

Great Lakes Executive Committee Webinar Summary
June 23, 2020

CO-CHAIRS' WELCOMING REMARKS

U.S. Great Lakes Executive Committee (GLEC) Co-Chair, Chris Korleski (U.S. Environmental Protection Agency, EPA) opened the meeting by introducing Mr. Kurt Thiede, Regional Administrator for EPA Region 5 and the U.S. Great Lakes National Program Manager.

Kurt thanked the GLEC for their collective work to protect the Great Lakes. Kurt also shared some of EPA's recent Great Lakes accomplishments, crediting bipartisan support from Congress for the Great Lakes Restoration Initiative as a primary vehicle for much of this work. Since 2010, the U.S. Great Lakes Restoration Initiative (GLRI) has funded more than 5,300 projects. New activities will include accelerating the cleanup and restoration of Areas of Concern, funding research and development of ballast water treatment systems, supporting state activities to reduce excess nutrient loads, restoring habitat, control and prevent invasive species, and supporting the new Great Lakes Trash-Free Waters Program. Kurt also mentioned the re-establishment Great Lakes Advisory Board to provide advice and recommendations on matters related to Great Lakes Restoration Initiative and the U.S. implementation of the Great Lakes Water Quality Agreement (GLWQA or Agreement). He concluded by saying that he looked forward to a continued partnership with Canada to ensure the Great Lakes remain an environmentally and economically important resource for both nations.

Chris followed by briefly remarking on the impacts of COVID-19 on governmental operations, including some impacts and delays this summer. However, he noted that while agencies are trying to protect employees and minimize risks, the GLEC member agencies are definitely still working. Chris provided some additional logistical direction for minimizing background noise on the phone, before turning it over to Canadian Co-Chair Michael Goffin (Environment and Climate Change Canada, ECCC).

Michael acknowledged the challenges we all faced having to deal with our own personal, family, and work situations and expressed appreciation for attendees being able to participate in the GLEC meeting. He also expressed thanks to the GLWQA Annex Co-Leads and members of the Annex Subcommittees for continuing Agreement work during these difficult times including the recent release of the State of the Lakes 2019 Highlights Report and made note of the efforts undertaken by the Annex Subcommittees (further details to be found in the GLEC meeting briefing binder). Michael concluded his opening remarks by saying that he looked forward to a future in-person GLEC meeting as it fosters further relationship building, collaboration, co-operation and learning.

A list of meeting attendees can be found in Appendix A.

BUSINESS ITEMS

Chris Korleski provided an update on the following December 2019 action items:

- The Secretariat shared the current GLEC member and observer membership list and members participating on the Annex Subcommittees and requested GLEC review and consideration of additional participation. After receiving updates, the Secretariat subsequently updated these lists.
- GLEC input regarding any conflicts for the proposed June 2020 GLEC meeting dates was requested and following GLEC feedback the date for this June 23, 2020 GLEC meeting was established.
- The GLEC was requested to provide comments on the draft 2020-2022 Binational Priorities for Science and Action to the Secretariat by January, which was completed.
- Chris indicated that with respect to the last action item – for the Parties to finalize the draft 2020-2022 Binational Priorities for Science and Action by March 31st, 2020 – was not completed. Chris explained that it has taken additional time due to his desire to ensure the clarity, the conciseness, and the understandability of those goals, as well as the time needed for senior-level review at EPA.

Chris also mentioned that briefing material includes the 2019 December meeting summary, as well as the briefing documents which describe the Annex specific activities which have been completed over the last six months and activities for the next six months. He provided a general overview of the agenda, which consists of presentations of some Great Lakes key issues for discussion.

The following is a concise summary of the presentations made at the meeting.

