service (USFWS)) highlighted that the USFWS has proposed listing monarch butterflies as threatened under the Endangered Species Act, which starts a formal regulatory process with a 90-day public comment period. Chuck explained the monarch's migratory journey across North America, emphasizing its reliance on milkweed for survival. He identified habitat loss, pesticide use, and climate change as the primary threats. Chuck called on agencies to prioritize planting native milkweed and nectar-producing plants in restoration projects to support monarch conservation.

Rick Balla for Javier Laureano (U.S. Environmental Protection Agency Region 2) highlighted key partnerships with the St. Regis Mohawk Tribe and New York State Department of Environmental Conservation, emphasizing the importance of collaboration to address challenges such as climate change and advancing environmental justice for underserved communities. Rick also discussed the October 2024 celebration of the delisting of the Rochester Embayment as an Area of Concern (AOC), marking the culmination of over three decades of restoration efforts. He provided updates on ongoing work such as, habitat restoration in the Niagara AOC; progress in the St. Lawrence River AOC, including work to complete all remaining BUI removal criteria and management actions by the end of 2025 and incorporating traditional ecological knowledge for BUI removal criteria; and work to update the assessments of phosphorus loads to Lake Ontario.

## **COMMENTS FROM COMMISSION REPRESENTATIVES**

Pierre Baril (International Joint Commission (IJC)) discussed the IJC Great Lakes Water Quality Board's recently published results from its fourth regional poll since 2015, which revealed strong public support for protecting the Great Lakes (94% emphasized their importance, 96% supported government investment, and 90% identified climate change as a growing pressure). Pierre then highlighted IJC efforts, in partnership with the Great Lakes Commission and Fishery Commission through a Memorandum of Understanding, to host three Great Lakes Fellows focused on science engagement. He also noted that the IJC is planning for Great Lakes Days in Washington, DC, and Ottawa and looks forward to meeting legislators to highlight the work of the IJC and its boards on Great Lakes water quality issues of binational concern. In closing, Pierre discussed other IJC's efforts, including developing a decade-long Great Lakes Science Plan, emphasizing equity and Indigenous engagement; initiating work on the 2026 Triennial Assessment of Progress Report; and the Parties consideration of the IJC Science Advisory Board's comments to come on the next cycle of draft binational priorities for the science.

Roger Knight (Great Lakes Fishery Commission (GLFC)) outlined GLFC efforts to advance an ecosystem-based approach to fisheries management, including the development of the Center for Ecosystem Management at the University of Guelph to enhance expertise. Roger then discussed work on controlling invasive sea lampreys and celebrated the full restoration of lake trout populations in Lake Superior, a significant milestone for this keystone predator. He also discussed efforts in addressing invasive carp in the Chicago area and the broader Great Lakes region, while the Great Lakes Law Enforcement Committee focuses on preventing the spread of harmful organisms through trade. Additionally, Roger noted that fish habitat restoration projects are progressing through NOAA's Great Lakes Fish Habitat Program, with initial funding rounds nearing completion, as well as expressed the Commission's commitment to supporting collaborative efforts in addressing algal blooms through nutrient management.

Eric Brown (Great Lakes Commission (GLC)) expressed pride in the collaborative stewardship of the Great Lakes and highlighted the implementation of the Memorandum of Understanding signed with the Great Lakes Fisheries Commission and the International Joint Commission earlier this year to formalize cooperation. Eric noted that registration will soon open for the GLC's semi-annual meeting in Washington, DC, on March 4-5, 2025, followed by the Great Lakes Congressional Breakfast Reception, co-hosted with the Northeast-Midwest Institute. The event is expected to provide for robust discussions, advocacy, and relationship-building with policymakers, including members of the new U.S. Federal Administration and Congress.

## **COMMENTS FROM OBSERVERS**

Rebecca D'Orazio (Invasive Species Centre) provided an update on new detections of invasive species including water soldier in Lake Simcoe and hydrilla in Hillman's Marsh in Lake Erie and working with partners on the next steps. Rebecca noted that registration for the Invasive Species Centre's annual virtual Invasive Species Forum taking place in February is now open. She highlighted that applications are being accepted for the Invasive Species Action Fund and the Invasive Phragmites Control Fund in Ontario. Rebecca also announced the International Conference on Aquatic Invasive Species with a theme of "Transcending Boundaries," scheduled for August 23-27, 2026, in Belfast, Ireland, which will focus on integrating research and practice to address aquatic invasive species. She concluded by noting that more information is available at [invasive-species-centre.ca](http://invasive-species-centre.ca) and [icase.org](http://icase.org), and potential event partners are encouraged to connect with the Centre for involvement.

