

**CHARLOTTE HARBOR NATIONAL ESTUARY PROGRAM FUNDING
AGREEMENT FOR FEDERAL FISCAL YEAR 2017
BETWEEN MANATEE COUNTY AND
THE CITY OF PUNTA GORDA**

**On behalf of
The Charlotte Harbor National Estuary Program**

THIS IS AN AGREEMENT by and between Manatee County, a political subdivision of the State of Florida (hereinafter "County") whose mailing address is Post Office Box 1000, Bradenton, Florida 34206, and the CITY OF PUNTA GORDA, a municipal government of the State of Florida, (hereinafter "City") whose mailing address is 326 W. Marion Avenue, Punta Gorda, FL 33950, on behalf of the CHARLOTTE HARBOR NATIONAL ESTUARY PROGRAM (hereinafter "CHNEP"), whose mailing address is 326 W. Marion Avenue, Punta Gorda, 33950.

WHEREAS, the National Estuary Program was established by 33 U.S.C.A., Section 1320, and Charlotte Harbor was subsequently added to the National Estuary Program in July 1995 by Carol Browner, Administrator of the U.S. Environmental Protection Agency (EPA); and

WHEREAS, the CHNEP is directed by a Policy Committee consisting of a Deputy Director, Water Protection Division of the U.S. EPA Region 4, the South District Director of the Florida Department of Environmental Protection, a member of the Governing Board of the Southwest Florida Water Management District, a member of the Governing Board of the South Florida Water Management District, a member of the Department of Community Affairs, a member of the Florida Fish and Wildlife Conservation Commission, a member of the Central Florida Regional Planning Council, a member of the Southwest Florida Regional Planning Council, a County representative from each of Lee, Charlotte, DeSoto, Hardee, Manatee, Sarasota, and Polk Counties, and representatives of the Cities and Towns of Arcadia, Bartow, Bonita Springs, Cape Coral, Estero, Fort Myers, Fort Myers Beach, North Port, Punta Gorda, Sanibel, Venice, and Winter Have; and

WHEREAS, the CHNEP is a quasi-public entity, jointly funded through units of federal, regional, and local governments; and

WHEREAS, on February 11, 2000, the Comprehensive Conservation and Management Plan (CCMP) for Charlotte Harbor was approved by the Policy Committee; and

WHEREAS, on March 18, 2013, the CCMP Update for Charlotte Harbor was approved by the Policy Committee; and

WHEREAS, the actions in the CCMP include environmental stewardship, wetlands restoration, community outreach and education activities to enhance fisheries and living resources, recreational management, tracking relevant legislation, letters of support as appropriate to legislators and policy makers, presenting the Legislative Agenda to State and

Federal Legislative Delegations throughout the CHNEP study area, public involvement activities, monitoring and research; and

WHEREAS, on March 9, 2017, the CHNEP Policy Committee approved the FY 2018 Annual Workplan to complete and implement elements of the CCMP;

WHEREAS, the Manatee County Board of County Commissioners has determined that the programs, goals and activities will create a public benefit for the citizens of Manatee County.

NOW THEREFORE, the parties agree as follows:

1. Payment: The County agrees to pay the City \$5,000 for activities specified in the attached CHNEP FY18 Workplan that will benefit Manatee County, and that are performed solely for public purposes, as required by the County's payment procedures, by July 31, 2018.
2. Reports: the Council, on behalf of the CHNEP, shall provide the County with an annual, written report and analysis of work accomplished pursuant to the FY18 Workplan, attached and incorporated herein.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives.

ADOPTED IN OPEN SESSION WITH A QUORUM PRESENT AND VOTING THIS
13th DAY OF February, 2018

ATTEST: _____
Clerk of the Circuit Court

BOARD OF COUNTY COMMISSIONERS
MANATEE COUNTY, FLORIDA



BY: Robin Roth, Jr

BY: Bivall

CITY OF PUNTA GORDA, administering agency for CHARLOTTE HARBOR NATIONAL ESTUARY PROGRAM.

BY: Howard Kunick
Howard Kunick, City Manager
Printed Name

Date: 3/7/2018

WITNESS
BY: David M. Levin
Printed Name

FISCAL YEAR 2018

Workplan and Budget Amended



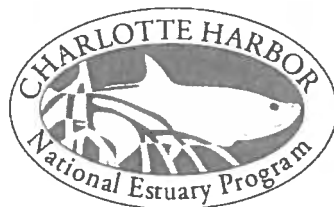
Photo Credit: *Maran Hilgendorf*

Citizen Scientist conducting one-year monitoring of oyster growth for Volunteer Oyster Habitat Monitoring Project, November 29, 2016

Charlotte Harbor National Estuary Program

March 9, 2017

Amended January 18, 2018



326 W. Marion Avenue
Punta Gorda, FL 33950
(941) 575-5090
www.CHNEP.org

The Charlotte Harbor National Estuary Program is a partnership of citizens, elected officials, resource managers and commercial and recreational resource users working to improve the water quality and ecological integrity of the greater Charlotte Harbor watershed. A cooperative decision-making process is used within the program to address diverse resource management concerns in the 4,700-square-mile study area. Many of these partners also financially support the Program, which, in turn, affords the Program opportunities to fund projects. The entities that have financially supported the program include the following:

U.S. Environmental Protection Agency
Southwest Florida Water Management District
South Florida Water Management District
Florida Department of Environmental Protection
Peace River/Manasota Regional Water Supply Authority
Polk, Sarasota, Manatee, Lee, Charlotte, and Hardee Counties
Cities and Towns of Sanibel, Cape Coral, Fort Myers, Punta Gorda, North Port, Venice,
Fort Myers Beach, Winter Haven, Bonita Springs, Estero, and Arcadia

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Charlotte Harbor National Estuary Program

Policy Committee

Mr. Doug Mundrick, Co-Chair
Water Protection Division
U. S. Environmental Protection Agency, Region 4

Mr. Jon Iglehart, Co-Chair
South District Director
Florida Department of Environmental Protection

Cities

Hon. Robert W. Hein, Jr.
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Vacant
City of Bartow

Hon. Fred Forbes
City of Bonita Springs

Hon. Jessica Cosden
City of Cape Coral

Vacant
City of Fort Myers

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Town of Fort Myers Beach

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Hon. Gary Wein
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Hon. Mick Denham
City of Sanibel

Hon. Fred Fraize
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Mr. M J Carnevale
City of Winter Haven

Hon. Katy Errington
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Vacant
Hardee County

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Hon. Stephan Jonsson
Manatee County

Mr. Jeff Spence
Polk County

Hon. Mike Moran
Sarasota County

Agencies

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Central Florida Regional Planning Council

Dr. Phil Stevens
Florida Fish & Wildlife Conservation Commission

Mr. Phil Flood
South Florida Water Management District

Mr. Don McCormick
Southwest Florida Regional Planning Council

Mr. John Henslick
Southwest Florida Water Management District

Management Committee Co-Chairs

Ms. Shelley Thornton

Ms. Gillian Carney

Technical Advisory Committee Co-Chairs

Mr. Keith Kibbey

Ms. Elizabeth Staugler

Ms. Shelley Thornton

Citizens Advisory Committee Co-Chairs

Mr. Roger DeBruler

Mr. Kayton Nedza

Debi Osborn

Staff

Jennifer Hecker, Executive Director
Elizabeth S. Donley, Deputy Director
Allison Conner, Program Scientist
Suzie Thompson, Administrative Assistant
Jesse Hevia, Conservation Associate

Purpose and EPA Guidance

This document provides annual financial and task-based information to meet federal workplan requirements. The focus of this workplan continues to be the implementation of the Comprehensive Conservation and Management Plan (CCMP).

The latest Environmental Protection Agency (EPA) guidance for the development of the workplan is the *National Estuary Program FY17 and FY19 Clean Water Act §320 Funding Guidance*. According to the guidance, NEP Workplans include the following required elements:

1. Previous Year's Program Accomplishments
2. CCMP Goals for coming year
3. Budget and Staff Elements
 - a. Budget breakdown including match
 - b. NEP staff and their official responsibilities
 - c. Cost share information
4. New and Ongoing Projects
 - a. Project Name (new or ongoing)
 - b. Project Objective
 - c. Project Description
 - d. Partners and Their Roles
 - e. Outputs/Deliverables
 - f. Milestones
 - g. Budget
 - h. Long term Outcomes
 - i. CWA core program the project supports
5. Areas of Special Interests
 - a. Nutrient management activities.
 - b. Climate resilience
6. Completed Major Projects
7. Section 320 funded travel
 - a. Travel during the fiscal year in which the new workplan is adopted (i.e. the amended year), actual figures for October 1 to the date the workplan is developed and projected figures for the remainder of the FY. Information includes:
 - Number of personnel
 - Travel dates
 - Purpose
 - Location
 - Final and Estimated Cost of trip
 - b. Projected travel during the new fiscal year with the same information listed above.

Summary Information: FY2017 Program Accomplishments

FW-1: Protect, enhance and restore native habitats where physically feasible and within natural variability, including: Submerged aquatic vegetation (SAV); Submerged and intertidal unvegetated bottoms; oyster; mangrove; salt marsh; freshwater wetland; native upland; and water column.

- CHNEP continued to work with Southwest Florida Oyster Working Group partners on designing, permitting and constructing oyster restoration projects in Charlotte Harbor. Specifically staff collaborated with the Nature Conservancy and the City of Punta Gorda on developing a living shoreline concept for Charlotte Harbor.
- CHNEP completed work on the Volunteer Oyster Habitat Monitoring project in December 2016. The project resulted in the recruitment, training and maintaining a cohort of volunteer citizen scientists that conduct monthly water quality data collection, periodic whelk monitoring and 6-month oyster habitat monitoring. CHNEP will continue to support the VOHM citizen scientists through FY2018.
- CHNEP staff worked with partners to develop the Citizens Seagrass Gardening project for the tidal Caloosahatchee River. The project was submitted to the Florida Department of Environmental Protection's Coastal Partnership Initiative for funding. The CHNEP was notified that the project funding was awarded. Staff continued working with partners to draft the required permit applications for siting the seagrass gardens on submerged lands of Florida.
- The CHNEP Habitat Conservation Subcommittee was convened to guide development of the restoration targets, and the Restoration Needs Plan Update approach. The contractor presented the Management Conference with the "Additive Hybrid Approach" for review and comment.
- In FY15, the CHNEP, in partnership with DeSoto County with funding from Mosaic and the SWFWMD, initiated the process to develop and implement a Peace River shoreline stabilization and habitat restoration project in Morgan Park in Arcadia. Morgan Park is an important conservation area on the Peace River, but river erosion and exotic vegetation are problems within the park. CHNEP continued working with project partners to address shoreline erosion and stabilization and to conduct habitat restoration activities. The Site design is completed and draft permits are being developed.

HA-2: By 2020, restore, enhance and improve where practical historic watershed boundaries and natural hydrology for watersheds within the CHNEP study area, with special attention to Outstanding Florida Waters and Class I water bodies.

- CHNEP worked with partners to design and attract funding to significant hydrologic restoration projects including Charlotte Harbor Flatwoods Initiative, the Vital Tidal Creeks, C-43 Reservoir and East Lehigh Acres Weir Project.
- CHNEP assumed leadership of the South Lee County Watershed Initiative, at the request of the South Florida Water Management District.

WQ-E: Implement projects to improve or protect water quality to offset anthropogenic impacts.

FW-E: Improve canal, pond, lake and river management activities to benefit fish and wildlife.

- In FY2017, WET PLAN conducted 4 workshops with 150 attendees. The WET PLAN partners revised the workshop curriculum into 4 modules: Stormwater Pond Purpose, Basic Stormwater Pond Design, Plants and Algae, and Human Impacts.

SG-D: Provide people with opportunities to be involved in research, monitoring and restoration activities

- CHNEP completed work on the Volunteer Oyster Habitat Monitoring project in December 2016. The project resulted in the recruitment, training and maintaining a cohort of volunteer citizen scientists that conduct monthly water quality data collection, periodic whelk monitoring and 6-month oyster habitat monitoring. CHNEP will continue to support the VOHM citizen scientists through FY2018.
- CHNEP provided staff support for the first 6-months of FY2017 to the CHEVWQMN, a 20-year program of citizen scientists conducting monthly water quality monitoring tasks in the estuarine waters.
- CHNEP will continue to provide information about opportunities for Management Conference participants and interested citizens via our Constant Contact notifications.

SG-2: By 2020, The CHNEP will expand its role as a recognized resource to elected officials or their agents from local, state and federal government for policy advice.

- The Village of Estero became an active Management Conference member and the City of Arcadia became a contributing member.

SG-4: Through 2020 key geographic and scientific information will be presented in ways that are meaningful to the majority of people.

- CHNEP continued to support and fund the WaterAtlas and began an in-depth review of partner use.

SG-J: Identify and showcase accomplishments and excellent examples of research findings, restoration, legislative changes and outreach success using a variety of methods.

- The CHNEP held the triennial Watershed Summit showcasing research, restoration and outreach projects conducted by partners that implement the CCMP on March 28, 29 and 30, 2017. There were 55 presentations, and 301 attendees over the 3 days.

SG-Q: Build capacity for communities and their local leadership to mitigate and adapt to the effects of climate change through joint efforts.

- The CHNEP initiated work on the broad, risk-based climate change vulnerability assessment to identify climate stressors that affect the CHNEP's ability to achieve its CCMP goals.

The CHNEP developed a Scope of Work for completing an analysis of habitat resiliency to climate change utilizing existing data sets and coordinating with state, regional and local partners to inform restoration planning.

CCMP Goals Focus in FY18

The Fiscal Year 2018 Workplan and Budget reflects the Management Conference's direction to focus on the following CCMP Goals in FY2018. The CHNEP Management Conference will be revising the CCMP during FY2018, including the completion of a broad risk-based climate change vulnerability assessment of the CCMP's 15 Quantifiable Objectives.

FW-1: Protect, enhance and restore native habitats where physically feasible and within natural variability, including: Submerged aquatic vegetation (SAV); Submerged and intertidal unvegetated bottoms; oyster; mangrove; salt marsh; freshwater wetland; native upland; and water column.

- CHNEP will staff and work with Southwest Florida Oyster Working Group toward designing, permitting and constructing oyster restoration projects in Charlotte Harbor.
- CHNEP will support the submerged aquatic vegetation (SAV) working group and the development of a restoration plan for the Caloosahatchee River SAV. CHNEP will provide staff support to the Caloosahatchee Waterkeeper for the Coastal Partnership Initiative project "Citizen Seagrass Gardening" in the tidal Caloosahatchee River.
- The CHNEP will work on the Habitat Restoration Needs Plan Update and the Habitat Resiliency Project with the chosen contractor(s) and the Management Conference.

HA-2: By 2020, restore, enhance and improve where practical historic watershed boundaries and natural hydrology for watersheds within the CHNEP study area, with special attention to Outstanding Florida Waters and Class I water bodies.

- CHNEP will work with partners to design and attract funding to significant hydrologic restoration projects including Charlotte Harbor Flatwoods Initiative, the Vital Tidal Creeks, C-43 Reservoir, South Lee County Watershed Initiative, and East Lehigh Acres Weir Project.

WQ-E: Implement projects to improve or protect water quality to offset anthropogenic impacts.

FW-E: Improve canal, pond, lake and river management activities to benefit fish and wildlife.

- CHNEP will support the Watershed Education Training, Ponds, Lakes and Neighborhoods (WETPLAN) program to assist neighborhood groups with their stormwater pond management and building green infrastructure.

