



Peconic Estuary Partnership Policy Committee Meeting Summary
May 05, 2021 10:00am – 12:30 pm
Zoom Conference Call

Attendees: Joyce Novak (PEP), Elizabeth Hornstein (PEP), Lauren Scheer (PEP/CCE), Sarah Schaefer (PEP), Dorian Dale (Suffolk County (SC), Representing Peter Scully- PC Rep), Tony Leung (NYSDEC, Representing Carrie Meek Gallagher- PC Rep), Javier Laureano (USEPA and PC Chair), Scott Russell (Town of Southold Supervisor and Local Government PC Rep), Dawn McReynolds (NYSDEC MC Rep), Kevin McDonald (TNC/CAC Chair and MC Rep), Matt Sclafani (CCE/ TAC Chair and MC Rep), Ken Zegel (SC MC Rep), Richard Friesner (NEIWPC MC Rep), John Bouvier (Town of Southampton Councilmember and Local Government MC Rep), Bob Nyman (USEPA and MC Chair), Aimee Boucher (USEPA), Peter Brandt (USEPA), Gwynn Schroeder (Legislator Al Krupski's Office), Irene Donohue (Legislator Bridget Fleming's Office), Legislator Al Krupski, Cassie Bauer (NYSDEC), Camilo Salazar (SC)

Welcome and Introductions- Javier Laureano, US EPA

- Javier noted the PEP is undergoing a host transition from NEIWPC to The Research Foundation at SUNY Stony Brook.
- As the US EPA undergoes an administration transition the two priorities that will be focused on include climate change and environmental justice. US EPA Region 2 is committed to moving forward these initiatives and locally through the Peconic Estuary Partnership (PEP). PEP organized a diversity and inclusion workshop to start to address environmental justice issues in the Peconic Estuary watershed. Javier challenged all of us to continue to respect our underserved environmental justice communities in everything that we do. He stressed committee engagement is crucial and decisions reached while everyone has a seat at the table are more successful, more impactful and longer lasting. Javier reiterated the importance of this workgroup and the support of the PEP Management Conference in these efforts. Javier asked that everyone to think about their participation in creating a more representative Management Conference and equity across the Peconic Estuary watershed. Javier hopes that there can be a report out on the activities PEP has done to understand environmental justice and increase representation through the work outlined in the PEP CCMP in early fall 2021.
- Javier Laureano called a roll call of PEP Policy Committee voting members on the call.

Discussion and Approval of [June 10th 2020 Policy Committee Meeting](#) and [March 29th 2021 Special Policy Committee Meeting Minutes](#) -Javier Laureano

- No comments. Scott Russell, Tony Leung, and Javier Laureano approved the meeting minutes. Dorian Dale abstained because he did not attend the two meetings.

FY21 Supplemental Budget and Workplan -Joyce Novak, PEP Director



Slides 5-8 of the MC presentation slides: https://www.peconicestuary.org/policy-committee-meeting_-5-05-21_presentation/

- Joyce presented the FY21 Supplemental EPA §320 Budget to the MC (attached).
- Noted the Peconic Estuary Partnership will be hosted by the Research Foundation at SUNY Stony Brook and the FY21 Supplemental EPA funds, along with the previously MC and PC approved FY21 EPA §320 Budget, will be awarded to The Research Foundation.
- The FY21 Supplemental Budget includes funds that will be transferred from the soon to be former host, NEIWPC, to the new PEP host, The Research Foundation. The total amount of these funds is \$428,288. The budget includes funds for personnel, supplies, travel, Association of National Estuary Program annual dues, Homeowner Rewards Program and a -year technical contract. Details of budget are included on slide 5 of the linked presentation and in the attached budget and workplan.
- The PEP Outreach Coordinator will be hired directly as a PEP staff with the transition to the Research Foundation.
- The technical contract details are outlined on slide 6 of the linked presentation.
- Javier stated the importance of developing a tracking system for the CCMP and NEPs use a variety of methods to implement a CCMP tracking system.
- Total combined PEP FY21 EPA §320 Funds to be awarded to The Research Foundation are \$950,825- details outlined on slide 8 of the linked presentation.

Funding Diversification Update – Joyce Novak

Slides 9-10 of the MC presentation slides: https://www.peconicestuary.org/policy-committee-meeting_-5-05-21_presentation/

- NYS Environmental Protection Fund allocation to the PEP has increased from \$200K to \$450,000 (increase of \$250K) – the Peconic Estuary USGS Continuous Water Quality Monitoring Stations are funded out of this funding line. We are discussing with the Water Quality Monitoring Collaborative and TAC on parameters that will be monitored at the stations and final funding costs.
- The Town of Southampton passed a resolution to give a portion of their Community Preservation Fund (CPF) directly to PEP- \$206,850. The next step will be to move the funds to the Research Foundation. These funds will need to be spent down by December 31, 2021.
- The Town of East Hampton had Town Board agreement to give a portion of their CPF directly to PEP- \$99,050. The next step will be to hold a public hearing and approve a resolution.
- The Town of Southold had Town Board agreement to give funds directly to PEP- \$24,500. The next step will be to hold a public hearing and approve a resolution. The funds may come out of the CPF or the Town budget.



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- The PEP Office is developing a workplan and budget for all of the above funds and will present this at the July 14th Management Committee Meeting. The Policy Committee will be asked to approve the workplan and budget via email after the MC has approved.

The Policy Committee was asked to approve the PEP FY21 Supplemental Budget and Workplan, which it did. Javier Laureano stated the Policy Committee has approved the PEP FY21 Budget and Workplan.

Update on the Organizational Document – Bob Nyman, US EPA, MC Chair

- The Organizational Assessment development process was started over a year ago to develop the Management Conference processes and procedure guidelines. As the PEP host transition process progressed, the Organizational Assessment document was put on hold. Now, with the transition process well underway US EPA believes it is a good time to revisit the Organizational Assessment document. Over the last week or so US EPA and the PEP office have been reviewing the previous versions of the document and past edits and plans to reengage with The Research Foundation and the rest of the Management Committee during this month. The US EPA and PEP Office hopes to get the document to the Policy Committee soon after for the Committee's consideration.
- Joyce provided background information to the group on the document. She stated back in 2018 the PEP started to work with a consultant, CoastWise Partners, to go through the process of putting together bylaws and guiding principles for PEP committees. The consultant conducted a series of interviews and meetings with Committee members to discuss the components of the document. In late 2019 and early 2020 there was a draft Organizational Assessment document that was sent around for Management Committee and Policy Committee review and comment. Around the same time the Management Conference was considering changing hosts and the transition process took precedent over the completion of the Organizational Assessment document.
- Kevin McDonald requested that the comments that were previously addressed in the Organizational Assessment document be highlighted when the document is distributed for the Management and Policy Committee review.

PEP Program Office Updates

- Clean Waters CCMP Chapter Updates- Final Water Quality Monitoring Strategy, Commencement of the Water Quality Monitoring Collaborative, and Launch of the Annual Water Quality Monitoring Report and other water quality program updates- Sarah Schaefer – Program Coordinator



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- Slides 2-15 of the May 2021 PEP Updates presentation slides:
<https://www.peconicestuary.org/pep-update-may-2021/>
 - Health Ecosystem and Resilient Communities CCMP Chapter Updates- Final Habitat Plan, Prioritization Process, and initiation of the Seagrass Workgroup and other habitat and climate change project updates- Elizabeth Hornstein – NYS Coordinator
 - Slides 16-34 of the May 2021 PEP Updates presentation slides:
<https://www.peconicestuary.org/pep-update-may-2021/>
 - Strong Partnerships CCMP Chapter Updates- The Inaugural PEP Biennial Conference, the launch of the Peconic Estuary Partnership - A New Plan, A New Decade Video:
<https://vimeo.com/533689678>, CAC updates, Long Island Wildlife Monitoring Network updates - Lauren Scheer - Outreach Coordinator
 - Slides 35-39 of the May 2021 PEP Updates presentation slides:
<https://www.peconicestuary.org/pep-update-may-2021/>

New Business- Open to all members

- As per our discussion as part of the Organizational Assessment, PEP will be holding two Policy Committee meetings annually- one in conjunction with the Management Committee. The next meeting will be a joint meeting on October 13, 2021 at 10:00am-12:30pm.
- Javier commends the PEP Program Office for the great progress that has been made on multiple fronts.

Public Comment- no comments

Adjourn

FY21 Supplemental EPA §320 Budget	
Description	FY21 Supplemental Funds Transferred from NEIWPC
Program Office	
Personnel	\$ -
Director	\$ 83,128
Program Coordinator	\$ 55,632
State Coordinator	\$ 55,592
Outreach Coordinator	\$ 46,780
SUB-TOTAL	\$ 241,132
Supplies	\$ 9,760
Travel	\$ 10,124
Other	\$ 4,392
ANEP	\$ 4,500
SUB-TOTAL	\$ 269,908
Indirect (26%)	\$ 70,190
Sub-awards*	
Homeowner Rewards	\$ 8,190
Technical Contract (1 year)	\$ 80,000
TOTAL STONY BROOK RF REQUEST	\$ 428,288
Match	\$ -
TOTAL EPA §320 FUNDING REQUEST	\$ 428,288

*IDR for Sub-Awards is 26% on the first \$25K

**Match previously certified under FY20 grant

FY21 SUPPLEMENTAL WORKPLAN AND BUDGET

EPA Grant #: CE-96247000-1



Applicant:

The Research Foundation at SUNY Stony Brook

Submitted by:

PEP Management Conference

Start Date of Grant

October 1, 2021

End Date of Grant

September 30, 2023

Prepared by:

Peconic Estuary Partnership Office

Riverhead County Center

Room 204N

300 Center Drive

Riverhead, NY 11901

(631) 852-2961

INTRODUCTION

Peconic Estuary Partnership

The Peconic Estuary is one of 28 estuaries in the country designated by U.S. Environmental Protection Agency as an “estuary of national significance” under Section 320 of the Federal Clean Water Act. The National Estuary Program (NEP) was established to protect and restore nationally significant estuaries threatened or impaired by pollution, development, and overuse. The Peconic Estuary was formally accepted as part of the NEP in 1992. Officially commenced in 1993, the Peconic Estuary Program includes numerous stakeholders, representing citizen and environmental groups, businesses and industries, academic institutions, and local, county, state and federal governments. The EPA, New York State Department of Environmental Conservation (NYSDEC) and the Suffolk County Department of Health Services (SCDHS) are the sponsoring government agencies for the program. In 2020 PEP formally changed its name from the Peconic Estuary Program to Peconic Estuary Partnership.

In January 2021 the decision was made by the PEP Management Conference to move hosts from NEIWPC to The Research Foundation for SUNY Stony Brook. On July 1, 2021, the transfer will take place and The Research Foundation for SUNY Stony Brook will replace NEIWPC as host and the FY21 NEP grant will be awarded to the Research Foundation for SUNY Stony Brook. This FY21 Supplemental award is comprised of all remaining funds that will be transferred from NEIWPC under the FY20 award (EPA Grant #: CE97230303). The grant period covered by this supplemental grant will commence October 1, 2021 and will supplement the main FY21 application submitted 3/31/21 and commencing 7/1/21 (Grant #: CE96247000-0). This FY21 Supplemental application has a grant period commencing October 1, 2021. All funds covered under this grant application have been previously matched with NYS funds under the FY20 grant.

