

Hudson River Estuary Advisory Committee Meeting
Minutes: March 4, 2021
Meeting held via: WebEx

1. Welcome and announcements – 124 people attended (see listing below). The meeting opened at 9:30 AM. Stuart Findlay took roll call of members and ex-officios.

Kelly Turturro, DEC R3 Regional Director, Jim Tierney, Deputy Commissioner of Water Resources and Katie Petronis, Deputy Commissioner of Natural Resources made opening remarks. Kelly looks forward to working closely with the Program. Jim Tierney thanked everyone for all the hard work they do, recognizing the important partnerships that have been built over the years through the program's collaborative approach. Katie Petronis introduced herself noting her role in overseeing several DEC Divisions, including Marine Resources, Fish and Wildlife, Lands and Forest and the Office of Recreation. She joined DEC in June and looks forward to working with everyone in her new role.

The Draft November 5, 2020 minutes were reviewed. A motion to approve was made by Lucy Johnson, seconded by Andy Bicking. The minutes were approved. (No nays were registered in the Chat box.)

2. Staff Updates:

Fran Dunwell welcomed Tom Niekrewicz to the Estuary Program's Water Team. Tom will be working out of Central office in Albany on water issues. Tom previously worked at OPRHP.

The 2021 SCA members were welcomed. This year's interns are Anna Palmer (returning), Jessenia Laureano, Audrey Trossen, Erin Carrus, Sarah Stopak and Kate Cooper.

Clif Staples, Climate Change team, is leaving the Program to take a position in DEC's Climate Office. Clif has been very helpful integrating the Estuary Program with the DEC's Climate office. We wish him well in his new job.

Retirements: Emilie Hauser has retired from the Hudson River Research Reserve where she worked for many years on coastal outreach training. We wish her well.

Clay Hiles has announced he will be stepping down as director of the Hudson River Foundation at the end of March. Jonathan Kramer will take over in April. Stuart noted there will be many chances to recognize Clay and his accomplishments in helping to move research and scientific understanding of the estuary forward.

Budget: Andy Bicking reported that the Governor's budget for this coming fiscal year continues stable funding for the Program at \$5.5 million within the \$300 million EPF. He thanked the Governor's office, DEC Commissioner Seggos, Kelly, Jim and Katie for their continued support. He noted that the State is facing difficult circumstances and is hopeful that the proposed federal Covid relief package will provide much needed help and that environmental programs will be able to move forward in the future.

Andy introduced Rocci Aguire, Scenic Hudson's new Executive Director for Policy, Advocacy and Science. Rocci has extensive experience and most recently has been working in the Adirondacks.

3. Announcements:

The 2020 State of the Hudson report has been released, It is on the NY/NJHEP website https://www.hudsonriver.org/wp-content/uploads/2021/03/HREP_SOH_Final_12-2020.pdf . The report was a joint effort between the Estuary Program and NY-NJ HEP (HEP) and involved many people and partners. All are encouraged to promote the report through their newsletters and other outlets.

The report compiles existing data and metrics, including water quality, habitat, PCBs, climate change, and access for the entire estuary. The report will be updated every 5 years. Fran thanked Rob Pirani, Isabelle Stinnette (HEP point person), NEI, and Cornell University, as well as Pace University for design of the report, and the Cary Institute which provided significant help with the Water chapter. Many Estuary Program staff contributed data and narratives. Staff who helped pull it together included John Ladd (DEC point person), Sherri Mackey and Maude Salinger.

The Draft Action Agenda 2021-2025 is making its way through DEC approvals. When released, there will be a 6-week public comment period.

The 2020-2021 Estuary Grants Request for Applications has been announced. The deadline for submissions is June 2, 2021. \$750,000 is available for projects in three categories: Stewardship, Access, and Education. Applicants must apply through the NYS Grants Gateway.

The report, "Creating and Maintaining Hudson River Views: A Handbook for Landowners" is now available at: https://www.dec.ny.gov/docs/remediation_hudson_pdf/hrviewshbk.pdf and will serve as a valuable resource for the Program and partners involved in scenic resource protection.