CHNEP will continue to support the Coastal Charlotte Harbor Monitoring Network.

CHNEP will continue to work with partners on septic to sewer conversion projects (Charlotte County Utilities, City of Punta Gorda).

SG-2: By 2020, the CHNEP will expand its role as a recognized resource to elected officials or their agents from local, state and federal government for policy advice." CHNEP continued to implement its advocacy and review procedures by reviewing and providing comments on critical projects. CHNEP continued working with local governments to address climate change resiliency.

- The CHNEP will complete a broad, risk-based climate change vulnerability assessment to address how identified climate stressors may affect achieving CCMP goals.
- The CHNEP will complete an analysis of habitat resiliency to climate change utilizing existing data sets and coordinating with state, regional and local partners to inform restoration planning.
- The CHNEP will develop and provide to partners surface water quality status reports.

SG-4: Through 2020 key geographic and scientific information will be presented in ways that are meaningful to the majority of people.

- CHNEP will fund the WaterAtlas and expand its use for recording and storing and analyzing data collected throughout the Study Area.
- CHNEP will publish four issues of *Harbor Happenings*.
- CHNEP will maintain a presence on social media and its website www.chnep.org
- CHNEP will work with USF to revise the WaterAtlas.

SG-D: Provide people with opportunities to be involved in research, monitoring and restoration activities

- CHNEP will provide support to the CHEVWQMN, a 20-year program of citizen scientists conducting monthly water quality monitoring tasks in the estuarine waters.
- CHNEP will provide information about volunteer opportunities for Management Conference participants and interested citizens via our Constant Contact notifications.
- CHNEP will develop an in-house Citizen Science program.
- CHNEP will continue its Conservation Associate program, providing opportunities for college students and recent graduates.

Budget Overview

Table 1: Fiscal Year 2017 – 2018 Proposed Budget

Proposed Budget for Fiscal Year 2017-2018		
Charlotte Harbor National Estuary Program (Federal Fiscal Year 2018)		
	2017-2018	2016-1017
Revenue		
Federal (programmatic 320 funds)	600,000.00	658,877.00
Partner Contributions (Non-Federal)	102,500.00	99,500.00
Partner Contributions (Federal)	75,000.00	75,000.00
Grants (Federal)	46,270.00	
Grants (Non-Federal)	180,000.00	170,000.00
In Kind Services	632,000.00	658,877.00
Other	16,418.00	-
Total Revenue	\$ 1,652,188.00	\$ 1,662,254.00
Expenditures		
Personnel	409,631.00	453,420.00
Pubs, Subs., Dues	4,500.00	5,000.00
Travel, Conferences	25,000.00	15,000.00
Outreach - printings, grants, events	172,700.00	178,850.00
Research and Restoration Contracts	255,919.00	243,000.00
Office Rental	3,425.00	3,425.00
Computer/IT	14,500.00	14,500.00
Administrative Fee	86,463.00	83,945.00
Communications	1,200.00	600.00
Office Supplies and Materials/Postage	4,200.00	4,200.00
Promotional/Meeting Support	4,200.00	5,000.00
Overhead	3,810.00	11,000.00
Total Expenditures	\$ 985,548.00	\$ 1,017,940.00
Fund Balance		
Beginning of Fiscal Year (unaudited)	95,893.00	73,075.00
Projected Fiscal Year contribution (unaudited)	46,822.00	22,818.00
Projected Total unobligated funds end of Fiscal Year	\$ 142,715.00	\$ 95,893.00

Budget Details

The Workplan and Budget amendment results in an overall budget increase of \$73,381, including the 3% increase in Administrative costs. The source of the new funds in the budget are:

- \$32,000 supplemental EPA funds;
- \$10,000 grant from partner for outreach; and
- \$14,270, Citizen Seagrass Gardening grant;
- \$16,418 from donations to Friends of Charlotte Harbor Estuary; and
- \$694 from local funds.

Within the budget, funds have been re-distributed from personnel/fringe to outreach and technical projects as follows: Outreach projects - \$32,800; Research projects - \$5,240; and Restoration projects - \$58,657. In addition, a new fully funded part time position has been added: Research and Outreach Specialist. This budget results in \$46,800 being added to the Fund Balance.

Table 2: FY18 Workplan Budget – amended

Task #	Task	Personnel	Fringe	Travel	Other	Total
1	Mgmt. Conference	\$169,664	\$56,144	\$25,000	\$117,798	\$368,607
2	Outreach	\$45,599	\$13,645		\$172,700	\$231,944
3	Research	\$8,228	\$3,195		\$133,240	\$144,662
4	Restoration	\$73,714	\$23,264		\$122,679	\$219,658
5	Legislation	\$12,478	\$3,700		\$4,500	\$20,678
	Total	\$309,683	\$99,948	\$25,000	\$550,917	\$985,548

Table 3: FY18 Workplan Budget Funding Sources - amended

Sub-Task #	Sub-Task	Federal	FDEP	SWFWMD	Manatee	Grants	Local	Total
1	Mgmt. Conference	\$350,356		\$3,557		\$14,717	\$0	\$368,607
2	Outreach	\$146,804	\$26,222		\$5,000	\$7,500	\$46,418	\$231,944
3	Research	\$72,946	\$3,891	\$67,825			\$0	\$144,662
4	Restoration	\$61,894	\$44,876	\$58,618		\$54,270	\$0 00	\$219,658
5	Legislation						\$20,678	\$20,678
		\$632,000	\$74,989	\$130,000	\$5,000	\$76,487	\$67,095	\$985,548

Table 4: FY18 EPA Cooperative Agreement Funding - amended

Task #	Task	Personnel	Fringe	Travel	Other	Total
1	Mgmt. Conference	\$157,755	\$52,303	\$25,000	\$115,298	\$350,356
2	Outreach	\$11,658	\$4,946		\$130,200	\$146,804
3	Research	\$3,437	\$1,269		\$68,240	\$72,946
4	Restoration	\$13,689	\$4,795		\$43,409	\$61,894
5	Legislation					
	In-Kind				\$632,000	\$632,000
	Total	\$186,539	\$63,313	\$25,000	\$989,147	\$1,264,000

Table 5: Charlotte Harbor NEP FY18 Income

Funding Source	Actual FY 16 Funding	FY 17 Request	Actual FY17 Funding	FY18 Request
Section 320 Funding	\$600,000.00	\$600,000.00	\$600,000.00	\$600,000.00
EPA CCMP Vul Assessment		\$20,527.00	\$20,527.00	
EPA CRE Habitat Resiliency		\$38,350.00	\$38,350.00	
EPA CCMP Revision Support				\$32,000.00
Total Federal Income	\$600,000.00	\$658,877.00	\$658,877.00	\$632,000.00
DEP	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00
SFWMD	\$0.00	\$130,000.00	\$0.00	130,000.00
SWFWMD	\$130,000.00	\$130,000.00	\$130,000.00	\$130,000.00
Peace Manasota Water Supply Authority	\$3,500.00	\$3,500.00	\$3,500.00	3,500.00
Subtotal Regional Income	\$208,500.00	\$338,500.00	\$208,500.00	\$338,500.00
Sarasota County	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00
Charlotte County	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Lee County	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Polk County	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Cape Coral	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00
Fort Myers	\$2,500.00	\$2,500.00	\$0.00	\$2,500.00
Manatee County	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
Punta Gorda	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
Sanibel	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00
Bonita Springs	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00
Fort Myers Beach	\$0.00	\$5,000.00	\$0.00	\$2,500.00
Venice	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00
North Port	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
Winter Haven	\$1,000.00	\$1,000.00	\$1,000.00	\$1,500.00
Village of Estero (for 2 years)			\$5,000.00	\$5,000.00
Hardee County	\$0.00	\$500.00	\$0.00	\$500.00
Arcadia	\$0.00	\$500.00	\$500.00	\$500.00
Bartow	\$0.00	\$500.00	\$0.00	\$500.00
DeSoto County	\$0.00	\$500.00	\$0.00	\$500.00
Subtotal Local Income	\$99,500.00	\$106,500.00	\$102,500.00	\$109,500.00
Mosaic Company Foundation	\$40,000.00	\$40,000.00	\$50,000.00	\$50,000.00
FDEP CPI Vol Oyster Habitat	\$15,000.00	\$15,000.00		
FDEP CPI Seagrass Gardening				\$14,270.00
Encumbered Funds: FY15 - FY16 projects			\$195,840.00	
Encumbered Funds: FY15 to FY17 projects				\$244,500.00
Unobligated Carry-over				\$95,893.00
Subtotal Grants and Deferred	\$55,000.00	\$55,000.00	\$245,840.00	\$404,663.00
Match In-Kind: SFWMD Initiatives	\$600,000.00	\$658,877.00	\$658,877.00	\$632,000.00
Subtotal In-Kind	\$600,000.00	\$658,877.00	\$658,877.00	\$632,000.00
Grand Totals in the Fiscal Year	\$963,000.00	\$1,158,877.00	\$961,000.00	\$1,127,000.00
Program Cash				\$1,374,540.00
Projected FY18 Unobligated Funds				\$ 46,822
Projected Fund Balance				\$ 142,715

Table 6: Completed FY2017 Travel

Date	Purpose	# Travelers	Location	Length of Stay	Travel Mode	Reg. Fee	Estimated Cost
12/10-15/2016	ANEP Directors Meeting/RAE/TCS	2	New Orleans	6	Air	\$900	\$3,200
Nov. 2016	AWRA	1	Orlando, FL	4	Auto	\$900	\$1,400
FY2017	Learning Solutions Workshop	1	Orlando, FL	2	Auto	\$816	\$2,700
Feb. 2017	AWRA	1	Fort Myers, FL	1	Auto	\$75	\$75
Feb-17	NEP/EPA Spring Mtg.	2	Washington, DC	4	Air	\$300	\$1,750
Spring 2017	GOMA	1	MS	4 days	Air	\$100	\$900
Spring 2017	Meet with Region 4 Staff	1	Atlanta, GA	3 days	Air	\$0	\$675
FY 17	Local Travel	4	Various	<1 day	Auto	\$100	\$4,300
			Subtotal			\$3,191	
			Total				\$15,000

Table 7: Projected FY2018 Travel

Date	Purpose	# Staff	Location	Length of Stay	Travel Mode	Reg. Fee	Estimated Travel Cost
Nov. 2017	EPA Tech Transfer	2	Boston, MA	3	Air	\$160	\$2,154
Nov. 2017	CERF	1	Providence RI	5	Air	\$585	\$1,231
Jan. 11 - 14, 2018	Everglades Coalition Conf.	1	Florida	3	Auto	\$355	\$1,031
Feb. 2018	AWRA	1	Fort Myers, FL	1	Auto	\$75	\$25
March-18	NEP/EPA Spring Mtg.	2	Washington, DC	4	Air	\$300	\$3,000
Spring 2018	CHIMMP	1	Florida	3	Auto		\$759
4/1/2018	PFLCC/estuarine	1	Florida	5	Auto	\$0	\$923
June, 2018	GOMA All Hands Meeting	3	St. Petersburg, FL	4 days	Auto	\$100	\$2,385
Spring 2018	Meet with Region 4 Staff	3	Atlanta, GA	3 days	Air	\$0	\$2,586
FY 18	Local Travel/Meetings	4	Various	<1 day	Auto	\$1,000	\$8,332
			Subtotal			\$2,575	\$22,425
			Total				\$25,000

Table 8: Outreach and Education Projects

FY	Code	Title	Amount
2017	CH2AST	CHNEP Outreach assistance	\$4,150
2017	CH2MIC	CHNEP Micro-grants	\$12,000
2017	CH2POG	CHNEP Public Outreach Grants	\$30,000
2017	CH2ADV	CHNEP Adventures in the Charlotte Harbor Watershed	\$3,500
2017	CH2CAL	CHNEP Calendar	\$24,000
2017	CH2COL	CHNEP collateral, etc.	\$5,000
2017	CH2HH	CHNEP <i>Harbor Happenings</i>	\$8,500
2017	CH2TRA	CHNEP professional development/training workshops we hold	\$1,000
2017	CH2TAR	CHNEP Target audience programs	\$4,000
2017	CH2TNF	CHNEP Charlotte Harbor Nature Festival	\$2,500
2017	CH2WS	CHNEP Watershed Summit	\$6,000
2017	CH4HRC	Habitat Resiliency	\$4,500
2017	CH2WSR	CHNEP Watershed Status Report	\$57,700
Total FY2017			\$162,850
2018	CH2AST	CHNEP Outreach assistance	\$7,200
2018	CH2MIC	CHNEP Micro-grants	\$10,000
2018	CH2POG	CHNEP Public Outreach Grants	\$20,000
2018	CH2ADV	CHNEP Adventures in the Charlotte Harbor Watershed	\$3,500
2018	CH2TAR	CHNEP Target Audience (Manatee)	\$5,000
2018	CH2CAL	CHNEP Calendar	\$24,000
2018	CH2COL	CHNEP collateral, etc. + posters	\$9,000
2018	CH2HH	CHNEP Harbor Happenings	\$15,000
2018	CH2TAR	CHNEP Target audience programs	\$12,500
2018	CH2NF	CHNEP Charlotte Harbor Nature Festival	\$7,500
2018	CH2SPO	CHNEP Sponsorships	\$4,500
2018	CH2CMP	CCMP Revision Project	\$52,000
2018	CH2EVE	CHNEP Events - CL workshop, Hardee/DeSoto workshop	\$2,500
Total FY2018			\$172,700

Table 9: Technical Projects

FY	Code	Project Title	Amount
2015	CH4MO	CHNEP Mosaic Morgan Park	\$40,000.00
2015	CH4MO	CHNEP SWFWMD Morgan Park	\$40,000.00
		Total FY2015	\$80,000.00
2016	CH4MO	CHNEP Mosaic Morgan Park	\$40,000.00
2016	CH4SWD	CHNEP SWFWMD - Habitat Restoration Needs	\$40,000.00
2016	CH3GI	CHNEP LE/AD WET PLAN	\$14,500.00
		Total FY2016=	\$94,500.00
2017	CH4HRN	CHNEP Mosaic - Habitat Restoration Needs	\$40,000.00
2017	CH4HRN	CHNEP SWFWMD - Habitat Restoration Needs	\$40,000.00
2017	CH4HRN	CHNEP EPA (FY16/17)	\$30,000.00
2017	CH4HRC	CHNEP Habitat Resiliency Project (contract let in FY18)	\$33,850.00
		Total FY2017 =	\$143,850.00
2018	CH3CMN	CHNEP CCHMN-Upper Charlotte Harbor	\$65,000.00
2018	CH3LCH	CHNEP CCHMN-Lower Charlotte Harbor	\$11,000.00
2018	CH3LCH	CHNEP CCHMN assistance (indep. contractor)	\$3,240.00
2018	CH3WA	CHNEP Water Atlas Maintenance	\$54,000.00
2018	CH3SGG	CHNEP Citizen Seagrass Gardening	\$14,270.00
2018	CH4XX	CHNEP EPA funded project	\$43,409.00
2018	CH4XX	CHNEP SWFWMD Restoration project	\$25,000.00
2018	CH4XX	CHNEP Mosaic Restoration project	\$40,000.00
		Total FY2018 =	\$255,919.00

Table 10: FY2018 SWFWMD Funding by Task

Task	Project	SWFWMD	Project Total
1 (Workplan Task 3.1)	Coastal Charlotte Harbor Monitoring Network	\$65,000	\$65,000
2 (Workplan Task 4.4)	Restoration Project	\$25,000	\$50,000
3 (Workplan Tasks 1, 3 and 4)	Staff Support	\$40,000	\$40,000
	Totals:	\$130,000.00	\$155,000.00

