



Semi-annual Report: April 2022 – September 2022

The Morro Bay National Estuary Program (Estuary Program) is moving forward on completing new and ongoing tasks in the Fiscal Year (FY) 2022 workplan. All workplans are approved by the Environmental Protection Agency and the Estuary Program's Executive Committee. The budget report shows that our Section 320 expenses under the grant (Grant Number 98T25101) in the second half of the fiscal year were \$352,196. As of September 30, we have expended 76% of the 320 grant (started in FY22). The Estuary Program has met 416% of its match requirement for the cumulative grant with cash match and estimated current in-kind contributions (at approximately \$2,912,755).

The Estuary Program requests EPA's continued participation on the Executive Committee and assistance with meeting relevant administrative and programmatic grant conditions. During this reporting period, the Estuary Program continued to address the final Program Evaluation (PE) letter, which was completed at the end of FY2020.

The following report summarizes activities and deliverables completed during the semi-annual report period. As the Estuary Program does not have any subawards under this federal grant, a reporting of subaward monitoring activities carried out under 2 CRF 200.331(d) does not apply.

Habitat and Water Quality Protection and Restoration

Land Conservation

Objective: Conserve land to achieve Management Plan goals as opportunities arise.

Status: Ongoing task

Progress Toward Milestones: The Estuary Program has worked with The Land Conservancy of San Luis Obispo County (LCSLO) to explore easement projects in the watershed. Staff time was spent to develop these opportunities, conduct landowner outreach, and support LCSLO efforts. A conservation easement on a ranch in the San Bernardo Creek watershed was completed in August 2022. The project will be funded with a combination of state funding, landowner donation, and Estuary Program Restoration Fund monies in Summer 2022. The conservation easement protects 388.96 acres comprised primarily of undeveloped rangeland and open space, with oak woodlands, annual grasslands, chaparral, riparian areas, and rock outcrops. These habitats are important for numerous avian species, in particular, the golden eagle, red-tailed hawk, American kestrel, and prairie falcon. The property also serves as a corridor for the American black bear and mountain lion.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: These efforts directly support the task outcome of completing land conservation projects as opportunities arise.

Problems Encountered: None.

Deliverables: None.

Activities Planned for Next Six Months: The Estuary Program plans to coordinate with the LCSLO to continue outreach to landowners and support new easements as opportunities arise.

Pending Deliverables: Updated map tracking protected lands included in next State of the Bay report. NEPORT reporting.

Restoration Maintenance and Monitoring

Objective: Conduct maintenance and complete monitoring for conservation easements and restoration projects, as necessary.

Status: Ongoing task

Progress Toward Milestones: The Estuary Program conducted flow monitoring on Pennington Creek following a project to remove a fish passage barrier and improve a water diversion. Data are submitted to Trout Unlimited on a regular basis to manage the flow diversion and comply with water rights.

Staff conducted monitoring on an easement in the San Bernardo Creek subwatershed and submitted reporting to the funder.

The California Conservation Corps monitored success rates of plants installed at the Chorro Creek Ecological Reserve (CCER) once a quarter to meet permit requirements.

Tenera Environmental, Inc. completed eelgrass restoration site monitoring in spring 2022 at one, three, and six months depending on individual sites and when sites were planted.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The accomplished tasks directly support the outcomes of conducting easement monitoring and maintaining landowner communications. Efforts also support the outcome of meeting eelgrass restoration targets.

Problems Encountered: None.

Deliverables: Pennington Creek data submitted to the California Environmental Data Exchange Network ([CEDEN](#)) and shared with partners. Tenera Environmental Eelgrass Restoration Monitoring reports.

Activities Planned for Next Six Months: The Estuary Program plans to continue post-transplant eelgrass monitoring for the spring 2022 restoration effort. We will also work with partners to address any needed restoration maintenance.

Pending deliverables: None.

Eelgrass Restoration

Objective: Develop eelgrass restoration goals based on ongoing monitoring, restoration, and research efforts with various partners.

Status: Ongoing task

Progress Toward Milestones: The Estuary Program conducted eelgrass restoration monitoring through a Restore America's Estuaries (RAE) Coastal Watersheds Grant (CWG) to fund monitoring, research, and restoration for 2021. Funding from the US Fish & Wildlife Service (USFWS) for up to five years (starting in 2020) was used to plant two additional eelgrass restoration sites at the end of March.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Estuary Program activities under this workplan task supported the long-term outcomes, which are monitoring for results to inform future recovery actions and work toward achieving numeric targets for eelgrass. Mapping efforts for 2021 indicated that eelgrass extent has rebounded to pre-decline levels.

Deliverables: Activities documented in the Semi-annual report (see above). USFWS reports for grant funding for 2022 restoration.

Problems Encountered: None.

Activities Planned for Next Six Months: Post-transplant monitoring will continue. Staff will communicate restoration results with project partners. No further restoration is planned given that the eelgrass habitat target is now met.

Pending Deliverables: 2021 Eelgrass Report. NEPORT Habitat submittal.

Chorro Creek Ecological Reserve Restoration Phase 4

Objective: Complete implementation of the Chorro Creek Ecological Reserve Restoration Project.

Status: Ongoing task

Progress Toward Milestones: In the second half of FY22, efforts included monitoring the site for plant survival. Additional time was spent on site to replace plant cages damaged during storm events or plants that had outgrown cages.

The California Conservation Corps was providing labor and materials for planting and irrigating the site under the California State Coastal Conservancy (SCC) grant through July 2022. The SCC grant and the CDFW grant have now closed.

The post-construction work included establishing the monitoring required by the project permits. This includes the following monitoring activities:

- Frequency and extent of side channel activation: Side channel flows will be monitored with field cameras and temperature loggers on site.
- Success of native plantings: Revegetation efforts are being monitored through direct counting of plantings quarterly to track success three to five years post-implementation. There has been some reduction in planting survival, but we are still meeting permit targets three years after planting.

- Fish entrapment: Side channels will be monitored during specific flows to assess the potential for fish stranding. No known fish strandings have occurred so far.