Overall Funding Sources

The FY21 Supplemental Budget reflects the following sources of funding:

EPA FY21 Supplemental Base Funding:	\$428,288.00
Non-Federal Match:	\$0
Total:	\$428,288.00
Resources Requested:	\$428,288.00

The total Section 320 funds requested in this NEP grant to the Research Foundation at SUNY Stony Brook (RF) is \$428,288 which has been matched in the PEP NEP (NEIWPC) FY20 grant award. These are funds that were previously awarded to NEIWPC in FY20. Please see NEIWPC FY20 Transfer documents for more details of the NEIWPC portion of these funds (NEIWPC EPA Grant #: CE97230303 Amendment #3). The non-Federal match for these funds has been certified by the New York State Department of Environmental Conservation (NYSDEC) and Suffolk County. See Budget Detail for further information. New York State, Suffolk County, and other partners are expected to provide significant support above and beyond the committed match in the budget table in support of Peconic Estuary Partnership goals and objectives.

II. SUMMARY OF FY20 ACCOMPLISHMENTS

The FY20 year for the Peconic Estuary Partnership saw the completion and EPA concurrence of the 2020 Comprehensive Conservation Management Plan (CCMP). The new CCMP lays out a roadmap for protecting and restoring the Peconic Estuary and its watershed and will carry us forward through the next ten years. This was the close of a two year process that included extensive public outreach including 15 public meetings, five workshops, social media requests, PEP Management and Policy Committee review, PEP program office comments and a running on-line comment page on our web site to allow the public a venue to contribute. The 2020 CCMP includes fresh goals and actions which will strengthen our partnership and bring us together to tackle the issues we face together. Our new Goals: Strong Partnerships, Resilient Communities, Clean Water, and a Healthy Ecosystem are the four pillars of our foundation, and our renewed focus on partnership will enable us to grow and meet the challenges of the next decade. The new CCMP lays out 8 new Objectives and 35 new Actions that will guide PEP and our partners to address the challenges facing our watershed. Some of the critical challenges we face are: the impacts of climate change such as sea level rise, more frequent and more intense storms, and how changing weather patterns will affect habitat and living resources, water quality, and watershed management practices; hardened shorelines - seawalls, bulkheads, and other shoreline structures are constructed at a rapid pace, eliminating vital habitats for many species; land development - growth of the human population and associated land development are pressuring the ecosystem and habitat connectivity, affecting terrestrial, aquatic, and avian species; nitrogen pollution from septic systems and cesspools, and residential and agricultural fertilizer still plagues many areas; pollutants from activities on land such as excess nutrients, pathogens, pharmaceutical compounds and toxic contaminants such as pesticides and per- and polyflouroalkyl substances (PFAS) into the Estuary; threatened Bay Scallop populations; declining eelgrass beds—which serve as nurseries for scallops and fish—have diminished dramatically and are vulnerable to further decline with climate change; and HABs - although brown tides have not hit the Peconic Estuary since the 1990s, other kinds of harmful algal blooms are more frequent – in 2020 we saw an array of HABs throughout our Estuary.

As a result of the 2017 Program Evaluation, we completed the Water Quality Monitoring Strategy, finalizing water quality targets to use in our annual water quality reports. Originally these were to be released during our September 2020 conference, but were delayed due to the covid pandemic. The Water Quality Monitoring Strategy has been submitted to EPA Region 2 for concurrence. The 2020 Habitat Restoration Plan has been finalized and approved by the PEP Policy and Management Committees. Most notably, this included a fresh and updated list of priority sites and has included a ranking system for these priority sites. This plan has been submitted to EPA for concurrence. The Partnership is working toward the completion of the Organizational Plan and the development of a Finance Plan and CCMP Tracking System. Additionally, the Program office has established a Diversity and Inclusion Workgroup to develop a strategy for inclusion in our watershed.

PEP completed the Non-Point Source Pollution Management Project in Sag Harbor and is developing an ArcGIS tool using the results of the Peconic Estuary Seagrass Bio-Optical Model. We have also carried out training webinars in our communities for the use of Climate Ready Assessment and Critical Lands Protection Strategy. Woodhull Dam Fish Passage Construction (planned for fall 2020) was delayed due to COVID-19 budget restrictions at Suffolk County and the engineering designs and permitting are complete for the Upper Mills Dam Fish Passage project. The Program office developed an EPA approved QAPP to enable the data collection of alewife at the Grangebels fishway using the seasonal camera. The PEP State Coordinator and Program Coordinator worked carefully and were dedicated to collecting this data during the COVID-19 restrictions. It is estimated that over 57,000 alewife used the fish passage in

the 2020 spring migration season. Our continued efforts will open up the Peconic River and its tributaries with fish passage projects in some phase of completion at all Peconic River dams.

Two projects funded by EPA §320 grants had to have their completion extended due to the COVID-19 restrictions in New York State. These are: the Expansion and Monitoring of the Town of Southold Living Shoreline Project and Nitrogen Load Reduction Assessment Project.

Our partnership-based work continues to grow. We work with Suffolk County on the publicity and education of the Subwatersheds Wastewater Plan (SWP) to reduce nitrogen pollution into the estuary. PEP continued to work with multiple community organizations and local governments throughout the watershed to highlight this work and teach the public about the importance of nitrogen reduction and a virtual CAC meeting was held regarding this important topic.

PEP has continued and strengthened our partnership with NYSDEC Long Island Nitrogen Action Plan (LINAP) to align the goals and actions of each organization to maximize funding opportunities and work products. PEP worked with Long Island Regional Planning Council and LINAP to develop the "Reduce Nitrogen Pledge" for the Long Island Nitrogen Action Plan, a multiyear initiative to reduce the amount of nitrogen entering Long Island's groundwater and surface water from wastewater, stormwater runoff and fertilizers. This pledge was developed to encourage citizens to reduce their personal nitrogen pollution. The pledge can be found here: <https://lirpc.org/our-work/long-island-nitrogen-action-plan/nitrogen-pledge/>.

Our outreach efforts continued and were further developed in FY20. **Long Island Wildlife Monitoring Network:** PEP initiated the creation of the Long Island Wildlife Monitoring Network. The goal of the Wildlife Monitoring Network is to create a brand and central website where all Long Island wildlife monitoring projects are housed together. This makes it easy for partners to collaborate and avoid overlap, and for the public to become aware of all the efforts going on around Long Island and to get involved with multiple citizen science programs. With this brand and central website, this should increase citizen participation, data collection, and partner collaboration. PEP is currently organizing content and is working with Seatuck Environmental Association to launch the website. **Citizens' Advisory Committee/Public Events:** PEP saw record breaking and increased attendance at 2020 public workshops and CAC meetings due to outreach efforts and the ability of the public to virtually attend. PEP hosted meetings with topics that ranged from Native Plant Gardens for Better Water Quality with Long Island Native Plant Initiative, Citizen Science - Long Island Diamondback Terrapin Monitoring with Seatuck Environmental Association, Suffolk County Septic Improvement Program with Suffolk County, Rain Gardens & Shoreline Plantings with Long Island Native Plant Initiative, and Estuary Day with the other two Long Island Estuary Programs. The purpose of these meetings was to deliver engaging topics that provide citizens the resources necessary to put stewardship into action and get involved with the PEP. Immediate results that have been noticed thus far include a further engaged CAC, additional new members; recorded PEP hosted workshops for partners and municipalities to use as a resource, and increased involvement in Seatuck's Long Island Diamondback Terrapin Monitoring citizen science survey with increased data collection this 2020 season. **Resources for Educators:** PEP also developed new worksheets and activities for the PEP Resources for Educators webpage for educators and parents to utilize, especially during the covid-19 pandemic. The goal is to make PEP a resource for environmental education as many teachers and parents are utilizing virtual education methods and many students and children are being taught at home. **Long Island Nitrogen Action Plan:** In collaboration with Long Island Regional Planning Council, the PEP aided in the development of a "Reduce Personal Nitrogen Pledge" for citizens to learn about 10 easy ways they can reduce their personal nitrogen inputs. This pledge was created to encourage action for nitrogen reduction and inspire community members to participate and

earn recognition for their efforts. This is a Long Island Nitrogen Action Plan outreach initiative. **PEP Website:** PEP reorganized the website which includes new homepage tab titles, a new focus on the 2020 CCMP's main four goals, fresh language, and fresh photos. This makes the PEP website more user friendly so that the user is able to find items more easily and makes the text and photos cleaner and more relevant. **PEP CCMP Video and Partnerships:** 17 interviews were conducted with PEP partners to create footage for the PEP CCMP video.

III. WORKPLAN

CCMP Goals

Our new Goals: Strong Partnerships, Resilient Communities, Clean Water, and a Healthy Ecosystem are the four pillars of our foundation, and our renewed focus on partnership will enable us to grow and meet the challenges of the next decade. The new CCMP lays out 8 new Objectives and 35 new Actions that will guide PEP and our partners to address the challenges facing our watershed.

Budget and Staff Elements

Program Office Staff

The following outlines FY21 \$320 budget requests to support the Peconic Estuary Partnership Office to implement the CCMP. Costs include salary, fringe and indirect costs (RF IDR (26%) is negotiated annually with the federal government). Table 1 outlines the FY21 Supplemental Budget Summary. Budget details can be found in Appendix A.

Program Office Staff Total Cost: \$241,132

Director, Joyce Novak, PhD (Transfer from NEIWPC FY20 July 1, 2021)

Location: Suffolk County Department of Health Services, 300 Center Drive, Room 204N, Riverhead, NY

Responsibilities: Provides overall leadership to the program office, management and administration to the Program on behalf of the Management Conference.

Program Coordinator, Sarah Schaefer (Transfer from NEIWPC FY20 September 30, 2021)

Location: Suffolk County Department of Health Services, 300 Center Drive, Room 204N, Riverhead, NY

Responsibilities: Coordinates all projects in Suffolk County and acts as support and lead for a variety of other projects carried out by the program office.

New York State Coordinator, Elizabeth Hornstein (Transfer from NEIWPC FY20 September 30, 2021)

Location: New York State Department of Environmental Conservation, Division of Marine Resources/Bureau of Marine Habitat, 205 North Belle Mead Road, Suite 1, East Setauket, NY

Responsibilities: Coordinates NYS participation in the PEP, with an emphasis on habitat protection and restoration, stormwater control, and nutrient management.

Education & Outreach Coordinator, Lauren Scheer (New)

Location: Suffolk County Department of Health Services, 300 Center Drive, Room 204N, Riverhead, NY

Responsibilities: Coordinates all outreach and education activities for PEP focusing on the four goals laid out in the 2020CCMP. Coordinates activities at RF in support of PEP. This new role will begin January 1, 2022

Table 1: PEP Budget Summary

	FY21 Request	Notes
Personnel	\$181,372	
Fringe	\$59,760	
Travel	\$10,124	See Travel Table in Budget Detail
Supplies	\$9,760	Program office (including outreach) supplies
Other	\$4,392	Includes costs for printing & production, website development and services, advertising, telephone
ANEP	\$4,500	Non-lobbying services to be provided related to the National Estuary Program for the period January 1st, 2022 through-December 31st, 2022 to include, but not limited to, education and outreach support, data exchange and analysis, and professional development and training. EPA waiver required.
Sub-Total	\$269,908	
Indirect (26%)	\$70,190	
Sub-awards*		
<i>Homeowner Rewards</i>	\$8,190	Continuation of the PEP Homeowner Rewards Program
<i>Technical Contract</i>	\$80,000	One-year technical contract for staff support on all projects. Details outlined in Task 27.
Total Sub-Awards	\$88,190	
Total EPA §320 Funds Request	\$428,288	
NYS Match**	N/A	
Total Project Cost	\$428,288	

*All Sub-awards include indirect of 26% on the initial \$25,000 of total cost.