Table 11: FY2017 Administrative Costs

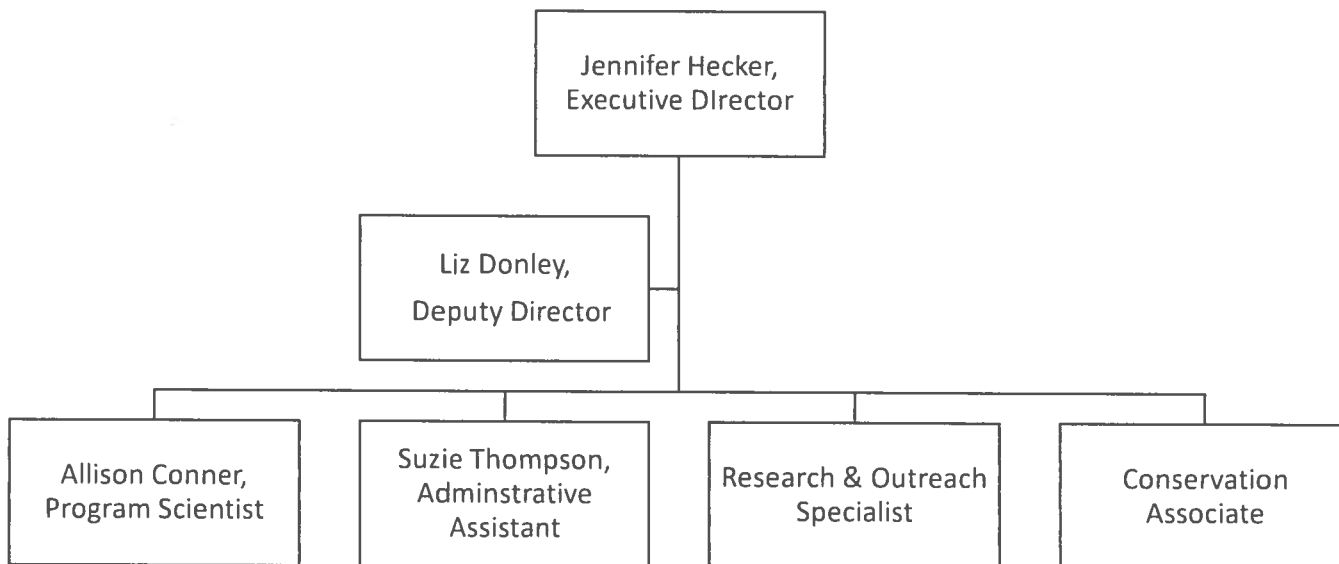
2017	CHICOM	CHNEP Communications	\$600.00
2017	CHIMAT	CHNEP Department Materials and Supplies	\$4,200.00
2017	CHIOAD	CHNEP Overhead Administrative Charges	\$83,945.00
2017	CHIOCP	CHNEP Overhead Computer	\$14,500.00
2017	CHIORN	CHNEP Overhead Office Rent	\$3,425.00
2017	CHIPRO	CHNEP Promotional Activities-Meeting Support	\$5,000.00
2017	CH5ANP	CHNEP ANEP Dues	\$4,500.00
2017	CHIREG	CHNEP meeting registrations	\$500.00
2017	CHIMAT	Office renovation	\$6,000.00
2017	CHIMAT	Unexpected expenses	\$5,000.00
		Subtotal=	\$127,670.00

Table 12: FY2018 Administrative Costs

2018	CHEPA1	CHNEP Pre-employment expenses	\$310.00
2018	CHICOM	CHNEP Communications	\$1,200.00
2018	CHIMAT	CHNEP Department Materials and Supplies	\$4,200.00
2018	CHIOAD	CHNEP Overhead Administrative Charges	\$86,463.00
2018	CHIOCP	CHNEP Overhead Computer	\$14,500.00
2018	CHIORN	CHNEP Overhead Office Rent	\$3,425.00
2018	CHIPRO	CHNEP Promotional Activities-Meeting Support	\$4,200.00
2018	CHIMAT	CHNEP Unexpected expenses	\$3,500.00
2018	CH5ANP	CHNEP ANEP Dues	\$4,500.00
		Subtotal =	\$122,298.00

Staff and their Official Responsibilities

The CHNEP staff includes five professional positions.



Executive Director: Overall Program Management, Policy Committee, institutional organization, legislation, special projects, public engagement, events and publications.

Deputy Director: Finance and Operations, grants and contracts administration, Management Committee, Public Outreach Grants and Micro-grants, leverage tracking, project management.

Program Scientist: Research and restoration projects, technical support, Technical Advisory Committee, Citizens Advisory Committee, and subcommittees.

Administrative Assistant: Office support, time tracking, procurement assistance, public engagement, events and publications, meeting support, correspondence, social media.

Research and Outreach Specialist: - Assist in implementing the communications program that involves citizen science activities, public engagement, planning events, internal information, social media and community relations

Conservation Associate: Special projects, public engagement and events.

Table 13: Staff Time Allocations by Task for FY17 (amended 9/2017)

Proj Code	Title	Jennifer	Liz	Maran	Judy	Jaime	Allison	Intern	Hours
CHEPA1	Management Conference - EPA	764	1018	300	407	0	154	0	2489
CHEPA1	Leave - EPA	330	352	3	0	0	51.332	0	685
CHEPA2	Outreach - EPA	80	0	439	0	0	0		519
CHDEP2	Outreach-DEP	189	125	104	0	115	0	91	624
CHDEP3	Research-DEP	53	84	0	39	232	40	110	558
CHEPA3	Research-EPA	130	0	0	160	0	210		500
CHEPA4	Restoration - EPA	0	80	0	100	0	250		430
CHDEP4	Restoration-DEP	118	228	0	96	0	40	128	610
CHSWF4	Restoration-SWF	80	87	0	0	0			167
CHLOC4	Local Restoration	42	0	0	0	0			42
CHLOC5	Advocacy & Legislative Action	120	10	0	0	0			130
CHV016	VOHM - Task 4					200			200
CHEPA1	CHEPA Task 1			0		756			756
CHEPA1	CHEPA Task 1		96	0	40	280			416
	Total	1906	2080	846	842	1583	745.332		8126

Table 14: Staff Time Allocations by Task for FY18 (amended)

ProjCode	Title	Jennifer	Liz	Allison	Suzie	Res & Outreach	Intern	Hours
CHEPA1	Management Conference - EPA	968	951	201	812	0	152	3084
CHEPA1	Leave - EPA	352	352	352	352	0	0	1408
CHSWF1	Programs Administration	0	235	0	122	0	0	357
CHLOC2	Research & Outreach	0	0	0	0	1015	0	1015
CHEPA2	Outreach - EPA	120	0	0	322	0	0	442
CHDEP2	Outreach-DEP	120	110	24	432	0	0	686
CHDEP3	Research-DEP	0	20	80	0	0	0	100
CHEPA3	Research-EPA	30	0	76	0	0	0	106
CHEPA4	Restoration - EPA	80	80	250	0	0	0	410
CHDEP4	Restoration-DEP	170	212	537	40	0	240	1199
CHSWF3	Research SWF	0	0	80	0	0	0	80
CHSWF4	Restoration-SWF	0	120	480	0	0	1176	1776
CHLOC5	Advocacy & Legislative Action	240	0	0	0	0	0	240
	Total	2080	2080	2080	2080	1015	1568	10903

Hours in cells in orange must be used within FY 2018. Hours in cells in yellow may be carried into the next fiscal year. Hours in blue indicate new position. Hours in white cells have flexibility.

Projects by Task

CHNEP projects are organized according to task. There are five tasks, as follows:

Task 1: Management Conference

- 1.1 CCMP Revision
- 1.2 Habitat Resiliency to Climate Change
- 1.3 Micro Grants
- 1.4 Public Outreach Grants
- 1.5 Sponsorships
- 1.6 Program Office Collateral

Task 2: Outreach

- 2.1 Calendar and Harbor Happenings
- 2.2 Children's Book
- 2.3 Watershed Status Report
- 2.4 Target Audience Support
- 2.5 Events

Task 3: Research

- 3.1 Water Quality and Seagrass Monitoring and Mapping
- 3.2 WaterAtlas Maintenance

Task 4: Watershed Coordination

- 4.1 Habitat Restoration Needs Update
- 4.2 Oyster Restoration
- 4.3 SAV Restoration / Citizen Seagrass Gardening
- 4.4 Restoration Partner Grant
- 4.5 WETPLAN

Task 5: Legislative Action

Task 1: Management Conference, Program Planning, Administration, Finance, Operations

Workplan Objective: Provide committee structure that supports the implementation of the CCMP; support administration of the CHNEP; ensure compliance with grant and agreement requirements as awardee and awarder; and seek additional funding support for identified projects.

Description: The CHNEP Program Office provides staff support to the Management Conference, furnishes operations and finance support, ensures compliance with Host Agency procedures, secures funding from partners, and assists partners seeking grants and contracts to implement the CCMP.

CCMP Elements Implemented: All

Outputs/Deliverables, Milestones

- Management Conference committee meetings, quarterly
- Management Conference adoption of Annual Workplan, no later than June 1, 2018
- Evidence of extending CHNEP partnership, by September 30, 2018
- GPRA Reporting through EPA’s NEPORT app, by September 14, 2018
- CCMP Implementation, ongoing
- Administration of Program Office operations and finances, ongoing
- Collaborate with partners on CCMP implementation, ongoing
- Comply with Host Agency finance and procurement requirements, ongoing
- Draft Revised Comprehensive Conservation and Management Plan

320 Budget: \$209,080

FY 17-18 Budget:
staff

320 Funds:	\$209,080
SWFWMD:	\$3,534
Grant carryover:	\$12,217

Staff:	\$224,831
Travel:	\$25,000
Other:	\$115,298

Estimated Total Budget: \$365,129

Outcomes

- Fully informed and engaged CHNEP Management Conference with members participating in Committee, subcommittee and work group meetings.
- CCMP Implemented
- Funding obtained to sustain the CHNEP Program Office and accomplish annual workplan
- CHNEP remains eligible for Federal, State and non-profit grants and funding
- Compliance with Florida Government in the Sunshine laws
- Increased understanding of CHNEP program office and NEP mission by partners
- Commitment from partners to fund CHNEP

CWA Core Program addressed: (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 1.1 Ongoing Project: CCMP Revision

Project Objective: To review the CCMP to determine whether a revision or update is needed to keep the CCMP relevant.

Project Description: The CHNEP is encouraged by U.S. EPA to revise its CCMP at least once every ten years. The CHNEP has adopted a five year cycle for assessing the CCMP and amending the document. In addition, the CHNEP has developed two amendment processes: one for minor amendments and one for major updates.

The minor amendment process was adopted on February 21, 2003 in order to formalize the process of minor amendments. The major update process was approved on March 13, 2004. The most recent major amendment process was completed in 2008, a minor revision was completed in 2013.

CCMP Elements Implemented: All

Outputs/Deliverables

Based on 2015-2016 Guidance from EPA Headquarters:

- Gaps Analysis
- Completed EPA Content Checklist
- Monitoring Approach
- Finance Strategy
- Habitat Protection/Restoration Strategy
- Communication/Outreach Strategy
- Vulnerability Assessment
- Approved Revised CCMP

Estimated Milestones:

CCMP Vulnerability Assessment completed by Spring 2018

CCMP amendments reviewed and approved by Management Conference by December 2018

320 Budget: \$20,000 + staff time.
\$32,000 – supplemental funding

FY 17-18 Budget:

- **320 Funds:** – staff time + \$52,000
- **SWFWMD** – staff time
- **FDEP** – staff time
- **Local Partners** – staff time

Estimated Total Budget: \$52,000 + Staff time

Outcomes

- CCMP consistent with EPA Guidelines
- CCMP incorporating the CCMP Vulnerability Analysis outcomes.
- Identification of Management Conference contributions towards CCMP implementation.
- CCMP relevant to partner needs: budgets, Comprehensive Plans and capital improvement plans.
- Increased collaboration among Management Conference partners.

CWA Core Program addressed: (2) identifying polluted waters and developing restoration, (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 1.2 Ongoing Project: Habitat Resiliency to Climate Change

Project Objective: conduct a GIS-based analysis of climate change impacts to habitat quality and connectivity and provide resiliency solutions.

Project Description: CHNEP staff will use mapping tools (30 m x 30 m grid) to establish habitat resiliency and migration pathways in the CHNEP Study Area in response to climate change. Specifically, we will look at habitat quality to: 1) establish habitat connectivity and barriers to migration, and 2) identify habitat types and locations for restoration and/or acquisition to increase climate change adaptation and resiliency. This is an area of special interest – climate resiliency.

CCMP Elements Implemented: SG-2, SG-D, SG-Q, SG-K

Outputs/Deliverables/Estimated Milestones

- GIS library
- Bibliography of research
- Draft Model
- TAC Comments
- Revised Model
- Draft Final Report
- Presentation of Draft Final Report and Model
- Report and Model results in user friendly print and online format
- eLearning Module
- Final Poster published in Harbor Happenings and available digitally
- Written and electronic reports to EPA

320 Budget: \$38,350 - supplemental funding

FY 17-18 Budget:

320 Funds: \$38,350 (cash)

Habitat Restoration Update project - \$40,000 in-kind match

Estimated Total Budget: \$78,350

Outcomes

- Integration of results into the Habitat Restoration Needs Update (Task 4.1) CHNP
- No later than FY2019, the CHNEP's CCMP visions will be informed by this focused approach to identifying factors to increase habitat resiliency and connectivity to ensure habitat areas for potential retreat, as well as identify critical barriers and essential conservation parcels needed to enable effective habitat migration
- The Final Report will present decisions-makers with opportunities for integrating appropriate responses to climate change impacts to habitat into long range planning efforts.

CWA Core Program addressed: (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 1.3 Ongoing Project: Micro Grants

Project Objective: Implementation of CCMP through award of “seed” funding for small, sometimes pilot, projects

Project Description: The CHNEP offers micro-grants, usually up to \$250, to assist others in their efforts to help implement the CCMP. Citizens, organizations, businesses, government agencies, schools, colleges and universities may apply for grants to support projects that occur within the CHNEP study area. Applicants are reimbursed funds once a final report and an invoice for work accomplished are accepted.

CCMP Elements Implemented: All

Outputs/Deliverables

- Outputs vary with project, but all projects submit a final project report as a deliverable.

Estimated Milestones:

- All funds awarded, obligated and payments processed by September 30, 2018.

320 Budget: \$0

FY 17-18 Budget:

Local funds: \$10,000

Estimated Total Budget: \$10,000

Outcomes:

- Further partnerships to protect and restore the greater Charlotte Harbor estuarine system and watershed.
- Engage citizens in opportunities to be involved in research, monitoring, and restoration activities.
- Expand CHNEP outreach and education through citizen actions.
- Protect the environment.
- Solve local, small scale issues of concern identified in the CCMP

CWA Core Program addressed: (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 1.4 Ongoing Project: Public Outreach Grants

Project Objective: Implementation of CCMP through award of funding for small projects.

Project Description: The CHNEP offers Public Outreach Grants (POGs) once a year. The maximum grant award is capped at \$5,000 but most applications are funded in the \$2,500 to \$3,000 range. Any citizen, organization, business, government agency, school, college or university may apply for a Public Outreach Grant but the project must occur within the greater Charlotte Harbor watershed. In this document, the word Applicant is used to refer to the individual, organization, business, government agency, school, college or university that is submitting the Public Outreach Grant application. An Applicant may submit more than one application but each must be independent and complete on its own.