Fran announced that HREMAC is currently looking for people interested in serving on the committee. Anyone interested should send a letter and resume to Fran Dunwell at: HREP@dec.ny.gov. The deadline for applications is March 31, 2021.

4. Hudson River Fisheries Unit (HRFU) Updates:

Jess Best, HRFU, discussed proposed regulations that will require the use of circle hooks while fishing for striped bass using live bait starting this 2021 season as an ASMFC requirement for the entire coast. This will help reduce recreational-release mortality rates. The deadline for public comment is March 8, 2021. Comments can be sent to: fw.marine@dec.ny.gov. She thanked Riverkeeper for the positive comments received to date.

Due to COVID, HRFU was not able to do the striped bass spawning stock survey, but they were able to do the 2020 juvenile beach seine survey over the summer. The good news is that the updated index numbers for last year were the 4th highest in the time series. Hopefully this trend will continue.

The 2021 recreational striped bass season and regulations will be the same as last year:

- Hudson River north of George Washington (GW) bridge, 4/1-11/30, 1 fish /day, slot limit, 18"- 28"
- Hudson River south of GW bridge and Marine District, 4/15 – 12/15, 1 fish/day, slot limit, 28-35".

HRFU staff will report on the Shad Management Plan at the June meeting.

She also encouraged striped bass anglers to participate in DEC's Cooperative Angler Program. This is a volunteer, citizen science program that helps develop recreational fishing data and is a requirement of the ASMFC to keep the fishery open. The program promotes communication between anglers and DEC, captures river experiences, and records trips and catch rates. Hard copy or e-log books are available.

5. 2020 Annual Coordinator's Report:

Fran Dunwell presented the 2020 Coordinator's Report. This year's report includes 2020 accomplishments as well as the entire period for the complete AA 2015-2020. Fran acknowledged the importance of the Program's many partners in achieving these accomplishments. She thanked Kelly Turturro, Jim Tierney and Katie Petronis for their commitment and support.

The COVID-19 pandemic hit right around our last in-person HREMAC meeting on March 12, 2020. While it has been a challenging year, it has enabled the program to see gains in new ways.

The Estuary Program adapted surprisingly well to COVID-19 conditions and was able to conduct socially distanced field work, planting more than 3,400 trees with 300 volunteers through Trees for Tribes, one thousand (1,000) culverts were assessed for aquatic connectivity and flood concerns, and fish monitoring continued during a modified sampling season. The shift to virtual events reached thousands who attended trainings, meetings, and education programs, expanding participation to those who otherwise could not attend in-person meetings. During this past year, the Program incorporated more diversity, equity, inclusion, and justice (DEIJ) best practices into its programming.

From 2015-2020, the Program awarded 156 Estuary Grants (\$10,080,333), 114 (86%) of these are in EJ areas (\$8,621,904), including 18 access, 36 education, 14 tributary and 46 stewardship grants. Seven hundred projects were conducted in 165 communities. Our work leveraged \$43.8 million in funds from other sources. Additional highlights are summarized below.

Fisheries:

American shad: the stock remains depleted. It appears that ocean by-catch is affecting recovery. A recovery plan is under development.

Striped bass: the fishery is overfished; the use of circle hooks will help.

Sturgeon: We are seeing an upward trend in juveniles. There is no change in adults.

River herring: The stock continues to be depleted coast wide.

Aquatic Habitats:

From 2015-2020, 25 acres of tidal river habitat were restored, including the removal of 25 acres of invasive species from wetlands, 5 acres of oyster habitat were created, and 3 acres of side channel habitat were restored. Sustainable shoreline projects were underway at Nutten Hook, Watervliet, and Dock Side in Cold Spring. Submerged aquatic vegetation (SAV) continued to be monitored.

Water withdrawals: all facilities are practicing best management practices (BMPs.) The 2021 closure of Indian Point will reduce water withdrawals by 1 billion gallons/year.

Clean water:

Continued progress was made in reducing wastewater discharges through the development and implementation of long-term control plans. Asset management plans are in place for Catskill, Bethlehem, Yonkers, Carmel (3 facilities).

