

Composite 5-Year Work Plan Project List A.2

| Section A.2 IRLNEP Work Plan Projects FY 2011-2012 | | | | | | |
|-----------------------------------------------------------|----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|---------------------------|
| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA 320 Funding FY 2011-2012 | Project Match | Total Project Cost |
| 1 | Indian River Lagoon National Estuary Program | DIRECT SUPPORT: High (FI-1) High (FI-2) | Support of NEP Project Office staff salaries and benefits for 2 FTEs to continue CMP implementation, work plan development and implementation, project management, contracts management, program coordination and Management Conference administration. | 187,941 | 0 | 187,941 |
| 2 | St. Johns River Water Management District | HABITAT: High (MON-1) | Indian River Lagoon Living Resources and Water Quality Monitoring. Funding will support 3 Environmental Scientist FTEs to continue the long term living resources monitoring (seagrass and biological) and water quality collection and analysis. The data from these activities generate the core information for seagrass and water quality evaluation, development and measurement of performance measures (TMDLs) and the lagoon's overall status and trends. SJRWMD will contribute \$91,980 of staff in-kind match. | 257,514 | 91,980 | 349,494 |
| 3 | Indian River Lagoon National Estuary Program | TRAINING: High (FSD-11) High (PIE-2) | Indian River Lagoon Program Education Coordinator. The Coordinator will administer the Education Program in Indian River County. Additionally, she will coordinate the activities of the IRLNEP Citizens Action Committee, organize the annual four-day lagoon summer training workshop for IRL region teachers, and coordinate the design of the annual IRL calendar photo contest. The Coordinator also produces and disseminates IRL and District information to the community at environmental educational events, brown bag lunches and public speaking events. FY10 unexpended Sec 320 funds of \$28,000 will be added to this project. | 42,000 | | 42,000 |
| 4 | University of Central Florida | LIVING RESOURCES: High (IFF-1) High (IFF-4) | Long-term ecological and genetic monitoring of exotic species in the Indian River Lagoon. The University of Central Florida (UCF) will examine three (3) recent invasive species, the charru mussel <i>Mytella charruana</i> , the green mussel <i>Perna viridis</i> and the pink barnacle <i>Megabalanus coccopoma</i> . UCF proposes to identify and characterize these exotic species, monitor their extent and potential spread, and distribute invasive species identification keys to the public and boating community to educate stakeholders about these species. This project has been ongoing since 2006 and provides a unique opportunity to investigate long-term distribution of these invasive species. UCF will contribute \$17,410 of in-kind services as match. | 19,945 | 17,410 | 37,355 |

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| 5 | Brevard Zoo | HABITAT: High (F-1) High (F-4) | Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon, Florida. The project objective is to implement and monitor the success of a scientifically-based restoration technique to restore approximately 1-acre of intertidal oyster reef of the eastern oyster <i>Crassostrea virginica</i> with damage from boating wakes. The community outreach coordinator will organize skilled volunteers to produce a minimum of 1,500 restoration mats. Project funding will also support UCF to conduct three vertical profiles of each dead margin to be leveled, organize and participate in the deployment of 1,500 restoration mats during the spring/summer of 2012. The Brevard Zoo will contribute \$50,011 of in-kind match and the SJRWMD will contribute \$55,718 in IRL License Plate funds as match. | | 105,729 | 105,729 |
| 6 | Indian River County | WATER QUALITY: High (FSD-1) | PC SOUTH - Phase 1 Algal Turf Scrubber System Design. PC South's Algal Turf Scrubber (ATS) System will treat 10 million gallons per day of polluted water from IRFWCD's South Relief Canal. The South Relief Canal flow averages 26 MGD with nutrient-rich contributions from a 12,500-acre drainage basin that is a mix of developed industrial, residential, commercial, and agricultural land. PC South's ATS will remove dissolved nitrogen and phosphorus from the canal water. A final polishing filter, similar to a wastewater treatment filter will be included in the treatment train downstream of the ATS to remove all remaining solid particles from the treated water. Initially, up to three million gallons per day of treated canal water will be disinfected and placed into a new County reuse water system. The remaining water will be returned to the South Relief Canal where it will continue its journey to the Indian River Lagoon. Indian River County will contribute \$120,621 towards the design. | 11,349 | 130,645 | 141,994 |
| 7 | St. Lucie County | HABITAT: High (W-5) | Connecting St. Lucie Wetlands to the IRL. This project will restore tidal flow into a 178-acre impounded wetland known as Impoundment 14C, to the IRL by installing a pump station and four culverts with floodgates into the perimeter dike. Restoration of this impounded wetland will provide additional habitat, foraging grounds, and water quality improvements in the adjacent surface waters. | 7,250 | 7,000 | 14,250 |
| 8 | Marine Discovery Center | TRAINING: High (MON-2) High (PIE-4) | Volusia County Adopt-An-Estuary Project - Year Two Implementation. This project will continue the current Adopt an Estuary Program that was funded with 2010-11, building on the protocols created and will also include the addition of biological monitoring. The goals of the project are to: 1) collect baseline estuary health data 2) educate and train schoolchildren and citizens to monitor and protect estuaries 3) increase public awareness about estuary issues and water quality health 4) Maintain a website portal where citizens can easily access estuary information and data. | 45,000 | 30,555 | 75,555 |