** All match provided by New York State and Suffolk County included in FY20

FY21 Supplemental Workplan

This workplan will serve to supplement the FY21 workplan submitted March 31, 2021 (Grant #: CE96247000-0). This FY21 Supplemental workplan includes funding for all PEP staff. As such, all tasks presented in the FY21 Workplan are also included here and summarized in Table 2; all of the tasks outlined in this supplemental workplan are carried out or facilitated by PEP staff and represent the outputs and outcomes of all PEP projects. Each of these projects supports PEP’s 2020 CCMP, which also highlights PEP’s role as an active partner with other government agencies and nonprofits working in the Peconic. In light of this continued focus on partnership, some of PEP’s staff time will focus on supporting projects directed and funded by partners. In these cases, PEP staff is responsible for providing technical expertise, coordination, and facilitation of collaboration as needed; their responsibilities support the ultimate project outcomes but can be accomplished even if the project does not move forward.

As stated, PEP is transferring host entities from NEIWPC to the Research Foundation at SUNY Stony Brook (RF) in 2021. In Table 2, the ‘Status’ column indicates which tasks will be transferred from NEIWPC FY20 to RF FY21 Supplemental as outlined in this workplan. The NEIWPC FY20 corresponding

task is identified to allow for ease of understanding between plans. Projects listed as ‘New’ are projects that are not included in NEIWPCC FY20 or were closed out in NEIWPCC FY20 for contracting or financial purposes and will be new for PEP at RF. All tasks except for two associated with active NEIWPCC contracts will transfer to RF as described below.

Table 2: Summary of CCMP Actions addressed in FY21 Supplemental Workplan

CCMP Action	Description	Funding requested FY21 Supplemental \$320 award:	PEP Role	Status
Action 1	Task 1: Organizational Assessment	Staff time	Lead	Transferred from NEIWPCC FY20 Task 1. Program office and EPA to finalize document for submission.
Action 2	Task 2: CCMP Tracking System	Staff time	Lead	Transferred from NEIWPCC FY20 Task 2. Tracking sheet completed, work ongoing to develop tracking system.
Action 4	Task 3: Financial Plan	Staff time	Lead	Transferred from NEIWPCC FY20 Task 3. Draft Financial Plan Completed – final plan in progress.
Actions 6, 7, 8, & 9.	Task 4: PEP Education and Outreach	Staff time	Lead	New. Under the FY21 and FY21 Supplemental workplan the Education and Outreach Coordinator is a direct hire of the program office and has expanded duties to include RF Coordination.
Actions 6,7,8,& 9	Task 4a: PEP Education and Outreach: Existing Contract	Staff Time	Lead	Remains with NEIWPCC FY20 This is the existing Education and Outreach. Contract expires 1/14/22. New Outreach Coordinator, Lauren Scheer, starts 1/1/22
Action 9	Task 5: Diversity & Inclusion Workgroup	Staff time	Lead	New. Under the FY21 and FY21 Supplemental workplans a diversity and inclusion initiative will be established and expanded.
Action 11	Task 6: Continue to distribute information and tools developed in the CLPS and CRA to municipalities and work with the East End Towns to implement climate resiliency actions.	Staff time	Lead	Transferred from NEIWPCC FY20 Task 5. This is an ongoing task.
Action 13	Task 7: NYS Ocean Acidification Taskforce – National Ocean Acidification Network	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 6. This is an ongoing task.
Action 16 & 18	Task 8: Continuous Water Quality Monitoring	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 7. This is an ongoing task.
Action 17	Task 9: Water Quality Monitoring Collaborative	Staff time	Lead	New. This is a new task for the FY21 and FY21 Supplemental workplans. The WQ Monitoring Collaborative was established after the completion of FY20 Task 8a.

Peconic Estuary Partnership FY21 Supplemental Workplan and Budget – Research Foundation at SUNY Stony Brook

CCMP Action	Description	Funding requested FY21 Supplemental \$320 award:	PEP Role	Status
Action 17	Task 10: LINAP	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 8b. This is an ongoing task.
Action 17	Task 11: Peconic Estuary Solute Transport Model	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 8c. This is an ongoing task.
Action 18	Task 12: Subwatershed Plan	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 9a. This is an ongoing task.
Action 18	Task 13: Village of Greenport Sewer Extension	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 9b. This is an ongoing task.
Action 18	Task 14: Green Infrastructure Homeowner Rewards Program and Resident Nutrient Management	Staff time	Lead	Transferred from NEIWPCC FY20 Task 9c. While funds are anticipated to be fully expended for this task at NEIWPCC, new funds are requested in RF FY21 Supplemental to continue the program. This is a long standing and ongoing PEP program, these are NEW funds are requested in the FY21 Supplemental Grant.
Action 21	Task 15: PEPC	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 10a. This is an ongoing task.
Action 21	Task 16: Meetinghouse Creek Engineering Design Services	Staff time	Lead + NEIWPCC+ Riverhead	Remains with NEIWPCC FY20 Amendment 3. Task 16 (NEIWPCC FY20 Task 10c) is under contract.
Action 23	Task 17: Ecosystem-Based Model of the Peconic Estuary	Staff time	Lead partner + RF and NYSDEC	Transferred from NEIWPCC FY20 Task 11. This is an ongoing task.
Action 29	Task 18a: Complete design and construction of diadromous fish passage – <i>Woodhull Dam</i>	Staff time	Lead Partner + Suffolk County	Transferred from NEIWPCC FY20 Task 12a. This is an ongoing task.
Action 29	Task 18b: Complete design and construction of diadromous fish passage – <i>Upper Mills Dam</i>	Staff Time	Lead Partner + Suffolk County	Transferred from NEIWPCC FY20 Task 12b. This is an ongoing task.
Action 29	Task 19a: Complete design and construction of diadromous fish passage projects in other priority tributaries in the Peconic – <i>Lake Montauk</i>	Staff time	Lead partner + Suffolk County	Transferred from NEIWPCC FY20 Task 12d. This is an ongoing task.
Action 29	Task 19b: Complete design and construction of diadromous fish passage projects in other priority tributaries in the Peconic – <i>Alewife Creek</i>	Staff Time	Supporting partner	Transferred from NEIWPCC FY20 Task 12e. This is an ongoing task.
Action 29	Task 20: Alewife Monitoring on the Peconic River	Staff time	Lead partner	Transferred from NEIWPCC FY20 Task 13. This is an ongoing task.
Action 30	Task 21: Carry out Eelgrass Aerial Survey	Staff time	Co-lead with LISS and NYSDEC.	Transferred from NEIWPCC FY20 Task 14. This is an ongoing task.

Peconic Estuary Partnership FY21 Supplemental Workplan and Budget – Research Foundation at SUNY Stony Brook

CCMP Action	Description	Funding requested FY21 Supplemental \$320 award:	PEP Role	Status
Action 30	Task 22: Convene an Eelgrass sub-workgroup	Staff time	Lead Partner	New. This is a new task for the FY21 and FY21 Supplemental workplans.
Action 31	Task 23: Work with the Natural Resources Subcommittee to secure funds and implement the top priority projects from the 2020 Habitat Restoration Plan	Staff time	Lead partner	New. This is a new task for the FY21 and FY21 Supplemental workplans. The NEIWPCC FY20 workplan completed the update and submission of the 2020 Habitat Plan (Task 15)
Action 31	Task 24a: Implement priority wetland restoration projects identified in the PEP Habitat Restoration Plan – <i>Paul Stountenburgh Reserve</i>	Staff time	Lead + Suffolk County	Transferred from NEIWPCC FY20 Task 16a. This is an ongoing task.
Action 31	Task 24b: : Implement priority wetland restoration projects identified in the PEP Habitat Restoration Plan – <i>Indian Island Wetlands</i>	Staff time	Supporting partner	Transferred from NEIWPCC FY20 Task 16b. This is an ongoing task.
Action 31	Task 24c: Implement priority wetland restoration projects identified in the PEP Habitat Restoration Plan – <i>Narrow River</i>	Staff time	Co-Lead	Transferred from NEIWPCC FY20 Task 16c. This is an ongoing task.
Action 31	Task 24d: : Implement priority wetland restoration projects identified in the PEP Habitat Restoration Plan – <i>Cedar Beach Creek Wetland Restoration</i>	Staff time	Supporting partner	New. This is a new task for the FY21 and FY21 Supplemental workplans. Cedar Beach wetland design and restoration.
Action 33	Task 25: Living Shoreline Stakeholder Education	Staff time	Co-lead partner with NYS Sea Grant and NYSDEC	Transferred from NEIWPCC FY20 Task 17. This is an ongoing task.
Action 34	Task 26: Continue to expand monitoring of key species and convene a workgroup to develop a habitat restoration and protection strategy for horseshoe crabs.	Staff time	Lead	New. This is a new task for the FY21 and FY21 Supplemental workplans. The development of a Horseshoe Crab workgroup under the Natural Resources Subcommittee.
ALL CCMP	Task 27: Technical Support – The establishment of a one year contract to aid in the ability of the program office to manage projects and carry out technical tasks including but not limited to GIS, R-based data analysis, and the production of an on-line tracking system.	Staff time	Lead	New. This is a new task for the FY21 and FY21 Supplemental workplans.

CCMP GOAL: STRONG PARTNERSHIP AND ENGAGEMENT

Objective A: Enhance PEP’s organizational structure, operational practices, and financial position to support successful implementation of CCMP Actions.

ACTION 1: Finalize and implement the updated PEP Organizational Plan.

Performance Measure: Addition of the updated PEP Organizational Plan to this CCMP document within 3 years of the final Revised CCMP and will outline the recommendations adopted by the Policy and Management Committee.

Task 1: Organizational Assessment

Transferred from NEIWPCC FY20 to RF. PEP will continue this task for finalization and concurrence with EPA as part of the 2020 CCMP

Ongoing

- a. **Estimated Budget:** Staff Time
- b. **Partners and their roles:** PEP (Lead Partner), PEP Management Conference, Research Foundation at SUNY Stony Brook
- c. **Description and Objectives:** The contractor has completed their tasks. The Organizational Assessment is under review by the Management Conference.
- d. **Outputs and Deliverables:** A Final Organizational Strategy Report with Roles and Responsibilities, By-Laws, and Guiding Principles.
- e. **Estimated Milestones:** Completion in December 2022.
- f. **Long Term Outcomes:** A stronger national estuary program whose committees and all members and partners have a clear understanding of how to achieve our mission and how we work together to strengthen the organization.
- g. **Clean Water Act Core Programs:** N/A
- h. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

ACTION 2: Develop and launch a CCMP Tracking System on PEP Website to report progress in implementing CCMP actions.

Performance Measure: Development and deployment of web-based CCMP Tracking System within three years of the final Revised CCMP.

Task 2: CCMP Tracking System

Transferred from NEIWPCC FY20 to RF. Staff time under the NEIWPCC grant resulted in the completion of a tracking spreadsheet. This ongoing task will continue under the PEP FY21 Supplemental grant.

Ongoing

- a. **Estimated Budget:** Staff time – See also Task 27 for technical support related to this task
- b. **Partners and their roles:** PEP (Lead Partner), PEP TAC
- c. **Description and Objectives:** To help facilitate implementation of the 2020 CCMP, PEP is developing a new section of the PEP website that shows progress on implementation of Actions.
- d. **Outputs and Deliverables:** An on-line tool for tracking CCMP success.
- e. **Estimated Milestones:** Completion December 2023.
- f. **Long Term Outcomes:** PEP staff, our Management Conference and all partners will be able to easily track out progress of all goals and actions of the CCMP.
- g. **Clean Water Act Core Programs:** N/A

h. Transferred from NEIWPC FY20 to RF FY21 Supplemental

ACTION 4: Secure increased funding as part of a final Financial Plan to ensure successful implementation of all CCMP Actions.

Performance Measure: Release of a final Financial Plan within 3 years of the final Revised CCMP that includes potential sources of new and increased funding, as well as a strategic outline to securing such funding.