THIRTY-FIVE YEARS OF RESTORING GREAT LAKES AREAS OF CONCERN: GRADUAL PROGRESS, HOPE FOR THE FUTURE

Chris Korleski introduced Mr. John Hartig, a Great Lakes Science-Policy Advisor for the International Association for Great Lakes Research and Visiting Scholar for the Great Lakes Institute for Environmental Research at University of Windsor. John described how rapid natural resource use and industrialization led to the pollution of the Great Lakes and how the Remedial Action Plans for Areas of Concern focused cleanups at the most polluted areas of the Great Lakes. Since their inception, seven AOCs have been delisted, two designated as Areas of Concern in Recovery, and there are 10 where all identified remedial actions and monitoring have been implemented. Over the course of the program (1985 to 2019), about \$USD 22.78 billion have been spent by the U.S. and Canada. He provided several case studies (including at Buffalo River, Toronto & Region, Detroit River) which quantified economic improvements as a result of remediation activities. As part of his conclusions, he noted that AOC restoration should be viewed as spending to help revitalize communities which has over a 3-1 return on investment.

HIGH WATER IMPACTS AND EFFORTS TO IMPROVE COASTAL RESILIENCY WITHIN THE U.S.

Chris Korleski introduced David Bucaro from the Army Corps of Engineers – Chicago District. David presented on U.S. efforts taken to address high water impacts in the Great Lakes. He began by

describing current and forecasted Great Lakes water levels. After a decade of low water levels and record lows, the Great Lakes have rapidly undergone a record rise and record highs. He noted that regulation of outflows (St. Marys and St. Lawrence) cannot prevent extreme high or low water levels from occurring, nor can it fully control water levels. He then provided examples of U.S. Army Corps of Engineers (USACE) restoration projects that incorporated resilient design, including Clinton River (Michigan) and Braddock Bay (New York). The USACE is exploring a more comprehensive study to address shoreline protection and resiliency in areas affected by flooding due to high lake water levels, The study would create management plans to be carried out by responsible federal agencies and would identify projects for construction authorization.

PFAS AND OTHER EMERGING CONTAMINANTS IN HISTORIC LANDFILLS ACROSS ONTARIO

Michael Goffin introduced Jim Roy from Environment and Climate Change Canada. Jim provided an overview of a study of Per- and polyfluoroalkyl substances (PFAS) and other emerging contaminants in historic landfills across Ontario. He noted that there are over 4,000 historic or aging landfills and they may lack liners or leachate collection systems. In his study, leachate from twenty landfills was analyzed. PFAS was found in landfills dating back to 1960s, but results were quite variable. Some newer landfills and landfills near firefighter training sites had high concentrations of PFAS. Transport of leachate chemicals to surface water was also variable, occurring in some locations at potentially environmentally relevant concentrations. The study also investigated organophosphate esters (OPE), bisphenols A and S, sulfamic acid, cotinine (nicotine derivative), and artificial sweeteners.

VESSEL INCIDENT AND DISCHARGE ACT (VIDA) RESEARCH AND DEVELOPMENT PLAN FOR LAKERS

On behalf of Michael Goffin, Carla Torchia from the GLEC Secretariat, opened the afternoon session and introduced Carolyn Junemann from the Maritime Administration and Holly Galavotti from EPA. The presenters provide an overview of U.S. efforts on ballast water treatment technology, including a new Great Lakes Ballast Water Research & Development Plan. The research and development plan will begin with stakeholder consultations (virtual) over the summer. Future work will likely include: identification of methods and assessment of costs for Great Lakes ballast water management; development of a Great Lakes-relevant performance testing protocol; acceleration of emerging ballast water treatment technology development; monitoring methods; and assessment of the risk of aquatic nuisance species transfer from ballast water discharge. The presenters also provided a summary of ballast water regulations. EPA's proposed rule for discharge standards is pending interagency review and approval; it is expected to be finalized by the December 2020 deadline. The USCG rule on implementation and enforcement of standards is due within 2 years of EPA's discharge standards.

AQUATIC INVASIVE SPECIES - ASIAN CARP UPDATE

Chris Korleski introduced Mike Weimer from the U.S. Fish and Wildlife Service, John Navarro from Ohio Department of Natural Resources, and Sarah Eddy from Fisheries and Oceans Canada.