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| 9 | Martin County School Board | TRAINING: High (PIE-1) High (PIE-4) | Martin County Schools' Environmental Studies Center Camp WET 2012. The project will provide three, two-week sessions of academic summer camp for a total of 156 students using a hands-on field based curriculum. The project will employ proven instructional methods to engage the students and motivate them to make positive behavior changes as well as share their concern for and knowledge of the Indian River Lagoon with others. | 23,056 | 22,200 | 45,256 |
| 10 | Florida Institute of Technology | TRAINING: High (PIE-1) | Operational Support for the SEAS Mobile Laboratory and Weather Monitoring. This project will continue to increase public awareness of lagoon priority issues as part of the InSTEP NSF education program. The Integrated Science Teaching Enhancement Partnership (InSTEP) is designed to foster student interest in science content and inquiry-based instruction. The SEAS Mobile Lab is used to support educational activities in field studies and promote ocean literacy at public events throughout the IRL watershed. SJRWMD is contributing \$9,970 in IRL License Plate and FIT is contributing \$9,970 of in-kind match. | | 19,940 | 19,940 |
| 11 | Florida Department of Environmental Protection Aquatic Preserves Program | HABITAT: High (BD-10) | Indian River Lagoon Shoreline Restoration. FDEP's IRL Aquatic Preserves Field Office will continue to coordinate the 16-year, grant-funded IRL Shoreline project to stabilize publicly-owned shorelines impacted by wave energy to limit erosion, sedimentation and enhance habitat, while facilitating environmental awareness and stewardship. The SJRWMD will provide \$47,040 in IRL License Plate and FDEP will provide \$56,330 in in-kind services as match. | | 103,370 | 103,370 |
| 12 | Smithsonian Marine Station | TRAINING: High (PIE-1) | Indian River Lagoon Species Web-Based Education Tool. The Smithsonian will continue the successful expansion of the species web site focusing on IRL invertebrates, designing a new introductory web page and continue to update the IRL Photo Gallery. The SJRWMD will contribute \$22,961 in IRL License Plate funds and Smithsonian will contribute \$9,534 in in-kind services as match. | | 32,471 | 32,471 |
| 13 | Brevard Zoo | TRAINING: High (PIE-1) | Lagoon Quest. Brevard Zoo will continue the successful Lagoon Quest Program to integrate the rich real-life experience with 4 th grade curriculum using the rich environmental resources of the IRL. This program is designed to get students, teachers and families involved through a variety of activities including native shoreline restoration plantings. The SJRWMD will provide \$24,000 in IRL License Plate and the Zoo will contribute \$13,500 in in-kind services. | | 37,500 | 37,500 |
| 14 | Indian River Lagoon National Estuary Program | DIRECT ASSISTANCE: High (FI-1) | Program Operation Costs | 4,745 | | 4,745 |
| Totals | | | | 598,800 | 598,800 | 1,197,600 |

Section A.2.A IRLNEP Work Plan Projects FY2010-2011 Unexpended Carry-Forward

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| 3 | Indian River Lagoon National Estuary Program | High (FSD-11) High (PIE-2) | Indian River Lagoon Program Education Coordinator. The Coordinator will administer the Education Program in Indian River County. Additionally, she will coordinate the activities of the IRLNEP Citizens Action Committee, organize the annual four-day lagoon summer training workshop for IRL region teachers, and coordinate the design of the annual IRL calendar photo contest. The Coordinator also produces and disseminates IRL and District information to the community at environmental educational events, brown bag lunches and public speaking events. FY10 unexpended Sec 320 funds of \$28,000 will be added to this project. | 28,000 | 0 | 28,000 |
| 15 | Cape Canaveral Scientific, Inc. | High (FSD-13) High (FSD-14) | Grants Writer & Capacity Building in Support of the IRL CCMP. This project assists local governments in meeting the challenges of financing CCMP implementation projects, and will pay for 5-grant applications during the year. The 13 th year of support for this project continues to demonstrate the need of local governments to collaborate with state and federal agencies on implementation activities. Many local governments have used the service to fund capital improvement projects to implement CCMP action plans. | 47,855 | 17,500 | 65,355 |
| 7 | St. Lucie County | High (W-5) | Connecting St. Lucie Wetlands to the IRL. This project will restore tidal flow into a 178-acre impounded wetland known as Impoundment 14C, to the IRL by installing a pump station and four culverts with floodgates into the perimeter dike. Restoration of this impounded wetland will provide additional habitat, foraging grounds, and water quality improvements in the adjacent surface waters. | 5,668 | 28,274 | 33,942 |
| 6 | Indian River County | High (FSD-1) | PC SOUTH - Phase 1 Algal Turf Scrubber System Design. PC South's Algal Turf Scrubber (ATS) System will treat 10 million gallons per day of polluted water from IRFWCD's South Relief Canal. The South Relief Canal flow averages 26 MGD with nutrient-rich contributions from a 12,500-acre drainage basin that is a mix of developed industrial, residential, commercial, and agricultural land. PC South's ATS will remove dissolved nitrogen and phosphorus from the canal water. This funding is \$44,446 in IRL License Plate and an additional \$2,803 in Indian River County match. | 0 | 47,249 | 47,249 |
| 14 | Indian River Lagoon National Estuary Program | High (FI-1) | Program Operation Costs | 11,500 | | 11,500 |
| Totals | | | | 93,023 | 93,023 | 186,046 |