Deliverables: Progress reports and final project report for SCC funding.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Efforts conducted under this task directly support the outcome of supporting climate ready estuary goals including floodplain restoration.

Problems Encountered: None.

Activities Planned for Next Six Months: Existing plantings continue to meet target survival requirements. Plant success monitoring will continue through Estuary Program funding for another year and a half. Post-project monitoring as required by the project permits will be conducted.

Pending Deliverables: None.

Other Restoration Efforts

Objective: Engage in other restoration efforts that arise to help achieve Management Plan goals.

Status: Ongoing task

Progress Toward Milestones: The Estuary Program participated in numerous efforts to meet Management Plan goals. These included participation in the following efforts:

- San Luis Obispo (SLO) County and Caltrans effort to replace the bridge over Los Osos Creek on South Bay Boulevard.
- Collaboration and support of Coastal San Luis Resource Conservation District (CSLRCD) restoration of their Los Osos Wetland project.
- Caltrans and SLO County effort to address two fish passage barriers on San Luisito Creek.
- Integrated Regional Water Management (IRWM) stakeholder meetings.
- Local invasive management efforts, including managing eradication of an invasive sea lavender in the estuary.
- Working with the CSLRCD on monitoring results from ice plant removal on the Morro Bay sandspit.
- Working with State Parks and Cal Poly to map sandspit vegetation to inform future ice plant removal on the sandspit.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The Estuary Program met the anticipated outputs and outcomes by staying involved in partner efforts related to the estuary as opportunities arise that support CCMP implementation and partner projects.

Deliverables: Activities described in Semi-annual report (see above).

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to continue work on the Conservation Planning Initiative and to continue to participate in the local restoration and management efforts listed above. Staff is also developing a project for a sea level rise vulnerability and adaptation strategies assessment, which would inform future management actions to protect estuarine habitat into the future.

Pending Deliverables: Final conservation planning document.

Conservation and Restoration Project Development

Objective: To develop projects and funding for conservation and restoration.

Status: Ongoing

Progress Toward Milestones: Staff continues to participate in the IRWM effort at the county level, which covers issues related to stormwater management, water supply issues, water quality issues, and potential implementation projects.

In FY19, the Estuary Program completed a grant from the Resource Legacy Fund to work with the CSLRCD to educate private landowners on conservation practices such as rotational grazing, keyline ploughing, etc. and identify potential projects. With support from the Estuary Program, CSLRCD was awarded a state grant to implement a subset of these projects. CSLRCD is also adding two stormwater/sediment reduction projects sites on Army National Guard Base Camp San Luis Obispo (Camp SLO) property to address sediment sources to Chorro Creek. With increased coordination with Camp SLO, the Estuary Program financially supported project development and full designs for another stormwater project at the facility along Calavaras Ave.

The Estuary Program partnered with the US Geological Survey (USGS) to develop a project to study tidal marsh habitats in the face of sea level rise and is seeking funding for the project.

Estuary Program staff supported SLO County planning efforts to improve the coastal access point at Pasadena Point in Los Osos. This access point is popular for launching kayaks and paddleboards from the beach. Because the access is through soft sand, users have been walking over salt marsh habitat to avoid the sand. The County is looking to improve the original access area to protect the marsh habitat from trampling. An initial grant wasn't funded but staff are considering tying in another adjacent property into a possible access and habitat improvement project in the future.

Deliverables: Activities described in this Semi-annual report (see above).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Working with partners such as the CSLRCD to provide resources to private landowners with the end goal of implementing projects to improve water quality.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to work with partners to further the progress of stormwater management and water conservation projects. The Estuary Program will work

with the CSLRCD to implement projects described above. The Estuary Program will also work with Camp SLO on stormwater implementation projects.

State Park Marina Stormwater Management Project

Objective: To implement a stormwater management project at State Park Marina.

Status: Ongoing

Progress Toward Milestones: The project is a partnership with California State Parks and California Marine Sanctuary Foundation to implement a grant from California Ocean Protection Council (OPC) for a stormwater improvement project at the Morro Bay State Park Marina parking lot. Staff developed and managed a contract to conduct pre-construction stormwater runoff monitoring. Staff worked with State Parks and other partners to make progress on the construction plans, bidding, and contracting. Construction was completed in March 2022. An educational sign describing the project was designed and installed at the site. Plans are underway for post-project stormwater monitoring at the site. Final reports for the OPC grant are under development.

Deliverables: None.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Anticipated output is installed stormwater BMPs. Anticipated outcome is improved water quality of stormwater entering the bay.

Problems Encountered: None.

Activities Planned for Next Six Months: Post-construction monitoring and end of project reporting will be conducted.

Pending Deliverables: Final completed project report. Data submitted to CEDEN.

Aquatic Invasive Species Management

Objective: To implement management actions for pikeminnow populations in an effort to improve habitat for native steelhead.

Status: New

Progress Toward Milestones: The first year of a three-year state grant was implemented in fall 2021 to conduct pikeminnow management. Permit processing, project planning, implementation (management in creek and reservoir), and reporting were completed. Planning and snorkel monitoring are underway for the fall 2022 pikeminnow management work.

Deliverables: Annual report for 2021 pikeminnow management efforts completed by Stillwater Sciences.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Anticipated output is control of the invasive pikeminnow population and a better understanding of sustainable ratios of pikeminnow to steelhead that allow for steelhead recovery.

Problems Encountered: None.

Activities Planned for Next Six Months: The California Conservation Corps and Stillwater Sciences will be conducting pikeminnow management efforts in fall 2022 and 2023.

Pending Deliverables: Annual report for 2022 pikeminnow management efforts completed by Stillwater Sciences.

Environmental Monitoring and Research

Monitoring Program Coordination

Objective: Continue coordination of the Monitoring Program and collect data that meets Quality Assurance Project Plan guidelines.