Nancy Goucher (Water Institute, University of Waterloo) highlighted the conclusion of the nine-year Global Water Futures program, a \$360 million initiative co-led by the University of Waterloo and three other universities under Dr. John Pomeroy from the University of Saskatchewan. The program trained over 2,000 water science students, produced 2,000+ peer-reviewed papers, and established 60 monitoring sites across Canada, which continues under the Global Water Futures Observatories. Nancy also highlighted an upcoming impact report that will detail the program's achievements, including the Lake Futures project led by Dr. Nandita Basu, which focused on watershed and lake modeling. Key findings include rising phosphorus levels in Southern Ontario watersheds and strategies for phosphorus recovery through improved manure management. Nancy concluded by offering to arrange webinars or presentations to share more insights from this work.

## **SUMMARY OF ACTION ITEMS AND MEETING WRAP UP**

- GLEC members and observers to review the June 2024 GLEC meeting summary and email any requested changes to [glwqa@epa.gov](mailto:glwqa@epa.gov) and [glwqa-aqegl@ec.gc.ca](mailto:glwqa-aqegl@ec.gc.ca) by December 23, 2024.
- Annex Co-Leads charged to begin drafting the 2025 Progress Report of the Parties in January 2025.
- GLEC Secretariat will develop and make available a detailed summary of the GLWQA review findings in the March 2025 timeframe.
- Drafting of 2026-2028 draft Binational Priorities for Science and Action to begin in March 2025.
- \*GLEC members and observers input on the Chemicals of Mutual Concern (CMC) Annex Co-Lead recommendation that sulphate should not be designated as a candidate CMC to be sent to [glwqa@epa.gov](mailto:glwqa@epa.gov) and [glwqa-aqegl@ec.gc.ca](mailto:glwqa-aqegl@ec.gc.ca) by January 31, 2025.
- Nutrients Annex Co-Leads to return to the June 2025 GLEC meeting to discuss updates to Domestic Action Plans.
- Draft 2025 SOGL to be shared with GLEC for red-flag review in spring of 2025.

The next GLEC meeting was announced to take place in the U.S. from June 10 -11, 2025.

**GLEC MEETING PARTICIPANTS DECEMBER 10-11, 2024 – virtual and in-person**

1. Antonette Arvai (International Joint Commission)
2. Kendra Axness (Wisconsin Department of Natural Resources)
3. Sean Backus (Canada Water Agency)
4. Andrew Bahrou (Michigan Department of Environment, Great Lakes, and Energy)
5. Rick Balla (U.S. Environmental Protection Agency Region 2)
6. Pierre Baril (International Joint Commission)
7. Kirk Beckmann (U.S. Coast Guard)
8. Mary Bellissimo (Canada Water Agency)
9. Sandy Bihn (Lake Erie Waterkeeper)
10. Jean Bourdon (Canadian Coast Guard)
11. Lynn Bouvier (Fisheries and Oceans Canada)
12. Ryan Bowie (Chiefs of Ontario)
13. Eric Brown (Great Lakes Commission)
14. Timothy Bruno (Pennsylvania Department of Environmental Protection)
15. Sophie Buchholz (Little Traverse Bay Bands of Odawa Indians)
16. Cal Buelo (Environmental Protection Agency)
17. Mark Burrows (International Joint Commission)
18. Luca Cagnelli (Canada Water Agency)
19. Mimi Santano Carrasco (Ministry of Natural Resources and Forestry)
20. Danielle Cheskey (Embassy of Canada in Washington DC)
21. Matthew Child (International Joint Commission)
22. Stacey Cherwaty (Canada Water Agency)
23. Robin Clark (Sault Ste. Marie Tribe of Chippewa Indians)
24. Steve Clement (Canada Water Agency)
25. Madelyne Cosme (Canada Water Agency)
26. Jesse Gardner Costa (Fisheries and Oceans Canada)
27. Sydney Currier (Invasive Species Centre)
28. Fe de Leon (Canadian Environmental Law Association)
29. Christie Deloria (U.S. Fish and Wildlife Service)
30. Melissa De Young (Pollution Probe)
31. Trent Desaulniers (Métis Nation of Ontario)
32. Holly Dolan (Ministry of Agriculture, Food and Rural Affairs)
33. Rebecca D’Orazio (Invasive Species Centre)
34. Shannon Dougherty (New York State Department of Environmental Conservation)
35. Darlene Dove (Ministry of Natural Resources and Forestry)
36. Sara Drescher (Forest County Potawatomi Community)
37. Oliver Dumville (International Joint Commission)
38. Elizabeth Everhardus (Ontario Ministry of the Environment, Conservation and Parks)
39. Pamela Finlayson (Canada Water Agency)
40. Emily Finnell (Michigan Department of Environment, Great Lakes, and Energy)
41. Mark Fisher (Council of the Great Lakes Region)
42. Melanie Foose (Michigan Department of Environment, Great Lakes, and Energy)
43. Bonnie Fox (Conservation Ontario)
44. Danny Galarneau (Natural Resource Canada)