Section A.2 IRLNEP Work Plan Projects FY 2012-2013

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA320 Funding FY 2012-2013 | Project Partner Match | Total Project Cost |
|----------|----------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------|
| 1 | Indian River Lagoon National Estuary Program | DIRECT ASSISTANCE (CCMP): High (FI-1) High (FI-2) | Support of NEP Project Office staff salaries and benefits for 2 FTEs to continue CCMP implementation, work plan development and implementation, project management, contracts management, program coordination and Management Conference administration. | 189,311 | | 189,311 |
| 2 | St. Johns River Water Management District | WATER QUALITY: High (MON-1) | Indian River Lagoon Living Resources and Water Quality Monitoring. Funding will support 3 Environmental Scientist FTEs to continue the long term living resources monitoring (seagrass and biological) and water quality collection and analysis. The data from these activities generate the core information for seagrass and water quality evaluation, development and measurement of performance measures (TMDLs) and the lagoon's overall status and trends. SJRWMD will contribute \$121,715 of staff in-kind match. | 259,001 | 121,715 | 380,716 |
| 3 | Indian River Lagoon National Estuary Program | TRAINING: High (FSD-11) High (PIE-2) | Indian River Lagoon Program Education Coordinator. The Coordinator will administer the Education Program and will coordinate the activities of the IRLNEP Citizens Action Committee, organize the annual four-day lagoon summer training workshop for IRL region teachers, and coordinate the design of the annual IRL calendar photo contest. The Coordinator also produces and disseminates IRL and District information to the community at environmental educational events, brown bag lunches and public speaking events. | 70,000 | | 70,000 |
| 4 | Cape Canaveral Scientific, Inc. | DIRECT ASSISTANCE: High (FSD-13) High (FSD-14) | 2012 Grant Writing & Capacity Building in Support of the IRL CCMP. This project assists local governments in meeting the challenges of financing CCMP implementation projects, and will pay for 3-grant applications during the year. The 14th year of support for this project continues to demonstrate the need of local governments to collaborate with state and federal agencies on implementation activities. Many local governments have used the service to fund capital improvement projects to implement CCMP action plans. | 30,000 | 6,000 | 36,000 |
| 5 | Pelican Island NWR Complex | HABITAT: High (SG-1) | Pelican Island Proper Restoration Phase IV Pilot Survey. Pelican Island National Wildlife Refuge is located east of Sebastian, Florida in the barrier islands between Sebastian Inlet and the Wabasso Causeway within the Indian River Lagoon. The project will inventory, map and monitor the existing seagrass beds located in the adjacent area of Pelican Island Proper to inform a Phase IV restoration effort. | 19,300 | 13,099 | 32,399 |
| 6 | Nova Southeastern University | LIVING RESOURCES: High (TMDL-1) High (SG-1) | Indian River Lagoon Survey of Drift Algae Distribution and Abundance. This project will survey macroalgae (drift algae) abundance at key locations in the mainstem of the north and central Indian River Lagoon (IRL) and selected areas within the Banana River. | 18,250 | 13,750 | 32,000 |
| 7 | Fellsmere City | WATER QUALITY: High (FSD-13) High (FSD-14) | Historic Fellsmere Storm water and Flood Control Master Plan. The project seeks the Development of a Stormwater and Flood Control Master Plan to include tasks associated with data collection and analysis using accepted methodologies, identification of specific stormwater and flood control projects, creation of an implementation schedule and cost estimates, public education and outreach, and regulatory controls. | 9,995 | 10,240 | 20,235 |
| 8 | Brevard County | WATER QUALITY: High (FSD-1) High (FSD-4) | Installation of a Floating Vegetative Island to Uptake Nutrients Combined with A Cooperative and Comprehensive Education and Outreach Program. This project consists of a treatment train of both structural and non-structural (educational) stormwater BMPs utilizing an existing stormwater treatment pond as an anchoring BMP. A floating vegetative island will be installed in the pond, sized to the recommended 5% of surface area of the pond, then harvested in approximately one year's time and analyzed for nutrient content in the plant tissue. | | 61,109 | 61,109 |
| 9 | Florida Department of Environmental Protection IRL Aquatic Preserves | HABITAT: High (W-5) High (W-6) | Indian River Lagoon Shoreline Restoration Project. The goal of the Shoreline Restoration Project (SRP) from 1995-2011 has been to re-establish fringing mangrove habitat on public shorelines along the Indian River Lagoon (IRL), while promoting public education and awareness of mangrove habitat and its ecosystem benefits. | | 94,573 | 94,573 |
| 10 | The Brevard Zoo | HABITAT: High (F-1) High (PIE-4) | Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon. The project objective is to implement and monitor the success of a scientifically-based restoration technique to restore approximately 1 acre of intertidal oyster reef of the eastern oyster <i>Crassostrea virginica</i> with significant damage from wakes from recreational vessels. | | 124,400 | 124,400 |

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| 11 | University of Central Florida | HABITAT: High (W-5) High (W-6) | Turtle Mound National Historic Site Shoreline Stabilization, Phase II: Protection from Erosion and Climate Change Using Science-Based Living Shoreline. This project continued the successful methods of living shoreline stabilization along an additional 80 meters of Turtle Mound shoreline using: 1) approximately 600 mangrove seedlings (red + black mangroves), 2) <i>Spartina alterniflora</i> to create a meter wide band in the intertidal zone, and 3) approximately eight-hundred 0.5 X 0.5 meter square oyster restoration mats seaward of the plants. One meter long shell bags will be used as needed for additional stabilization. | | 68,481 | 68,481 |
| 12 | Jane Schnee | LIVING RESOURCES: High (BD-2) High (ETS-3) | Protect and restore imperiled scrub habitat to preserve threatened and endemic species within the Indian River Lagoon Region. Approximately 3 acres of cleared land needs to be re-planted with scrub oaks and other scrub plants to restore it to its original habitat. Non-native grasses growing in this section will be removed at the time of planting. At least 250 trees, consisting primarily of Myrtle Oak, Chapman Oak and Sand Live Oak, will be planted by volunteers, to restore scrub <i>lav</i> habitat. | | 1,300 | 1,300 |
| 13 | Palm Bay City | TRAINING: High (FSD-11) High (PIE-1) | Rain Garden Workshops and Demonstration Gardens. This project will develop a comprehensive Rain Garden Workshop Program that includes demonstration Rain Gardens to teach our citizens not only the importance of rain water harvesting for stormwater pollution prevention, but also for ground water recharge. Workshop participants will view a narrated power point presentation developed and presented, solely for the Indian River Lagoon Watershed, by local experts. | | 30,000 | 30,000 |
| 14 | Melbourne City | HABITAT: High (W-5) High (PIE-1) | Restoring the Indian River Lagoon Shoreline. This project will remove three acres of invasive plant species like Brazilian Pepper that displace habitat for marine and terrestrial species, and provide unsuitable food and habitat for native animals. 5,000 Mangroves and other shoreline natives will be planted to trap sediment and filter pollution, providing water quality benefits that directly enhance adjacent sea grass coverage. | | 52,500 | 52,500 |
| 15 | Indian River Lagoon National Estuary Program | DIRECT ASSISTANCE: High (FI-1) | Program Operation Costs | 1,310 | | 1,310 |
| 16 | The Balmoral Institute | WATER QUALITY: High (TMDL-3) | Prioritizing TMDLs using seagrass habitat vulnerability to sea level rise. This project will provide an ecosystem management tool to enhance the probability of successfully restoring the IRL by helping to prioritize the allocation of management resources to the achieve TMDLs in light of additional impacts resulting from sea level rise. | 20,000 | 20,000 | 40,000 |
| TOTALS | | | | 617,167 | 617,167 | 1,234,334 |