Improvements made to the HRECOS system continued to expand its usefulness, including the addition of current meters for navigation, the establishment of the Turkey Point tide station for flood and sea level rise (SLR) analysis, and displays installed at Pier 84, Piermont Pier, and Norrie Point Education Center for education.

Watershed Management:

From 2015-2020, nearly 60% of the watershed's culverts were assessed. Ten projects are reconnecting 33 miles of tributary stream habitats, and 27 county and local culvert management plans have been completed. Riverkeeper was a key partner.

Eight (8) miles of streamside areas were conserved. We assisted 24 watershed groups (partnering with the Hudson River Watershed Alliance) and conducted 4 years of monitoring on the Walkkill River for harmful algal blooms (HAB).

Land Use and Conservation in the Watershed:

The program launched the on-line Hudson Valley Natural Resources Mapper, bringing 40 data sets of information on the region's natural resources together in one place.

Nearly 40,000 acres of land were conserved by NYS and partners, including 5,362 acres in sight of the shoreline by DEC and OPRHP. Scenic Hudson was a key partner.

Climate Change:

One hundred twenty watershed communities have taken the Climate Smart Communities (CSC) pledge, 67 communities are working on strategies to conserve floodplains, shorelines, and free-flowing streams, and 13 have adopted plans to manage flooding and habitat. Riverfront climate-resilient designs were developed for: Catskill, Kingston, Piermont, Hudson, Ossining, and NYC's Randall's Island. Cornell was a key partner. Two engineering and design plans were developed for Kingston and Piermont (partnering with NEIWPC.)

Education and Access:

From 2015-2020, the Community Science Eel Project reached 6,000 people and caught, counted, measured, and safely released more than 1,000,000 glass eels during spring migrations.

The Program's Education team reached 90% of the school districts along the estuary, and 23 colleges now study the river.

From 2015-2020, 26 estuary grants (18 in EJ areas) helped improve access to the river at municipal and nonprofit sites for accessibility and storm resilience.

NYS OPRHP announced the completion of the Empire State Trail, including a mile of trail along the estuary at Hudson Cliffs Park, a new 520-acre parcel purchased by Scenic Hudson in the City of Kingston/Town of Ulster, that will become a new state park.

The meeting was opened for comments:

Stuart commented that these reports and metrics confirm with hard data that the Program's ambitious goals are getting done.

Jim Lodge shared that the pilot study to reestablish oysters in the Tappan Zee area (a Tappan Zee Bridge mitigation project) has been successful and a report will be out soon on the first two years of the three-year study. He stated that 1-2 years of additional funding is needed to gather data on older year classes to complete the project.

Rob Buchanan commented that support from DEC would be appreciated on the NYC long term control plan and the continued need to reduce CSOs in the city.

Suzette Lopane noted the success being made on dam removals in Westchester County, citing the work of Scott Cuppett, Megan Lung and Riverkeeper on the Furnace Brook barrier removals. Westchester County is now working on a 2nd dam removal project ¼ mile upstream on the Furnace Brook and will be initiating the permitting process shortly.

Lisa Baron reported that the Hudson River Habitat Restoration Project (HRHR) was successful in getting the Feasibility Study for three projects approved: Henry Hudson Park, Schodack Island side channel, and 3 barrier removals on the Moodna creek. These projects were then authorized in the Water Resources Development Act (WRDA) as well. This is all good news. Federal and state appropriations are needed to move these projects forward.

Rob Pirani: Rob thanked all involved in the *State of the Hudson* (SOH) report. The report establishes a common platform for the ecosystem and demonstrates the success of the region's many partnerships. There are some missing elements such as the lack of a consistent pathogen data set for the Hudson-Harbor in the upriver reaches, north of New York City (NYC). This poses challenges when demonstrating the benefits of efforts such as the Albany Pool long term control plan on the downriver ecosystem and recreational activities such as boating and swimming. HEP plans to release a water quality report for the harbor's shared waters soon as well as ten fact sheets for subregions.

Cornell Rockland County Cooperative Extension asked if WQIP grants could be opened up to other organizations beyond government entities to help pull communities together in a more unified way. Mark Lowery noted in the chat that this would require a change in legislation.