CCMP Elements Implemented: All

Outputs/Deliverables

- Outputs vary with project, but all projects submit a final project report as a deliverable.

Estimated Milestones:

- All proposals reviewed and recommendations for funding completed by November 30, 2017.
- All project awards determined by December 30, 2017.
- All funds obligated by January 31, 2018.
- All payments processed by December 30, 2018.
- FY2019 request for proposal approved by Policy Committee by May 31, 2018.

320 Budget: \$0

FY 17-18 Budget:

Local funds: \$20,000

Estimated Total Budget: \$20,000

Outcomes:

- Further partnerships to protect and restore the greater Charlotte Harbor estuarine system and watershed.
- Engage citizens in opportunities to be involved in research, monitoring, and restoration activities.
- Expand CHNEP outreach and education through citizen actions.
- Protect the environment.
- Solve local, small scale issues of concern identified in the CCMP

CWA Core Program addressed: (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 1.5 Ongoing Project: Sponsorships

Project Objective: Implementation of CCMP through support of conferences, workshops and events.

Project Description: The CHNEP receives requests to sponsor conference, workshops, symposia, etc., that implement the CCMP. In prior workplans these sponsorships were supported through micro-grant funds.

CCMP Elements Implemented: All

Outputs/Deliverables

- CHNEP acknowledged as event sponsor, with logo on event materials.

Estimated Milestones:

- All funds awarded, obligated and payments processed by September 30, 2018.

320 Budget: \$4,500

FY 17-18 Budget:

320 Funds: \$4,500

Estimated Total Budget: \$4,500

Outcomes:

- Further partnerships to protect and restore the greater Charlotte Harbor estuarine system and watershed.
- Engage scientists, researchers, stakeholders and decisions makers in events that educate and inform about research, monitoring, and restoration activities relevant to the CHNEP.
- Inform general public, potential partners, targeted audience about CHNEP's mission.

CWA Core Program addressed: (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 1.6 Ongoing Project: Program Office Collateral

Project Objective: To provide outward looking Program Office information, materials to partners, decision makers and interested public.

Project Description: The CHNEP Program office utilizes letterhead, labels, and other support materials on a day to day basis. In addition, the CHNEP participates in conferences, festivals, and events as an exhibitor. This tasks supports the development, printing and purchase of the needed materials and supplies.

CCMP Elements Implemented: All

Outputs/Deliverables

- Uniform branding of CHNEP products and materials, ongoing

Estimated Milestones:

- CHNEP branded materials available to staff and partners as needed.
- Explore providing posters to teachers, non-traditional learning organization and partners

320 Budget : \$9,000

FY 17-18 Budget:

320 Funds: \$9,000

Estimated Total Budget: \$9,000

Outcomes:

- Expand CHNEP partnerships.
- Engage decision-makers and citizens in CHNEP activities.
- Protect the environment.

CWA Core Program addressed: Not Applicable

Task 2: Communications/Outreach

Workplan Objective: Provide essential ongoing communications so that the CHNEP can address specific requirements and issues associated with the CCMP. To support CHNEP Management Conference and partners' public outreach initiatives to further the CCMP.

Description: Tools used to provide continuous support of the overall program include website, social media and media. They range from events (workshops, festivals and trainings), to publications (magazines, calendars and books), to videos and target audience initiatives.

The website, www.CHNEP.org, provides information to the general public, technical community and Management Conference including technical and public engagement information produced or sponsored/supported by the Program.

Social media tools currently used include:

- YouTube. More than 400 videos and talks (PDF files with linked with audio) are posted.
- EventBrite. CHNEP events requiring registration are promoted on this site.
- Tumblr blog. Weekly online posts since 2013 spread awareness on the importance of the estuary system and its inhabitants.
- FaceBook. Weekly posts promote CHNEP projects.
- Constant Contact. Notices of Management Conference meetings and events and requests for document review and comment are sent to subscribers.

Working with the broadcast, print and Internet media is a method of increasing the public's awareness and understanding of CHNEP and issues of concern.

This task also covers assistance required to accomplish diverse outreach tasks.

CCMP Elements Implemented: All but those that specially call for an outreach component include SG-A to SG-S, WQ-K, WQ-L, WQ-M, HA-P, FW-H, FW-I, FW-J, FW-K, FW-N, FW-O and FW-P.

Partners and their roles

The CHNEP conducts all projects in cooperation with and in support of its partners:

Outputs

- Continuously update website for Management Conference meetings and activities, promote projects and serve as a repository of all materials produced by the CHNEP.
- Weekly posts on social media, including Facebook and Tumblr.
- Use EventBrite to promote and handle registrations for events.
- Post videos and talks (PDF with audio) on YouTube as completed.
- Prepare and distribute email messages via Constant Contact to announce Management Conference meetings and promote CHNEP projects.
- Work with local media to promote one story a month.

Estimated Milestones

- 2019 Calendar will be mailed by November 17, 2018
- CHNEP will assist with a regional Nature Festival
- CHNEP will update the website weekly
- CHNEP will coordinate with local media regularly

320 Budget: \$16,604

FY 17-18 Budget:

staff

320 Funds: \$16,604

FDEP Funds: \$26,222

FCHE Funds: \$16,418

Estimated Total Budget: \$59,244

Outcomes

- Educated and engaged people about the CHNEP and the natural environment of southwest Florida. Many of the items help people become engaged by enjoying the environment through outdoor experiences, by asking them to be citizen scientists and by engaging in events, such as the Watershed Summits and the Charlotte Harbor Nature Festival, and CHNEP and our partners' programs that help implement the CCMP. Many people have volunteered that they have changed their behavior as a result in learning more about an issue.
- Continuously introduce the CHNEP to new populations and new residents through events, publications and social media.
- Establish new partnerships and strengthen existing partnerships through funding opportunities for projects that implement the CCMP.
- Residents and seasonal visitors within CHNEP study area develop a sense of stewardship for the natural environment within the CHNEP study area.
- Increase the number of partners who conduct projects that help fulfill the CCMP.

CWA Core Program addressed: (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 2.1 Ongoing Project: 2019 Calendar and four issues of *Harbor Happenings*

Project Objective: Educate, motivate and engage the public and partners through contributing articles and by donating up to three images that show the beauty and diversity of the native, natural environment.

Project Description: The CHNEP designs, publishes and distributes an annual calendar that showcases images donated by citizens that depict the beauty and diversity of the native, natural environment. The calendar encourages people to learn about and become involved in the CHNEP. With permission, the images are used in other ways by CHNEP, including weekly Tumblr posts, in *Harbor Happenings* and on the www.CHNEP.org website.

The CHNEP publishes the quarterly magazine *Harbor Happenings* to report on environmental “happenings,” including watershed issues, events and updates on Program activities and progress towards implementing the CCMP. One issue is now incorporated into the calendar.

CCMP Elements Implemented: SG-D, SG-B, SG-C, SG-I, SG-J, HA-P, FW-P, WQ-K, WQ-L, WQ-M, HA-P, FW-J, FW-N, FW-P

Partners and their roles: Articles and images are donated by interested citizens and Management Conference partners. The images are reviewed and selected for publication by the CAC. The calendars are distributed in multiple ways, including U.S. Mail to individual citizens and in bulk to 200+ partners that volunteer to redistribute in their area and at events.

Outputs/Deliverables: Four issues of *Harbor Happenings* (one of which is included in the calendar) and annual calendar featuring donated images that depict the beauty and diversity of the native, natural environment and highlighting the CHNEP and its programs.

Estimated Milestones:

- Articles for *Harbor Happenings* are due Feb. 1, May 1, Aug. 1 and Nov. 1 for the next issue.
- *Harbor Happenings* printed and distributed 4 times a year: January, April, July, and November.
- Receive calendar entries by July 15. Images reviewed by CAC in August.
- The calendar is written, designed and reviewed by October.
- Requests for calendars are due by Sept. 15.
- The calendar published and distributed by November.

320 Budget: \$34,000

FY 17-18 Budget:

320 Funds:	\$34,000
Grant Funds:	\$5,000

Estimated Total Budget: \$39,000

Outcomes: The interested public and CHNEP partners all become more knowledgeable and engaged in the stewardship of the natural environment in which they live. CHNEP projects are featured.

CWA Core Program addressed: (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 2.2 Ongoing Project: Children's Book

Project Objective: Help students better understand the natural environment of southwest Florida so they can become better stewards of it.

Project Description: The CHNEP published a 64-page book *Adventures in the Charlotte Harbor Watershed: A Story of Four Animals and Their Neighborhoods*. In this 64-page book readers learn about the environment of southwest Florida through the adventures of a yellow-crowned night-heron on the Caloosahatchee River, an alligator on the Peace River, an otter on the Myakka River and a mullet in the estuaries. Each year since 2008, the book has been given to the school districts in the counties that participate in the CHNEP. The school districts then gave the book to every child at one grade level. Those who contributed to the creation of the book (author, illustrator, contributing writers) are given an opportunity to suggest changes before each of the 10 editions have been printed. Many support materials have voluntarily been created to help teachers incorporate the book into classroom curriculum.

CCMP Elements Implemented: SG-H, SG-D, SG-C

Partners and their roles: The creation of the book included Carol Mahler, author; Rachel Renne, illustrator; and 12 people who wrote sidebars and reviewed drafts, All seven school districts in the counties that participate in the CHNEP distribute the books to their students at one grade level (third to fifth, their choice). Books have also been given to private schools and home school associations. Additional distribution in the watershed to others who do not participate in the CHNEP occurs when funding has allowed. Educators have created resources curriculum. Lee County School District created read-a-long videos.

Outputs/Deliverables: Create an interactive, online edition of the book *Adventures in the Charlotte Harbor Watershed*.

Estimated Milestones:

- Request suggested editorial changes by Nov. 1.
- Determine distribution and quantity needed by Nov. 1.
- Incorporate revisions by Nov. 30.
- Print and distribute the books by Jan. 31.
- Identify options for an interactive, online version by Sept. 30.

320 Budget: \$3,500

FY 17-18 Budget:

320 Funds: \$3,500

Estimated Total Budget: \$3,500

Outcomes: School districts, teachers and staff and students all become more knowledgeable and engaged in the stewardship of the natural environment in which they live.

CWA Core Program addressed: (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 2.3 New Project: Watershed Status Report

Project Objective: The updated watershed report will clearly communicate the condition of watersheds in the context of answering questions posed by the public.

Project Description: The Report presents the region's progress in implementing the CHNEP's Comprehensive Conservation and Management Plan as measured by specific environmental indicators such as: fish quantity, fish diversity, water quality, pollutant loads, and extent of conservation lands. The updated watershed report will clearly communicate the condition of watersheds in the context of answering questions posed by the public. The 2011 Watershed Report answered 9 questions based on CHNEP environmental indicators and identified two emerging concerns (<http://www.sarasota.wateratlas.usf.edu/upload/documents/2011WatershedReport.pdf>). Data analysis and area of assessment will align with the estuary boundaries presented in the Conservancy of Florida 2017 Estuaries Report Card (<https://drive.google.com/file/d/0B3xCeE7JO5C2NGN6UFNaWHliTVk/view>).

CCMP Elements Implemented: SG-4, SG-D, SG-K, and SG-R

Partners and their roles: The project will utilize data from all partners, including water quality data uploaded to the Water Atlas. Partners will also be involved with reviewing and commenting on Environmental Indicator-based questions provided to the CHNEP by the chosen contractor.

Outputs/Deliverables:

- PowerPoint presentations to Management Conference,
- Draft Final Report
- Final Report

Estimated Milestones:

- Kick-off meeting
- List of sources reviewed and identified data gaps
- Draft indicator questions
- Presentation to CHNEP Management Conference Committee
- Draft Final Report for review and comment
- Final Report for publication and distribution

320 Budget: \$57,700 (appropriated in FY2017)

FY 17-18 Budget:

320 Funds: \$57,700

Estimated Total Budget: \$57,700

Outcomes: Key information about the condition of the CHNEP watersheds presented in a format that is meaningful to the majority of people.

CWA Core Program addressed: (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 2.4 Ongoing Project: Target Audience

Project Objective: Support projects, initiatives, and workshops that educate and engage people about the issues that affect the natural environment of southwest Florida so they become better stewards.

Project Description:

Target audience projects “fill in the gaps” and reach specific audiences. Examples of “fill the gap” projects are the annual Florida Friendly landscaping workshop for residents of Hardee, DeSoto and Highlands counties, and the Watershed Education Training Ponds Lakes and Neighborhoods initiative (www.wetplan.org). These projects provide information to residents about the use of plants and landscaping to decrease water usage and increase uptake of nutrients. A target audience project is the science fair recognition program for six students whose projects implement the CCMP.

CCMP Elements Implemented: All, and specially: SG-A to SG-S, WQ-K, WQ-L, WQ-M, HA-P, FW-H, FW-I, FW-J, FW-K, FW-N, FW-O and FW-P.

Partners and their roles: Management Conference members and staff from participating organizations are the local experts. Local nonprofit and government partners encourage their patrons to participate.

Outputs/Deliverables

- Conservation landscaping workshop for residents of Hardee, DeSoto and Highlands counties.
- WET PLAN workshop
- Recognize 6 students whose science fair projects at the 5 science fairs fulfill the CCMP.

Estimated Milestones:

- By Mar. 1, 2018, conservation landscaping workshop for Hardee, DeSoto and Highlands counties.
- By April 1, 2018, hold at least one WET PLAN workshop.
- By May 1, 2018 select up to 6 students to recognize for science fair projects.
- By Sept. 30, 2018 support projects that are identified after the workplan is approved which help fulfill the CCMP.

320 Budget: \$12,500

FY 17-18 Budget:

320 Funds	\$12,500
Manatee Co.	\$5,000

Estimated Total Budget: \$17,500

CWA Core Program addressed: (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 2.5 Ongoing Project: Events

Workplan Objective: Offer trainings, workshops and a nature festival to highlight CHNEP and the work of partners who are helping to fulfill the CCMP.

Description: Offer events to further the CHNEP partners' efforts to fulfill the CCMP. CHNEP develops workshops for conservation lands and environmental education to provide unique opportunities for networking, collaboration and learning about solutions to issues in southwest Florida.

The Charlotte Harbor Nature Festival showcases local environmental agencies, nonprofit organizations and businesses that focus on the natural environment of southwest Florida. Approximately 60 exhibitors participate to speak to an average of 3,000 visitors.

CCMP Elements Implemented: All, specifically: SG-A to SG-S, WQ-K, WQ-L, WQ-M, HA-P, FW-H, FW-I, FW-J, FW-K, FW-N, FW-O and FW-P.

Partners and their roles: Trainings feature local experts who donate time to share their experience. Partners provide planning support and CHNEP Management Conference members, other partners and the public participate in all of these events.

Deliverables/Outputs: At least four events will be developed by the CHNEP for different purposes.

- Charlotte Harbor Nature Festival
- Conservation Lands Workshop
- Florida Friendly Landscaping Workshop
- WET PLAN Workshop

Estimated Milestones:

- Plan, promote and hold the Charlotte Harbor Nature Festival on November 18, 2017.
- Promote and conduct Conservation Lands Workshop by March 31, 2018.
- Promote Environmental Education Workshop by June 30.
- Initiate planning for 2019 Festival.