Section A.2.A IRLNEP Work Plan Projects FY 2011-2012 Unexpended Carry-Forward

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA320 Funding FY 2011-2012 | Project Partner Match | Total Project Cost |
|---------------|----------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------|
| 7 | Fellsmere City | High (FSD-13) High (FSD-14) | Historic Fellsmere Storm water and Flood Control Master Plan. The project seeks the Development of a Stormwater and Flood Control Master Plan to include tasks associated with data collection and analysis using accepted methodologies, identification of specific stormwater and flood control projects, creation of an implementation schedule and cost estimates, public education and outreach, and regulatory controls. | 10,255 | 18,260 | 28,515 |
| 15 | Indian River Lagoon National Estuary Program | High (FI-1) | Program Operation Costs | 8,005 | | 8,005 |
| TOTALS | | | | 18,260 | 18,260 | 36,520 |

Section A.2 IRLNEP Work Plan Projects FY 2013-2014

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA320 Funding FY 2013-2014 | Project Partner Match | Total Project Cost |
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| 1 | St. Johns River Water Management District | LIVING RESOURCES: High (SG-1) | Support of the Indian River Lagoon Protection Initiative. This project will provide a better understanding of the Indian River Lagoon (IRL) system's complex, multi-leveled trophic structure, the possible causes for change, and how to protect a trophic structure that serves as the sustainable foundation for one of the most diverse estuaries in North America. The Initiative is scoped for at least 3 years; with all Initiative project elements phased in by the end of FY2013/14. | 206,999 | 14,629 | 221,628 |
| 2 | St. Johns River Water Management District | WATER QUALITY: High (MON-1) Medium (AD-1) | Indian River Lagoon Living Resources and Water Quality Monitoring. Funding will support the continued long term living resources monitoring (seagrass and biological) and water quality collection and analysis. The data from these activities generate the core information for seagrass and water quality evaluation, development and measurement of performance measures (TMDLs) and the lagoon's overall status and trends. | 44,722 | | 44,722 |
| 3 | Indian River Lagoon National Estuary Program | TRAINING: High (FSD-11) High (PIE-2) | Indian River Lagoon Program Education Coordinator. The Coordinator will administer the Education Program and will coordinate the activities of the IRLNEP Citizens Action Committee, organize the annual four-day lagoon summer training workshop for IRL region teachers, and coordinate the design of the annual IRL calendar photo contest. The Coordinator also produces and disseminates IRL and District information to the community at environmental educational events, brown bag lunches and public speaking events. | 70,000 | | 70,000 |
| 4 | Cape Canaveral Scientific, Inc. | DIRECT ASSISTANCE: High (FSD-13) High (FSD-14) | 2013 Grant Writing & Capacity Building in Support of the IRL CCMP. This project assists local governments in meeting the challenges of financing CCMP implementation projects, and will pay for 5-grant applications during the year. The 15th year of support for this project continues to demonstrate the need of local governments to collaborate with state and federal agencies on implementation activities. Many local governments have used this service to fund capital improvement projects to implement CCMP action plans. | 50,000 | 15,000 | 65,000 |
| 5 | St. Lucie County | TRAINING: High (FSD-11) High (PIE-1) | "The Lagoon and You" Resource Education Program. The goal of the program is to educate St. Lucie County youth and their families about the diversity and importance of the Indian River Lagoon (IRL) and the effect of their footprint, through an educational and interactive program. The target audience is approximately 7,000 3rd -5th grade age students and their families. | 10,009 | 23,288 | 33,297 |
| 6 | Smithsonian Marine Station | LIVING RESOURCES: High (PIE-1) High (PIE-4) | The Indian River Lagoon Species Inventory. The project will accomplish the following: Verify and update the taxonomic classification of all organisms presently documented in the Indian River Lagoon Species Inventory and amend each species with information on the authoritative source that initially documented the species in the IRL; make accessible and share available informational content (taxonomic, ecological, pictorial) on IRL organisms in the inventory with the Encyclopedia of Life (EOL) (http://eol.org); conduct teacher training and distribute informational brochures to increase awareness and understanding of the IRL Species Inventory and the Encyclopedia of Life; construct an expandable pictorial guide of IRL species that will link 500 thumbnails of IRL organisms with an enlarged view and taxonomic information and respective species narrative when available; update the Indian River Lagoon Species Inventory website - Phase 1; compile a new section, accessible from the IRL Species Inventory homepage, that will address the potential ramifications of climate change on the IRL; update the Indian River Lagoon Photo Gallery posted on the IRL Species Inventory Website. | 22,940 | 9,383 | 32,323 |