6. HREMAC Committee conversation with Kelly Turturro, Jim Tierney, and Katie Petronis:

Stuart Findlay facilitated a go-round where the committee shared comments and concerns with the three DEC Executives as summarized below.

Members:

Shino Tanikawa: The Lower Hudson Coalition of Conservation Districts continues to promote green infrastructure (GI) initiatives in NYC. Programs suspended due to COVID are planning to restart soon including contacting property owners about grant programs for installing GI.

Suzette Lopane: Westchester County continues to look for new opportunities for fish passage, dam removal, and climate change. They are working to build out electric vehicle (EV) charging station infrastructure. River towns are taking on pilot projects using low-carbon concrete.

Lucy Johnson: The Hudson River Environmental Society's set of webinars, "Hudson River Symposium '21: Hudson River Fish in an Ever-changing Ecosystem" is going well. The 5-part series is available on the web. Many DEC staff are presenting. Sustainable Hudson Valley is working on a regional plan, and progress is being made on revitalizing the Environmental Consortium.

Dan Shapley: Dan noted the DEC website post outlining the agency's regulatory agenda for the coming year is very helpful. He raised several issues of concern:

1. There continues to be a need for state water quality standards for PFOA and PFOS. This will be important for clean ups in Newburgh, and Stewart airport. There will likely be an issue about whose standards, federal or state, will be used during these clean ups.

2. He requested an update on DEC's revision of EJ policies and timeline to protect drinking water supplies in vulnerable EJ communities.

3. Regarding the SOH report, he took exception to the language used on page 21, noting Riverkeeper's water quality river sampling program and suggested the need for a tiered data system that would help the state build upon ongoing successes by the use of more data.

Stuart Findlay: The Erie Canal reimagining effort is moving forward. This is an opportunity to think big, perhaps make some changes to improve use of the resource. His particular interest is invasive species prevention. Members of the Committee have been engaged in a fact-finding effort to bring together what is known about the canal and future potential changes. He has learned a lot about what's available, who the various interest groups are, and believes it will prove useful to have this information in one, accessible place, creating a common basis of basic facts for everyone to work from.

Scott Croft – Scott thanked the Program and committee for their collective work on river issues, noting the growing interest of recreational boaters of all kinds in making the river a better place, including safety, environmental, and the need for education of new boaters on using best practices on the water. He stated support for the Circle Hook regulations. The future of the Erie Canal is an important topic as recreational boaters will be affected. He noted the challenges he has faced in getting access to some of the data. The Esopus Creek issue highlights the concerns that boat clubs on the river have with siltation in the estuary, especially at low tide.

Janet Burnet: (via Chat) Janet reported on a Rockland green infrastructure project involving constructed wetlands, streambank consolidation and culvert right sizing using native plants. They have applied for a grant and have included the project in their budgeting plans. Our nation's 250th anniversary will be in 2026. This could be an opportunity to lead the way with celebration projects on the Hudson as it is known as "Americas River."

Andy Bicking: Andy asked the group to consider some bigger picture questions; is the new federal administration's goal of "30 by 30" the right metrics for our region for land acquisition and protection? Do we need to be more aggressive to remain leaders in the state? What is the climate science, and the role of natural lands (forest and agricultural) in mitigating climate change? What are the long-term steps needed to support land managers to implement practices over time for wetlands and the river, in support of the blue carbon concept? There are many exciting opportunities developing for the future. Carbon intensive energy generation is a big issue in the Valley. The proposed reactivation and application for the Danskammer power plant in New Windsor is not in step with goals to manage carbon emissions in the region.

Katie Petronis responded, thanking Andy for his comments, confirming that these issues are on DEC's radar screen, acknowledging there are many questions to address.

Ex-officios:

Audrey Vangenechten: DOH continues to inform anglers about the fish advisory program. She thanked Jennifer, Rockland Cornell Cooperative Extension, for helping during COVID in adapting to reach people in new ways. She is hopeful that the Striped Bass PCB packet will receive DOH approval to be run for this upcoming 2021 striped bass season.