Status: Ongoing

Progress Toward Milestones: Staff conducted monitoring in the watershed and estuary to track long-term ambient trends and project implementation effectiveness. During the second half of FY22, the following occurred:

- While the COVID situation remained stable, staff continued to work with long-time volunteers to conduct monitoring to support understanding of bay and creek health. Staff and volunteers were able to conduct the following monitoring in the second half of FY22: 10 bioassessment monitoring sites, 42 monitoring trips for bay water quality, 71 for bacteria, and 143 for creek water quality.
- Staff coordinated with the California Department of Public Health and local shellfish growers on monitoring related to storm flows and bacteria. This includes monitoring bacteria in Chorro Creek and monitoring freshwater seeps along the bay to track improvements in bacteria and nitrates since the Los Osos Water Reclamation Facility has come on line.
- Staff continued long-term partnership with Cuesta College, providing lecture and class materials for an oceanography course.
- Staff began conducting bacteria monitoring in partnership with the Cuesta College Biology Department. Cuesta students have been recruited and trained to conduct the work that continues the Estuary Program's long-running ambient bacteria data set while providing monitoring and research opportunities for community college students.
- Staff monitored sites watershed-wide for nutrients every other month to track long-term trends.
- Staff monitored water quality conditions monthly at a site impacted by agricultural land use.
- Staff conducted summer low-flow monitoring to assess whether flow conditions support steelhead in the watershed. Staff also maintained a network of water depth sensors to track flows year-round.
- Staff deployed continuous monitoring sensors to measure temperature, pH, chlorophyll-a, and conductivity at watershed sites.

- Staff conducted spring bioassessment monitoring at ten sites throughout the watershed, including a new site on upper Chorro Creek.

Deliverables: A quality dataset that meets the parameters outlined in the Quality Assurance Project Plan (QAPP). Activities described in Semi-annual report (see above). Creek Health Memo for 2021. Bioassessment Memo for 2021.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities for this task involved collecting and sharing data, resulting in an increased understanding of the long-term trends in ambient water quality in the watershed and estuary.

Problems Encountered: None.

Activities Planned for Next Six Months: Expansion of volunteer involvement is planned for the fall, assuming that the public health situation allows us to safely work with new volunteers. The Estuary Program plans to conduct the following types of monitoring: creek water quality, creek and bay bacteria, bay water quality, seeps water quality, and flow.

Pending Deliverables: Creek and Bay Health memos for Water Year (WY) 2022. Sediment monitoring report for 2021. Bioassessment memo for 2022.

Monitoring Program Reporting and Analysis

Objective: Analyze data and share results with grantors, partners, local landowners, and the public.

Status: Ongoing

Progress Toward Milestones: Estuary Program staff compiled data in formats appropriate for various audiences, including academic classes, landowners, and the general public. Staff responded to requests for program-generated data. Several blog posts on monitoring-related topics were created over the year, including popular monthly “Field Updates” posts that provide a rundown of what staff have been up to in the estuary and watershed. Analysis is underway of creek and bay water quality data.

Staff completed work with a consultant to conduct California Stream Condition Index (CSCI) analysis for our 2022 bioassessment data. These scores are the metric now being used by the state and others to assess the impacts of water quality on the biota. The analysis was completed, and staff are conducting analysis with the metrics. These scores were submitted to CEDEN.

Deliverables: Activities described in Semi-annual report (see above). [Creek Health Memo 2021](#). Bioassessment Memo 2021. Example monthly bacteria memo.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities conducted under this task involved analyzing data and sharing data and results with partners, landowners, and the general public. These activities directly support the task outcome of making analysis available for others to support their own efforts to protect and restore Morro Bay and its watershed.

Problems Encountered: None.

Upcoming Activities: The Estuary Program plans to respond to requests for data, create blog posts to share data, and compile bioassessment, bacteria, and water quality data to share monitoring results.

Pending Deliverables: Sediment Report for 2021. Creek and Bay Health memos for WY 2022. Bioassessment memo for 2022.

Monitoring Program Data Management

Objective: Maintain data in Surface Water Ambient Monitoring Program (SWAMP)-compatible format.

Status: Ongoing

Progress Toward Milestones: Estuary Program staff have been preparing monitoring data and submitting to CEDEN. Staff participates in State Water Resources Control Board (SWRCB) meetings to discuss updating of CEDEN. Staff worked with the SWRCB on submittal of our bioassessment and water quality data.

Deliverable: Activities described in Semi-annual report (see above).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities such as storing and submitting data accomplished the outcome of making available to the public and state a high-quality data set that supports TMDL analysis, 303(d) assessment, land management, etc.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program will continue working with the SWRCB to upload data for WY 2022 to CEDEN.

Pending Deliverables: Submittal of WY 2022 data to CEDEN.

Monitoring Program Quality Assurance

Objective: Update and submit a Quality Assurance Project Plan (QAPP), work with reviewers to approve document, and implement necessary quality assurance measures.

Status: Ongoing

Progress Toward Milestones: The Estuary Program continues to implement the quality assurance measures contained in the QAPP to ensure data quality. Staff are reviewing the 2021 QAPP and preparing updates for a submittal later in the year. The QAPP will also be modified to incorporate monitoring projects conducted under the upcoming Bipartisan Infrastructure Law (BIL) funding agreement.

Deliverables: Activities as described in this Semi-annual report (see above).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: An accurate and up-to-date QAPP document directly supports the task outcome of producing a high-quality data set with data to support efforts throughout the watershed, including 303(d) and TMDL assessment.

Problems Encountered: None.

Activities Planned for Next Six Months: Staff will conduct the QA measures needed to ensure the quality of program-generated data. Staff will update the QAPP for 2023 and submit to EPA, the SWRCB, and the CCRWQCB.

Pending Deliverables: QAPP update for 2023.

Project Effectiveness Monitoring

Objective: Complete monitoring to show project effectiveness for various restoration projects.

Status: Ongoing

Progress Toward Milestones: Staff conducted monitoring of the freshwater seeps at the bay's edge to assess the impacts of the Los Osos Water Reclamation Facility. The Estuary Program conducted monitoring for a project on Pennington Creek to assess the impacts of a water diversion improvement project. Staff also conducted monitoring of eelgrass in the bay.