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| 7 | Harbor Branch Oceanographic Institute | WATER QUALITY: High (OSDS-3) High (FSD-10) | Sources of Nitrogen and Phosphorus Inputs to the Indian River Lagoon. Funds from IRL NEP will be used to measure concentrations of dissolved inorganic nitrogen (DIN = ammonium and nitrate), soluble reactive phosphorus (SRP), and stable isotopes (aqueous $\delta^{15}\text{N}$ of ammonium and nitrate) in stormwater emanating from the agricultural, natural forested, and high-density residential landscapes (n=20) during six major rain events during the 2013 wet season. | 24,840 | 16,861 | 41,701 |
| 8 | Florida Institute of Technology | WATER QUALITY: High (FSD-4) High (FSD-10) | Collection of Fertilizer Nutrient Loading Data To Scientifically Determine if the Establishment of Restrictive Residential Fertilizer Ordinances by Local Governments in the IRL Drainage Basin (Part II) is Needed. This combined St. Lucie River Issues Team/IRLNEP study will focus on collecting data that will scientifically monitor the nutrient loadings of residential fertilizer applications on lagoon water quality. The data from this investigation may be used by local governments in the IRL drainage basin to justify ordinance changes such as the restriction or ban of quick release fertilizer application, restriction or ban of any fertilizer application in the wet season (June 1—Sept. 30), and the banning of Phosphorus fertilizer altogether, if the data supports these activities. | 20,000 | 56,000 | 76,000 |
| 9 | The Balmoral Institute | HABITAT: High (TMDL-3) Medium (CC-2) | Modeling IRL Seagrass Restoration Success and Long-Term Sustainability Under Changing Conditions of Water Quality and Sea Level Rise: Phase II. The goal of this project is to model the change in IRL seagrass habitat distribution and extent triggered by rising sea level and concomitant shoreline migration into adjacent undeveloped areas. These data will be combined with the results of a 2012 Climate Ready Estuaries Project to generate an enhanced management tool designed to facilitate the successful restoration and long term sustainability of the IRL estuarine ecosystem. | 20,500 | 7,750 | 28,250 |
| 10 | Martin County Schools' Environmental Studies Center | TRAINING: High (PIE-1) High (PIE-4) | Camp WET 2014. The project will provide three two-week sessions of academic summer camp for a total of 156 students using a hands-on field based curriculum implemented by two Florida certified teachers. Four high school students will be employed as Counselors to assist the teachers and serve as team captains and cheerleaders for student teams. The project will employ proven instructional methods which will engage the participants and motivate them to make positive behavior changes as well as share their concern for and knowledge of the Indian River Lagoon with others. | 21,090 | 40,400 | 61,490 |
| 11 | The Brevard Zoo | HABITAT: High (F-1) High (PIE-4) | Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon. The project objective is to implement and monitor the success of a scientifically-based restoration technique to restore approximately 1 acre of intertidal oyster reef of the eastern oyster <i>Crassostrea virginica</i> damaged by wakes from recreational vessels. | | 131,350 | 131,350 |

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| 12 | Florida Department of Environmental Protection IRL Aquatic Preserves | HABITAT: High (W-5) High (W-6) | Indian River Lagoon Shoreline Restoration Project. The goal of the Shoreline Restoration Project (SRP) from 1995-2012 has been to re-establish fringing mangrove habitat on public shorelines along the Indian River Lagoon (IRL), while promoting public education and awareness of mangrove habitat and its ecosystem benefits. | | 97,199 | 97,199 |
| 13 | Marine Discovery Center | HABITAT: High (W-6) | Oyster Recycling Project. This project will develop and implement a pilot program to recycle restaurant-produced oyster shell waste that is currently going to the landfill and redirect material to a central collection point. Shell will be utilized to construct oyster-based structural materials and be deployed to support regional shoreline habitat "Living Shoreline". This project will provide free shell to volunteer groups currently paying for their shell including the "Oyster Reef Restoration Project" at the Brevard Zoo. | | 52,640 | 52,640 |
| 14 | City of Palm Bay | WATER QUALITY: High (FSD-1) High (FSD-4) | Port Malabar Unit 1 Inlet Inserts. This project will install inlet inserts to capture sediment and floatables from stormwater runoff within the watersheds of Florin Avenue and Port Malabar Boulevard. | | 19,000 | 19,000 |
| 15 | Indian River Lagoon National Estuary Program | LIVING RESOURCES High (FI-2) | State of the Lagoon Report - This product will provide an update on the current water quality and habitat conditions in the lagoon, projects implemented by the NEP and partners and future efforts to protect and restore the estuary. | | 8,500 | 8,500 |
| 16 | Canaveral Port Authority | LIVING RESOURCES: High (IFF-2) High (PIE-4) | Canaveral Inlet Lionfish Battle Plan. Lionfish are an emerging threat along the east-central Florida shoreline. Lionfish survey/cull in Canaveral Inlet will provide key data for lionfish invasive impacts and serve as an initial lionfish reduction program. This timely project will provide valuable information in response to the Florida Fish and Wildlife Conservation Commission request for assessments/research for development of an IRL system-wide eradication/control program. | | 20,000 | 20,000 |
| 17 | Indian River Lagoon National Estuary Program | DIRECT ASSISTANCE CCMP: High (FI-1) High (FI-2) | Program Operation Costs. Travel, legal advertising, printing, office supplies, field equipment and tools, IRL web page. | 20,900 | | 20,900 |
| TOTALS | | | | | 512,000 | 512,000 |