Rob Pirani: Planning is ongoing by NYC Parks on a Harlem River management plan that includes 97 initiatives on the Bronx side of the river, including access, GI, daylighting, and water quality

improvements. <https://www.nycgovparks.org/planning-and-building/planning/conceptual-plans/harlem-river-watershed>

Jessica Kounen: NY Sea Grant, appreciates the partnerships developed by the Program.

Dan Jeanson: The Hudson Valley Greenway has been approved to begin to pay out on existing grants. A new brochure has been released: "Dutch and Native American Heritage in the Hudson River Valley". <https://www.hudsonrivervalley.com/dutch>

Jamie Ethier. DOS continues to work on the estuary to address resilience of waterfront communities.

Nicolette Witcher: Nicolette introduced Carrie Roble who will be taking on the environmental and education initiatives at the Hudson River Park Trust (HRPT). HRPT has several projects ongoing including the Tribeca project on oyster habitat enhancements and monitoring. The wet lab is planned to open this summer, adding e-DNA monitoring capacity to the learning center. Virtual events are planned for this spring at the tide deck on Pier 26. Several of these projects are estuary grant funded. Cathy Drew, founder of the River Project has retired. HRPT has taken over the River Project, with plans to move the unique flow-through wet lab to the Pier 40. She wished Cathy the best in retirement and noted that her legacy will live on.

Diana Carter: OPRHP is moving forward on the acquisition of Hudson Cliffs Park, 520 acres in the City of Kingston/Town of Ulster. Scenic Hudson has held several information meetings. Other projects moving forward include Schodack State Park side channel restoration and the Hudson Eagles Recreation Area. Plans are being made to upgrade 5 boat launches, for paddle sports, power boats, ADA accessibility, and to create more park-like settings at these sites. Coxscakie and Schodack boat launches are the first in line. OPRHP is also working on the acquisition of Pier 76 in NYC, the former NYPD car impoundment site.

Javier Laureano reported for EPA. He introduced Lingard Knutson, the new NY/NJ HEP Coordinator working with Rob Pirani. 2021 is the start of a new administration with new priorities for many issues, including climate change, urban pollution, EJ, restoring science, public health, water, and geographic programs, and increasing base funding for HEP. HEP will receive a coastal waterfront grant, working with university students on the Raritan river. These are very exciting times at EPA and there is a lot to do.

Jim Tierney, Kelly Turturro, and Katie Petronis responded.

Jim thanked the group for all the impressive work being done. He welcomed Katie Petronis to the team. He reflected that, "water problems are money problems," noting the various funding levels that different programs are supported at and that the Hudson River estuary lags behind. Therefore, it is important to be prepared and plan for when funding does become available, so that projects can get into the pipeline and be ready for implementation quickly.

He touched on many of the issues raised by the committee, Reimagining the Erie Canal, green infrastructure, dam removals, PFOA and PFOS standards, addressing EJ and drinking water supply protection, bacteria standards for water quality, acknowledging the need for more work on these issues. He would like to know more about the boat club/siltation issue.

Katie Petronis acknowledged current challenging budget issues facing the state and the environment. She also noted several positive steps being taken in the executive budget; \$3 million for the conservation easement program, work on forested lands, intact landscapes, and funding to support land trust work; \$2.5 million for the conservation partnership program, and \$500,000 for community forest programs. She thanked OPRHP for working to incorporate DEC properties into the plans for the Hudson Eagles recreation area.

She thanked the group for their comments and support on the circle hook regulations, noting that opening day is soon, April 1. ASMFC guidelines are being developed that will help bait and tackle shops and anglers understand and comply with the regulations.

Kelly Turturro provided a Region 3 perspective, noting that she works closely with her counterparts in Regions 2 (Steve Zahn) and 4 (Tony Luisi). She encouraged the attendees to submit comments on the Ashokan SPDES discharge to the Esopus Creek by the June 16 deadline. She thanked Westchester County for their partnering on recent dam removal projects.

She acknowledged the hard work that many staff and partners have put into the Hudson River biological monitoring plan. The Hudson River Foundation, RiverKeeper, and a group of scientists have been working to plan how best to move these long-term studies forward post closure of Indian Point. The hard work of this team will be very helpful in making decisions on the future allocation of the \$15 million fund outlined in the Indian Point closure agreement.