Task 3: Financial Plan

Transferred from NEIWPC FY20 to RF. A draft plan was completed under the NEIWPC FY20 grant. This will be finalized and concurrence sought during the PEP FY21 supplemental grant period.

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Lead Partner), USEPA, Research Foundation at SUNY Stony Brook
- c. **Description and Objectives:** The finalization of a Financial Plan as specified in the EPA 2017 Program Evaluation to provide robust funding for PEP to carry out the CCMP Actions. Details within the Financial Plan will outline plans to pursue expanded initiatives to obtain increased funding in support of CCMP implementation.
- d. **Outputs and Deliverables:** A Financial Plan for PEP.
- e. **Estimated Milestones:** Completion December 2023
- f. **Long Term Outcomes:** Implementation of the Financial Plan for a long term strategy will allow for the financial growth of PEP to diversify funding and allow PEP to grow.
- g. **Clean Water Act Core Programs:** N/A
- h. **Transferred from NEIWPC FY20 to RF FY21 Supplemental**

Objective B (Overarching Priority Objective): Empower local communities to support estuary health, including underrepresented groups.

ACTION 6: Increase community members' awareness of the Peconic Estuary, key issues relating to the CCMP's Goals, and PEP as a resource to help them address the issues.

ACTION 7: Involve community members in citizen science programs to cultivate personal connections to the Peconic Estuary and inspire positive behavioral change to support Estuary health;

ACTION 8: Conduct outreach events and programs that engage community members in learning about the Peconic Estuary and taking action to support Estuary health;

ACTION 9: Incorporate environmental justice considerations into public education and outreach materials and events.

Performance Measures: Includes all listed.

Task 4: PEP Education and Outreach Program

This is a new task commencing January 1, 2022.

New

Previously the Education and Outreach was carried out via contract. During FY21 Supplemental, the Outreach Coordinator will be a direct hire of the program. This is a new facet of the program. This will mean a restructuring of outreach during this time with a continued focus on CCMP outreach activities, community relations, and securing existing partnerships while welcoming new ones.

- a. **Estimated Budget:** Staff Time
- b. **Partners and their roles:** PEP (Lead Partner), RF
- c. **Description and Objectives:** CAC implementation, Continued maintenance and creation of new partnerships as appropriate that expand outreach efforts, CCMP related information dissemination, continued citizen science and community volunteer opportunities, and maintaining and developing digital outreach activities and initiatives, coordination of RF activities as they relate to PEP.
- d. **Outputs and Deliverables:** up to 4 CAC meetings per year, relevant programs and initiatives to expand outreach (including with partners), Annual strategy development with CAC Chair and PEP Director, social media and digital communication with public and CAC members, outreach materials including up to four PEP Newsletters per year, Wildlife Monitoring Network website, PEP website (outreach section), Alewife training, beach clean-up event, and participation in at least one community-science based event.
- e. **Estimated Milestones:** CAC meetings (up to four)
- f. **External Constraints:** covid restrictions may inhibit some of these activities
- g. **Long Term Outcomes:** To achieve Objective B of the 2020 CCMP and empower communities to support estuary health, including underrepresented communities
- h. **Clean Water Act Core Programs:** All
- i. **This is a new task and included in RF FY21 Supplemental funds**

Task 4a: PEP Education and Outreach Program-existing contract

This task will remain with NEIWPC and reflects the active contract with Cornell Cooperative Extension (CCE) to complete education and outreach work through 1/1/22 when the new task (above Task 4) commences. This contract expires 1/14/22.

- a. **Estimated Budget:** \$103,459 (FY20)
- b. **Partners and their roles:** PEP (lead), CCE (Contractor), NEIWPC (contracting and administrative partner)
- c. **Description and Objectives:** CCE will continue the progress made in 2020 with increased membership and partnerships, including raising awareness of the new CCMP and planning the Peconic Estuary Conference. CCE will continue to track social media performance and digital resources, including newsletters and videos.
- d. **Outputs and Deliverables:** Meetings, newsletters, digital engagement resources as described in the contract scope of work and the annual PEP outreach strategy.
- e. **Estimated Milestones:** Completion of CAC meetings, dissemination of Newsletters, conference completion
- f. **External Constraints:** covid restrictions may inhibit some of these activities
- g. **Long Term Outcomes:** Increased engagement of partners and watershed residents with PEP activities and the CCMP
- h. **Clean Water Act Core Programs:** All
- i. **Funds remain with NEIWPC FY20**

ACTION 9: Incorporate environmental justice considerations into public education and outreach materials and events - The PEP will expand its efforts to be inclusive of underrepresented members of local communities.

Task 5: Diversity and Inclusion Workgroup

New

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Lead Partner), Community groups, Individuals, EPA, NYS, Suffolk County, Local Governments, and Shinnecock Indian Nation, Research Foundation at SUNY Stony Brook
- c. **Description and Objectives:** PEP initiated the Diversity and Inclusion workgroup in Summer 2020 and held the inaugural meeting Fall 2020. The objective is to create a workgroup that can inform the Management and Policy Committees with the development of a Strategy that will enable the PEP to more accurately reflect all communities in our watershed.
- d. **Outputs and Deliverables:** Development of a Strategy for Diversity and Inclusion
- e. **Estimated Milestones:** Up to four meetings per year, Strategy Development complete in 2023
- f. **Long Term Outcomes:** A more diverse and inclusive NEP.
- g. **Clean Water Act Core Programs:** N/A
- h. **This is a new task and included in FY21 Supplemental funds**

CCMP GOAL: RESILIENT COMMUNITIES PREPARED FOR CLIMATE CHANGE

Objective C: Help local communities to take meaningful, well informed action to prepare for and adapt to climate change impacts in the Peconic Estuary.

ACTION 11: Provide tools and assistance to local government to mitigate and adapt to the impacts of climate change.

Performance Measure: Delivery of the Critical Lands Protection Strategy Maps and ArcGIS data to Peconic Estuary resource managers to utilize as a broad tool for planning and adaptation initiatives

Performance Measure: Implementation of Actions and Strategies of the Peconic Estuary Climate Ready Action Plan

Performance Measure: Development of model code for local implementation of zoning and other land use tools in The Climate Adaptation Toolbox for Land Use and Municipal Planning identified in the Climate Ready Action Plan

Task 6: Continue to distribute information and tools developed in the Peconic Estuary Critical Lands Protection Strategy and Climate Ready Action Plan to municipalities within the watershed and work with the East End Towns to implement climate resiliency actions

Transferred from NEIWPC FY20 to RF. The CLPS contract (via Suffolk County) was complete under the NEIWPC grant. The PEP FY21 Supplemental funds will see ongoing training carried out with the East End towns.

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Lead Partner), Local Governments, Anchor QEA and TNC (Supporting Partner)

- c. **Description and Objectives:** PEP completed an update to the Peconic Estuary Critical Lands Protection Strategy (CLPS) and conducted a risk-based climate vulnerability assessment to develop the Peconic Estuary Partnership Climate Vulnerability Assessment and Action Plan consistent with EPA’s Climate Ready Estuaries Program. PEP plans to use the information in this report and associated tools to assist East End municipalities with planning decisions related to resiliency and climate adaptation. See here for the CLPS story map and tool:<https://gis.anchorqea.com/PeconicEstuaryCLPS/>. PEP also plans to work with East End municipalities to develop model codes that will help increase climate resiliency on the East End.
Outputs and Deliverables: Development of model codes and implementation of strategies in the Peconic Estuary Climate Ready Action Plan
- d. **Estimated Milestones:** Begin to develop draft model codes for local implementation in FY21
- e. **Long Term Outcomes:** Educated local governments equipped with tools and information to plan for a changing climate.
- f. **Clean Water Act Core Programs:** N/A
- g. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

ACTION 13: Collaborate on coastal and ocean acidification monitoring and research

Performance Measure: Participation with the New York Ocean Acidification Task Force to monitor and address ocean acidification locally and regionally.

Task 7: NYS Ocean Acidification Taskforce – National Ocean Acidification Network

Transferred from NEIWPCC FY20 to RF. This is an ongoing task that will be passed fully to PEP under the FY21 Supplemental grant

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Supporting Partner), NYSDEC (Lead Partner)
- c. **Description and Objectives:** PEP’s local and regional partners will work together to ensure that the best available science is used to assess and respond to this emerging threat to NY’s estuarine and marine waters and fisheries. PEP will participate on the NY Ocean Acidification (OA) Task Force and act as a NEP coordinator for NY State and participate on the Mid-Atlantic Taskforce.
- d. **Outputs and Deliverables:** Collaborative document regarding NYS OA policy and the Mid-Atlantic Region.
- e. **Estimated Milestones:** NY OA Task Force Meetings as scheduled, Initiation of a NY NEP/EP Workgroup for OA collaboration in the region.
- f. **Long Term Outcomes:** A cohesive and collaborative approach to OA mitigation in New York. Regional adoption of recommendations from the NY OA Task Force as appropriate for the watershed.
- g. **Clean Water Act Core Programs:** N/A
- h. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

CCMP GOAL: CLEAN WATERS

Objective D: Protect areas with clean water from degradation

ACTION 16: Identify areas of clean water quality and deliver information that local governments and others can use to protect those areas.

Performance Measure: Annual review of water quality data and water quality monitoring programs with assessment and recommendation regarding changes to water quality data collection in order to adequately monitor all waterbodies in the Estuary.

ACTION 18: Implement science-based approaches for monitoring and reducing nutrient pollution.

Performance Measure: Work in conjunction with our partners to contribute to the NYSDEC effort to centralize water quality data with the creation of a portal to allow all interested stakeholders, such as local monitoring groups, non-profits, or governmental agencies, to share water-quality monitoring data through the Long Island Water Quality Information Data System (LIQWIDS).

Task 8: Continuous Water Quality Monitoring

Transferred from NEIWPCC FY20 to RF. This task continues under the PEP FY21 Supplemental and covers staff salaries to support NYS funds designated for this purpose.

Ongoing

- a. **Estimated Budget:** Approximately \$150,000 annually funded through the USGS and PEP NYS EPF Funds.
- b. **Partners and their roles:** United States Geological Survey (USGS) (Lead Partner and Contracting Entity), PEP (Co-Lead), NYSDEC (Funding Entity).
- c. **Description and Objectives:** USGS maintains two continuous water quality monitoring stations in the Peconic Estuary, one located at the mouth of the Peconic River under the County Road 105 bridge in [Riverhead](#) and one in [Orient Harbor](#). These two monitoring stations complement the periodic sampling conducted by SCDHS by providing continuous sampling of the water quality conditions within the estuary. The stations provide high frequency measurements of key water quality parameters to allow long-term trend assessment of climate and other incremental changes; estimates of frequency, severity, and duration of hypoxia and anoxia. A third USGS station was installed at the Shelter Island Ferry South Ferry site in Shelter Island Sound to provide a tide-warning system. Additional water quality monitoring equipment will be added as funding is available through the Suffolk County Capital Budget.
- d. **Outputs and Deliverables:** USGS produces daily data reports, real-time data downloadable via the internet, incorporated by PEP staff into State of the Bays Report and used by researchers and partner other agencies.
- e. **Estimated Milestones:** Contract is between NYSDEC and USGS, PEP staff provide additional support as needed throughout the year.
- f. **Long Term Outcomes:** Water quality data will be used to assess environmental conditions in the Peconic Estuary and refine management programs as necessary. Based on water quality data, priority projects and research initiatives can be identified and the PEP can continue its success in efforts to protect and restore the Estuary. Data collected by these monitoring efforts inform periodic reporting, including environmental indicators reports and “State of the Bay” publications, and support adaptive management.
- g. **Clean Water Act Core Programs:** Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads; Elements of this project prevent or mitigate the impacts of nutrient pollution.
- h. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

Objective E: Increase understanding of nutrient pollution in groundwater and surface waters, and decrease negative impacts from legacy, current, and future nutrient inputs.