Mike Weimer provided an overview of the Asian Carp Response Coordinating Committee's (ACRCC) 2020 Action Plan. The ACRCC's mission is to prevent the introduction and establishment of Asian carp in the Great Lakes. It's a binational partnership of twenty-eight U.S. and Canadian Federal, Tribal, State, and Provincial agencies/organizations that was created in 2010 due to the increasing threat to the Great Lakes from the upstream advance of Asian carp from Mississippi River basin. Annual investment in 2020 from participating agencies is \$24.8M, and an additional \$21M of enhanced work is funded by the Great Lakes Restoration Initiative. Work under the plan includes targeted monitoring in the Illinois water ways and the Great Lakes, strategic population reduction through intensive harvest, use of established prevention efforts (e.g. Electric Dispersal Barrier), closing of episodic waterway connections identified USACE's GLMRIS study, and the development of new deterrent technologies.

John Navarro provided an overview of Grass Carp control work in Lake Erie. The work is guided by the Great Lakes Fishery Commission's Lake Erie Committee's (LEC) 5-year Adaptive Response Strategy, 2019-2023. Major focuses of the plan is the removal of 390 grass carp annually, feasibility studies of a seasonal barrier, investigations to determine the catchability of grass carp, and additional research to understand spawning periods. Total annual funding is \$800K in agency base funds, \$1M from the Great Lakes Fishery Commission, and \$1.93M of enhancements from GLRI. Priority for removal efforts continues to be the Sandusky River, with the Maumee River as a secondary priority.

Sarah Eddy provided an overview of Fishery and Ocean Canada's (DFO) Asian Carp Program, with a focus on the 2020 Early Detection Surveillance activities. DFO will be prioritizing efforts in the highest risk sites: Lake Erie and the Huron-Erie Corridor. DFO is coordinating early detection surveillance efforts with Ministry of Natural Resources and Forestry. In addition, the Incident Command Response System has been refined and is ready for implementation, led by DFO with MNRF participation as necessary.

DISCUSSION RELATED TO ANNEX INFORMATION NOTES

An opportunity was provided during the meeting for attendees to provide comments or ask questions about any of the Annex related work and the information notes included in the briefing material.

Comments and questions raised by several attendees focused on Asian carp, including grass carp reproduction and the status of grass carp populations and potential commercial uses for harvested Asian Carp; benefits of ongoing collaborations between fishery managers and the water quality managers; and ballast water technology and regulations.

GLEC MEMBER UPDATES AND OBSERVER COMMENTS

Andrew McAllister, Canadian Nuclear Safety Commission (CNSC), noted that Ontario Power Generation's proposed deep geological repository in the Bruce area along Lake Huron was discontinued following the Saugeen Ojibway Nation referendum and voting no to that project. Andrew noted that the Nuclear Waste Management Organization site selection process for a deep geological repository to store used nuclear fuel is underway with two proposed areas –Ignace located approximately 250 kilometers from Lake Superior and the South Bruce area in the vicinity of Lake Huron. The work, which is in the pre-license application stage (no application to the CNSC yet) includes hole drilling, geophysical studies, environmental monitoring, and Indigenous engagement. Finally, Andrew noted that the Darlington Nuclear Power Plant, located about 60 kilometers east of Toronto and Lake Ontario have refurbished the Unit 2 reactor and it is back online, and three more reactor units are to be refurbished.

John Jackson, Toxic-Free Great Lakes Binational Network, commented that work under the Chemicals of Mutual Concern Annex is significantly delayed. Monthly meetings continue but five of the eight CMC Strategies have not been completed and have not been approved. The designation of chemicals of mutual concern is also significantly delayed. In March 2017, four substances were nominated but no decisions have been made. He expressed concerns about barriers to making progress in this Annex. Chris Korleski responded that he thought his factual assessment was accurate and expressed his difficulty in moving these actions along more quickly.