Section A.2.A IRLNEP Work Plan Projects FY 2012-2013 Unexpended Carry-Forward

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA320 Funding FY 2012-2013 | Project Partner Match | Total Project Cost |
|---------------|------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------|
| 5 | St. Lucie County | High (FSD-11) High (PIE-1) | "The Lagoon and You" Resource Education Program. The goal of the program is to educate St. Lucie County youth and their families about the diversity and importance of the Indian River Lagoon (IRL) and the effect of their footprint, through an educational and interactive program. The target audience is approximately 7,000 3rd -5th grade age students and their families. | 26,991 | 26,991 | 53,982 |
| TOTALS | | | | 26,991 | 26,991 | 53,982 |

Section A.2 IRLNEP Work Plan Projects FY 2014-2015

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA320 Funding FY 2014-2015 | Project Partner Match | Total Project Cost |
|----------|----------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------|
| 1 | Indian River Lagoon National Estuary Program | TRAINING: High (FSD-11) High (PIE-2) | Indian River Lagoon Program Education Coordinator & Communication Plan. The Coordinator will administer the Education Program and the IRLNEP Communication Plan, will coordinate the activities of the IRLNEP Citizens Action Committee, organize the annual four-day lagoon summer training workshop for IRL region teachers, and coordinate the design of the annual IRL calendar photo contest. The Coordinator also produces and disseminates IRL and District information to the community at environmental educational events, brown bag lunches and public speaking events. | 82,000 | | 82,000 |
| 2 | Cape Canaveral Scientific, Inc. | DIRECT SUPPORT: High (FSD-13) High (FSD-14) | Cape Canaveral Scientific Inc. 2014-2015 Grant Writing to Implement the IRLCCMP. This project assists local governments in meeting the challenges of financing CCMP implementation projects, and will pay for 5-grant applications during the year. The 16th year of support for this project continues to demonstrate the need of local governments to collaborate with state and federal agencies on implementation activities. Many local governments have used this service to fund capital improvement projects to implement CCMP action plans. | 50,000 | 13,750 | 63,750 |
| 3 | University of Central Florida | HABITAT: High (F-1) High (PIE-4) | Community-Based Living Shoreline Stabilization in Oak Hill, FL. The goals of this project are to reduce erosion and improve shoreline habitat at Sunrise Park in Oak Hill by constructing a living shoreline along 110 m of Mosquito Lagoon shoreline, and to engage the local community through education and outreach during the shoreline restoration. | 29,566 | 54,545 | 84,111 |
| 4 | Florida Department of Environmental Protection, IRL Aquatic Preserve | HABITAT: High (W-5) High (W-6) | Indian River Lagoon Shoreline Restoration Project. The goal of the Shoreline Restoration Project from 1995-2013 has been to re-establish fringing mangrove habitat on public shorelines along the Indian River Lagoon, while promoting public education and awareness of mangrove habitat and its ecosystem benefits. | 35,910 | 67,897 | 103,807 |
| 5 | Martin County | HABITAT: High (W-6) High (W-7) | Indian RiverSide Park Living Shoreline. This project will restore 200 feet of living shoreline at Indian RiverSide Park along the western shore of the Indian River Lagoon. Through a series of volunteer workdays trash and litter will be removed, oyster bags will be filled and deployed, concrete reef modules will be constructed and deployed, and native vegetation will be planted. These efforts will combine to increase the available habitat, to provide additional vertical relief, and to help bind the substrate. | 15,000 | 15,000 | 30,000 |
| 6 | The Brevard Zoo | HABITAT: High (F-1) High (PIE-4) | Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon. Project goals are to increase the number of live oysters (<i>Crassostrea virginica</i>) in the Indian River Lagoon for filtration, denitrification, biodiversity protection, and substrate stabilization by continuing, and potentially completing, the scientifically-based and proven intertidal reef restoration ongoing in northern Mosquito Lagoon (Volusia County). Also, the Zoo will begin testing new methods to determine if oyster habitat can be created in areas in Brevard County where oysters are not currently present. | 41,035 | 102,410 | 143,445 |
| 7 | Florida Fish and wildlife Conservation Commission | LIVING RESOURCES: High (MON-1) High (IFF-1) | Molecular Tool Development and Implementation to Advance Monitoring of Pico- and Nano-Planktonic Algae in the Indian River Lagoon. The project goal is to develop tools to rapidly detect and quantify pico- and nano-planktonic algae responsible for harmful algal blooms in the Indian River Lagoon. | 49,769 | 48,960 | 98,729 |
| 8 | City of Cocoa Beach | WATER QUALITY: High (FSD-1) High (TMDL-1) | Minutemen Streetscape and Stormwater Improvement. This project has several goals: reduce storm runoff and nutrient loading to the Banana River Lagoon; protect groundwater resources through low impact development (LID) methods and nutrient sorption media; comply with City's adopted BRLBMAP, this project is # 1 in first 5-year cycle; and to monitor LID and sorption media performance, then share results with lagoon stakeholders, EPA/FDEP and stormwater community at large. | 35,000 | 92,508 | 127,508 |
| 9 | Florida Institute of Technology | WATER QUALITY: High (F-3) Medium (FSD-6) | Development of Bioremediation and Habitat Restoration Platforms to Improve Lagoon Water Quality, Restore Seagrasses, and Rebuild Bivalve Populations. The goals of this project are to develop and test prototype designs for floating bio-remediation and restoration platforms to improve water quality around areas with high nutrient input or sediment resuspension and in areas targeted for habitat restoration. | 65,674 | 35,641 | 101,315 |
| 10 | Marine Resources Council | TRAINING: High (PIE-1) High (PIE-2) | Lagoon Life Savers: Working Together to Save the Indian River Lagoon. The goals of this project are: to launch Lagoon Leader Business Program to train business and industry leaders to adopt water pollution prevention and energy conservation best management practices; to launch Lagoon Lifesavers Education Corps Program Training Module; and hold MRC's 15th American Assembly Focused on Priority Actions. | 51,110 | 27,500 | 78,610 |