Deliverables: Activities as described in the Semi-annual report (see above).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The activities under this task support the outcome of conducting monitoring and developing analysis that informs future management and restoration efforts.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to continue monitoring the seeps. Staff will collect and share Pennington Creek flow data with Trout Unlimited. Staff will coordinate with California Polytechnic State University, San Luis Obispo (Cal Poly) researchers on future monitoring and potential publications. Staff will also communicate with project partners to share data results and coordinate efforts.

Pending Deliverable: None.

Eelgrass Monitoring and Research

Objective: Monitor eelgrass to determine its condition and distribution in the bay.

Status: Ongoing

Progress Toward Milestones: Staff coordinated with Cuesta College faculty on their eelgrass research efforts. Staff is finalizing the 2021 eelgrass report. Cal Poly flew their drone in December 2021 to collect

baywide imagery for creation of an eelgrass map. Analysis of the imagery was conducted to create a baywide eelgrass map. The map is complete, with 500 acres of eelgrass mapped in 2021. The Estuary Program is preparing a press release, talking points, and other materials for sharing the results. Planning is underway for the 2022 and 2023 mapping efforts. Our Restore America's Estuaries (RAE) Coastal Watersheds Grant (CWG) is nearing completion, with water quality research completed and final analysis underway for reporting by early 2023. Staff worked with the Office of Coastal Management to develop a lidar survey for the bay as part of the RAE CWG project. The imagery was acquired in June 2022, and the datasets will be available for analysis in fall 2022. Estuary Program staff is planning for permanent transect eelgrass monitoring in the fall, a drone flight by Cal Poly, and groundtruthing of eelgrass to support interpretation of drone images.

Deliverables: Monitoring activities documented in the Semi-annual report (see above). RAE CWG semi-annual reports.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Monitoring and planning for mapping efforts as well as working with research partners all support the outcome of better understanding eelgrass stressors and dynamics. This improved understanding directly supports the outcome of development of restoration strategies and goals.

Problems Encountered: None.

Activities Planned for Next Six Months: The 2021 eelgrass report is nearly complete and is expected to be shared this fall. Staff will coordinate with project partners to share our findings.

Pending Deliverables: 2021 Morro Bay Eelgrass Report. RAE CWG grant final report.

Partner Research Efforts

Objective: Support science partners in pursuing research efforts relevant to the goals of the Estuary Program.

Status: Ongoing

Progress Towards Milestones: Estuary Program staff coordinated and collaborated with Cal Poly, California Department of Fish & Wildlife (CDFW), the National Oceanographic and Atmospheric Administration (NOAA), Cuesta College, the Army Corps of Engineers (ACOE), the city of Morro Bay, and other project partners to research bay eelgrass and related water quality issues. Staff studied eelgrass monitoring and restoration methods in other areas and reached out to other researchers. Staff sought results of research efforts in Morro Bay and other areas on the west coast related to nutrients, macroalgae, sedimentation, ocean acidification, and other water quality data. Staff coordinated with Cal Poly on ocean acidification monitoring efforts in the bay. Staff collaborated with partners such as Cal Poly and USGS on future research efforts related to eelgrass, climate change, and marsh habitat. Staff worked with Cal Poly to complete the baywide eelgrass map from fall 2021. The Coastal Watersheds Grant, which began in spring 2021, funds Cal Poly and Estuary Program research, restoration, and monitoring efforts to better understand eelgrass and water quality conditions that help build coastal resiliency.

The Estuary Program continued supporting a neighboring watershed whose stakeholders are interested in creating a bioassessment monitoring effort. Estuary Program staff helped guide the group's spring bioassessment monitoring, conducted by Cal Poly students under the guidance of the city of San Luis Obispo. Staff assisted in development of a project and worked with partners to select sites, review equipment, and train students. This effort expanded the use of this assessment tool as well as provided data for comparison to our watershed. Regional comparative data provides useful context for Morro Bay data; in addition, the mentorship role of the Estuary Program supports existing partnerships and strengthens the reputation of the Estuary Program as a reliable provider of science in our region. The first year of a three-year effort is wrapping up, and planning is underway for year two of the project.

Research efforts conducted in the Morro Bay estuary and watershed include:

- USGS tidal marsh elevation impacts from sea level rise (SLR).
- Cal Poly research into impact of crabs on eelgrass.
- Cal Poly research on impact of brant grazing on eelgrass.
- Cal Poly research on marine mammal relationships with eelgrass.
- Cal Poly research on bay phytoplankton populations.
- Cuesta College research on impact of *Labyrinthula spp.* wasting disease on eelgrass.
- Cal Poly research on ocean acidification in Morro Bay, in partnership with Central and Northern California Ocean Observing System (CeNCOOS).

We also track research that is occurring elsewhere but is relevant to Morro Bay, including nutrient target development in Elkhorn Slough and pathogen TMDL development in Southern California.

Deliverables: Water quality data collected by Cal Poly and shared on the CeNCOOS web portal for the [front bay](#) and [back bay](#).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Coordination with research partnership efforts directly supports the task outcome of improving understanding of resources in order to better target efforts such as monitoring and restoration.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to work with Cal Poly to finalize the analysis and reporting on the CWG project. Staff will share the results of the effort with monitoring and research partners, including Cal Poly, NOAA, CDFW, USGS, EPA, the Water Board, Cuesta College, the city of San Luis Obispo, and Elkhorn Slough National Estuarine Research Reserve (NERR).

Pending Deliverables: 2021 eelgrass report, including the 2021 baywide eelgrass map from drone imagery.

State of the Bay Analysis

Objective: Analysis of trend and project effectiveness data for the triennial State of the Bay environmental report card.

Status: New

Progress Towards Milestones: Estuary Program staff gathered data and conducted analysis for the 2023 State of the Bay (SOTB) report card. Staff consulted the Water Board and other experts for support in statistics and analysis. Staff compiled all report content and worked with partners to provide review.

Deliverables: None.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Conducting analysis for the report card directly supports the task outcome of sharing the results of monitoring by the Estuary Program and its partners, with the goal of increasing education on nonpoint source pollution, climate change, restoration, etc.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to compile additional content for the online version of the report.