CCMP Elements Implemented: SG-F, SG-I, WQ-L, WQ-M, FW-N, FW-P

320 Budget: \$7,500

FY 17-18 Budget

320 Funds:	\$7,500
Grant Funds:	\$2,500

Estimated Total Budget: \$10,000

Outcomes

- Increase understanding of how personal actions affect the environment.
- Citizens develop a sense of stewardship for the natural environment in the CHNEP study area.
- Increase numbers of partners conducting projects that help fulfill the CCMP.

CWA Core Program addressed: (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 3: Research Coordination

Workplan Objective: To ensure collection, reporting and access to consistent region-wide, technically sound water quality and biological data throughout the CHNEP Study Area. To identify and resolve gaps in scientific data and emerging research needs through partnerships and innovative research.

Description: CHNEP coordinates the Coastal Charlotte Harbor Monitoring Network (CCHMN) and supports the FDEP Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network (CHEVWQMN) and the Water Management Districts' seagrass aerial mapping projects. CHNEP works with partners to identify and resolve gaps in water quality and biological data, specifically through refinements to the Research Needs Inventory and environmental indicators. An identified data gap in understanding nutrient dynamics in tidal creeks will be addressed by a partnership research project of the three NEPs in southwest FL, with technical and field contributions from CHNEP staff. In addition, CHNEP assists partners with compiling, analyzing, mapping and conveying complex technical information in an understandable manner so it can be used to implement effective resource protection and restoration projects. The resulting data is used to assess resource status and trends, determine TMDLs and Minimum Flows and Levels, and be incorporated into resource management plans such as the Southwest Florida Feasibility Study and the SWFWMD Charlotte Harbor and SFWMD Lower Charlotte Harbor SWIM plans.

CCMP Elements Implemented: WQ-1, WQ-2, WQ-3, WQ-B, WQ-M, FW-1, FW-A, FW-C, FW-D, FW-P, SG-1, SG-2, SG-3, SG-4, SG-B, SG-D, SG-F, SG-J, SG-K, SG-R, and SG-S.

Partners and Roles:

- U.S. Environmental Protection Agency – Support CCHMN.
- Southwest Florida Water Management District – Support CCHMN and seagrass aerial mapping.
- South Florida Water Management District – Support seagrass aerial mapping.
- Florida Department of Environmental Protection – Support CCHMN, CHEVWQMN and seagrass monitoring.
- Friends of Charlotte Harbor Aquatic Preserves and Estero Bay Buddies – Support CHEVWQMN and seagrass monitoring.
- Charlotte County – Support CCHMN.
- Lee County – Support CCHMN.
- Florida Fish and Wildlife Conservation Commission – Support CCHMN.
- Cape Coral – Support CCHMN.
- Sarasota County – Support CCHMN.

Outputs/Deliverables, Milestones:

- **Water Atlas:** Review and assess uploaded water quality sampling data.
- **Water Quality Monitoring:** Monthly water quality data, quarterly RAMP participation, biannual quality assurance training, and annual field audits.
- **Seagrass Monitoring:** Annual seagrass data.
- **Seagrass Aerial Mapping:** Biennial and 5 year seagrass aerial mapping.
- **Data Management:** Biannual up-dates of water quality data.
- **Data Access:** On-going access to water quality data, graphing and analyses and response to data requests.
- **Data Analysis and Use:** Annual up-dates of water quality contour maps and Water Clarity Report Card, and periodic refinement of Research Needs Inventory and environmental indicators.

320 Budget: \$4,706

FY 17-18 Budget:

staff

320 Funds:	\$4,706
FDEP Funds:	\$3,891
SWFWMD Funds:	\$2,825

Estimated Total Budget: \$11,422

Outcomes

- Provide consistent region-wide, technically sound water quality and biological data needed to assess resource status, trends and complex interactions.
- Provide access to water quality and seagrass data to partners via CHNEP Water Atlas.
- Provide data analyses, maps and graphs to enhance and evaluate protection and restoration efforts
- Increase collaboration of monitoring, mapping and management among resource managers and agencies from throughout the CHNEP Study Area.
- The data is used by partners to assess resource conditions, manage resources and implement effective and efficient management programs and restoration projects.
-

CWA Core Program addressed: (1) establishing water quality standards, (2) identifying polluted waters and developing restoration plans, (3) permitting discharges of pollutants from point, (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 3.1 Ongoing Project: Water Quality / Seagrass Monitoring and Mapping Programs

Project Objective: To ensure collection, reporting and mapping of consistent, technically sound long-term water quality and seagrass data throughout the Charlotte Harbor estuaries and tidal creeks. The resulting data is shared with partners to be used for assessing resource status and trends and implementing effective management programs and restoration projects.

Project Description: CHNEP participates in four coastal water quality and seagrass monitoring and mapping programs. CHNEP coordinates the *Coastal Charlotte Harbor Monitoring Network (CCHMN)*, which is a partnership of agencies that provides monthly water quality data using a probabilistic sampling design. CCHMN field and laboratory partners collect and analyze water samples from 60 randomly selected field sites throughout 10 waterbodies each month, including: Lemon Bay, Cape Haze/Gasparilla Sound, Charlotte Harbor, Pine Island Sound, Matlacha Pass, San Carlos Bay, Estero Bay and the Tidal Myakka, Peace and Caloosahatchee Rivers. Water quality parameters include: depth, clarity, temperature, salinity, dissolved oxygen, pH, conductivity, photosynthetically active radiation (PAR), chlorophyll, color, nitrogen components, phosphorus components, turbidity, suspended solids, and organic Carbon. CHNEP coordination activities for the CCHMN include: developing and updating Standard Operating Procedures and field Quality Assurance plans, conducting annual field audits, hosting annual meetings, participating in quarterly Regional Ambient Monitoring Program quality assurance meetings, providing access to the data through the CHNEP Water Atlas, including data graphing, mapping and reporting, and assisting with field sampling and equipment repair as needed.

CHNEP support activities for the CHEVWQMN includes providing access to the data through the CHNEP Water Atlas.

CHNEP support activities for the Aquatic Preserves seagrass monitoring include providing access to the data through the CHNEP Water Atlas and assisting with monitoring as needed.

. CHNEP support activities for the seagrass aerial mapping include: observing and reporting weather and water clarity conditions for flights, reviewing draft results and providing maps of the seagrass results for each of the 13 CHNEP estuary sub-basins (strata).

CCMP Elements Implemented: *CCHMN and CHEVWQMN:* Implement Quantifiable Objectives and Priority Actions WQ-1, WQ-2, WQ-3, WQ-B, and WQ-M and support Environmental Indicators WQ-b, WQ-e, and WQ-g.

Seagrass monitoring and mapping: Implement Quantifiable Objectives and Priority Actions FW-1, FW-A, FW-C, FW-D, and FW-P, and support Environmental Indicators FW-a and FW-d.

Partners and Roles:

CCHMN:

Water Quality monitoring support:	\$65,000	SWFWMD
	\$14,240	EPA 320 funds
	In-kind	Charlotte County, Lee County, Cape Coral, FDEP
	In-house	CHNEP Staff (Primary)
RAMP WQ quality assurance:	In-kind	Charlotte County, Lee County, Cape Coral, FDEP, FWRI
	In-house	CHNEP Staff (Primary)

CHEVWQMN:

Water Quality monitoring support:	In-kind	FDEP CHAP, EBAP
	In-kind	Friends of CHAP and EBAP
	In-kind	Charlotte Harbor Environmental Center
	In-kind	FDEP CHAP, EBAP, South District

Seagrass Transects:

Seagrass Aerial Mapping:

In-kind
In-house

SWFWMD, SFWMD
CHNEP Staff

Outputs/Deliverables:

- **CCHMN:** Monthly water quality data, annual field audit results, annual meeting, and quarterly RAMP participation.
- **CHEVWQMN:** Monthly water quality data and biannual quality assurance results.
- **Seagrass Monitoring:** Annual seagrass transect data.
- **Seagrass Aerial Mapping:** Seagrass aerials and maps from SWFWMD every 2 years and from SFWMD every 5 years.

Estimated Milestones:

- **CCHMN and CHEVWQMN:** Water quality samples collected monthly, analyzed within holding periods, reported quarterly and uploaded to state water quality data base within 6 months.
- **Seagrass Monitoring:** Seagrass data collected annually and reported within 18 months.
- **Seagrass Aerial Mapping:** Seagrass aerial mapping conducted every 2 years by SWFWMD and every 5 years by SFWMD and reported and maps provided within 18 months.

320 Budget: \$14,240 + staff time.

FY 17-18 Budget:

320 Funds:	\$14,240
SWFWMD Funds:	\$65,000

Estimated Total Budget: \$79,240 + staff time
~\$198,000 (in 2015 dollars) in kind from partners for CCHMN

Outcomes:

- Coordinate monthly water quality sampling and assist with seagrass monitoring each year and seagrass aerial mapping every 2-5 years.
- Provide consistent region-wide, technically sound water quality and seagrass data needed to assess resource status, trends and complex interactions.
- Provide consistent region-wide, technically sound water quality and seagrass data for resource management, regulatory programs, including TMDLs and water quality standards, and education of the public and elected officials throughout the CHNEP.
- Provide access to water quality and seagrass data to partners via CHNEP Water Atlas.
- Provide data needed to assess effectiveness of protection and restoration efforts.
- Increase collaboration on monitoring and mapping between SWFWMD and SFWMD.

CWA Core Program addressed: (1) establishing water quality standards, (2) identifying polluted waters and developing restoration plans, (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 3.2 Ongoing Project: CHNEP Water Atlas Maintenance

Project Objective: To ensure continuing access to technical information from throughout the CHNEP Study Area to scientists, resource managers and users, elected officials and the public through a user-friendly web-based tool. The resulting data, maps and graphs are easily accessible for use evaluate resource conditions, answer site and topic specific questions, and convey scientific information in an understandable manner to support effective management programs and restoration projects.

Project Description: CHNEP contracts on an annual basis with the University of South Florida (USF) to maintain and enhance the CHNEP Water Atlas. The Water Atlas is a web-based, data management and mapping system that provides historical information, scientific data, water resource maps, resource management actions, volunteer opportunities and current events from throughout the CHNEP Study Area. Tools are available to map, analyze and graph data related to specific locations and topics to assist partners with identifying, prioritizing and implementing projects that address CCMP water quality, habitat, hydrology and stewardship goals. CHNEP support includes maintenance, improvements and enhancements of all the Water Atlas components, including home page design and data base updates.

CCMP Elements Implemented: SG-1, SG-2, SG-3, SG-4, SG-B, SG-D, SG-F, SG-J, SG-K, SG-R, and SG-S.

Outputs/Deliverables Milestones:

- Management of all data sources, web-site hosting, maintenance, up-dates and enhancements, and quarterly and annual reports.
- Water quality data uploaded from the state water quality data base every 6 months
- Water quality contour maps up-dated annually,
- Water Clarity Report Card updated annually,
- Events up-dated as appropriate, and
- Technical documents posted as they are provided.

320 Budget: \$54,000

FY 17-18 Budget:

320 Funds: \$54,000 + staff time

Estimated Total Budget: \$54,000

Outcomes

- Post and provide access to water quality data up-dates every 6 months.
- Post and provide access to water quality contour map up-dates annually.
- Post and provide access to Water Clarity Report Card up-dates annually.
- Post and provide access to data analyses, maps and graphs as requested.
- Provide data entry access to volunteer oyster monitors weekly, bi-monthly and every 6 months.
- Provide data needed to assess effectiveness of protection and restoration efforts as requested.
- Increase collaboration among resource managers and agencies from throughout the CHNEP Study Area.

CWA Core Program addressed: (2) identifying polluted waters and developing restoration plans, (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 4 Watershed Coordination

Workplan Objective: To develop and update a CHNEP Restoration Plan and participate in activities which will implement this plan and CCMP objectives and actions relating to restoration. To support development and implementation of Everglades Restoration.

Description: Provide staff support for restoration mapping efforts, including hosting the master restoration database and Shapefiles. Tracking of restoration plan implementation is performed annually through the annual development of the Government Performance and Review Act (GPRA) report. This task also includes staff participation in watershed initiatives such as: Southern Water Use Caution Area (SWUCA) Recovery Strategy, Minimum Flows and Levels, Reasonable Assurance Plans, Basin Management Action Plans, Southwest Florida Feasibility Study, SFWMD Water Supply Plan, Caloosahatchee River Visioning process, and development of basin water budgets and management plans. CHNEP also participates in state and federal processes to develop landscape scale conservation corridors with public and private partnerships to provide habitat and species migration and climate change adaptation. Finally, partners, such as EPA and NOAA, frequently request data and supporting information about restoration and conservation efforts within CHNEP. As opportunities arise, CHNEP assists partners in restoration activities including: Water Planning Alliance, Estero Bay AB, Lemon Bay League, Forked Creek and Hendry Creek “Walk the Watershed”, Charlotte Harbor Flatwoods Initiative meetings and other activities.

The CHNEP participates in Everglades Restoration projects relevant to the SCHNEP Study Area; this includes participating on the Science Coordination Group on behalf of Southwest Florida

CCMP Elements Implemented: All

Partners and their roles:

Florida Gulf Coast University, Florida SeaGrant, Coastal Wildlife Club, Lee County Parks and Recreation Department, Lee County Department of Natural Resources, Charlotte Harbor Environmental Center, Sanibel-Captiva Conservation Foundation, Friends of Charlotte Harbor Aquatic Preserves, Lee County Conservation 2020 Program, Calusa Land Trust, City of Fort Myers, Mote Marine Lab, Sarasota Estuary Program, Tampa Bay Estuary Program

Outputs/Deliverables Milestones

- GPRA Report
- Staff support to regional watershed efforts other than CERP/SWFFS such as SWIM planning, TMDLs, SWUCA, Caloosahatchee Regional River Recovery Strategy, and Peace River Management Plan
- Public/Private Conservation Cooperative Support
- Watershed Management Plans, Verified List review
- Minimum Flows and Levels review
- Mining permit review
- Morgan Park restoration projects
- Habitat Restoration Needs Update
- CHFI, LAWI
- Corridors plan
- CHIMMP and OIMMP
- Marine Debris, micro-plastics project participation
- Science Coordination Group

320 Budget: \$18,485

FY 17-18 Budget:

staff

320 Funds:	\$18,485
FDEP Funds:	\$44,876
SWFWMD Funds:	\$33,618

Estimated Total Budget: \$96,979

Outcomes

- To most effectively restore water quality, hydrology and habitat, CHNEP participates in a variety of partnership resource management and planning activities. Funding under this program supports CHNEP staff review of watershed assessments and plans and provision of maps and data to partners which guide restoration priorities and track implementation of projects
- CHNEP will provide annual summaries of partners' restoration activities through the GPRA report and will assist partners with compiling and analyzing data to develop and implement technically sound, consensus-based resource management plans.
- Increase in the number and effectiveness of implemented water quality and resource management Best Management Practices (BMPs), plans and restoration activities

CWA Core Program addressed: (2) identifying polluted waters and developing restoration plans to restore them, (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 4.1 Ongoing Project: Habitat Restoration Needs

Project Objective: To develop CHNEP habitat restoration needs vision, goal, and plan project through the next 50 years and to make the information easily accessible to resource managers. The resulting information will be used by partners to identify, prioritize and implement effective habitat restoration and conservation projects, including land acquisition.

Project Description: CHNEP will hire a qualified contractor to work with partners to: a) compile existing and historical habitat data, tables maps and projects; b) evaluate approaches for developing a long term habitat restoration vision (50 years) and short term goals (20 years); c) develop the CHNEP habitat restoration vision and goals; d) implement a strategy for making the resulting information easily accessible via the CHNEP Water Atlas; and e) prepare a CHNEP Habitat Restoration Needs Plan.