ACTION 17: Plan science-based approaches for monitoring and reducing nutrient pollution

Performance Measure: Completion of Peconic Estuary Water Quality Monitoring Strategy within 3 years of the final Revised CCMP.

Task 9: Water Quality Monitoring Collaborative

New

- a. **Estimated Budget:** Staff Time, Suffolk County (FY20 SC grant)
- b. **Partners and their roles:** PEP (Lead Partner)
- c. **Description and Objectives:** The Peconic Estuary Partnership has a robust monitoring program that assesses a range of critical The Water Quality Monitoring Collaborative was established as a result of the Strategy completed in FY20. Parameters were agreed upon and the Collaborative is tasked with reporting annually based on the agreed parameters.
- d. **Outputs and Deliverables:** Annual Water Quality Report.
- e. **Estimated Milestones:** Annual Report, completion of annual 2021 and 2022 next steps outlined in the Peconic Estuary Water Quality Monitoring Strategy.
- f. **Long Term Outcomes:** Better informed local governments to facilitate decisions to support clean water.
- g. **Clean Water Act Core Programs:** Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads; Elements of this project prevent or mitigate the impacts of nutrient pollution.
- h. **This is a new task and included in RF FY21 Supplemental funds**

Performance Measure: Collaborate with the NYSDEC to compile and update a database of completed nitrogen management projects within the Peconic Estuary watershed to guide current and future nitrogen management actions. Utilize database to track nitrogen reduction efforts within the watershed.

Task 10: Long Island Nitrogen Action Plan (LINAP)

Transferred from NEIWPC FY20 to RF. This task is wholly covered by staff time.

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** NYSDEC and the Long Island Regional Planning Council (LIRPC), in partnership with numerous local governments and interested organizations on Long Island. PEP (Supporting Partner)
- c. **Description and Objectives:** LINAP will determine nitrogen load reduction targets as well as alternatives and strategies to meet those targets. Through LINAP, PEP will work to provide information that local governments need to reduce nitrogen loading. In the fall of 2017, the LINAP Project Management Team moved forward with a PEP-USGS Solute Transport Modeling project, which will allow for the quantitative analysis of nitrogen loading rates to the Peconic Estuary resulting from wastewater and fertilizer inputs to groundwater in Suffolk County. The Solute Transport Model is anticipated to be complete in 2021. See below Peconic Estuary Solute Transport Model Task for more information. Additionally, PEP and LINAP developed a Cross-walk document outlining specific actions where we can coordinate and future actions.
- d. **Outputs and Deliverables:** Strategy Plan with LINAP identifying areas for collaboration.

- e. **Estimated Milestones:** Quarterly calls/and or meetings between PEP and LINAP.
- f. **Long Term Outcomes:** Streamlined plan that avoids duplication of efforts by partners and achieves a more efficient way forward for achieving nitrogen reduction goals in the Peconic watershed.
- g. **Clean Water Act Core Programs:** Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads; Elements of this project prevent or mitigate the impacts of nutrient pollution.
- h. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

Performance Measure: Completion of the Peconic Estuary Solute Transport Model analysis to understand historical nitrogen loading and to develop management strategies based on future scenarios.

Task 11: Peconic Estuary Solute Transport Model

Transferred from NEIWPCC FY20 to RF.

Ongoing

- a. **Estimated Budget:** Staff time, NYS 2015 Budget: \$750,000
- b. **Partners and their roles:** USGS (Contracting Entity), PEP (Supporting Partner), NYSDEC (Funding Entity)
- c. **Deliverables and Objectives:** Develop a solute transport model to be used in conjunction with the results of the Nitrogen Load Model to establish updated load reduction goals for non-point source loads.
- d. **Outputs and Deliverables:** A USGS report will document model development as well as analytical results for a limited set of representative wastewater management scenarios. The report will be designed with the dual purposes of 1) documenting the models and methods developed as part of the USGS investigation and 2) providing a detailed description of surface-water loading rates under changing land-based nitrogen-input conditions. Preliminary model results will be transmitted as PDFs to stakeholders as needed during the course of this investigation. The USGS will present progress and results of the investigation at technical meetings and public forums upon request. Modeling will proceed collaboratively with NYSDEC and PEP personnel to ensure that the two projects are complementary. An additional USGS report or journal article may be published near the end of the project to compare the solute-transport methods and results from the Cape Cod and Peconic Estuary investigations. Numerical models and data used to represent nitrogen source terms will be publicly disseminated as a separate web-hosted USGS Data Release product, in accordance with USGS policies. PEP staff acts as project manager, coordinating all meetings and working in conjunction with the TAC on technical review of the body of work. PEP staff organize quarterly progress meetings, distribute summary minutes and work with USGS to gather the necessary data inputs for the model.
- e. **Estimated Milestones:** Modeling due to be complete in FY20. In FY21 and FY21 Supplemental, finalize report and disseminate and communicate results to stakeholders.
- f. **Long Term Outcome:** Reduce nitrogen loads to the Peconic Estuary towards attainment of the Peconic Estuary TMDL and ensure a healthy and productive estuarine ecosystem.
- g. **Clean Water Act Core Programs:** Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads.
- h. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

ACTION 18: Implement science-based approaches for monitoring and reducing nutrient pollution.

Performance Measure: Phased Implementation of the Suffolk County Subwatershed Wastewater Plan to abate septic-related current and future nitrogen loading.

Task 12: Suffolk County Subwatersheds Wastewater Plan (SWP)

Transferred from NEIWPCC FY20 to RF.

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** Suffolk County Department of Health Services (funding agency), Long Island Sound Study, South Shore Estuary Reserve, PEP (Supporting Partner).
- c. **Description and Objectives:** The purpose of the SWP is to provide a wastewater management plan specific to all parcels within the priority subwatersheds of Suffolk County in order to meet the County's first order of nitrogen load reduction goals for surface water restoration and the protection of groundwater and drinking water. The SWP is an early action element of the LINAP and will guide County wastewater policy by providing a map and narrative depicting the location, number, and location specific- methodology for required sanitary upgrades using a phased approach linked to current and predicted ecological and public health risks. PEP will work to provide information that local governments need to reduce nitrogen loading.
- d. **Outputs and Deliverables:** PEP will develop a strategy plan with Suffolk County identify communities in the high need area (Level 1) to focus PEP efforts for Septic Improvement.
- e. **Estimated Milestones:** Quarterly calls/ and or meetings between PEP and Suffolk County.
- f. **Long Term Outcomes:** Streamlined plan that avoids duplication of efforts by partners and achieves a more efficient way forward for achieving nitrogen reduction goals in the Peconic watershed.
- g. **Clean Water Act Core Programs:** Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads; Elements of this project prevent or mitigate the impacts of nutrient pollution.
- h. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

Task 13: Village of Greenport Sewer Extension

Transferred from NEIWPCC FY20 to RF.

Ongoing

- a. **Estimated Budget:** Staff time, 2019 NYS Empire State Development Grant \$390,000
- b. **Partners and their roles:** PEP (Supporting Partner), Village of Greenport (Lead Entity), Safe Harbor Marina (Lead Entity, Property owner).
- c. **Description and Objectives:** The Village of Greenport will design and construct an expansion of their municipal sewer system to the marina and homes within the Stirling Basin, reducing current nitrogen pollution input to the nearby Peconic Estuary. PEP will assist the project lead in identifying and applying for funding, coordinating all parties in meetings and updates, and assisting the Village of Greenport as needed and appropriate, coordinating all parties in meetings and updates, and assisting the Village of Greenport as needed and appropriate.
- d. **Outputs and Deliverables:** Engineering design plans for sewer extension project. Additional funding sources identified for construction phase.
- e. **Estimated Milestones:** Engineering and design planned to be completed in 2022. This project has experienced severe delays due to covid.

- f. **Long Term Outcomes:** Reduction of nitrogen into Peconic Bay.
- g. **External Constraints:** This project has secured \$390,000 in grant funding from NYS. It will require significantly more funding for the construction. PEP will assist the project lead in identifying and applying for funding but substantially more funding is currently required. The project has been delayed due to COVID-19.
- h. **Clean Water Act Core Programs:** Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads, Elements of this project prevent or mitigate the impacts of nutrient pollution.
- i. **Funds transferred from NEIWPC FY20 to RF FY21 Supplemental**

Performance Measure: Increase funding and expanded outreach for PEP’s Homeowner Rewards Program, which provides financial incentives for homeowners to install rain gardens, native plantings, and/or rain barrels on their properties that benefit the environment.

Task 14: Green Infrastructure Homeowner Rewards Program and Resident Nutrient Management

Transferred from NEIWPC FY20 to RF. This is a long running PEP program. It is anticipated that all funds remaining with NEIWPC (\$3,500) will be expended by September 30, 2021 for the Homeowner Rewards program. New funds outlined in the PEP FY21 Supplemental application will also be used for this task.

Ongoing

- a. **Estimated Budget:** \$320 funds: Staff Time and New Funds
- b. **Partners and their roles:** PEP (Lead partner) and Research Foundation at SUNY Stony Brook
- c. **Description and Objectives:** The [Peconic Estuary Partnership \(PEP\) Homeowner Rewards Program](#) provides financial rewards for homeowners, who live within the Peconic Estuary watershed, to add rain gardens, native plantings, and/or rain barrels to their properties. Simultaneously, the program educates the community about the benefits of rain gardens, rain barrels, and native plants for nitrogen reduction, stormwater pollution reduction, and other ecosystem benefits.
- d. **Outputs and Deliverables:** Installation and completion of sustainable landscaping projects on properties within the Peconic Estuary watershed.
- e. **Estimated Milestones:** Annual spring – fall season application period.
- f. **Long Term Outcomes:** Improve public’s understanding of benefits or sustainable landscaping and long-term and widespread behavior change favoring landscaping best management practices. Reductions in fertilizer use, pesticide use, water use, and the promotion of natural vegetation and benefits to pollinators and native fauna.
- g. **Clean Water Act Core Programs:** Elements of this project prevent or mitigate the impacts of nutrient pollution.
- h. **Task transferred from NEIWPC FY20 to RF FY21 Supplemental**

Objective F: Reduce current and future inputs of toxics, pathogens, and marine debris into groundwater and surface waters, and minimize their impacts

ACTION 21: Expand non-point source subwatershed management plans to all pathogen-impaired waterbodies and continue to use existing plans

Performance Measures: Development of strategies and outreach materials to help achieve stormwater reduction goals.

Performance Measure: Development of a Quality Assurance Management Plan (QAMP) to enable sampling, analysis, and reporting of ground and surface water by municipalities for use in NYS, Suffolk County, and East End Municipality decision making and management actions.

Task 15: Peconic Estuary Protection Committee (PEPC) (Intermunicipal Agreement for Stormwater Management)

Transferred from NEIWPCC FY20 to RF.