Pending Deliverables: 2023 SOTB report card (printed and online versions).

Public Participation, Education and Outreach

Communications

Objective: Communicate with a variety of audiences using presentations, printed materials, online presence, social media, and other venues.

Status: Ongoing

Progress Toward Milestones: Estuary Program staff regularly conducted the following communications tasks:

- Created regular blog posts that were shared via email, website, and social media. 493 subscribers receive the blog via email each week. The blog is posted on Facebook and corresponding content is posted to Instagram and LinkedIn when appropriate for the platforms. Popular blog posts have as many as 2,500 reads, not including subscribers. Updated the website to share program news and upcoming events.
- Continued to increase the number of followers on Facebook to 2,504 users. Utilized two-way communication with these users, such as recognition of rain gauge network and cleanup participants.
- Maintained an Instagram feed for the Estuary Program that currently has 2,581 followers, and a Mutts for the Bay Instagram account that currently has 76 followers.
- Maintained a LinkedIn account with 251 followers.
- Five news stories were published that covered Estuary Program-specific content and projects in the watershed.
- Updated the program website to improve security and refresh content. Worked on updating various webpages on the program website with new content and projects completed. In the second half of 2022, the program website had 51,862 web visits.

- Provided information about the impacts of marine debris and other trash and used social media and blog posts to encourage locals and visitors to participate in self-directed cleanups in the Morro Bay watershed. Participants filled out an online Trash Tracker form.

Deliverables: Blog posts published typically on a weekly basis at www.mbnep.org/blog. Website and social media statistics (see above). Relevant news stories available online and press releases submitted at www.mbnep.org/news.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The activities listed above enhanced communication with residents, visitors, and the general public. This works toward the task outcome of increasing their understanding of their roles as stewards of the estuary and encouraging behaviors that protect clean water.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to continue the communications tasks outlined above as well as starting to plan for a monthly newsletter encapsulating the Estuary Programs efforts each month, including blog posts and published reports.

Pending Deliverables: Weekly blog posts. Social media statistics included in semiannual report. News stories posted to website.

Education

Objective: Develop formal education partnerships and services and continue to maintain the Nature Center and other education efforts.

Status: Ongoing

Progress Toward Milestones: Efforts to support Education included the following:

- Maintained the Nature Center and its exhibits and had 10,921 visitors during the second half of FY22.
- Distributed marine education focused coloring book and activity book available in English and Spanish. Project is a partnership of SLO and Monterey Marine Protected Area (MPA) Collaboratives. They are available online in English at <https://www.mpacollaborative.org/project/mpa-coastal-explorer-guide-english-v2/> and in Spanish at <https://www.mpacollaborative.org/project/a-descubrir-areas-marinas-protegidas-guia-del-explorador-costero-de-california-2/>
- Provided information, feedback, and other guidance for eight undergraduate- and graduate-level student presentations focused on estuarine health and stewardship that reached 114 students.
- Trained four naturalist instructors for Camp Ocean Pines about the Morro Bay estuary and provided curriculum ideas for their students. The Estuary Program will build on this educational partnership.
- Created an educational partnership between Cal Poly and Creek Lands Conservation to develop professional development teacher training workshops. These discussions will continue in FY23.

- Continued discussions with staff from the Morro Bay State Park Natural History Museum on developing our educational partnership.

Deliverables: Fieldtrip and presentation statistics (see above in the Communications section).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The activities under this task directly support the outcome of providing formal education partnerships to share estuary-related messaging with local students.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to continue the Education tasks outlined above, including developing education partnerships.

Pending Deliverables: None.

Nature Center Update

Objective: Update the content and displays in the Nature Center.

Status: Ongoing

Progress Toward Milestones: Staff finished work on the design phase of a hands-on exhibit that teaches kids about the lifecycle of steelhead trout in the Morro Bay watershed and are moving on to the production phase this next year. Staff have changed the freshwater tank to a saltwater tank and obtained the permit required for the collection of species native to the Morro Bay estuary. When finished, this display will allow visitors to see species that are commonly found directly outside the Morro Bay Estuary Nature Center. Estuary Program staff developed posters on CCER for the Nature Center with SCC funding. Ongoing maintenance and upkeep was conducted to keep the Nature Center functioning smoothly.

Deliverables: Visitor statistics for the Nature Center (see above in the Communications section).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The updates to the Nature Center conducted as part of this task directly support the outcome of providing a learning center for the estuary that contains updated and engaging exhibits.

Problems Encountered: We are waiting to schedule a time for the species collection to take place. This delay from the diver also delays the display creation and production for the saltwater tank.

Activities Planned for Next Six Months: The Estuary Program will develop content and seek funding to update additional exhibits in the Nature Center, including plans to feature species common to the estuary in the newly updated salt water fish tank. The Estuary Program aims to develop educational programming in the Nature Center and host fieldtrips in the space. In the next six months, staff will develop a plan and seek funding for educational programming.

Other E&O Tasks/Community Partner Projects

Objective: Support outreach projects in the community that further goals of the Management Plan.

Status: Ongoing

Progress Toward Milestones: Efforts to support outreach projects in the community included:

- Continued discussions on partnering with ECOSLO to plan adopt-a-spot cleanups across San Luis Obispo County. ECOSLO will create and distribute cleanup kits to help keep marine debris out of the waters of San Luis Obispo County. The Estuary Program will be the organizational liaison for any adopt-a-spot cleanup groups formed in Morro Bay or Los Osos.
- The Estuary Program's Community Engagement Coordinator serves as a co-chair for the SLO MPA Collaborative. As the Bay Foundation acts as the applicant and grant recipient for the Collaborative, taking on this role is a logical step for our organization.
- Working with the SLO MPA Collaborative on the development and placement of interpretive and MPA regulatory signs for SLO County through the funding from the Resource Legacy Fund.
- Worked with the SLO MPA Collaborative on new interpretive panels for the Morro Bay State Park Natural History Museum.
- The Estuary Program is collaborating with the City of Morro Bay on educational and community outreach efforts to reduce the behaviors of feeding wildlife in Morro Bay.
- The Estuary Program hosted a Coastal Cleanup Day site on the Morro Bay Embarcadero through ECOSLO's Creeks to Coast Cleanup effort.