Dr. Javier Laureano, EPA Region 2, noted that EPA continues to make great progress towards releasing the Rochester Embayment AOC. In 2019, all management actions required to remove beneficial use impairments (BUIs) were completed. Nine out of fourteen BUIs have been already removed. Three BUIs are scheduled to be removed by September 2020, and the final two next year in 2021. EPA and ECCC are assessing whether to revise the 2012 GLWQA phosphorous concentration and the phosphorous loading targets in order to achieve lake ecosystem objectives for Lake Ontario. Javier noted that for the Cooperative Science and Monitoring Initiative, 2020 is Lake Ontario's reporting year and later this year SeaGrant will be publishing a report on the U.S. funded activities. He also pointed out that the State of Lake Ontario Conference is now planned for March 2021, originally scheduled for October 2020. Finally, Javier noted that EPA also developed a draft report to Congress for the Vessel Incidental Discharge Act (VIDA) which identifies the current state of invasive species control and prevention programs for these two basins and plans for using future VIDA appropriations to address gaps in these programs.

Jane Corwin, the U.S. Chair of the International Joint Commission (IJC), acknowledged the other IJC Commissioners who are on the call today including Pierre Beland, the Canadian IJC Co-Chair, as well as Rob Sisson and Lance Yohe from Montana and North Dakota, respectively. Jane noted that the IJC has had a very busy first year since the six Commissioners were appointed in May of 2019. Jane also noted that Lake levels are at their historic highs – the four upper Great Lakes are near or above record high levels while Lake Ontario water level is below flood level but above the long-term average. She commented that extreme water levels are determined by nature and that all levels of government must work to make shoreline communities more resilient. Jane noted that the Commission is close to finalizing the content of its second (triennial) assessment of progress report and it will be released later

this summer, which will summarize public and other stakeholders comments and the IJC's comments and recommendations on climate change impacts, and government accountability, transparency and public engagement. Jane made note of the 50th anniversary of the GLWQA is in 2022. She also noted that the Agreement includes a provision that the Parties are tasked with a review of the operation and effectiveness of the agreement. She concluded by complimenting Chris and Michael for holding this virtual GLEC meeting to help keep things moving forward. Chris thanked Jane and thanked the other commissioners for attending.

Joy Mulinex, Ohio Lake Erie Commission, noted that despite the COVID pandemic's impact on State budgets, Governor DeWine is proceeding to implement almost all of Ohio's first-year of H2Ohio funding for three focus areas in the Maumee watershed. Joy pointed out that nearly 2,000 farmers have signed up for undertaking agricultural practices on their farms, wetlands restoration, and some assistance for home sewage treatment systems in the region that will go through the county health departments. Joy also noted that Ohio will also be banning all open lake disposal of dredge spoils, which will take effect in July. Finally, Joy made note and thanked the general assemblies' appropriation of \$20 million for local projects, which will reuse and recycle all of the dredge spoils.

Sandy Bihn, Lake Erie Waterkeeper, requested that future GLEC meetings include a report out for all 10 GLWQA Annexes with follow-up question and answer period. She also requested that all the Annexes and GLEC itself assess changes in water quality and public drinking water sources in the Great Lakes and to update the Great Lakes' water quality drinking water indicator to include scientifically based source water assessment and changes in each reporting period.

Lisa Janeiro, Great Lakes-St. Lawrence Legislative Caucus (GLLC), highlighted that the GLLC is a bi-national, non-partisan organization of legislators serving in the Great Lakes region, founded in 2003. She mentioned that many of the topics on today's agenda --- the clean-up of AOCs and the economic benefits that results from those investments, high lake levels and the impact they are having on coastal communities, nutrients and other chemicals of emerging concerns that affect drinking water resources and aquatic nuisance species introduced in or spreading throughout the Great Lakes in (ballast) water --- all require a significant investment on the part of the federal government, municipalities, and state and provincial government. Lisa pointed out that the economic impact of the COVID pandemic will have an impact on the ability to devote the necessary resources to some of the issues that are most important to the Great Lakes community. She noted that there will be a need to manage expectations and coordinate regionally to identify the most critical investment with the biggest return for protecting the public and environment; and a need to work together as a community to increase investments following the pandemic. She concluded by noting that investments specifically from the states and the provinces will be critical to the collective success and that she is encouraged the GLEC engages with GLLC members, as it is important that state and provincial legislators are part of the discussion.