Ongoing

- a. **Estimated Budget:** Staff time, \$15,000 Suffolk County Capital Budget Funds and member municipality dues.
- b. **Partners and their roles:** PEPC Coordinator (Lead), PEP (Supporting Partner), Towns of Brookhaven, Shelter Island, Southampton, Southold, and Riverhead and the Villages of Sag Harbor, North Haven and Greenport, Suffolk County, NY State Department of Transportation (NYSDOT).
- c. **Description and Objectives:** PEP established a collaboration of East End municipalities to share resources and work together on projects to reduce stormwater runoff, reduce pollution from septic system discharges, agricultural and residential fertilization, groundwater flows, illegal dumping, floatable debris and boat waste.
- d. **Outputs and Deliverables:** Assistance with MS4 compliance. Public signage related to storm drains and the importance of storm water management. The QAMP was completed in FY20. In the FY21 year, we will continue to work with the PEPC Coordinator on stormwater management, inter-municipal coordination and assisting Towns and Villages in developing QAPPs outlined under the approved QAMP.
- e. **Estimated Milestones:** Bi-monthly PEPC meetings.
- f. **Long Term Outcomes:** The East End municipalities and Suffolk County working together to both ensure MS4 compliance and further non-point source pollution solutions
- g. **Clean Water Act Core Programs:** Elements of this project prevent or mitigate the impacts of nutrient pollution.
- h. **Task transferred from NEIWPCC FY20 to RF FY21 Supplemental**

Performance Measure: Review of current PEP Non-point Source Subwatershed Management Plans and initiation of viable projects.

Performance Measure (under Action 31): Complete engineering designs for ongoing, priority wetland restoration project at Meetinghouse Creek.

Task 16: Meetinghouse Creek Engineering Design Services

This task will remain with NEIWPCC. Staff time to manage this project for the PEP program office and Town of Riverhead will continue under RF FY21 Supplemental.

Ongoing

- a. **Estimated Budget:** §320 funds: \$156,407 (from FY18 – remains with NEIWPCC FY20)
- b. **Partners and their roles:** PEP (Lead Partner), Town of Riverhead (Property Owner, Engineering Supervision), Inter-Fluve (Contractor), NEIWPCC (Contracting entity)
- c. **Description and Objectives:** PEP completed a Conceptual Habitat Restoration Design for the Meetinghouse Creek project in 2019. The conceptual design recommendation is to construct a 1.2-acre stormwater wetland to treat stormwater runoff in the 5.6 acre contributing watershed. This will improve water quality in the downstream wetland and surface waters. Additionally, it

will greatly increase the ecological quality of the habitat and improve plant and wildlife diversity. This site is located at a large wetland area that forms the headwaters to Meetinghouse Creek in Riverhead, New York. Meetinghouse Creek is listed as an impaired waterbody on the NYSDEC Priority Waterbodies List. The wetland vegetation at this site is dominated by *Phragmites*. This project has a completion date of March 2023.

- d. **Outputs and Deliverables:** QAPP, final design, and permitting for the Meetinghouse Creek Main Road Wetland Construction/Restoration project.
- e. **Estimated Milestones:** Contract executed with Inter-fluve. Estimated completion of engineering design by March 2023.
- f. **Long Term Outcomes:** This project will greatly increase the ecological quality of the habitat and improve plant and wildlife diversity. This site is located at a large wetland area that forms the headwaters to Meetinghouse Creek in Riverhead, New York. Meetinghouse Creek is listed as an impaired waterbody on the NYSDEC Priority Waterbodies List. The wetland vegetation at this site is dominated by *Phragmites*.
- g. **Clean Water Act Core Programs:** Protecting Wetlands. Identifying Polluted Waters and Developing Plans to Restore Them (TMDLs): Assessment of progress toward TMDL goals; refinement of implementation plan and TMDL goals for land-based loads; Elements of this
- h. project prevent or mitigate the impacts of nutrient pollution.
- i. **Funds to remain with NEIWPC**

Objective G: Expand scientific understanding of the Peconic Estuary ecosystem and deliver information that supports management decision-making

ACTION 23: Conduct scientific studies to expand understanding of the Peconic Estuary ecosystem and support ecosystem-based management.

Performance Measure: Development of an ECOSIM model to characterize the estuarine food web and examine structural changes in ecosystem properties over time.

Performance Measure: Detailed spatial and temporal analysis of the Peconic Estuary trawl survey data to assess how species use the Estuary and how species and communities have responded to local and regional environmental changes over time.

Task 17: Ecosystem-Based Model of the Peconic Estuary

Transferred from NEIWPC FY20 to RF

Ongoing

- a. **Estimated Budget:** Staff time, \$200,000 NYS PEP EPF FY18 Funds
- b. **Partners and their roles:** PEP (Lead Partner), NYSDEC (Funding Entity), The Research Foundation at SUNY Stony Brook University (Contractor).
- c. **Description and Objectives:** Analyze spatial and temporal trends in the Peconic Estuary finfish trawl survey dataset, and develop risk metrics from ecological relationships for the Peconic Estuary that examine whether local and regional environmental changes have increased the vulnerability of individual finfish and mobile invertebrate species, community assemblages, and ecosystem processes. ECOSIM is a quantitative modeling framework that can represent all major ecosystem functional groups and can be used to identify and assess structural changes in the ecosystem in response to environmental change. The proposed study will identify vulnerable species, critical habitats, and ecosystem properties within the Peconic Estuary. This information has direct application to decisions affecting the use, management, and conservation of the natural resources in the bay.
- d. **Outputs and Deliverables:** ECOSIM and ECOPATH Model, plan and facilitate meetings.

- e. **Estimated Milestones:** This project was delayed due to COVID-19. Originally due to begin in FY19, Stony Brook University was not able to begin this work until FY20. Model developed is anticipated to be complete by March 2023.
- f. **Long Term Outcomes:** An understanding of the food web dynamics and organism/habitat interactions will allow for optimized planning for the Peconic Bays.
- g. **External Constraints:** Project is behind schedule due to Covid-19 delays.
- h. **Clean Water Core Programs:** protecting Large Aquatic Ecosystems.
- i. **Funds transferred from NEIWPCF FY20 to RF FY21 Supplemental**

18: Complete design and construction of diadromous fish passage projects on the Peconic River

Transferred from NEIWPCF FY20 to RF

Ongoing – details in project descriptions

- a. **Estimated Budget:** Staff time, Partner funds (details in project description section)
- b. **Partners & Roles:** PEP, Suffolk County, NYSDEC, East End towns and villages.
- c. **Description and Objectives:** Support fish passage construction in the Peconic River and its tributaries. During the upcoming year PEP and its partners are working towards opening up acres of freshwater spawning area to diadromous fish through the completion of fish passage projects. PEP will continue to support the design, permitting and construction of fish passage throughout the Peconic River. Descriptions, budgets, and anticipated external constraints for each project are listed below.
- d. **Outputs and Deliverables:** Successful completion of fish passage design, permitting and construction.
- e. **Estimated Milestones:** Completion of Woodhull Dam Fish Passage construction by March 2022. Final engineering designs and permits expected for Upper Mills Dam Fish Passage by fall 2021, secure construction funds by December 2022.
- f. **Long Term Outcomes:** Restoring and strengthening ecosystem services, fish and wildlife of the Peconic Estuary will benefit from access to critical habitat, increased biodiversity and restoration of historic food webs.
- g. **External constraints:** Various constraints related to funding due to COVID19 and project details are outlined in the individual projects.
- h. **Clean Water Act Core Programs:** protecting Large Aquatic Ecosystems.
- i. **Funds transferred from NEIWPCF FY20 to RF FY21 Supplemental**

18a Woodhull Dam: The Permitting Services for Construction of a Fish Passage at the Woodhull Dam, Town of Riverhead contract through Suffolk County Parks is complete and funding for the construction of the dam has been secured through a NYSDEC Water Quality Improvement Grant, Suffolk County Capital Budget, Suffolk County Fund 477, USFWS National Fish Passage Fund, and Town of Southampton CPF funds (anticipated). Ninety-five (95) acres of freshwater habitat will be opened with project completion. Construction for this project is now underway. The construction of the fish passage project is anticipated to be complete before October 1, 2022.

Estimated Budget: \$876,066, Staff Time

External Constraints: There have been unforeseen delays due to financial and operational priorities of the COVID19 health crisis. These factors have caused the Suffolk County capital funds to be delayed. Additionally, the original project amount has increased during the duration of this project and additional funds were sought from Town of Southampton, United States Fish and Wildlife Service and Suffolk County.

18b Upper Mills Dam: PEP is due to complete Engineering Design and Permitting Services for Construction of a Fish Passage at the Upper Mills Dam, Town of Riverhead in FY20. The FY21 timeframe will see PEP working with project partners to secure funding for the construction of this fish passage.

Estimated Budget: \$129,000 (Suffolk County) for engineering and permitting and \$1.4M for construction (not secured), plus Staff time

External Constraints: There were significant delays to this project resulting from land owner (PSEG) approval to carry out survey work for this project. Permitting process has presented delays as well.

Performance Measure: Completion of culvert improvements on Alewife Creek to enhance the largest alewife run on Long Island;

Performance Measure: Completion of priority diadromous fish habitat connectivity projects identified in the PEP Habitat Restoration Plan or Long Island Diadromous Fish Restoration Strategy, or through the Volunteer Alewife Monitoring Survey, in other areas of the Peconic watershed to restore additional habitat.

Task 19: Complete design and construction of diadromous fish passage projects in other priority tributaries in the Peconic Estuary watershed

Transferred from NEIWPC FY20 to RF.

Ongoing – details in project descriptions

- a. **Estimated Budget:** Staff time, Partner funds (details in project description section)
- b. **Partners & Roles:** PEP, Suffolk County, NYSDEC, East End towns and villages.
- c. **Description and Objectives:** During the upcoming year PEP and its partners are working towards opening up acres of freshwater spawning area to diadromous fish through the completion of fish passage projects. PEP will continue to support the design, permitting and construction of fish in priority tributaries in the Peconic Estuary watershed. Descriptions, budgets, and anticipated external constraints for each project are listed below.
- d. **Outputs and Deliverables:** Successful completion of fish passage design, permitting and construction.
- e. **Estimated Milestones:** Meetings with partners to advance these projects.
- f. **Long Term Outcomes:** Restoring and strengthening ecosystem services, fish and wildlife of the Peconic Estuary will benefit from access to critical habitat, increased biodiversity and restoration of historic food webs.
- g. **External constraints:** Various constraints related to funding due to COVID19 and project details are outlined in the individual projects.
- h. **Clean Water Act Core Programs:** protecting Large Aquatic Ecosystems.
- i. **Funds transferred from NEIWPC FY20 to RF FY21 Supplemental**

19a: Lake Montauk: In 2019 PEP completed a conceptual habitat restoration design plan to restore connectivity for diadromous fish species between Lake Montauk and Big Reed Pond by replacing an undersized culvert and between Lake Montauk and Stepping Stones Pond by replacing an undersized, impassable culvert under Old West Lake Drive and removing debris. The project was delayed in FY20 due to COVID-19 and funding uncertainties, but Suffolk County Capital funds have been secured to replace the culvert that leads to Big Reed Pond. PEP staff anticipates working with

Suffolk County parks to complete the permitting and construction of this project in FY21. PEP staff is also working with partners to secure funding to complete engineering design plan and construction of the culvert leading to Stepping Stones Pond.

Estimated Budget: Staff time, \$50,000 2016 Suffolk County Capital Budget Funds. *COVID19 funding delays.

External Constraints: This project will be contracted through Suffolk County Parks and they currently have limited staff to oversee construction works. This may cause a delay in the contracting process based on priorities identified by Suffolk County in the next two years. Suffolk County capital funds are delayed due to COVID19.

19b: Alewife Creek: The Town of Southampton received a Climate Smart Communities Grant award to complete the engineering design and construction of the Alewife Creek Habitat Enhancement project which includes the right-sizing of the existing culvert under Noyac Road, reducing stormwater runoff and enhancing the ability of alewife to reach freshwater spawning habitat in Big Fresh Pond within the Town of Southampton. PEP will assist in guiding the design of the project. Expected project completion is 2024.

Estimated Budget: Staff time, \$410,000 NYS Climate Smart Communities Grant, \$410,000 Southampton Town Community Preservation Fund

Performance Measure: Development of an alewife survey to monitor the population and assess the success of fish connectivity projects.