CCMP Elements Implemented: FW-1, FW-F, SN-N.

Partners and Roles: The selected contractor will work with the CHNEP Management Conference, local and regional resource managers and other partners to compile and synthesize habitat and project information and develop the habitat restoration vision and goals.

Outputs/Deliverables:

- Definitions of habitats, land use codes and time periods.
- Databases, maps and tables of past and current habitats and restoration projects.
- Databases, maps and tables of habitat status and trends.
- Access habitat restoration databases, maps and tables via CHNEP Water Atlas.
- List and evaluation of alternative approaches for calculating habitat restoration vision and goals.
- CHNEP habitat restoration vision and goals, including databases, tables and maps.
- List of priority habitat restoration and land acquisition projects needed to achieve habitat vision and goals.
- CHNEP 2017 Habitat Restoration Needs Plan.

Estimated Milestones:

- Habitat data and projects compiled and analyzed for status and trends within 7 month.
- Access to habitat restoration information via Water Atlas implemented within 7 months.
- Approach for calculating habitat restoration goals developed within 8 months.
- CHNEP habitat restoration vision and goals developed within 13 months.
- List of priority future restoration and acquisition projects developed within 13 months.
- CHNEP 2017 Habitat Restoration Needs Plan completed within 18 months.

320 Budget: staff time

FY 17-18 Budget: (these funds were appropriated in FY17)

320 Funds:	\$30,000
SWFWMD:	\$80,000
Grant:	\$40,000

Estimated Total Budget: staff time + \$150,000 appropriated in FY17

Outcomes

- Provide up-to-date region-wide habitat data, status, trends, vision and goals to be used to focus cost-effective and efficient restoration and acquisition activities.
- Provide habitat data to assess the effectiveness of restoration and protection efforts.

- Provide.
- Increased collaboration across boundaries between the SFWMD and SWFWMD.

CWA Core Program addressed: (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

Task 4.2 Ongoing Project: Oyster Restoration in Charlotte Harbor NEP

Project Objective: To facilitate the restoration of oyster habitats and related ecosystem functions throughout the CHNEP estuaries and tidal rivers.

Project Description: CHNEP coordinates and collaborates with three partnership approaches to oyster restoration throughout the Study Area. The *Southwest Florida Oyster Working Group* (SWFOWG) was convened to develop the CHNEP Oyster Habitat Restoration Plan, vision and goals which were approved by the CHNEP Management Conference in December 2016. Subsequently the SWFOWG conducted field assessments of potential oyster restoration area throughout the estuaries and developed a prioritize list of 53 sites totaling 28 acres. The prioritized list is used to seek regulatory and funding support to implement restoration projects, with the goal of initiating pilot projects within 50% of the CHNEP estuaries by 2020. The SWFOWG has also been instrumental in participating in discussions with state and federal regulatory agencies to facilitate region-wide oyster restoration that addresses endangered Smalltooth Sawfish critical habitat.

CHNEP, The Nature Conservancy (TNC) and FDEP Charlotte Harbor Aquatic Preserves implemented the *partnership oyster restoration project* in Punta Gorda along the Trabue Harborwalk and develop a *Volunteer Oyster Habitat Monitoring* program to assess the success of the project. CHNEP also partners with TNC, FDEP, the City of Punta Gorda, Sanibel Captiva Conservation Foundation (SCCF), Lee County, Sarasota County, and the Lemon Bay Conservancy to identify additional technical and funding partners for pursuing new oyster restoration projects in Lemon Bay, Charlotte Harbor and San Carlos Bay.

Sarasota County and FDEP Estero Bay Aquatic Preserve are *mapping oyster habitats* throughout Sarasota County and Estero Bay estuaries and tidal creeks, with field assistance from CHNEP. Alternative methods for region-wide mapping have been investigated with TNC and the SWFOWG, as well as the FL Fish and Wildlife Conservation Commission (FWC) Coastal Habitat Integrated Mapping and Monitoring Program (CHIMMP) and Southwest Florida Water Management District (SWFWMD) biennial aerial seagrass mapping program. Efforts continue to identify a technically sound, consistent cost-effective method for mapping oyster acreage and locations throughout the Study Area estuaries.

CCMP Elements Implemented: WQ-E, WQ-4, FW-1, FW-F, HA-A, and SG-B.

Partners and their roles: CHNEP coordinates the SWFOWG, which includes active participation from many organizations and agencies, including: TNC, FDEP Charlotte Harbor and Estero Bay Aquatic Preserves, FWC, Lee County, Charlotte County, Sarasota County, SCCF, NOAA National Marine Fisheries (NMFS), US Army Corps of Engineers (USACE), SWFWMD and SFWMD. These partners collaborate to develop restoration and monitoring design criteria, identify areas where restoration is most likely to succeed, seek regulatory authorization and funding and implement restoration projects, often with the assistance of a strong volunteer network.

Outputs/Deliverables Milestones:

- Submittal of regulatory applications for groups of priority oyster restoration sites collectively by SWFOWG partners to the USACE in the spring/summer of 2017, to be used to seek a activity-based biological opinion relating to region-wide oyster restoration on endangered Smalltooth Sawfish habitat.
- Utilization of the CHNEP Oyster Habitat Restoration Plan, methods and priority sites to seek partnership grant funding for restoration projects in Lemon Bay, Punta Gorda/Peace River, San Carlos Bay, Pine Island Sound and Charlotte Harbor, including 1 project in 2018.
- Utilization of the SWFOWG to exchange technical information to improve oyster restoration success and monitoring biannually and as needed.

- Transfer of the Volunteer Oyster Habitat Monitoring manual and methods to guide volunteer monitoring at oyster restoration sites throughout the CHNEP study area as opportunities arise.
- Education of volunteers and the public of the ecological value of oyster habitats via the VOHMN daily, biweekly and biannually.
- Reporting and showcasing the success of the Trabue Harborwalk and SCCF oyster restoration sites through CHNEP publications.

320 Budget: staff time.

FY17-18 Budget

320 Funds: staff time

Estimated Total Budget: Staff time

Outcomes

- Protect and restore natural systems, obtain sufficient region-wide water quality, biological and physical data and analyses that are needed to understand the status, trends and complex interactions of the systems.
- Coordinate implementation of Oyster Restoration Plan, sharing of lessons learned and subsequent adaptation of oyster restoration projects.
- Increase collaboration across boundaries between the SFWMD and SWFWMD.
- Restoration of oyster population to state where it assists with improving water quality the CHNEP estuaries and tidal rivers.

CWA Core Program addressed: (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

**Task 4.3 Ongoing Project: CHNEP Submerged Aquatic Vegetation Restoration
Citizen Seagrass Gardening Project**

Project Objective: To ensure development of technically sound Submerged Aquatic Vegetation (SAV) restoration targets and implement restoration initiatives and projects which restore and protect SAV throughout the CHNEP estuaries and tidal rivers.

Project Description: CHNEP coordinates and participates in four important collaborations to develop technically sound SAV restoration targets and implement restoration projects throughout the Study Area. The CHNEP *Technical Advisory Committee (TAC) subcommittees* and technical partners developed *CHNEP SAV restoration targets* for the estuaries and tidal rivers throughout the Study Area. The SAV targets were adopted by the CHNEP Management Conference in 2005 and refined targets in 2009, with the understanding that additional field assessment was needed to capture full extent of SAV distribution in the tidal rivers due to naturally highly colored river water. The SAV targets serve as an indicator for developing water clarity, and chlorophyll, nutrient and turbidity levels needed to protect and restore SAV acreage and health.

CHNEP convened the *Caloosahatchee River SAV Targets Working Group* (CRSAVTWG) in 2013 to begin developing sound SAV targets for the tidal and some oligohaline reaches of the Caloosahatchee River. The CRSAVTWG includes technical experts and resource managers from many agencies and organization, including: FDEP Charlotte Harbor and Estero Bay Aquatic Preserves, FWC, SWFWMD, FL Gulf Coast University, Lee County Sanibel Captiva Conservation Foundation (SCCCF) and Johnson Engineering. Since 2013, the CRSAVTWG: 1) compiled links to sources of existing SAV monitoring and mapping, water quality, salinity and flow data; 2) identified potential gaps in existing data; 3) conferred about possible metrics for SAV targets; 4) investigated alternative “rapid assessment” tools for SAV in the river; and 5) considered development of a simple GIS-based SAV habitat suitability tool. During 2017, partners will collaborate to map SAV extent using acoustical or alternate “rapid assessment” equipment and develop the SAV habitat suitability. The resulting data and maps will allow several options of potential SAV targets to be evaluated and brought to the CHNEP Management Conference for consideration.

CHNEP also participates in the *Southwest FL Seagrass Working Group* and *FWC Seagrass Integrated Monitoring and Mapping (SIMM)* technical team to exchange technical information and discuss emerging issues relating to seagrass research and restoration.

CCMP Elements Implemented: FW-1, FW-A, FW-C, FW-D and FW-P.

Partners and Roles: CHNEP coordinates the TAC subcommittees and CRSAVTWG, and participates in the SWF Seagrass Working Group and SIMM technical team. Together these collaborative groups include active participation from many organizations and agencies, including: FDEP Charlotte Harbor and Aquatic Preserves, FWC, SWFWMD, SFWMD, Lee County, Charlotte County, Sarasota County, SCCC, FGCU and Johnson Engineering. Collaborations of these technical and resource management experts effectively collect and exchange SAV field data, analysis methods and modeling tools which are used to identify, implement and assess SAV restoration activities throughout the CHNEP Study Area.

Outputs/Deliverables:

- Compiled SAV and water data used to identify and fill gaps and assess SAV status and trends.
- Developed SAV habitat suitability tool
- Exchange technical information, monitoring and mapping methods, and emerging SAV issues.
- Reporting and showcasing success of SAV restoration projects.

Estimated Milestones:

- Initiate SAV data and maps compilation for the Caloosahatchee River by summer 2018.
- Initiate SAV habitat suitability model development for Caloosahatchee River by summer 2018.
- SAV restoration grant project implemented by summer 2018.
- Exchange of SAV information on-going.

320 Budget: staff time.

FY17-18 Budget

320 Funds: staff time

FDEP Funds: \$14,270 (Coastal Partnership Initiative Grant)

Partners: \$15,000 in-kind match

Estimated Total Budget: Staff time + \$14,270 + volunteer time

Outcomes

- Protect and restore natural systems, obtain sufficient region-wide water quality, biological and physical data and analyses that are needed to understand the status, trends and complex interactions of the systems.
- Development of SAV Targets for Caloosahatchee River.
- SAV Restoration projects sharing of lessons learned and subsequent adaptation of SAV restoration projects.
- Increased collaboration across boundaries between the SFWMD and SWFWMD.
- Restoration of SAV to state where it assists with improving water quality in the Caloosahatchee River and San Carlos Bay.

CWA Core Program addressed: (5) protecting wetlands and (6) protecting coastal waters through the National Estuary Program.

Task 4.4 New Project: Restoration Project Grant(s) - TBD

Project Objective: To solicit and award funding for a restoration project that addresses the CCMP Priority Actions has long-term applicability and serves as a model for addressing habitat restoration and improvement and resource management challenges.

Project Description: CHNEP will fund a restoration project that implements CCMP Priority Actions, has long-term applicability, and serves as a model for addressing habitat restoration and resource management challenges. Assurances of long term conservation use of the area after restoration is completed is an essential component of the project, as are monitoring restoration success and informing and educating the public about habitat values and restoration methods. Proposed projects should address at least one Priority Problems and implement one Priority Action, be transferable, demonstrate value to the community, and include monitoring and educational components.

CCMP Elements Implemented: Will be determined upon award.

Partners and Roles: Will be determined upon award.

Outputs/Deliverables Milestones:

- Habitats will be restored and protected within 2 years of project selection and remain in conservation use long term.
- Restoration techniques will be transferable to other projects and locations following completion of the project.
- Success monitoring methods, results and educational tools will be available to guide design and implementation of additional cost-effective restoration following completion of the project.

320 Budget: TBD

FY 17-18 Budget:

SWFWMD Funds:	\$25,000
Partner Grant:	\$40,000
EPA Funds:	TBD (~\$43,400)
In-Kind Match:	\$25,000

Estimated Total Budget: \$65,000

Outcomes

- Habitats will be protected and restored.
- Restoration and success monitoring methods will be available to designing and implementing future restoration project.
- Collaboration and technical information exchange will be enhanced between partners.
- Identified CHNEP restoration needs will be filled.

CWA Core Program addressed: (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, (6) protecting coastal waters through the National Estuary Program, and (7) protecting Large Aquatic Ecosystems.

**Task 4.5 Ongoing Project: WET PLAN
(Watershed Education Training, Ponds Lakes and Neighborhoods)**

Project Objective: To provide education and tools to citizens to improve the water quality in their stormwater management ponds.

Project Description: WET PLAN is an education program and resource for anyone interested in improving and caring for their neighborhood stormwater ponds. The program provides workshops several times a year with a panel of experts providing assistance to home/condo owners associations and individuals. WET PLAN educates individuals on ways that small personal changes in home and yard practices can help keep local lakes, streams, rivers and estuary waters cleaner.

CCMP Elements Implemented: WQ-1, WQ-A, HA-L, WQ-D, WQ-E, WQ-K , WQ-M, SG-K, SG-R, SG-S

Outputs/Deliverables

The workshop presentation is available electronically at WET PLAN.org with matching audio. Links to relevant CHNEP and partner videos and supplemental materials are provided, including plantings guides adapted for the geographic location with the CHNEP Study Area.

Estimated Milestones:

320 Budget: Staff time

FY 17-18 Budget:

320 Funds: Staff time

FDEP Funds: Staff time

Estimated Total Budget: Staff time

Outcomes:

- Residents increase understanding of their impact on water quality.
- Residents take action by adopting different approaches to things they do every day.
- Improved water quality in stormwater management ponds.
- Improved water quality exiting stormwater management ponds.
- MS4 education credits for municipalities.
- B-MAP education credit.

CWA Core Program addressed: (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Task 5: Legislative Action

Workplan Objective: Provide a structure for pursuing legislative action to support the implementation of the CCMP; implement the Advocacy and Review Procedures; and provide federal consistency review as required by EPA.

Description: The Legislative Agenda is a formal document that presents projects identified by the Management Conference, that implement the CCMP and which require additional support, either fiscal or policy, in order to be successfully completed. Membership dues (\$4,500) in the Association of National Estuary Programs (ANEP) are included in this task as they are not eligible for EPA funding. Finally, this task supports the Legislative Subcommittee.

CCMP Elements Implemented: SG-2, SG-L

Outputs/Deliverables, Milestones

- CHNEP Legislative Agenda, presented to state and Federal legislators as appropriate
- Letters of support for legislation as directed.
- Letters of support as appropriate to legislators and policy makers.
- ANEP membership, by March 2018.
- Review, Comment, Support and Inquiry Letters as requested.
- Legislative updates to Management Conference as appropriate.
- Issues meetings with elected officials as needed.

320 Budget: \$0

FY 17-18 Budget:

Local partners:	
Staff:	\$16,122
ANEP:	\$4,500

Estimated Total Budget: \$20,622

Outcomes

- To provide a structure for pursuing legislative action to support the implementation of the *Comprehensive Conservation and Management Plan (CCMP)*.
- CHNEP and the CCMP recognized and utilized as a resource by legislators (local, state and Federal) and their staff.
- New, revised and re-authorized Federal and state Statutes, and rules, local ordinances, and Federal, state and local policies that assist in implementing the CCMP.
- Incorporation of CHNEP Management Conference proposed revisions into adopted rules and legislation.