45. Anne Gosselin (Environment and Climate Change Canada)
46. Nancy Goucher (Water Institute, University of Waterloo)
47. Breanna Green (International Joint Commission)
48. Tracie Greenberg (Environment and Climate Change Canada)
49. Amanda Greer (Canadian Coast Guard)
50. Daria Gundermann (ORISE / U.S. Environmental Protection Agency)
51. Lawrence Gunther (Blue Fish Canada)
52. Sharon Hayes (Parks Canada)
53. Kristina Heinemann (Environmental Protection Agency)
54. Brad Hill (Environment and Climate Change Canada)
55. Elizabeth Hinchey (Environmental Protection Agency)
56. Veronique Hiriart-Baer (Canada Water Agency)
57. Anders Holder (Canada Water Agency)
58. Jon Hortness (United States Geological Survey)
59. Dylan Hrach (Canada Water Agency)
60. Ena Humphries (National Oceanic and Atmospheric Administration)
61. Rob Hyde (Canada Water Agency)
62. John Jackson (Great Lakes Ecoregion Network)
63. Edo Jakupovic (Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs)
64. Maria Jawaid (Canada Water Agency)
65. James Jennings (Illinois Environmental Protection Agency)
66. Jessica Jock (Saint Regis Mohawk Tribe)
67. Bretton Joldersma (Michigan Department of Environment, Great Lakes, and Energy)
68. Laura Jones (Canada Water Agency)
69. Jennifer Kanine (Pokagon Band of Potawatomi)
70. Richard Kavanagh (Canada Water Agency)
71. Meaghan Kern (Environmental Protection Agency)
72. Jennifer Keyes (Ministry of Natural Resources and Forestry)
73. Carol Kim (Canada Water Agency)
74. Roger Knight (Great Lakes Fishery Commission)
75. Rebecca Knoche (National Oceanic and Atmospheric Administration)
76. Gary Kohlhepp (Michigan Department of Environment, Great Lakes, and Energy)
77. Rebecca Kolarich (Environmental Defence Canada)
78. Ash Kumar (Canada Water Agency)
79. Sarah Larocque (Fisheries and Oceans Canada)
80. Deborah Lee (NOAA Great Lakes Environmental Research Laboratory)
81. James Lehnen (New York State Department of Environmental Conservation)
82. Sarah LeSage (Michigan Department of Environment, Great Lakes, and Energy)
83. Jessica Lienhardt (Great Lakes-St. Lawrence Legislative Caucus)
84. Caroline Lou (Canada Water Agency)
85. Leo Luong (Ontario Ministry of the Environment, Conservation and Parks)
86. Angela Majic (Natural Resources Canada)
87. Eunice Mang (Canada Water Agency)
88. Gurpreet Mangat (Canada Water Agency)
89. Stephen Marklevitz (Ministry of Natural Resources and Forestry)
90. Andrea Martin (Ontario Ministry of Agriculture, Food and Agribusiness)
91. Catherine Masson (Trent University)