Task 20: Alewife Monitoring on the Peconic River

Transferred from NEIWPC FY20 to RF. Completed under the NEIWPC FY20 grant was the QAPP related to this task and the first year of monitoring. This is an ongoing task for PEP FY21 Supplemental as monitoring continues annually.

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and Roles:** PEP (lead), NYSDEC, Suffolk County Community College, Cornell Cooperative Extension, Peconic Baykeeper, Seatuck Environmental Association
- c. **Description and Objectives:** PEP completed an EPA and DEC approved QAPP for alewife monitoring in the Peconic watershed. This includes a coordinated effort to analyze video footage to estimate alewife abundance. Additionally, we will continue to collect biological data (sex, size and age) on the Peconic River alewife population with the assistance of partners and continue to promote and expand the Long Island Volunteer River Herring Survey. Abundance data will be used by the Peconic Estuary Partnership and our partners to evaluate the success of fish passage restoration efforts. Additionally, the data will be provided to the New York Department of Environmental Conservation and the Atlantic States Marine Fisheries Commission to aid in stock assessments and the management of alewife.
- d. **Outputs and Deliverables:** Annual alewife monitoring reports.
- e. **Estimated Milestones:** Annual alewife monitoring report winter 2022. Hold two trainings winter 2022 for Volunteer River Herring Survey.
- f. **Long Term Outcomes:** Accurately track alewife abundance in the Peconic River, evaluate the success of fish passage restoration efforts and guide management of the species.
- g. **Clean Water Act Core Programs:** protecting Large Aquatic Ecosystems.
- h. **Funds transferred from NEIWPC FY20 to RF FY21 Supplemental**

ACTION 30: Monitor and protect existing eelgrass beds; restore and expand eelgrass beds.

Performance Measure: A comprehensive aerial survey of eelgrass in the Peconic Estuary to support future management decisions.

Task 21: Carry out Eelgrass Aerial Survey

Transferred from NEIWPCC FY20 to RF

Ongoing

- a. **Estimated Budget:** Staff time; \$130,000 NYS PEP EPF funds (additional funds to be contributed by Long Island Sound Study)
- b. **Partners and their roles:** PEP (Co-Lead Partner), LISS (Co-Lead Partner), NYS Department of Environmental Conservation (Funding Entity), USGS (Contracting Entity), University of Rhode Island (Contracting Entity), Cornell Cooperative Extensive (Contracting Entity)
- c. **Description and Objectives:** Coordinate with Long Island Sound Study to conduct an aerial survey to evaluate the current extent of eelgrass habitat in the Peconic Estuary and Long Island Sound watersheds and any increases or decreases in eelgrass habitat extent since the last aerial surveys.
- d. **Outputs and Deliverables:** Aerial maps of eelgrass extent in the Peconic Estuary and eelgrass habitat report
- e. **Estimated Milestones:** Aerial survey anticipated to be conducted spring 2021, Ground truthing expected to be completed fall 2021. Analysis and reporting expected to be completed spring 2022.
- f. **External Constraints:** Potential delays in NYS Funding
- g. **Long Term Outcomes:** Continual partnership between the two NEPs for a common goal will benefit both programs and allow for temporal alignment with eelgrass bed assessments every five years.
- h. **Clean Water Act Core Programs:** protecting Large Aquatic Ecosystems.
- i. **Funds transferred from NEIWPCC FY20 to RF FY21 Supplemental**

Performance Measure: Identification of sites where eelgrass restoration or enhancement if feasible and implementation of projects.

Performance Measure: Identification of sites where water quality improvements could potentially increase habitat suitability for eelgrass and implementation of projects.

Task 22: Convene an eelgrass sub-workgroup

New

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Lead Partner)
- c. **Description and Objectives:** Convene an eelgrass sub-workgroup to determine next steps for eelgrass protection and protection. The results from the recently completed Seagrass Bio-optical and Habitat Suitability Models will be used to identify suitable restoration or enhancements projects. The sub-workgroup will consist of the following partners: NYSDEC, Stony Brook University, CCE, TNC, Municipal staff, and potential representatives from other LI Estuary Programs.
- d. **Outputs and Deliverables:** Identify and carry-out suitable eelgrass restoration or enhancement projects.
- e. **Estimated Milestones:** Meetings twice per year.
- f. **Long Term Outcomes:** Protection of existing eelgrass beds in the Peconic Estuary and expansion of eelgrass habitat, where feasible.

- g. **Clean Water Act Core Programs:** protecting Large Aquatic Ecosystems.
- h. **This is a new task covered under RF FY21 Supplemental**

ACTION 31: Use available habitat quality assessment and climate change resiliency tools to prioritize wetland restoration projects identified in the 2020 PEP Habitat Restoration Plan and implement the top projects.

Performance Measure: Identification of the top five projects from the 2020 Habitat Restoration Plan that have yet to be initiated and funds secured for conceptual design plans.

Task 23: Work with the Natural Resources Subcommittee to secure funds and implement the top priority projects from the 2020 Habitat Restoration Plan

This is a new task for the FY21 and FY21 Supplemental workplans. The NEIWPC FY20 Workplan completed the update and submission of the 2020 Habitat Plan

New

- a. **Estimated Budget:** Staff time
- b. **Partners and their Roles:** PEP (Lead Partner), NYSDEC, Suffolk County, East End Towns, Environmental and Academic Partners
- c. **Description and Objectives:** The 2020 Habitat Restoration Plan is a comprehensive plan that is a culmination of numerous stakeholder meetings and communications with the East End Towns and partners. Then plan outlines goals, objectives, actions to guide habitat restoration and protection in the Peconic Estuary watershed over the next 10 years. The 2020 Peconic Estuary Partnership Habitat Restoration Plan also includes a list of priority habitat restoration projects that align with the defined goals/objectives, potential funding sources, and habitat restoration resources. The overall goal of the 2020 Peconic Estuary Partnership Habitat Restoration Plan is to protect and restore Peconic Estuary habitats to support ecosystem function. Recently PEP staff worked with the Natural Resources Subcommittee to identify the top priority projects in the HRP based on partner input and available ecological prioritization tools; these can be found in the plan. The following wetland projects were identified as current top priorities: Narrow River Wetland Restoration, Paul Stoutenburgh Wetland Restoration, Peconic River Shoreline/Wetland Restoration, Widow’s Hole Living Shoreline Phase II, Accabonac Harbor Wetland Restoration and Shelter Island Marsh Restoration. Some of the projects are already in-progress, while others have yet to be initiated. PEP will work with partners to continue to advance in-progress projects and initiate new priority projects.
- d. **Outputs and Deliverables:** Secure funds and complete Conceptual Habitat Restoration Design Plans for the top priority projects that have yet to be initiated: Accabonac Harbor Wetland Restoration (East Hampton), Shelter Island Marsh Restoration, Peconic River Wetland Restoration (Southampton), and Widow’s Hole Living Shoreline Phase II.
- e. **Estimated Milestones:** Meetings with partners to define potential restoration work and identify funding opportunities.
- f. **External Constraints:** Securing funds for all projects is subject to availability of funds in the next fiscal year, stakeholder participation, etc.
- g. **Long Term Outcomes:** The benefits of habitat restoration efforts will be seen over a long period of time, but will result in enhancement of existing resources and/or restoration of habitats that have been lost or degraded.
- h. **Clean Water Act Core Programs:** Wetland Protection
- i. **This is a new task covered under the RF FY21 Supplemental**

Performance Measure: Complete engineering designs for ongoing, priority wetland restoration project Paul Stoutenburgh Preserve

Task 24: Implement priority wetland restoration projects identified in the PEP Habitat Restoration Plan

Tasks 24 a, b, and c are transferred from NEIWPC FY20 to RF. Task 24d is new to the RF FY21 and FY21 Supplemental workplans. See each sub-task for details.

Task 24a: Work with partners to secure funds for Engineering Design Plans for Paul Stoutenburgh Habitat Restoration Project

Ongoing

- a. **Estimated Budget:** Staff time, \$100,000 2017 Suffolk County Capital Budget Funds.
- b. **Partners & Roles:** PEP (Lead Entity), Town of Southold, Suffolk County
- c. **Description and Objectives:** PEP will work with Town of Southold to hire a contractor to complete engineering design and permitting for a habitat restoration project at Paul Stoutenburgh Preserve in the Town of Southold. This project involves improving the tidal flow into the wetland and removal of 6 acres of invasive *Phragmites* and restoration to native vegetation within the larger Paul Stoutenburgh Preserve (*formerly* Arshamomaque Pond Preserve).
- d. **Outputs and Deliverables:** Final engineering design and permitting of wetland habitat restoration at site.
- e. **Estimated Milestones:** Quarterly meetings with Town of Southold and other project partners
- f. **External Constraints:** Project was delayed in FY20 due to COVID-19 related funding uncertainties but will move forward in FY21.
- g. **Long Term Outcome:** The benefits of habitat restoration efforts will be seen over a long period of time, but will result in enhancement of existing resources and/or restoration of habitats that have been lost or degraded.
- h. **Clean Water Act Core Programs:** Wetland Protection
- i. **Task transferred from NEIWPC FY20 to FY21 Supplemental**

Performance Measure: Complete construction of priority wetland restoration project at Indian Island to restore five acres of habitat

Task 24b: Complete Construction of Indian Island Wetland Restoration Project

Ongoing

- a. **Estimated Budget:** Staff time; \$1,406,666 from partner awards and match: NYSDEC WQIP/AHR Grant (\$788,000 award & \$262,666 match; \$56,000 FY00 Grant), \$300,000 Suffolk County
- b. **Partners and Roles:** PEP (project coordinator), NYSDEC (Funding and Contracting Entity), Suffolk County (Lead Partner)
- c. **Description and Objectives:** This project aims to restore a tidal wetland located within the Indian Island County Park that adjoins with Terry Creek and Flanders Bay. Dredging of nearby creeks in the 1940s-1970s accounted for nearly 1 million cubic yards of dredge material being placed over 54 acres at Indian Island County Park- wiping out an entire tidal wetland ecosystem. This project seeks to excavate approximately 6,400 cubic yards of previously placed dredge

materials from the site, install tidal channels and restore the area to a productive salt marsh ecosystem. The restored marsh system will be established based on similar local reference high and low marsh elevations; with particular focus to allow for marsh migration and vegetation shifts in response to sea level rise. PEP is assisting Suffolk County and providing technical guidance on the design plans.

- d. **Outputs and Deliverables:** Final engineering design, permitting, and implementation of wetland restoration at site
- e. **Estimated Milestones:** Project expected to be completed December 2021
- f. **External Constraints:** This project has experienced severe delays to date. The funds are currently expiring in December 2021. If this work is not completed in this time frame the possibility exists that it will not move forward as funding will be lost.
- g. **Long Term Outcomes:** The benefits of habitat restoration efforts will be seen over a long period of time, but will result in enhancement of existing resources and/or restoration of habitats that have been lost or degraded.
- h. **Clean Water Act Core Programs:** Wetland Protection
- i. **Task transferred from NEIWPC FY20 to RF FY21 Supplemental**

Performance Measure: Complete engineering designs for ongoing, priority wetland restoration project at Narrow River/Broad Meadows marsh.