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| 11 | Indian River Shores | WATER QUALITY: High (PS-1), Medium (PS-2), High (FSD-1), High (FSD-10) | Indian River Shores Seminole Lane Stormwater Baffle Box. The goal of this project is to substantially improve the quality of stormwater currently being released to the Indian River Lagoon from the Town's stormwater drainage system at Indian Lane through the installation of a Generation II Nutrient Separating Baffle Box. | 65,211 | 79,789 | 145,000 |
| 12 | Indian River Lagoon National Estuary Program | DIRECT SUPPORT: High (PIE-1) High (PIE-4) | Event & Conference Sponsorship: IRL Symposium \$2,500, American Assembly \$2,500, IRL Envirothon \$1,200 | 6,200 | | 6,200 |
| 13 | Indian River Lagoon National Estuary Program | DIRECT SUPPORT: High (FI-1) High (FI-2) | Program Operation Costs: Travel \$7,500; Legal Advertising \$500; Printing \$2,100; Office Supplies \$425; Field Equipment & Tools \$1,000 | 11,525 | | 11,525 |
| Totals | | | | 538,000 | 538,000 | 1,076,000 |

Section A.2 IRLNEP Work Plan Projects FY 2015-2016

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | CWA320 Funding FY 2015-2016 | Project Partner Match | Total Project Cost |
|----------|----------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------|
| 1 | Marine Resources Council | TRAINING: High (FSD-11) High (PIE-2) | Indian River Lagoon Program Education Coordination. A contractor will administer the Education Program, organize the annual four-day lagoon summer training workshop for IRL region teachers, and coordinate the design of the annual IRL calendar photo contest. The Coordinator also disseminates IRL information to the community at environmental educational events, brown bag lunches and public speaking events. | 69,192 | 0 | 69,192 |
| 2 | The Brevard Zoo | HABITAT: High (F-1) High (F-3) | Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in the Indian River Lagoon. Project goal is to increase the number of live oysters (<i>Crassostrea virginica</i>) in the Indian River Lagoon for filtration, denitrification, biodiversity protection, and substrate stabilization. This will be accomplished in two ways. First, the Zoo will continue, and potentially complete, their scientifically-based and proven intertidal reef restoration methods in Mosquito Lagoon (Volusia County). Second, the Zoo will begin testing new methods to determine if oyster habitat can be created in areas in Brevard County where oysters are not currently present. | 69,375 | 71,770 | 141,145 |
| 3 | University of Central Florida | HABITAT: High (F-4) High (PIE-4) | Preparing Titusville for the Future: Developing a Shoreline Management Plan and Constructing a Shoreline Restoration Pilot Project. The University of Central Florida will help the City of Titusville begin development of a Shoreline Management Plan, with living shorelines as its central theme, and construct a demonstration site at a City-owned park. The Plan will be used to identify and implement environmental enhancement opportunities as the existing shoreline is developed and re-developed. | 40,610 | 44,948 | 85,558 |
| 4 | Brevard County Natural Resources Management Department | WATER QUALITY: High (FSD-4) High (FSD-11) | Brevard County - Channel Denitrification Treatment to Reduce Nutrient Loading to the Indian River Lagoon. This water quality improvement project addresses nutrient loading by utilizing innovative groundwater and stormwater treatment technologies to intercept nutrient-laden suburban waters prior to discharge into the Indian River Lagoon. The project also includes associated education and outreach efforts to promote behavioral changes that benefit the IRL. | 32,000 | 33,948 | 65,948 |
| 5 | Florida Department of Environmental Protection, IRL Aquatic Preserve | HABITAT: High (W-5) High (W-6) | Indian River Lagoon Shoreline Restoration Project. The goal of the Shoreline Restoration Project from 1995-2014 has been to re-establish fringing mangrove habitat on public shorelines along the Indian River Lagoon, while promoting public education and awareness of mangrove habitat and its ecosystem benefits. | 53,052 | 57,897 | 110,949 |
| 6 | Marine Resources Council of East Florida, Inc. | HEALTHY COMMUNITIES: High (FSD-11) High (PIE-5) | Be Floridian in the IRL: A Landscape Fertilizer Awareness Campaign. The goal of this project is to encourage the proper use of residential landscape fertilizers through a strategically designed lagoon-wide media campaign at a critical time for local government implementation. The project builds on the opportunity to leverage the work of the highly successful "Be Floridian" fertilizer education campaign created by the Tampa Bay Estuary Program in partnership with Manatee County, Sarasota County, Pinellas County, City of St. Petersburg, City of Tampa, the National Fish and Wildlife Foundation and the Sarasota Bay Estuary Program. | 53,000 | 39,200 | 92,200 |
| 7 | St. Lucie County Board of County Commissioners | TRAINING: High (PIE-1) High (PIE-5) | Lagoon Life Education Program. The objective of Lagoon Life Resource Education Program is to educate St. Lucie County youth, their families and other community members about the diversity and importance of the Indian River Lagoon and the effect of their footprint. Under this program, thousands of students, family and community members in St. Lucie will learn what they can do to preserve the fragile ecosystem of the Indian River Lagoon. | 29,469 | 10,000 | 39,469 |
| 8 | Marine Discovery Center | HEALTHY COMMUNITIES: High (PIE-2) Medium (CC-3) | Project H20: Promoting Healthy Habitat through Outreach. The goal of this project is to facilitate an integrated water quality consortium of governments, universities and other research organizations, and non-governmental organizations within Volusia County to collaborate on research, education, restoration and funding opportunities that will facilitate meaningful improvements in water quality and habitat of the Indian River Lagoon. | 50,700 | 10,000 | 60,700 |