92. Laud Matos (Canada Water Agency)
93. Greg Mayne (Canada Water Agency)
94. Daryl McGoldrick (Environment and Climate Change Canada)
95. Melissa Fabian Mendoza (Canadian Nuclear Safety Commission)
96. Felicia Minotti (Global Affairs Canada)
97. Tricia Mitchell (Fisheries and Oceans Canada)
98. Caroline Moellering (Little Traverse Bay Bands of Odawa Indians)
99. Jesica Moreno (Canada Water Agency)
100. Joy Mulinex (Ohio Environmental Protection Agency/Ohio Lake Erie Commission)
101. Phillipe Murphy-Rhéaume (Great Lakes and St. Lawrence Cities Initiative)
102. Sonny Myers (1854 Treaty Authority)
103. Allison Needham (Georgian Bay Association)
104. Todd Nettesheim (Environmental Protection Agency)
105. Alisa Nguyen (Department of State)
106. Carolyn O'Neill (Ontario Ministry of the Environment, Conservation and Parks)
107. Jacob Orlandi (Canada Water Agency)
108. Stephanie Otto (Canada Water Agency)
109. Paul Parete (Canada Water Agency)
110. Scott Parker (Parks Canada)
111. Matthew Pawlowski (Environmental Protection Agency)
112. Liz Phillips (Georgian Bay Association)
113. Ivana Pekaric-Falak (Ministry of Agriculture, Food and Rural Affairs)
114. Claire Penstone (Canada Water Agency)
115. Harold Peterson (Bureau of Indian Affairs)
116. Carl Platz (U.S. Army Corps of Engineers)
117. Jerry Popiel (U.S. Coast Guard)
118. Kevin Rath (Métis Nation of Ontario Great Lakes Advisory Group)
119. Cameron Richardson (Town of Ajax)
120. Shelby Robertson (Environment and Climate Change Canada)
121. Daniel Rokitnicki (Canada Water Agency)
122. Lindsay Rogers (Métis Nation of Ontario Great Lakes Advisory Group)
123. Evan Ronan (Ministry of Natural Resources and Forestry)
124. Lyne Sabourin (International Joint Commission)
125. Andrea Schaller (Environmental Protection Agency)
126. James Schardt (Environmental Protection Agency)
127. Lisa Sealock (Canada Water Agency)
128. Teresa Seidel (Environmental Protection Agency)
129. Jocelyn Sherwood (Canada Water Agency)
130. Jane Shimono (Transport Canada)
131. Brad Simpson (Public Services and Procurement Canada)
132. Kushal Som (Environmental Protection Agency)
133. Nancy Stadler-Salt (Canada Water Agency)
134. Bethanie Stauffer (Environmental Protection Agency)
135. Sadie Stevens (Forest Service)
136. Alan Stratton (Georgian Bay Association)
137. Heather Stirratt (International Joint Commission)
138. Wade Strickland (Wisconsin Department of Natural Resources)
139. Chloe Stuart (Ontario Ministry of the Environment, Conservation and Parks)

140. Stephanie Swart (Michigan Department of Environment, Great Lakes, and Energy)
141. David Sweetnam (Georgian Bay Forever)
142. Kate Taillon (Canada Water Agency)
143. Jennifer Thomas (Fisheries and Oceans Canada)
144. Samantha Todaro (Michigan Department of Environment, Great Lakes, and Energy)
145. Carla Torchia (Canada Water Agency)
146. Chuck Traxler (U.S. Fish and Wildlife Service)
147. Josh Valder (United States Geological Survey)
148. Jen Vanator (Great Lakes Indian Fish and Wildlife Commission)
149. Emma Vandendries (Canada Water Agency)
150. Jennifer Vincent (Canada Water Agency)
151. Allison Voglesong Zejnati (International Joint Commission)
152. Melanie Ward (Ministry of the Environment, Conservation and Parks)
153. Mike Weimer (U.S. Fish and Wildlife Service)
154. John Wilson (International Joint Commission)
155. Aaron Woldt (U.S. Fish and Wildlife Service)
156. Santina Wortman (Environmental Protection Agency)
157. Rachel Wyatt (International Joint Commission)
158. Erica Yang (Environmental Protection Agency)
159. Natalia Yarkova (Ontario Ministry of Agriculture, Food and Agribusiness)
160. Ram Yerubandi (Environment and Climate Change Canada)
161. Abigail Young (Environment and Climate Change Canada)
162. Alisa Young (NOAA Great Lakes Environmental Research Lab)