Deliverables: Outreach statistics (see above).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities conducted under this task directly support the outcome of coordinating with partner organizations on developing and sharing key messages.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program will continue working with the MPA Collaborative on installing interpretive and regulatory signs through the Resource Legacy Fund grant. We will work with ECOSLO to launch and manage the Los Osos and Morro Bay groups of adopt-a-spot cleanup crews. We will also continue to host and attend community event opportunities as they arise.

Pending Deliverables: Cleanup statistics. Event participation statistics.

Mutts for the Bay

Objective: Support pet waste management program to prevent bacterial contamination in the bay.

Status: Ongoing

Progress Toward Milestones: The Estuary Program continued its work managing the program, which included accepting and managing donations, installing and maintaining dispensers, and coordinating

volunteers. In 2018, the program received a grant from a private foundation to fund staff time and related costs for three years. In March 2021, the grant was extended and will now support the Mutts for the Bay Program through 2025. The grant also funds developing outreach materials and sharing them with pet owners. In the second half of FY22, 34 dispensers were maintained. More than 175,000 bags were given away to pet owners. These bags prevented an estimated 43,000 pounds of pet waste from reaching the estuary. The Estuary Program continued its Mutts for the Bay Instagram account (see above in Communications). The Estuary Program has established a new partnership with a local humane society animal shelter, Woods Humane Society. The Estuary Program created an education and outreach brochure to distribute at Woods Humane Society and in the Nature Center. A blog was published in the second half of FY22 about Mutts for the Bay and the impact of dog waste on water quality. An interactive map of dispenser locations and the Mutts for the Bay webpage were updated. MBNEP.org/mutts-for-the-bay

Deliverables: Mutts for the Bay program statistics (see above). [Curriculum](#) available online.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities under this task directly support the outcome of encouraging responsible behavior by pet owners to reduce bacterial loading to the estuary, thus improving water quality and protecting beneficial uses such as shellfish farming and recreation.

Problems Encountered: None.

Activities Planned for Next Six Months: Staff will continue its financial management and coordination activities to maintain the program. Staff will also continue to develop outreach materials and connect with pet owners. The partnership with Woods Humane Society will be further developed to bring Mutts for the Bay curriculum and materials to students across SLO County through the Woods Humane Society educational programming. Estuary Program staff will seek more community outreach opportunities such as tabling at the Woods Humane Society Fall Festival.

Pending Deliverables: Reporting for the private foundation grant. Outreach materials. Statistics on students reached as applicable.

State of the Bay Planning

Objective: Planning for the triennial state of the Bay report and events.

Status: New

Progress Toward Milestones: Every three years, the Estuary Program hosts a SOTB event series to share knowledge of the health of the estuary and watershed. Report design is about to begin, with planning underway for printing, potential events, and possible partnerships.

Deliverables: None.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities under this task directly support the outcome of sharing the results of monitoring by the Estuary Program and its partners, with the goal of increasing education on nonpoint source pollution, restoration, etc.

Problems Encountered: None.

Activities Planned for Next Six Months: Staff will continue planning for report production, advertisements, event coordination, etc. for the spring 2023 SOTB events.

Pending Deliverables: SOTB report, posters, advertisements, website, etc.

Program Management

Manage Committees and Build Partnerships

Objective: Hold quarterly meetings and support partnerships.

Status: Ongoing

Progress Toward Milestones: Staff compiled meeting materials and coordinated quarterly meetings of the Executive Committee (EC) throughout the year. Technical Advisory Committee (TAC) members were called on as needed for review of Community Project applications, eelgrass efforts, water quality monitoring, data analysis, pikeminnow management, and technical plans. The TAC also assisted with review of SOTB report content. Membership was updated for the EC and TACs.

Partnerships are also supported through collaborative project development and technical support. The Estuary Program continues its work on partnership projects developed and implemented in collaboration with partner organizations. These include:

- The Estuary Program conducted eelgrass monitoring and restoration under a USFWS grant awarded through the Pacific Marine and Estuarine Fish Habitat Partnership (PMEP).
- Staff served on the PMEP Science and Data Committee and attended two meetings during this time period.
- CSLRCD completed construction of a wetlands restoration project at their Los Osos Wetland property. The Estuary Program was an essential partner in this project, providing technical expertise and outreach components.
- The Estuary Program is a partner on the Santa Monica Bay National Estuary Program's vessel pump-out monitoring program, monitoring three pump-outs three times a year and providing data through a publicly-accessible app.
- The Estuary Program partnered with Cal Poly on a Coastal Watersheds Grant, which began in 2021. The work focused on eelgrass monitoring and restoration as well as research into water quality impacts of eelgrass, and the project will conclude in early 2023.
- The Estuary Program partnered with USGS to develop a project looking at tidal marshes and rising sea levels for the CWG funding.
- The Estuary Program is working with Caltrans, SLO County, and other partners to study the feasibility of removing a fish passage barrier on San Luisito Creek.
- Staff served on the California Coastal Dune Science Network Advisory Team. The organization strives to expand understanding of coastal dunes and their role in building a resilient, transitional, and adaptive coast for all future generations.

- Staff served on the Western Society of Naturalists (WSN) Diversity, Inclusion, and Equity committee.

Deliverables: Minutes, agendas, staff reports, and materials completed for each meeting. List of partnerships and project activities (see above).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The activities conducted under this task directly supported the task outcome of providing input and direction for the program and ensuring that partnerships are well supported.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to continue to coordinate quarterly meetings and work with Management Conference members. We will continue to work with the TACs to develop projects, funding, and collaborations. We will continue to partner with the CSLRCD to seek funding to implement projects developed with Resource Legacy Funding and support work at the Los Osos Wetland property.

Grants and Contracts Administration and Financial Management

Objective: Develop workplan, administer grants, and complete annual financial management tasks.