Finally, she acknowledged Fran for her leadership of the Estuary Program team. Kelly is excited to be here, working with all of us. Fran thanked Kelly for her support and leadership as well.

7. Old Business New business.

Emily Vail: Emily announced the availability of the Hudson River Watershed Alliance's report on Watersheds. Hard copies are available. <https://hudsonwatershed.org/work-on-watersheds/>

Dan Shapley requested the committee act on two issues: the Ashokan-Esopus creek proposed SPDES permit for the water releases from the Ashokan reservoir into the lower Esopus creek and the proposed circle hook regulations.

Stuart Findlay suggested that for the Esopus Creek issue, a draft letter be prepared and circulated to committee members outlining the issues of concerns. Once reviewed and edited, this could be submitted into the public comment record. Dan Shapley and Amanda LaValle, Ulster County Dept. of Environment, will partner on this providing adequate time for members to review and comment.

Amanda LaValle added that the public comment period has been extended until June 16. The water releases from the reservoir are very turbid. Issues of concern and impacts that require additional study in the DEIS include alternatives to the status quo, impacts on water treatment plants, economic impacts and ecological impacts to the creek and the Hudson mainstem.

Andy Bicking has received many public comments regarding this issue and thanked DEC for extending the comment period. He expressed the need for balanced and responsible stewardship of resources between watershed needs and estuary resource needs.

Circle hooks. Stuart recapped that the committee has heard about this issue several times and has had the opportunity to discuss and ask questions of DEC staff. He suggested that the

committee vote to authorize him to sign a letter on behalf of the committee supporting the regulations. This has been done before when deadlines were tight.

Dan Shapley made a motion:

That Dan Shapley will draft a letter to the DEC Commissioner expressing general support for the proposed circle hook regulations on behalf of HREMAC. Chairman Findlay will transmit the letter to the Commissioner.

Lucy Johnson seconded. There was no further discussion. (No Nays were recorded in the Chat.) The motion passed.

8. The meeting adjourned 12:01 PM. The next HREMAC meeting will be June 3, 2021.

Respectfully submitted: Nancy Beard, recorder

Note: The Chat feature was not recorded during this meeting.

Attendance: 124

HREMAC Members:

Andy Bicking	Scenic Hudson
Janet Burnet	Ramapo River Watershed council
Scott Croft	Hudson River Boat Yacht Club Assoc.
Stuart Findlay	Cary Institute of Ecosystem Studies
Dan Shapley	Riverkeeper, Inc. (for Paul Gallay)
Lucy Johnson	Vassar College Lifetime Learning, HV Consortium, HRES
Suzette Lopane	Westchester County Water Agency
Shino Tanikawa	Lower Hudson Coalition of Conservation Dist.

Ex-OFFICIOS:

Diana Carter	NYS OPRHP
Peter Brandt	US EPA
Jamie Ethier	NYS DOS
Noreen Doyle	Hudson River Park Trust
Rob Pirani	NYNJ - HEP
Audrey Van Genechten	NYS Dept. of Health
Peter Weppler	US Army Corps Engineers
Jessica Kounen	New York Sea Grant
Chris DeRoberts	New York Power Authority
Dan Jeanson	HRV Greenway (for Scott Keller)

Guests:

Rocci Aguire	Scenic Hudson
Helena Andreyko	Hudson River Foundation

CZ Arnoch	guest
Lisa Baron	US ACE
Rob Buchanan	NYC water trail
Greg Capabianco	NYS DOS
Sean Carroll	guest
Mark Castiglione	Capital District Regional Planning Commission
Carla Castillo	HRV Council
Nikki Chung	Scenic Hudson
Martin Dailey	Capital District Long Term Control Plan
David Decker	Audubon Constitution Marsh
Phil DeGaetano	consultant
Elise Edwards	guest
Bob Elliott	guest
Chana Friendenberg	guest
Alana Gerus	NYS DOH
Brian Gramlich Rahm	HR Watershed Alliance
Jeff Gratz	EPA R2 Water Division
Simon Gruber	Orange County, consultant
Craig Hammerman	guest
Clay Hiles	Hudson River Foundation
Oded Holzinger	Groundwork Yonkers
Gareth Hougham	Ossining, Arts and Science
Karen Imas	Waterfront Alliance
Jesse Jaycox	NYS parks
Zion Klos	Marist College
Lingard Knutson	US EPA
Jon Kramer	HRF
Tim Lamorte	guest
Javier Laureano	US EPA R2 Division Water
Amanda LaValle	Ulster County Dept. Environment
Karin Limburg	SUNY ESF
John Lipscomb	Riverkeeper
Josh Lipsman	Athens CAC
Simon Litten	Mohawk river
Jim Lodge	HRF
Liz LoGuidice	Green Columbia counties
Alexa Maione	Parks
Mary McNamara	Esopus Creek Watershed
Jesse Murray	NOAA
Julie Noble	City of Kingston
Peter Park	Farmingdale Edu
Patricia Pomeroy	guest
Nicolette Witcher	Hudson River Park Trust
Carrie Roble	Hudson River Park Trust
Fabio Romero Ulloa	guest
Lisa Rosman	(called in)
Ed Samanns	WSP consultants

Rich Schafio	guest
Scott Silver	Audubon Constitution Marsh
Ed Skorupski	angler
Richard Slingerland	Town Tarrytown
Steve Stanne	Clearwater
Isabelle Stinnette	NY NJ HEP
Karen Strong	Strong Outcomes
Pat Sullivan	Cornell University
Margie Turrin	Lamont Doherty
Russell Urban Mead	Cornell
Emily Vail	HR Watershed Alliance
Gary Wall	USGS
Peter Zaykoski	NEIWPCC
Jennifer	Rockland County Cooperative Extension

DEC, Estuary Program staff and SCA interns:

Nancy Beard	Estuary Program, Administration, and Access
Jessica Best	Hudson River Fisheries Unit
Chris Bowser	Estuary Program, Research Reserve, education
Randall Caccia	DEC, Education
Erin Carrus	SCA
Emma Clements	Grants, Land and Conservation teams
Kate Cooper	SCA
Scott Cuppett	Estuary Program, watersheds
Fran Dunwell	Estuary Program, Hudson River Coordinator
Wes Eakin	DEC, Hudson River Fisheries Unit
Sarah Fernald	HRNERR, research
Heather Gierloff	HRNERR, Research Reserve Manager
Ingrid Haekel	Estuary Program, Conservation and Land Use
Laura Heady	Estuary Program, Conservation and Land Use
Amanda Higgs	DEC Hudson River Fisheries Unit
Rebecca Houser	Estuary Program, Education
Alanah Keddell-Tuckey	EJ Office
Gregg Kenney	DEC, Hudson River Fisheries Unit
Jessenia Laureano	SCA
Mark Lowery	Climate Change office
Tony Luisi	DEC R4 acting Director
Megan Lung	Estuary Program, SCA intern
Sherri Mackey	Estuary Program, administration
Jeff Mapes	DEC, Lands and Forests
Susan Maresca	DEC, Region 2, permits
Dan Miller	Estuary Program, habitat restoration
Sarah Murphy	DEC
Nate Nardi-Cyrus	Estuary program, land use conservation, scenery
Chuck Nieder	DEC, DEC Bureau Fish and Wildlife
Tom Niekrewicz	Estuary Program, Water team

Anna Palmer	Estuary Program, SCA intern
Susan Pepe	Estuary Program, Grants Admin.
Katie Petronis	DEC Albany Deputy Commissioner Natural Resources
Dan Rearick	HRECOS
Beth Roessler	Estuary Program, Trees for Tribes
Bill Rudge	DEC, Region 3 Natural Resources
Maude Salinger	Estuary Program, communications
Sarah Stopak	SCA
Becky Thomas	Estuary Program, Contract Admin.
Jim Tierney	DEC Albany, Deputy Commissioner for Water Resources
Audrey Trossen	SCA
Kelly Turturro	DEC, R3 Regional Director
Libby Zemaitis	Estuary Program, resilient waterfront communities

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