Performance Measure: Complete construction of Narrow River/Broad Meadows Wetland Restoration

Task 24c: Work with Partners to Secure Funds for Narrow River Wetland Restoration Project

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Co-Lead), NYSDEC (Co-Lead/property owner), Town of Southold (Co-Lead/property owner), Ducks Unlimited (Co-Lead), TNC (Supporting Partner)
- c. **Description and Objectives:** In 2019 PEP completed a conceptual design plan for wetland restoration at Narrow River/Broad Meadows marsh. Narrow River is a tributary of the Peconic Bay and flows south from the Town's Whitcom Marsh Preserve under Route 25 and along the eastern side of Narrow River Rd in Orient, NY. NY State owns most of the properties on the east side of Narrow River Rd and the Town and County own farm land development rights on both sides of the road that includes tributaries to Narrow River. An earthen dam was constructed after the 1938 hurricane to prevent tidal flooding of the lands north of the dam. The western-most section of the dam blocked the tidal flow from Narrow River to the large meadow area north of the dam known as Broad Meadows and Whitcom Marsh Preserve north of Route 25. The dam was modified overtime to include culverts, but these culverts are no longer functioning as originally designed and allow very little water to drain to the south. Additionally, the wetlands north of the earthen dam and culvert to Whitcom Marsh Preserve, which were historically used for duck hunting, are currently choked with *Phragmites*. Remediation of the culvert and earthen dam is needed to improve the tidal exchange throughout the extent of the river and increase the salinity of the river. These actions will help to eradicate the *Phragmites* and will promote the re-establishment of native vegetation and important waterfowl and wading bird habitat. The potential extent of the restoration area is 80 acres. PEP is working with partners to secured funding for engineering design plans and construction.
- d. **Outputs and Deliverables:** Final engineering design, permitting, and implementation of wetland restoration at site

- e. **Estimated Milestones:** Project funds secured by December 2021 (pending grant funding). Construction of the project is anticipated to occur in 2023 (pending grant funding).
- f. **External Constraints:** Securing implementation funding could be a challenge due to the high cost of the project and the unique hydrology the project plan presents.
- g. **Long Term Outcomes:** The benefits of habitat restoration efforts will be seen over a long period of time, but will result in enhancement of existing resources and/or restoration of habitats that have been lost or degraded.
- h. **Clean Water Act Core Programs:** Wetland Protection
- i. **Task transferred from NEIWPC FY20 to RF FY21 Supplemental**

Task 24d: Complete engineering designs and construction of the Cedar Beach Creek Wetland Restoration to restore 5 acres of wetland habitat

New

- a. **Estimated Budget:** Staff time; \$728,782 United States Army Corps of Engineers (USACE) funding.
- b. **Partners and Roles:** CCE (Lead Partner), PEP (Supporting Partner), NYSDEC, Town of Southold
- c. **Description and Objectives:** The Cedar Beach Creek Habitat Restoration Demonstration Project will restore local essential ecosystem functions in a degraded marsh system. It will create numerous marsh islands from the beneficial reuse of clean dredge material, planting of submerged aquatic vegetation (*Ruppia maritima*), and oysters (*Crassostrea virginica*) into a complex marsh, beach, and open water mosaic. Cedar Beach Creek is productive for marine finfish, shellfish, and other wildlife and contributes significantly to the biological productivity of Noyack Bay.
- d. **Outputs and Deliverables:** Final engineering design, permitting, and implementation of wetland restoration at site
- e. **Estimated Milestones:** Project stakeholder meetings, completion of engineering design.
- f. **External Constraints:** Permitting may delay the completion of this milestone
- g. **Long Term Outcomes:** The benefits of habitat restoration efforts will be seen over a long period of time, but will result in enhancement of existing resources and/or restoration of habitats that have been lost or degraded.
- h. **Clean Water Act Core Programs:** Wetland Protection
- i. **This is a new task and covered under RF FY21 Supplemental**

ACTION 33: Implement living shoreline projects, monitor for ecological and financial benefits, and use model projects to educate planners and homeowners on the benefits of living shorelines over hardened shorelines

Performance Measure: Dissemination of monitoring results from two pilot living shoreline projects;

Performance Measure: Development of user-friendly living shoreline guides for homeowners.

Task 25: Living Shoreline Stakeholder Education

Transfers from NEIWPC FY20 to RF.

Ongoing

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Co-Lead Partner), NYS DEC (funding entity), NY Sea Grant (contracting entity).

- c. **Description and Objectives:** The PEP working with the NYSDEC and NY Sea Grant, is developing living shoreline outreach materials and planning educational workshops to encourage the appropriate use of living shorelines in place of hardened approaches for erosion control, and encourage, where appropriate, modification of existing shoreline erosion control structures into living shorelines. The living shoreline outreach materials and workshops will provide information on the benefits of living shorelines, information on the projects established in the Peconic Estuary and the region, and information on how a stakeholder could establish a living shoreline. Details of the task scope are being finalized.
- d. **Outputs and Deliverables:** Living shoreline outreach materials for stakeholders and hold up to four workshops for property owners, contracting entities, and municipal staff in the Peconic Estuary watershed.
- e. **Estimated Milestones:** Finalize scope and MOU with Sea Grant by December 2021. Kick-off project in 2022.
- f. **External Constraints:** NYSDEC funding is uncertain at this time due to COVID19.
- g. **Long Term Outcomes:** Property owners will install living shorelines in place of hardened shorelines. Each completed living shoreline project will serve as a demonstration to promote and track benefits of living shorelines as an alternative to hardened shoreline.
- h. **Clean Water Act Core Programs:** Wetland Protection
- i. **Task transferred from NEIWPC FY20 to RF FY21 Supplemental**

ACTION 34: Develop habitat protection and restoration strategies for key species in the Peconic Estuary and its watershed, including the river otter, diamondback terrapin, and horseshoe crab.

Performance Measure: Expansion of monitoring and research for river otters, diamondback terrapins and horseshoe crabs to understand habitat utilization and identify threats to these species.

Performance Measure: Development of estuary-wide habitat protection and restoration strategies for river otters, diamondback terrapins and horseshoe crabs

Task 26: Continue to expand monitoring of key estuary species and convene a sub-workgroup to develop a habitat restoration and protection strategy for horseshoe crabs.

New

- a. **Estimated Budget:** Staff time
- b. **Partners and their roles:** PEP (Lead Partner), Seatuck Environmental Association, CCE, NYSDEC
- c. **Description and Objectives:** Through the Long Island Wildlife Monitoring Network, PEP will continue to expand monitoring of key estuary species, including river otters, diamondback terrapins, and horseshoe crabs (see Outreach and Education Task 4). Additionally, the PEP will convene a sub-workgroup of the NRS to identify current monitoring gaps for horseshoe crabs and work on the development of an estuary-wide habitat restoration and protection strategy. The development of a strategy for horseshoe crabs has been identified as a priority by the NRS. An initial kick-off meeting with the NRS is planned for spring 2021.
- d. **Outputs and Deliverables:** Increase monitoring for key estuary species and development of a habitat restoration and protection strategy for horseshoe crabs in the Peconic Estuary
- e. **Estimated Milestones:** Meetings with the horseshoe crab sub-workgroup and other relevant partners/stakeholders, as appropriate
- f. **External Constraints:** NA

- g. Long Term Outcomes:** The benefits of habitat restoration and protection efforts will be seen over a long period of time, but will result in enhancement of existing resources and/or restoration of habitats that have been lost or degraded.
- h. Clean Water Act Core Programs:** Wetland Protection
- i. This is a new task covered under the RF FY21 Supplemental grants**

Task 27: Technical Support for PEP Projects

New

This is a new task in response to the identified need by the program office for technical expertise related to several projects outlined in this workplan. Under the 2020 CCMP PEP has committed to the completion of a Tracking System which will be an online, interactive tool that will allow committee members, partners, and communities to follow program progress on the goals and actions identified in the 2020CCMP. Project items like funding, project partners, and outcomes can be widely shared. Additional technical expertise will allow on-going projects to receive necessary and assistance for annual completion, specifically ongoing development and upgrades to the Peconic R-based open science package for water quality monitoring reporting and ArcGIS based data analysis for Seagrass and Peconic Bay scallop related projects. Considerations for assistance in accomplishing these tasks will be sought by Research Foundation in conjunction with PEP partners, like NYSDEC, to explore the most effective way to achieve the needs of PEP.

- a. Estimated Budget:** \$80,000 EPA 320 Funds
- b. Partners and their roles:** PEP (Lead Partner), RF
- c. Description and Objectives:** The establishment of a one year contract to aid in the ability of the program office to manage projects and carry out technical tasks. R-based open science and ArcGIS support to enhance current initiatives including but not limited to the Water Quality Monitoring Collaborative, Peconic Bay Scallop Technical Advisory Committee, PEP Habitat Restoration Plan, Seagrass Bio-optical Model Tool, Critical Lands Protection Strategy and Ranking Tool.
- d. Outputs and Deliverables:** The development of the PEP CCMP Tracking system with an interactive user interface on the PEP website, project associated ArcGIS map(s) to provide a dashboard for all PEP related GIS maps, Support development and upgrades to the Peconic R-based open science package (<https://tbep-tech.github.io/peptools/>) developed by the Tampa Bay Estuary Program to analyze and annually report on water quality in the Peconic Estuary, Develop the PEP CCMP Tracking system with an interactive user interface on the PEP website.
- e. Estimated Milestones:** A draft tracking system for PEP CCMP actions
- f. External Constraints:** This is a one year contract. A complete tracking system will likely take longer to complete, it is envisioned this contract will move the tracking system forward to draft final form. R-based support for associated reports and GIS maps/database for associated projects and reports final.
- g. Long Term Outcomes:** All PEP projects supported with appropriate methods and reporting.
- h. Clean Water Act Core Programs:** All
- i. This is a new task covered under the RF FY21 Supplemental grant**

IV. BUDGET DETAILS

Resources Requested

The total funds requested in this PEP budget to The Research Foundation at SUNY Stony Brook (RF) are **\$428,288** and represent the total amount transferred from NEIWPCCE FY20 grant (EPA Grant #: CE97230303) as a result of the program transfer to RF. Details of funds remaining with NEIWPCCE can be found in NEIWPCCE's Amendment #3 for the Peconic Estuary Partnership under award number CE97230303.

Non-Federal Match: Non-federal match for these funds was submitted with the NEIWPCCE FY20 grant application. Under this grant agreement (CE97230303) NEIWPCCE is provided the following match: NYSDEC, \$336,711 and Suffolk County, \$192,669. Match will be applied proportionately to funds which remain with NEIWPCCE and those which transfer to RF.

Trips Anticipated Travel for FY21 is partially detailed in the original FY21 Grant submittal. Additional travel is estimated here for the same time period.

Date	Meeting/Event	Purpose	Destination	Number of Staff	Estimated Cost
May 16-20 2022	Society of Wetland Scientists	Annual Meeting	Michigan	1	\$1500
January 1, 2022 – September 30, 2022	N/A	Outreach	East End	1 Outreach Coordinator	\$3,000
October 1, 2021- September 30, 2022	N/A	Local Travel	New York	4	\$5,624

Trips Taken During FFY2020

N/A

Date	Meeting/Event	Purpose	Destination	Number of Staff	Final Cost

Appendix A: Detailed Budget

FY21 EPA §320 Budget (CE-96250200-0)	
Description	FY21 Cost
Program Office	
Personnel	\$ 181,372 -
Fringe	\$ 59,760
SUB-TOTAL	\$ 241,132
Supplies	\$ 9,760
Travel	\$ 10,124
Other	\$ 4,392
ANEP	\$ 4,500
SUB-TOTAL	\$ 269,908
Indirect (26%)	\$ 70,190
Sub-Awards*	
Homeowner Rewards	\$ 8,190
Technical Contract (1 Year)	\$ 80,000
TOTAL FY21 SUPPLEMENTAL	\$ 428,288

*Sub-awards are charged 26% on the first \$25,000 of the award

Appendix B: Match Documentation

The nonfederal match requirement for the FY21 Supplemental grant application has been provided as part of the NEIWPC-PEP FY20 Grant (CE97230303). This match has been previously submitted and approved by EPA and satisfies the requirement for these funds.