Status: Ongoing

Progress Toward Milestones: Staff worked on financial reporting, progress reports to the EPA and the Management Conference, and participation in NEP conference calls and committees. We coordinated with EPA to provide required materials for oversight of the 320 grant and managed numerous grants to the Estuary Program to support our project work. Staff managed the workplan and budget for FY22, both of which were approved by the Management Conference. Staff developed a workplan and budget for FY23 for the 320 funding, which were approved by the Management Conference. Staff also developed the budget and workplans for the FY22 and FY23 BIL funding, which were approved by the Management Conference.

Deliverables: Minority Business Enterprises-Women Business Enterprises (MBE-WBE) submitted to EPA Region 9 Grants Office. Semi-annual report for FY22 funding.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: Activities under this task directly supported the outcome of conducting grant administration and financial management tasks in a timely and accurate manner.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program will continue to implement the FY23 Workplan and complete reporting for the FY22 grant. Staff will develop the FY24 workplan and budget.

Pending Deliverables: Annual FFR and MBE-WBE. FY24 Workplan.

General Administration and Human Resources Management

Objective: Maintain accurate financial and human resources records and manage personnel.

Status: Ongoing

Progress Toward Milestones: Staff maintained the ongoing financial and administrative functions, including recordkeeping, filing, bookkeeping, and equipment and office space upkeep, as well as interacting with the general public. In addition, the Director spent time managing staff performance and workplan progress. Other HR tasks included training, professional development, recruitment, and keeping all personnel policies and procedures up to date. Staff responded to the COVID-19 situation. Protocols addressing fieldwork, staff use of the office, etc. were developed, and training was provided. COVID-19 protocols were regularly reviewed and updated based on new state and federal guidance as well as changes in local restrictions. The Estuary Program began the process of hiring a part-time Environmental Planning Intern as well as three full-time positions under BIL: a Monitoring Coordinator, an Education & Outreach Specialist, and a Restoration Coordinator.

Deliverables: Summary of task activities (see above). Bookkeeping and other recordkeeping tasks contribute to the completion of the deliverables included for the previous tasks (financial management).

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The administrative and human resources management tasks conducted in the second half of FY22 directly supported the outcome of providing the administrative support that allows the program to function smoothly so that staff can focus on attaining the goals of the organization.

Problems Encountered: None.

Activities Planned for Next Six Months: Staff will conduct all bookkeeping and recordkeeping tasks required for grant management. Staff will conduct all HR tasks including training and professional development.

Tracking Implementation of the CCMP and Workplan

Objective: Keep track of Workplan and Comprehensive Conservation and Management Plan (CCMP) implementation.

Status: Ongoing

Progress to Date: Tracked progress on CCMP implementation through biannual reports to the Executive Committee. Conducted analysis of status of CCMP Action Plans to develop a “dashboard” with implementation status for the public.

Deliverables: Semi-annual report to EPA submitted Spring 2022. Biannual Executive Committee reports.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The tasks completed directly support the outcome of conducting tracking to ensure that tasks are completed in a timely and accurate manner.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to report to the Executive Committee on Workplan progress.

Pending Deliverables: None.

Management Plan Update/Revision

Objective: Update the CCMP per EPA guidance.

Status: Ongoing

Progress Toward Milestones: Staff submitted a final version of the CCMP update, as well as the Monitoring, Communication, and Finance Plans. EPA walked the plan through its approval process, and the 2022 update has been accepted. The updated document is now available on the Estuary Program website. <https://www.mbnep.org/comprehensive-conservation-management-plan/>.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The tasks conducted directly support the outcome of working toward a Management Plan that is up-to-date, relevant, and complies with EPA's guidance.

Problems Encountered: None.

Activities Planned for Next Six Months: None. The task is now complete.

Pending Deliverables: None. The task is now complete.

Community Projects

Objective: Provide support for Community Projects that further the goals of the Management Plan and engage the community.

Status: Ongoing

Progress Toward Milestones: Ongoing Community Projects are underway, with staff working with partners to complete the efforts. Staff worked with two applicants to develop projects for FY23. Staff are gathering TAC feedback on the proposed projects, and the Management Committee will select projects for funding in FY23.

The Morro Bay Harbor Department Spill Response Program project is underway. The Harbor Department purchased approximately a four-year supply of oil absorbent pads for an exchange program with local boaters. The Estuary Program provided copies of our Clean Boating materials to distribute along with the cleanup materials.

The Camp KEEP Watershed Education Program will not be moving forward. Camp KEEP, a Kern County outdoor education organization, has been struggling with programmatic shifts due to COVID and currently lacks the capacity to implement the project. Staff will reach out at a later date to determine if Camp KEEP is interested in moving forward with any aspects of the project.

Dr. Nikki Adams of Cal Poly completed a microplastics monitoring effort in Morro Bay. Monitoring was completed and a final project report was submitted. Analysis of the data is still underway, with results to be shared later this year. Early results indicate the presence of microplastics in all three monitoring locations (front, mid, and back bay) but in amounts less than what's been measured in more heavily-populated estuaries.

Deliverables: Final report for Microplastics project.

Comparison of Actual Accomplishments with Anticipated Outputs/Outcomes: The activities conducted under this task included working with existing funding recipients and coordinating with partners to develop new projects that support CCMP goals and Action Plans. These activities directly supported these goals, thus meeting the task outcomes of developing and completing projects that meet program guidelines on community involvement and CCMP nexus.

Problems Encountered: None.

Activities Planned for Next Six Months: The Estuary Program plans to continue to work with partners on ongoing Community Projects. Staff will work the EC and TAC to review and approve projects for FY23.

Pending Deliverables: Final reports for completed Community Projects.

Lab Competency Documentation

The Estuary Program utilizes laboratories that have met the certification requirements for their technical area. During FY22, the following labs were used:

For Water Quality: We primarily use two labs, Pace Laboratories (formerly BC Laboratories) and County of SLO Public Health Laboratory. Both maintained Environmental Laboratory Accreditation Program (ELAP) certification during this time period. The certification for Pace Laboratories is available [online](#). Documentation for the county lab is [available online](#). Note that the state has been slow to update the certification status online. Staff contacted the labs to confirm that their certifications are still current.