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|---------------|--------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------|
| 9 | County of Volusia | WATER QUALITY: High (FSD-4) High (FSD-13) | Wilbur by the Sea Drainage Improvements Project. The goal of this project is to provide stormwater treatment for an 18+ acre drainage basin that currently discharges untreated stormwater runoff into the Halifax River, an impaired water body. The project will reduce the discharge of the stormwater via construction of an exfiltration trench piping system and will reduce sediment and nutrients discharging into the river via a nutrient separating baffle box and a nutrient reduction media filter fabric in the exfiltration trench. | 80,000 | 203,961 | 283,961 |
| 10 | City of Sebastian | HABITAT: High (F-1) High (F-3) | Sebastian Oyster Mats. The project will utilize oyster mats to effectively filter nutrients, algae, bacteria, fine sediments and toxins from the impaired Indian River Lagoon. | 402 | 47,526 | 47,928 |
| 11 | Cape Canaveral Scientific, Inc. | DIRECT ASSISTANCE: High (FSD-13) High (FSD-14) | 2015-16 Grant Writing & Capacity Building to Support the IRL-CCMP. This project will provide grant-writing acquisition services to local governments and non-profit organizations tasked with implementing the CCMP. | 60,000 | 18,750 | 78,750 |
| 12 | Brevard County Natural Resources Management Department | TRAINING: High (FSD-10) High (PIE-1) | Today's Leaves and Grass Clippings; Tomorrow's Indian River Lagoon Muck. This is a pilot study to try to demonstrate leaching rates for the certain organic plant matter by engaging high school students in a lab experiment using leaves and grass clippings from their homes (or supplemented as necessary). | 11,000 | 2,000 | 13,000 |
| 13 | Indian River State College | LIVING RESOURCES/RESEARCH High (MON-1) High (FSD-11) | Novel Optical Techniques Utilizing Drones to Characterize Water Quality in the Indian River Lagoon. The goals of this project are to: develop optical technique to characterize lagoon variables in laboratory setting; optimize laboratory techniques in controlled environment to pole mounted camera in realworld conditions; (phase 2 in next Work Plan year is to prove optical technique to characterize lagoon variables with Unmanned Aerial Systems (UAS, aka drones); optimize drone techniques for automation, reliability, and repeatability; automate software stitching for data visualization and to determine exact coordinates with issues; expand drone, stitching and automation techniques to other fields). | 45,000 | 60,000 | 105,000 |
| 14 | Indian River Lagoon National Estuary Program | DIRECT ASSISTANCE: High (PIE-1) High (PIE-4) | Event & Conference Sponsorship: IRL Symposium \$2,500, American Assembly \$2,500, IRL Envirothon \$1,200 | 6,200 | 0 | 6,200 |
| Totals | | | | 600,000 | 600,000 | 1,200,000 |

Additional Projects Funded by IRL Council from Annual Contributions FY 2015-2016

| Activity | Applicant | CCMP Action Plan and Priority | Project Title and Abstract | Local IRL Council Funding | Project Partner Match | Total Project Cost |
|---------------|-------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|--------------------|
| | St. Lucie County | WATER QUALITY: High (FSD-4) High (FSD-13) | Paradise Park Stormwater Project Phase 5 - System 4. The overall project is designed to treat 75% of one-inch runoff volume of the entire 175.6-acre stormwater basin in the dry detention ponds with additional treatment provided through the swales. Based upon this design, the system will provide a pollutant load reduction of 90% to 95% for suspended solids, and a reduction of 65% of phosphorous and nitrogen. | 125,000 | 125,000 | 250,000 |
| | City of Stuart | POINT SOURCE DISCHARGES: High (PS-1) | St. Lucie Basin Septic to Central Wastewater Collection System Conversion Project. Project is designed to reduce fecal coliform, total coliform, and enterococci in canals and creeks directly impacted by septic tanks in the St. Lucie Sewer Basin by providing sewer service to approximately 263 equivalent residential properties that abut the St. Lucie River. | 485,000 | 485,000 | 970,000 |
| | Florida Oceanographic Society | HABITAT: High (F-3) | Continuation of the Northern Estuaries Resource Recovery Program. Project is designed to continue oyster and seagrass restoration at 5 sites within the southern IRL, monitor progress and success of these restorations, survey potential new sites for living shoreline (oyster and seagrass) restoration in the IRL, and engage members of the community in these efforts both as volunteers in on-the-ground restoration and waterfront property owners as living shoreline site partners. | 60,000 | 24,280 | 84,280 |
| | St. Lucie County | HABITAT: High (W-5) High (W-6) | Wesley's Island Habitat Enhancement Project. To enhance the habitat on Wesley's Island in St. Lucie County, the Recipient will remove invasive plants and replant native plants on four acres of the impacted upland. | 15,000 | 55,000 | 70,000 |
| | Friends of the Spoil Islands, Inc. (FOSI) | HABITAT: High (W-6) High (W-7) | SL-3 Limited Mobility Access BMP Project. The goal of the SL-3 Limited Mobility Access BMP Pilot Project is to facilitate access to St. Lucie County Spoil Island SL-3 for individuals with limited mobility. | 25,000 | 15,670 | 40,670 |
| Totals | | | | 710,000 | 704,950 | 1,414,950 |