Michael Goffin, ECCC, The Prime Minister has directed the Minister of the Environment and Climate Change Jonathan Wilkinson to, with the support of the Minister of Agriculture and Agri-Food, create a new Canada Water Agency to work together with the provinces, territories, Indigenous communities, local authorities, scientists and others to find the best ways to keep water safe, clean and well-managed.

Michael noted that comprehensive analysis is underway and that the effort will look at water quality and quantity with respect to surface water, ground water, and frozen water. Michael noted that ECCC hopes to have a discussion document by the late fall and to use that as the basis of in-depth engagement. Michael encouraged GLEC to keep informed about the Canada Water Agency and noted that there is [online opportunity](#) for people to provide their thoughts on what the freshwater management priorities are in Canada and responsibilities for such an Agency.

CONCLUDING REMARKS AND NEXT MEETING

Chris Korleski noted the changing nature of the challenges the GLEC deals with, including chemical contamination and water levels, and the added challenge of the pandemic. There continues to be a tremendous amount of work to be done and success is only possible if agencies continue to partner with each other. He expressed a hope that the next meeting could be in-person, but also recognized that the future was uncertain.

Michael Goffin mentioned that two sets of dates are being considered for the December GLEC meeting – December 9th and 10th, or December 15th and 16th. He asked GLEC members to identify any potential conflicts with these dates. Michael concluded by thanking everyone for their participation.

ACTION ITEMS

- GLEC members and observers to identify any conflicts with the two sets of proposed meeting dates for the December 2020 GLEC meeting (December 9-10 and December 15-16) by emailing ec.acegl-glwqa.ec@canada.ca and glwqa@epa.gov.

GLEC MEETING PARTICIPANTS DECEMBER 4-5, 2019

[derived from email of webinar attendees]

Canadian Participants

1. Paul Allen	International Joint Commission
2. Janette Anderson	Environment and Climate Change Canada
3. Antonette Arvai	International Joint Commission
4. Sean Backus	Environment and Climate Change Canada
5. Sarah Bailey	Fisheries and Oceans Canada
6. David Burden	International Joint Commission
7. Jennifer Boehme	International Joint Commission
8. Mark Burrows	International Joint Commission
9. Shampa Chakraborty	Environment and Climate Change Canada
10. Adam Chamberlain	Georgian Bay Forever
11. Stacey Cherwaty	Environment and Climate Change Canada
12. Matthew Child	International Joint Commission
13. Russ Consor	International Joint Commission
14. Erika Klyszejko	International Joint Commission
15. Danielle Chesky	International Joint Commission
16. Gavin Christie	Fisheries and Oceans Canada
17. Steve Clement	Environment and Climate Change Canada
18. Jewel Cunningham	Parks Canada
19. Sabrina Dadrian-Kassabian	Global Affairs Canada
20. Melissa DeYoung	Pollution Probe
21. Frances Delaney	Environment and Climate Change Canada
22. John Dungavell	Ontario Ministry of Natural Resources and Forestry
23. Sara Eddy	Fisheries and Oceans Canada
24. Susan Evans	Global Affairs Canada
25. Elizabeth Everhardus	Ontario Ministry of the Environment, Conservation and Parks
26. Bonnie Fox	Conservation Ontario
27. Danny Galarneau	Natural Resources Canada
28. Raj Gill	Fresh Water Alliance
29. Nancy Goucher	University of Waterloo
30. Wellsley Hamilton	Environment and Climate Change Canada
31. Colin Henein	Transport Canada
32. Rachael Homewood	Global Affairs Canada
33. Sarah Hughes	Transport Canada
34. Susan Humphrey	Environment and Climate Change Canada
35. Jackson John	Toxics Free Great Lakes
36. Sharilyn Johnston	Aamjiwnaang First Nation
37. Shaffina Kassam	Environment and Climate Change Canada
38. Rupert Kindersley	Georgian Bay Association
39. Bob Lambe	Great Lakes Fishery Commission
40. Christine Levicki	Health Canada