CWA Core Program addressed: (1) establishing water quality standards, (2) identifying polluted waters and developing restoration plans, (4) addressing diffuse, nonpoint sources of pollution, (5) protecting wetlands, and (6) protecting coastal waters through the National Estuary Program.

Completed Major Projects and Actions

FY16 Public Outreach Grants

Science at CREW's Cypress Dome Trails

CREW Land & Water Trust

Last year, more than 5,400 people were educated on the CREW Marsh Trails and the Bird Rookery Swamp Trails. Environmental education programs at CREW's Cypress Dome Trails can be expanded with the development of an outdoor classroom. The CHNEP is providing \$1,000 toward this \$39,036 project. This project helps implement the CCMP by fulfilling SG-I, SG-H, SG-F and WQ-K.

Venice Gardens Lake Floating Island

Deena Lonzo

Venice Gardens Lake is a highly-eutrophic waterbody owned and maintained by the Sarasota County Stormwater Environmental Utility. Water flows from the lake into Alligator Creek then into Lemon Bay. This project will allow a floating island to be installed to improve water quality and provide habitat for wildlife. The floating island and educational signage can be viewed from Shamrock Blvd to enhance the public's environmental awareness regarding the issues and possible solutions. The CHNEP is providing \$1,508 toward this \$1,824 project. This project helps implement the CCMP by fulfilling SG-B and WQ-M.

Water, Wings and Wild Things Kids Festival 2016

Polk's Nature Discovery Center

Approximately 2,000 second grade students from Polk County schools (with 50 teachers and 300 chaperones) will learn about natural resources in the upper Peace River watershed through marsh tours of the head waters, presentations, hands-on exhibits and activates during this day-long program at Circle B Bar Reserve. The CHNEP is providing \$5,000 toward this \$7,262 project. This project helps implement the CCMP by fulfilling SG-H and SG-F.

Water Quality Education and Coordination Program

Charlotte Harbor Environmental Center

CHEC staff coordinates volunteers that sample estuarine waters at 16 sites in Lemon Bay and Gasparilla Sound on a monthly basis as part of the FDEP Charlotte Harbor Volunteer Water Quality Monitoring Network. Data is entered in STORET then used to evaluate waterways. This project supports CHEC and allows for the development of literature concerning water quality and water monitoring. The CHNEP is providing \$2,300 toward this \$6,180 project. This project helps implement the CCMP by fulfilling WQ-1, SG-F and SG-K.

Venice Elementary and Venice High Schools Reach into the Community with Conservation

Kay Thorpe Bannon

The 92 third grade students at Venice Elementary will reach into their home communities with native plant gardening, combined with wildlife conservation information, storytelling and presentations. Student and family awareness of habitat loss will increase and a sense of stewardship for our Florida environment will be encouraged. This project is an extension of grants completed with Venice, Taylor Ranch and Garden Elementary Schools, during which students worked with the Venice High School and community groups to address wildlife conservation issues as well as to install native plant gardens on the grounds of each elementary school. Their work will be chronicled in school newspapers and featured in local papers. The CHNEP is providing \$904 toward this \$3,211 project. This project helps implement the CCMP by fulfilling SG-H, SG-F and WQ-K.

Upper Peace River Watershed Education/Appreciation Program

Lakes Education/Action Drive

Upper Peace River watershed tours will be coordinated to allow the public to get to know their watershed. The education/appreciation tours will be guided by trained professionals and biologists who understand the issues and connection to the estuary. The CHNEP is providing \$5,000 toward this \$15,000 project. This project helps implement the CCMP by fulfilling SG-H, HA-P, SG-F and WQ-K.

Venice Native Wildlife Corridor

State College of Florida, Manatee-Sarasota

This project allows students, faculty, and staff to plant native vegetation on campus to provide wildlife habitat, help conserve water, reduce the potential for nutrient runoff, and provide education opportunities for students who will then help educate the general public. The CHNEP is providing \$2,583 toward this \$5,630 project. This project helps implement the CCMP by fulfilling SG-H, SG-F and WQ-M.

San Carlos Park/Mulloch Creek Habitat Restoration Initiative

Florida Gulf Coast University

A half-mile stretch of a drainage canal recently had the invasive exotic plants cut. It provides us an opportunity to expand our goals to restore the East Mulloch Drainage District in this 2 square-mile community. The homeowners will receive a voucher to receive one native plant for every native plant purchased and personalized landscape plans for place-appropriate plants. They will also receive information and discounts for septic maintenance and shoreline erosion services. A survey they complete will help us understand the behavior, awareness, knowledge and willingness to change. The CHNEP is providing \$2,000 toward this \$5,761 project. This project helps implement the CCMP by fulfilling SG-A, SG-G, and WQ-K WQ-L.

Happe Teen River Lab and Eco-Camp

Happehatchee Center, Inc.

Five local teens will chemically and biologically test parts of the Estero River during a six-month environmental science course at the Happehatchee Center. Students will learn paddling techniques and develop a teaching display for the Happe Summer Eco-Camp in June 2016 for 20 students from farm worker families. The CHNEP is providing \$4,000 toward this \$13,776 project. This project helps implement the CCMP by fulfilling SG-H, SG-C, SG-F and WQ-L.

Punta Gorda Pathways: Trails that Teach

TEAM Punta Gorda

Education is an important variable in protecting Charlotte Harbor. This collaborative initiative will provide resources to educate the public about the importance of the estuary and what is needed to protect it. Two interpretive signs along Punta Gorda Harborwalk will explain the ecology of the estuary. Free monthly public programs will be offered. The CHNEP is providing \$3,300 toward this \$15,485 project. This project helps implement the CCMP by fulfilling SG-D.

Native Plants Outreach Campaign

FNPS Coccoloba Chapter

This project helps bridge the gap between when outreach participants "see the native plant light" and are able to purchase and install native plants in their yards. With only three retail native plant businesses in Lee County, the short-term fix is to drive up the demand and ultimately the supply of native plants. The CHNEP is providing \$2,405 toward this \$60,580 project. This project helps implement the CCMP by fulfilling SG-F and WQ-K.

FY16 Micro-Grants

Recipient	Project	Award
"Ding" Darling Wildlife Society	Ding Darling Days: October 2015	\$250.00
Estero Bay Buddies	National Estuaries Day Paddle: Nov. 14, 2015	\$250.00
Michael Crea	Identifying the Range of the Invasive Apple Snail in Myakka River State Park	\$250.00
Conservation Foundation of the Gulf Coast	Charlotte Harbor Tidal Creeks - Coral Creek Protection	\$500.00
Southwest Florida Water Resources Conference Committee	Here we Grow Again: The Future of Water Resources in Southwest Florida on Jan. 14, 2016	\$250.00
Green Horizon Land Trust	Green Horizon Land Trust's Annual Meeting and Dinner: March 13, 2016	\$250.00
Tangerine Woods Owners Association	Tangerine Woods Nature Trail Preservation Project	\$352.22
CRCA Riverwatch	Eagles for Clean Water: Billy's Creek Cleanup: March 25, 2016	\$250.00
Downtown Bait and Tackle Shop	Children's Pier Fishing Tournament: May 7, 2016	\$250.00
Ernesto Lasso de la Vega	Pond Watch Workshop: March 14, 2016	\$120.00
Friends of the Charlotte Harbor Aquatic Preserves	1st Annual Florida Coastal Management Program Meeting: May 3-4, 2016	\$250.00
Deena Lonzo	Venice Gardens Lake Shoreline restoration and demonstration area phase 1; west 80 feet of property at 428 Shade Terrace, Venice, Florida	\$250.00
Keep Lee Beautiful	Monofilament Madness a.k.a. Marine Cleanup: Nov. 7, 2015	\$250.00
FNPS Coccoloba Chapter	Native Plants at Koreshan State Historic Site	\$500.00
FNPS Coccoloba Chapter	Lavalier for Outreach Events	\$499.92
Polk BCC	7 Rivers Water Festival, May 7, 2016	\$250.00
Venice Gardens Civic Association	Venice Gardens South Lake Shoreline Restoration project phase 1	\$750.00
Polk BCC	Polk County Water School 2016: Feb 19 and 16, 2016	\$247.17
Englewood Sailing Club	wading trips to be offered during three summer 2016 sailing camps	\$600.00
FNPS Mangrove Chapter	Plant Native Day: March 12, 2016	\$250.00
FNPS Coccoloba Chapter	Native Littoral and Upland Plants at Island Park Village Stormwater Pond	\$500.00
FNPS Coccoloba Chapter	WET PLAN Workshops in 2015-16 (\$250)	\$164.70
Manatee County Parks and Natural Resources	Three Growing Up Wild! In the Charlotte Harbor National Estuary	\$1,000.00

Recipient	Project	Award
Lee County BCC	Field trip to Lover's Key to include SUP paddle board instructor training. A wading trip will also be offered / conducted by Nancy Kilmartin and Lover's Key staff (\$190)	\$187.80
Lemon Bay High School	Exploring the Seasonal Changes within Lemon Bay	\$200.00
Pelican Media	30 and 60-second videos for Yes on Conservation 20/20 Campaign	\$1,000.00
Eco-Voice, Inc.	Eco-Voice	\$250.00
Calusa Nature Center and Planetarium	Water, Water Everywhere Summer camp class	\$214.06
Lehigh Acres Municipal Services Improvement District	Wings Over Water Festival: Jan. 29 and 30, 2016	\$250.00
"Ding" Darling Wildlife Society	"Ding" Darling Days 2016	\$250.00
Fort Myers High School: Beth Everhart	Autry Peace Garden Project at Fort Myers Senior High School	\$250.00
Felicia Nudo	Florida Wildflower Foundation 2016 Wildflower Symposium	\$240.18
FNSP Coccoloba Chapter	Native Landscaping brochure	\$1,380.00
Otter Water Web	MRMCC website to Sept. 2017	\$220.00
Deena Lonzo	Venice Gardens South Lake Shoreline Restoration project phase 2	\$228.54
Total Awarded:		\$12,904.59

FY16/17 Research Project

Mangrove Heart Attack Project

Southwest Florida Regional Planning Council, Coastal Resources Group, Terry Tattar, FY15 EPA Wetland Program Development Funding and CHNEP staff support. submitted April 2017.

To assist EPA, SWFRPC and partners with better understanding saltwater wetland loss, CHNEP will implement a research project to define the distribution, abundance, and composition of saltwater wetlands, including mangrove ecosystems throughout the CHNEP study area. The project will also assess the fate of these ecosystems as they respond to human caused hydrologic and climate change stressors; identify locations of mangrove forest die-offs and location of potential future loss; document changes in the position, composition and health of the landward and waterward edges of fringing mangrove ecosystems, and document changes in the relative proportions of mangrove ecosystem types in Southwest Florida. The project will focus on large mortality areas with adjacent areas showing stress and long term trends indicating little or no natural recovery, and expansion of the die-off to potentially thousands of acres. The project implements many CHNEP Priority Actions including: FW-I, FW-C, and SG-S and helps fulfill Research Needs relating to mangrove species composition monitoring.

FY17 Restoration Projects

Volunteer Oyster Habitat Monitoring

Funded by a Coastal Partnership Initiative Grant CM615

The CHNEP and partners identified the need for more long-term monitoring data of oyster habitat restoration projects and consistent methods for monitoring across the region. Long-term monitoring data will assist in planning successful large-scale oyster habitat restoration in the future. However, funding for long-term monitoring is generally a limiting factor. A citizen scientist volunteer program was identified as a potential mechanism for making long-term monitoring feasible. The goal of the CHNEP Volunteer Oyster Habitat Monitoring (VOHM) project was to develop and test a program that could be implemented by CHNEP partners to fill the need for long-term monitoring using consistent methodologies.

The VOHM program was developed and tested over the past year with volunteers participating in monitoring of the Nature Conservancy's Trabue Harborwalk pilot project in Punta Gorda. The program includes methods for monitoring the following metrics, Reef Area, Reef Height, Live Oyster Density, Live Oyster Size Frequency, Water Temperature, Water Salinity, Waterbird Utilization, Shoreline Location and Crown Conch Abundance. These metrics were identified based on the previously developed monitoring plan for the Nature Conservancy's Trabue Harborwalk pilot project, input from the Southwest Florida Oyster Working Group members, and guidance provided in the *Oyster Habitat Restoration Monitoring and Assessment Handbook* (Baggett et al. 2012).

The VOHM program can easily be tailored and implemented by other CHNEP partners conducting oyster habitat restoration projects within the region, and may also be transferrable outside of the region. To implement the program not all of the metrics have to be monitored, however in being consistent with the "Handbook" guidance at a minimum reef area, reef height, live oyster density, and live oyster size frequency should be monitored. The other metrics provide additional information that can be useful to understanding if the project has met specific goals, such as shoreline stabilization or increased waterbird utilization, or for identifying factors that may limit success, such as water quality or predator (crown conch) abundance.

Volunteers provided valuable input into the development of the program, ensuring that the methodologies are not only scientifically-sound, but are also appropriate for volunteers with a range of backgrounds. Volunteers may choose to participate in only one aspect of the monitoring, such as bird monitoring, or many dependent on their interests. In addition to the value of the data that is gathered, the volunteers also add value through their ability to spread the word about the importance of oyster habitat to friends and family throughout the community. As a result of the volunteer component of the Trabue Harborwalk project, and the high visibility of the project, people throughout the community have become aware of importance of oyster habitat restoration and interest in supporting additional restoration is growing

Morgan Park Peace River Shoreline and Habitat Restoration Project

Funded by SWFWMD and a grant from Mosaic Co.

To be completed by December 30, 2017

Due to natural and man-made processes, the Peace River shoreline is eroding in two locations in Morgan Park, which is causing loss of access to public recreation lands and an increase in sediment reaching the river. One of the eroding sites is located near the park entrance and is estimated to be 250 linear feet of river bank. The second site is near the "South Trail" and is estimated to be 600 feet linear feet of river bank. Stabilization of the eroding sites may be required both above and below ordinary high water line to assure long term control of the erosion. (See attached figure.)

The erosion of the banks of the Peace River is causing serious habitat, water quality and recreational use problems at these two locations within the park. The eroding river bank has cut through a portion of the major trail section which makes the trail impassible to users. If erosion continues, it will impact the safety of users and reduce park access substantially. These erosion areas of the river have been identified as a potential hazard mitigation initiative project by the DeSoto County Local (Hazard) Mitigation Strategy Working Group. In addition there are other opportunities to enhance resource restoration at the park, including exotic plant removal, native vegetation planting and water quality treatment. The successful completion of the project shall not be used for mitigation for wetland impacts.

The CHNEP solicited professional engineering and environmental services to develop a phased comprehensive shoreline stabilization and ecosystem restoration plan for the Peace River in Morgan Park and implementation of Phase 1 of the plan. Phase 1 of the plan will include completing the design, permitting and bid specification documentation for shoreline stabilization and habitat restoration for at least 1, preferably 2, of the critical erosion sites identified in the comprehensive plan. Tasks will be completed in accordance with all applicable regulations and statutory requirements. The project deliverables will be approved the CHNEP Management Conference before reimbursement is made to the selected Contractor. Morgan Park is located on public-owned lands in DeSoto County, Florida, within the CHNEP Study Area.

The CHNEP consulted with DeSoto County and sought solutions that were not highly engineered and did not require hardened structural elements. It is anticipated that detailed survey work and design engineering will be required. Permitting is expected to require FDEP and USACE approval. The 100% Design was submitted in February 2017 for Management Conference review.