For Bioassessment: The Estuary Program uses one lab, EcoAnalysts, Inc., for analysis of our bioassessment samples. Bioassessment labs certify their individual taxonomists rather than the lab as a whole. They provided their taxonomists' certifications. Any of the taxonomists listed could be assigned to our projects. The list of taxonomists' certifications is provided with the deliverables for this semi-annual report.

For Bay Nutrient Analysis: The University of California, Santa Barbara (UCSB) Marine Sciences Laboratory will be conducting analysis of Morro Bay waters for nutrients. Although the laboratory is not ELAP certified, it undergoes similar steps to ensure data quality. Their detailed QA manual was provided and

reviewed by Estuary Program staff, and the lab's QA activities were deemed sufficient to ensure data quality.

Budget Overview

Table 1: Costs expended during this semi-annual report period (April 1, 2022 – September 30, 2022) and cumulative since the beginning of the grant in October 2021.

Category	Subcategory	FY22 Period 320 Funds	FY22 Period Cash Match	FY22 Period TOTAL	Cumulative 320 Funds	Cumulative Cash Match	Cumulative TOTAL	
Personnel	Salaries	\$246,477	\$10,335	\$256,812	\$377,054	\$13,133	\$390,187	
	Fringe	\$22,325	\$117	\$22,442	\$34,256	\$303	\$34,559	
	Management Conference	\$0	\$0	\$0	\$0	\$0	\$0	
	<i>Subtotal</i>	\$268,802	\$10,452	\$279,254	\$411,310	\$13,436	\$424,746	
Travel	<i>(category includes local mileage)</i>	\$975	\$0	\$975	\$1,468	\$0	\$1,468	
Supplies	Software	\$1,687	\$0	\$1,687	\$1,807	\$0	\$1,807	
	Monitoring supplies	\$6,267	\$10,882	\$17,149	\$6,923	\$11,197	\$18,120	
	Misc. office supplies, computers	\$2,570	\$0	\$2,570	\$3,895	\$0	\$3,895	
	<i>Subtotal</i>	\$10,524	\$10,882	\$21,406	\$12,625	\$11,197	\$23,822	
Contractual	Audit/Taxes/Accounting/Fees	\$6,386	\$3,735	\$10,121	\$15,598	\$7,510	\$23,108	
	Education and Outreach	\$9,694	\$688	\$10,382	\$11,674	\$688	\$12,362	
	Monitoring and Research	\$5,341	\$13,176	\$18,517	\$5,972	\$18,972	\$24,944	
	Restoration and Protection	\$6,751	\$954,737	\$961,488	\$6,873	\$989,459	\$996,332	
	<i>Subtotal</i>	\$28,172	\$972,336	\$1,000,508	\$40,117	\$1,016,629	\$1,056,746	
Other	Rent	\$28,992	\$0	\$28,992	\$43,488	\$0	\$43,488	
	Utilities	\$1,581	\$0	\$1,581	\$2,173	\$0	\$2,173	
	Postage	\$162	\$0	\$162	\$220	\$0	\$220	
	Copying, Printing	\$1,084	\$0	\$1,084	\$1,617	\$0	\$1,617	
	Training, Prof. Dev.	\$1,074	\$0	\$1,074	\$2,019	\$0	\$2,019	
	Telephone, Internet	\$2,744	\$0	\$2,744	\$3,698	\$0	\$3,698	
	Repairs and Maintenance	\$4,980	\$0	\$4,980	\$8,371	\$0	\$8,371	
	Insurance	\$0	\$0	\$0	\$0	\$0	\$0	
	Vehicle maintenance, fuel	\$3,106	\$0	\$3,106	\$3,200	\$0	\$3,200	
	Community Projects	\$0	\$3,871	\$3,871	\$0	\$9,798	\$9,798	
	<i>Subtotal</i>	\$43,723	\$3,871	\$47,594	\$64,786	\$9,798	\$74,584	
		TOTAL	\$352,196	\$997,541	\$1,349,737	\$530,306	\$1,051,060	\$1,581,366

Table 2: Costs by program area and task. Match numbers do not include in-kind match.

Program Area	Project	FY22 Period 2 320 Funds	FY22 Period 2 Match	FY22 Period 2 TOTAL	FY22 Overall TOTAL
Education and Outreach	Communications	\$7,102	\$0	\$7,102	\$8,542
	Bay Friendly Recreation	\$0	\$0	\$0	\$0
	Education and Nature Center	\$1,646	\$0	\$1,646	\$2,021
	Community Volunteer Program	\$35	\$0	\$35	\$35
	State of the Bay	\$0	\$0	\$0	\$0
	Other E&O Tasks	\$911	\$688	\$1,599	\$1,764
	<i>Subtotal</i>	\$9,694	\$688	\$10,382	\$12,362
Monitoring and Research	Benthic Invertebrate Monitoring	\$1,366	\$12,494	\$13,860	\$13,860
	Stats	\$0	\$0	\$0	\$0
	Water Quality Monitoring	\$3,975	\$682	\$4,657	\$11,084
	Eelgrass Monitoring & Analysis	\$0	\$0	\$0	\$0
	<i>Subtotal</i>	\$5,341	\$13,176	\$18,517	\$24,944
Habitat Protection and Restoration	Restoration & Conservation Planning	\$1,270	\$148,500	\$149,770	\$149,770
	Eelgrass Restoration	\$0	\$0	\$0	\$0
	Chorro Creek Ecological Reserve	\$149	\$14,815	\$14,964	\$41,614
	Restoration Project Maintenance	\$0	\$0	\$0	\$65
	Other Restoration	\$5,332	\$0	\$5,332	\$5,332
	State Park Marina Stormwater Project	\$0	\$787,264	\$787,264	\$821,442
	Invasive Species Management	\$0	\$4,158	\$4,158	\$4,703
	<i>Subtotal</i>	\$6,751	\$954,737	\$961,488	\$1,022,926
Program Administration	Community Projects	\$0	\$3,871	\$3,871	\$9,798
	TOTAL	\$21,786	\$972,472	\$994,258	\$1,070,030