41. Anastasia Lintner	Canadian Environmental Law Association
42. John Marsden	
43. Valerie Marshall	Health Canada
44. Masson Catherine	
45. Andrew McAllister	Canadian Nuclear Safety Commission
46. Daryl McGoldrick	Environment and Climate Change Canada
47. Sarah Miller	
48. Tricia Mitchell	Environment and Climate Change Canada
49. Mohamed Mohamed	Environment and Climate Change Canada
50. Anna Marie Muise	Environment and Climate Change Canada
51. David Nanang	Fisheries and Oceans Canada
52. Brayden Nilsen	Environment and Climate Change Canada
53. Scott Parker	Parks Canada
54. Jacob Orlandi	Métis Nation
55. Robert Phillips	International Joint Commission
56. Quealey Patrick	Environment and Climate Change Canada
57. Sarah Rang	Invasive Species Centre
58. Jenn Richards	Ontario Ministry of Agriculture, Food and Rural Affairs
59. Violeta Richardson	Environment and Climate Change Canada
60. Chris Robinson	
61. Mary-Ann Robinson	Environment and Climate Change Canada
62. Jim Roy	Environment and Climate Change Canada
63. Mitra Saidi	Public Services and Procurement Canada
64. Emily Santoro	Ontario Ministry of the Environment, Conservation and Parks
65. Kelsey Scarfone	Environmental Defence
66. Rebecca Schroeder	Invasive Species Centre
67. Lisa Sealock	Environment and Climate Change Canada
68. Shannon Seko	Transport Canada
69. Julie Simard	Ontario Ministry of Natural Resources and Forestry
70. Barbara Slezak	Public Services and Procurement Canada
71. Nancy Stadler-Salt	Environment and Climate Change Canada
72. David Sweetnam	Georgian Bay Forever
73. Kate Taillon	Environment and Climate Change Canada
74. Douglas Tate	Parks Canada
75. Mary Thiess	Fisheries and Oceans Canada
76. Allison Zejnati	International Joint Commission
77. Natalija Vojno	
78. Lizhu Wang	International Joint Commission
79. Adam Weir	Ontario Federation of Anglers and Hunters
80. John Wilson	International Joint Commission
81. Ram Wilson	Environment and Climate Change Canada
82. Fe de Leon	Canadian Environmental Law Association
83. Jovana Djermanovic	Ontario Ministry of Agriculture, Food and Rural Affairs
84. Valerie Hourdebaigt	Environment and Climate Change Canada
85. Gail Krantzberg	McMaster University
86. Alesia Kurlek	Environment and Climate Change Canada
87. Paul Parete	Environment and Climate Change Canada
88. Sara Peckford	Ontario Ministry of Agriculture, Food and Rural Affairs

89. Raj Bejankiwar	International Joint Commission
90. John Higham	Transport Canada
91. Ash Kumar	Environment and Climate Change Canada
92. Ling Mark	Ontario Ministry of the Environment, Conservation and Parks
93. Felicia Minotti	Global Affairs Canada
94. Patty Ann Owl	Chiefs of Ontario
95. Rebecca Schroeder	Invasive Species Centre