Clean Water Act Core Program Support

The CHNEP supports the Clean Water Act (CWA) core programs through direct funding of projects, staff assistance to partners and partner activities. Provided below are representative activities of CHNEP support for CWA core programs during Fiscal Year 2015.

Water Quality Monitoring

CHNEP staff continues participating in the **Coastal Charlotte Harbor Monitoring Network (CCHMN)** monthly probabilistic sampling in the estuarine and tidal waters of the Study Area. Annual field monitoring audits of the field sampling partners are conducted by CHNEP. Results of the field audits and potential corrections are discussed at an annual meeting of field and laboratory partners. The CCHMN data are entered into the state and federal STORET water quality data base. The CHNEP completed a Quality Assurance Project Plan for the Lower Charlotte Harbor Monitoring Network in 2015. CHNEP is supporting Charlotte County with water quality data collection matters.

The CHNEP participates in the **Regional Ambient Monitoring Program (RAMP)** which holds quarterly meetings. RAMP participants share current water quality field and laboratory issues and conduct quality assurance field sampling and laboratory analyses.

The CHNEP provides on-going support to **Charlotte Harbor Estuary Volunteer Water Quality Monitoring Network (CHEVWQMN)**. CHNEP staff serves as a volunteer coordinator, assisting with annual quality control training, quality control compliance and monthly water quality monitoring. The data are uploaded into the Florida STORET database.

Controlling Non-Point Sources

WET PLAN: Watershed Education Training - Ponds, Lakes and Neighborhoods is an education program and resource for anyone interested in improving and caring for their neighborhood lakes and ponds. The program provides workshops several times a year with a panel of experts and assistance for home/condo owners associations and individuals upon request. WET PLAN is a partnership of water quality and lake management experts including members from the Charlotte Harbor National Estuary Program, the City of Bonita Springs, Lee County Natural Resources, Lee County Hyacinth Control District, Florida Gulf Coast University, Lee County Extension Services, the Florida Native Plant Society, and private partners including Conestoga-Rovers & Associates and Kimley-Horn. WETPLAN partners developed and held 6 workshops in Lee County in Fiscal Year 2015 with more than 200 attendees. In addition, the WET PLAN website continued to be enhanced with content. www.wetplan.org CHNEP established a partnership with LE/AD to adapt WETPLAN to the northern portion of the Study Area.

Applicable EPA-approved State Strategies and Program Plans

Listed below are the EPA-approved State Strategies and Program Plans that CHNEP was able to identify.

1) State Nonpoint Source Management Program - Section 319 of CWA funds used on SWIM water bodies

- Florida began full implementation of its revised NPS Program in May of 1989 following submission, review, and approval of the State's NPS Management Program and Assessment Report to the United States Environmental Protection Agency (EPA).
- Coastal Nonpoint Source Management Program – Section 6217 of Federal Coastal Zone Act
- Clean Lakes Program – Section 314 of CWA
- NNC: On November 30, 2012, June 27, 2013, and September 26, 2013, EPA approved numeric nutrient standards adopted by the state of Florida for certain waters in the state.
- TMDLs:
 - Group 3 Basin – Caloosahatchee Peace River Basin
 - Group 2 Basin – Charlotte Harbor
 - Group 1 Basin – Hendry Creek and Hendry Creek Marine, Imperial River

2) National Pollutant Discharge Elimination System (NPDES)

In October 2000, EPA authorized the Florida Department of Environmental Protection (DEP) to implement the NPDES stormwater permitting program in the State of Florida (in all areas except Indian Country lands). DEP's authority to administer the NPDES program is set forth in Section 403.0885, Florida Statutes (F.S.). The NPDES stormwater program regulates point source discharges of stormwater into surface waters of the State of Florida from certain municipal, industrial and construction activities. As the NPDES stormwater permitting authority, DEP is responsible for promulgating rules and issuing permits, managing and reviewing permit applications, and performing compliance and enforcement activities

Municipal Separate Storm Sewer System (MS4)

Section 402(p), which was adopted in 1987 amendments to the FCWA, established the NPDES Stormwater Program which regulates stormwater discharges from three potential sources: municipal separate storm sewer systems (MS4s), construction activities, and industrial activities. These stormwater discharges are considered point sources under Federal law, and operators of these sources may be required to receive an NPDES permit before they can discharge. This permitting mechanism is designed to reduce the impact of stormwater runoff in washing harmful pollutants into local surface waters such as streams, rivers, lakes or coastal waters.

A municipal separate storm sewer system (MS4) is defined as a conveyance or system of conveyances (like roads with stormwater systems, municipal streets, catch basins, curbs, gutters, ditches, constructed channels, or storm drains) that is designed or used for collecting or conveying stormwater, that discharges to waters of the United States, and is:

- (a) Owned or operated by a State, city, town, county, special district, association, or other public body (created by or pursuant to State Law) having jurisdiction over management and discharge of stormwater and which discharges to surface waters of the state;
- (b) Designed or used for collecting or conveying stormwater;
- (c) Which is not a combined sewer; and
- (d) Which is not part of a Publicly Owned Treatment Works (POTW). POTW means any device or system used in the treatment of municipal sewage or industrial wastes of a liquid nature which is owned by a "State" or "municipality." This definition includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment. An MS4 can be operated by municipalities,

counties, drainage districts, colleges, military bases, or prisons, to name a few examples. By definition, the components of an MS4 system do not include waters of the United States. Instead, the MS4 ultimately discharges into such waters.

The FCWA establishes two types of MS4 permits - Phase I and Phase 2. Phase I rules were adopted by EPA in 1990 and address discharges of stormwater runoff from "medium" and "large" MS4s. All Phase I, large and medium MS4s were previously designated by EPA, based on the total population within the geo-political boundaries of the municipalities: a large MS4 is any MS4 that is located in an incorporated place or county with a population of 250,000 or greater. A medium MS4 is any MS4 that is located in an incorporated place or county with a population between 100,000 and 249,999. In addition, other MS4s located in areas with populations below 100,000 can also be designated and brought into the program as Phase I MS4s by EPA. In Florida, this was done extensively at the beginning of the program since most municipal stormwater systems within Florida are interconnected resulting in a large number of co-permittees for most of the Phase I MS4 permits. Chapter 62-624, F.A.C. establishes the permitting requirements for MS4s within Florida. There are 14 primary components of a Phase I MS4 permit. In addition, all permittees must address legal authorities and financial and other resources needed to implement the program.

DEP was required to develop a set of designation criteria to use for the evaluation of all Phase II MS4s that are located outside of urbanized areas (UAs). These have been adopted in Chapter 62- 624.800, F.A.C. The public also may petition the Department to designate a Phase II MS4 as a regulated MS4 using the designation criteria.

3) Performance Partnership Agreement

DEP entered into a Performance Partnership Agreement (PPA) to further increase the efficiency and flexibility needed to accomplish Florida and federal environmental goals. The PPA serves as the workplan for EPA grants awarded to the state. The following federal programs are covered by the PPA:

- Water Pollution Control (CWA Section 106, surface and ground water)
- Public Water System Supervision (SDWA Sections 1443(a) and 1451(a)(3))
- Underground Water Source Protection (UIC) (SDWA Section 1443(b))
- Resource Conservation & Recovery (RCRA) (SWDA Section 3011(a))
- Clean Air Act Grant (CAA Section 105)

4) **Comprehensive Everglades Restoration Plan**

During 2012, EPA and the state of Florida reached consensus on new water quality restoration strategies for improving water quality in the Everglades. Discharge permits and consent orders issued by the Florida Department of Environmental Protection require:

- science-based stringent discharge limit for phosphorus that will result in meeting the water quality standard,
- additional 6500 acres added to one of the wetlands dedicated to phosphorus treatment (called Stormwater Treatment Areas, or STAs),
- dedication of about 110,000 acre-feet of water storage areas (flow equalization basins) that will slowly release water to the STAs in order to maximize their performance, and
- enforceable compliance schedule for \$880 million of projects with completion dates of 2018 to 2025.
- robust monitoring and research plan to confirm that the performance of all five STAs is optimized and restoration is moving forward

To assure that progress is being made and milestones are being met, the Regional Administrator for EPA Region 4 will meet twice annually with the Secretary of the Florida Department of Environmental Protection until each STA meets the phosphorus discharge limit. Technical representatives from state and federal agencies also meet at least twice annually to:

- review research,
- evaluate operation of the STAs, and
- assess water quality and progress in achieving the deadlines.

5) **RESTORE**

In July 2012, the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act (RESTORE Act) established the Gulf Coast Ecosystem Restoration Council (Council), which is comprised of governors from the five affected Gulf States, the Secretaries from the U.S. Departments of the Interior, Commerce, Agriculture, and Homeland Security as well as the Secretary of the Army and the Administrator of the U.S. Environmental Protection Agency. The Gulf States recommended and President Obama appointed the Secretary of Commerce as the Council's Chair.

The Gulf Consortium is a public entity created in October 2012 by Inter-local Agreement among Florida's 23 Gulf Coast counties, from Escambia County in the western panhandle of Florida to Monroe County on the southern tip of Florida and the United States.

Florida's 23 Gulf Coast Counties formed the Consortium to meet requirements of the RESTORE Act to develop a State Expenditure Plan for economic and environmental recovery of the Gulf coast in Florida following the Deepwater Horizon oil spill. The RESTORE Act was passed by the Congress on June 29, 2012 and signed into law on July 6, 2012 by the President.

The Consortium Board of Directors consists of one representative from each county government. As a public entity, the Consortium must meet all government transparency requirements in Florida, including open public records and meetings, ethics and state auditing obligations. Since its inception, the Consortium has met seven times and held several committee meetings to begin developing Florida's State Expenditure Plan.

To avoid duplication and to effectively utilize available resources, Florida's local governments are working in partnership with the State of Florida to fully recover the Gulf of Mexico following the Deepwater Horizon disaster. To foster the development of the State Expenditure Plan, enhance coordination and to also ensure consistency with the goals and objectives of the Gulf Coast Ecosystem Restoration Council's Draft Initial Comprehensive Plan: Restoring the Gulf Coast's Ecosystem and

Economy, the Consortium has entered into a Memorandum of Understanding with Florida Governor Rick Scott.

6) **The State of Florida Wetland Program Plan, 2013-2016, 3rd Edition February, 2013** – has been published on the US EPA Region 4 website but remains “draft.”

Florida’s Wetland Program Plan addresses all 4 elements recommended by US EPA:

- Monitoring & Assessment
- Regulation
- Voluntary Restoration & Protection
- Water Quality Standards for Wetlands

The CHNEP Management Conference certifies that the proposed work program contained in this FY17 Workplan is consistent with the above elements. (Pursuant to 40 CFR 35.9094)

GLOSSARY OF ACRONYMS

BMAP	Basin Management Action Plan
BMP	Best Management Practice
CAC	Citizens Advisory Committee
CAMA	Coastal and Aquatic Managed Areas
CCHMN	Coastal Charlotte Harbor Monitoring Network
CCMP	<i>Comprehensive Conservation and Management Plan</i>
CFRPC	Central Florida Regional Planning Council
CHEC	Charlotte Harbor Environmental Center
CHEVWQMN	Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
CHNEP	Charlotte Harbor National Estuary Program
CH-RAMP	Charlotte Harbor-Regional Ambient Monitoring Program
CWPRA	Coastal Wetlands Planning, Protection and Restoration Act
CZM	Coastal Zone Management
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FWC	Florida Fish & Wildlife Conservation Commission
FWRI	Fish and Wildlife Research Institute
GIS	Geographical Information System
GPRA	Government Performance and Results Act
HAS	Hydrological Alterations Subcommittee
HCS	Habitat Conservation Subcommittee
LID	Low Impact Development
MFL	Minimum Flows and Levels
NRCS	Natural Resources Conservation Service
NEP	National Estuary Program
NNC	Numeric Nutrient Criteria
NOAA	National Oceanic and Atmospheric Administration
NWR	National Wildlife Refuge
PR/MRWSA	Peace River/Manasota Regional Water Supply Authority
RPC	Regional Planning Council
SFWMD	South Florida Water Management District
SRPP	Strategic Regional Policy Plan
SWFWMD	Southwest Florida Water Management District
SWFRPC	Southwest Florida Regional Planning Council
SWIM	Surface Water Improvement Management
SWUCA	Southern Water Use Caution Area
TAC	Technical Advisory Committee
TBRPC	Tampa Bay Regional Planning Council
TMDL	Total Maximum Daily Load
USACOE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Service
VOHM	Volunteer Oyster Habitat Monitoring
WCIND	West Coast Inland Navigation District
WMD	Water Management District
WQ	Water Quality
WQQOS	Water Quality Quantifiable Objectives Subcommittee

February 13, 2018 - Regular Meeting
Agenda Item #32

Approved in Open Session 2/13/18,
Manatee County
Board of County Commissioners

Subject

FY 2018 Charlotte Harbor National Estuary Program Funding Agreement

Briefings

None

Contact and/or Presenter Information

Charlie Hunsicker, Director
X6001

Action Requested

Authorization for the Chairman to execute the Charlotte Harbor National Estuary Program Funding Agreement for FY 2018 between Manatee County and the City of Punta Gorda for County share of funding in the amount of \$5,000.

Enabling/Regulating Authority

FS 125

Background Discussion

On January 15, 1995, Manatee County joined with the U.S. Environmental Protection Agency Region IV, the Southwest Florida Water Management District (SWFWMD), the Florida Department of Environmental Protection (FDEP), the South Florida Water Management District, the Department of Community Affairs, the Florida Game and Freshwater Fish Commission, the Central Florida Regional Planning Council, the Southwest Florida Regional Planning Council, Peace Manasota Water Supply Authority, Lee County, Charlotte County, Sarasota County, Hardee County, Polk County, Desoto County, and the cities and towns of Bartow, Bonita Springs, Ft. Myers, Sanibel, Punta Gorda, Venice, North Port, Cape Coral, Winter Haven, Ft. Myers Beach, and Arcadia to financially participate as non-federal sponsors of the Charlotte Harbor National Estuary Program (CHNEP) to prepare products and schedules under a work plan to develop a comprehensive Conservation and Management Plan for the Charlotte Harbor Estuary and Watershed. The Southwest Florida Regional Planning Council administered the personnel and contract management compliance requirements of the program until October 1, 2014, when the host agency was changed to the City of Punta Gorda.

Manatee County's annual financial share to the program is \$5,000 based on portioned share between the members. The \$5,000 is budgeted each year in the Parks & Natural Resources budget and released under the annual funding agreement with the CHNEP through the City of Punta Gorda.

The FY 2018 Agreement and scope of work directly benefit Manatee County by environmental stewardship, wetland protection and restoration, community outreach and education activities to enhance fisheries and living resources, recreational management, tracking relevant legislation, letters of support as appropriate to legislators and policy makers, presenting the legislative agenda to State and Federal Legislative Delegations through the CHNEP study area, and public involvement activities.

County Attorney Review

Not Reviewed (Utilizes exact document or procedure approved within the last 18 months)

Explanation of Other

Reviewing Attorney

N/A

Instructions to Board Records

Return two executed originals of the agreement to Jayne Roberts, Parks & Natural Resources Department, for transmittal to the Charlotte Harbor National Estuary Program. **Distributed 2/15/18, RT**

Cost and Funds Source Account Number and Name

\$5,000 = \$1,666 - 401.0009500 (Watershed Fund) & \$3,334 - 460.0009501 (Stormwater Fund)

Amount and Frequency of Recurring Costs

One-time annually

Attachment: [CHNEP Funding Agreement FY 18.pdf](#)

Attachment: [Amended CHNEP FY 18 Workplan.pdf](#)