U.S. Attendees

1. David Arquette	Haudenosaunee Environmental Task Force
2. Timothy Bruno	Pennsylvania DEP
3. Rick Balla	U.S. EPA
4. Sandy Bihn	Lake Erie Waterkeeper
5. Peter Brandt	U.S. EPA
6. Todd Brennan	Alliance for the Great Lakes
7. Eric Brown	Great Lakes Commission
8. David Bucaro	USACE
9. Michelle Caldwell	Indiana DEM
10. James Clift	Michigan EGLE
11. Jane Corwin	International Joint Commission
12. Carrie Coy	Little Traverse Bay Bands of Odawa Indians
13. Joshua Cummings	U.S. DOS
14. Jennifer Day	NOAA
15. Christopher Dere	U.S. EPA
16. Michele Fafette	U.S. EPA
17. Jack Faulk	U.S. EPA
18. Emily Finnell	Michigan EGLE
19. Stephen Galarneau	Wisconsin DNR
20. Holly Galavotti	U.S. EPA
21. Daniel Gurdak	U.S. EPA
22. Patrick Hanchin	Michigan EGLE
23. John Hartig	IAGLR
24. Kristina Heinemann	U.S. EPA
25. Gail Hesse	National Wildlife Fund
26. Elizabeth Hinchey	U.S. EPA
27. Rick Hobrla	Michigan EGLE
28. Shannon Holsey	Stockbridge-Munsee Community Band of Mohican Indians
29. Jon Hortness	USGS
30. Isham Michael	Great Lakes Indian Fish and Wildlife Commission
31. Lisa Janairo	Council of State Governments
32. Theo Jass	U.S. EPA
33. Erika Jensen	Great Lakes Commission
34. Jessica Jock	St. Regis Mohawk Tribe
35. Bretton Joldersma	Michigan EGLE
36. Carolyn Junemann	MARAD-DOT
37. Jennifer Kanine	Pokagon Band

38. Tyler Kaspar	1854 Treaty Authority
39. Tiffani Kavalec	Ohio EPA
40. Roger Knight	Great Lakes Fishery Commission
41. Ben Koski	Forest County Potawatomi
42. Robert Krska	USFWS
43. Sue Kueste	U.S. DOS
44. Hala Kuss	Indiana DEM
45. Michael Kuzia-Carmel	New York DEC
46. Eda Lam	U.S. EPA
47. Madeline Lambrix	U.S. EPA
48. Charles Lawson	International Joint Commission
49. Jim Lehnen	New York DEC
50. Sarah LeSage	Michigan EGLE
51. Tony Martig	U.S. EPA
52. Edwin Martinez	USDA
53. Ann McCammon Soltis	Great Lakes Indian Fish and Wildlife Commission
54. Caroline Moellering	Little Traverse Bay Bands of Odawa Indians
55. David Morrison	U.S. DOS
56. Joy Mulinex	Office of Governor of Ohio
57. Michael Murray	National Wildlife Foundation
58. Sonny Myers	1854 Treaty Authority
59. John Navarro	Ohio DNR
60. Tammy Newcomb	Michigan DNR
61. Linda Nguyen	Red Cliff Band of Lake Superior Chippewa
62. Darren Nichols	Great Lakes Commission
63. Lori Nordstrom	USFWS
64. Eric Olsen	Grand Traverse Band of Ottawa and Chippewa Indians
65. Mario Paula	U.S. EPA
66. Harold Peterson	Bureau of Indian Affairs
67. Bruno Pigott	Indiana DEM
68. Carl Platz	USACE
69. Matt Preisser	Michigan EGLE
70. Howard Reeves	USGS
71. Michael Russ	U.S. EPA
72. Nadia Sbeih	U.S. DOS
73. Victor Serveiss	International Joint Commission
74. Aisha Sexton-Sims	U.S. EPA
75. Rob Sisson	International Joint Commission
76. Kushal Som	U.S. EPA
77. Michael Spinar	Indiana DEM
78. Kurt Thiede	U.S. EPA
79. Lorne Thomas	USCG
80. Tom Thompson	DOT
81. Jim Tierney	New York DEC
82. Marc Tuchman	U.S. EPA
83. Elizabeth VanRabenswaay	U.S. EPA
84. Jennifer Vanator	Great Lakes Indian Fish and Wildlife Commission
85. Nick Vrevich	USFS

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| 86. Charles Wooley | USFWS |
| 87. Michael Weimer | USFWS |
| 88. Ronda Wille | Great Lakes Commission |
| 89. Erin Williams | National Park Service |
| 90. Santina Wortman | U.S. EPA |
| 91. Lance Yohe | International Joint Commission |
| 92. Don Zelazny | New York DEC |