

Activity	Applicant	CCMP Action Plan and Priority	Primary CCMP	CCMP-sub	Project Title and Abstract	CWA 320 Funding	Project Match	Total Project Cost
1	Indian River Lagoon National Estuary Program	DIRECT SUPPORT: High (FI-1) High (FI-2)	FI	1	<b>Support of NEP Project Office staff salaries and benefits for 2 FTEs</b> to continue CCMP 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)	MON	1	<b>Indian River Lagoon Living Resources and Water Quality Monitoring.</b> 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)	FSD	11	<b>Indian River Lagoon Program Education Coordinator.</b> 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)	IFF	1	<b>Long-term ecological and genetic monitoring of exotic species in the Indian River Lagoon.</b> The University of Central Florida (UCF) will examine three (3) recent invasive species, the <i>charru</i> 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
5	Brevard Zoo	HABITAT: High (F-1) High (F-4)	F	1	<b>Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon, Florida.</b> 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

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6	Indian River County	WATER QUALITY: High (FSD-1)	FSD	1	<b>PC SOUTH – Phase 1 Algal Turf Scrubber System Design.</b> 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)	W	5	<b>Connecting St. Lucie Wetlands to the IRL.</b> 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)	MON	2	<b>Volusia County Adopt-An-Estuary Project – Year Two Implementation.</b> 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
9	Martin County School Board	TRAINING: High (PIE-1) High (PIE-4)	PIE	1	<b>Martin County Schools' Environmental Studies Center Camp WET 2012.</b> 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)	PIE	1	<b>Operational Support for the SEAS Mobile Laboratory and Weather Monitoring.</b> 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)	BD	10	<b>Indian River Lagoon Shoreline Restoration.</b> 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

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12	Smithsonian Marine Station	TRAINING: High (PIE-1)	PIE	1	<b>Indian River Lagoon Species Web-Based Education Tool.</b> 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)	PIE	1	<b>Lagoon Quest.</b> Brevard Zoo will continue the successful Lagoon Quest Program to integrate real-life experience with 4 <sup>th</sup> 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)	FI	1	<b>Program Operation Costs</b>	4,745		4,745
3	Indian River Lagoon National Estuary Program	High (FSD-11) High (PIE-2)	FSD	11	<b>Indian River Lagoon Program Education Coordinator.</b> 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)	FSD	13	<b>Grants Writer &amp; Capacity Building in Support of the IRL CCMP.</b> 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 <sup>th</sup> 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)	W	5	<b>Connecting St. Lucie Wetlands to the IRL.</b> 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)	FSD	1	<b>PC SOUTH – Phase 1 Algal Turf Scrubber System Design.</b> 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)	FI	1	<b>Program Operation Costs</b>	11,500		11,500

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1	Indian River Lagoon National Estuary Program	DIRECT ASSISTANCE (CCMP): High (FI-1) High (FI-2)	FI	1	<b>Support of NEP Project Office staff salaries and benefits for 2 FTEs</b> 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)	MON	1	<b>Indian River Lagoon Living Resources and Water Quality Monitoring.</b> 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)	FSD	11	<b>Indian River Lagoon Program Education Coordinator.</b> 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)	FSD	13	<b>2012 Grant Writing &amp; Capacity Building in Support of the IRL CCMP.</b> 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)	SG	1	<b>Pelican Island Proper Restoration Phase IV Pilot Survey.</b> 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)	TMDL	1	<b>Indian River Lagoon Survey of Drift Algae Distribution and Abundance.</b> 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)	FSD	13	<b>Historic Fellsmere Storm water and Flood Control Master Plan.</b> 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

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8	Brevard County	WATER QUALITY: High (FSD-1) High (FSD-4)	FSD	1	<b>Installation of a Floating Vegetative Island to Uptake Nutrients Combined with A Cooperative and Comprehensive Education And Outreach Program.</b> 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)	W	5	<b>Indian River Lagoon Shoreline Restoration Project.</b> 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)	F	1	<b>Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon.</b> 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
11	University of Central Florida	HABITAT: High (W-5) High (W-6)	W	5	<b>Turtle Mound National Historic Site Shoreline Stabilization, Phase II: Protection from Erosion and Climate Change Using Science-Based Living Shoreline.</b> 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)	BD	2	<b>Protect and restore imperiled scrub habitat to preserve threatened and endemic species within the Indian River Lagoon Region.</b> 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 jay habitat.		1,300	1,300
13	Palm Bay City	TRAINING: High (FSD-11) High (PIE-1)	FSD	11	<b>Rain Garden Workshops and Demonstration Gardens.</b> 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)	W	5	<b>Restoring the Indian River Lagoon Shoreline.</b> 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

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15	Indian River Lagoon National Estuary Program	DIRECT ASSISTANCE: High (FI-1)	FI	1	<b>Program Operation Costs</b>	1,310		1,310
16	The Balmoral Institute	WATER QUALITY: High (TMDL-3)	TMDL	3	<b>Prioritizing TMDLs using seagrass habitat vulnerability to sea level rise.</b> 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 the achieve TMDLs in light of additional impacts resulting from sea level rise.	20,000	20,000	40,000
7	Fellsmere City	High (FSD-13) High (FSD 14)	FSD	13	<b>Historic Fellsmere Storm water and Flood Control Master Plan.</b> 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)	FI	1	<b>Program Operation Costs</b>	8,005		8,005
1	St. Johns River Water Management District	LIVING RESOURCES: High (SG-1)	SG	1	<b>Support of the Indian River Lagoon Protection Initiative.</b> 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)	MON	1	<b>Indian River Lagoon Living Resources and Water Quality Monitoring.</b> 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)	FSD	11	<b>Indian River Lagoon Program Education Coordinator.</b> 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)	FSD	13	<b>2013 Grant Writing &amp; Capacity Building in Support of the IRL CCMP.</b> 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)	FSD	11	<b>"The Lagoon and You" Resource Education Program.</b> 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

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6	Smithsonian Marine Station	LIVING RESOURCES: High (PIE-1) High (PIE-4)	PIE	1	<b>The Indian River Lagoon Species Inventory.</b> 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) ( <a href="http://eol.org">http://eol.org</a> ); 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
7	Harbor Branch Oceanographic Institute	WATER QUALITY: High (OSDS-3) High (FSD-10)	OSDS	3	<b>Sources of Nitrogen and Phosphorus Inputs to the Indian River Lagoon.</b> 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)	FSD	4	<b>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.</b> 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 Phosphorous 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)	TMDL	3	<b>Modeling IRL Seagrass Restoration Success and Long-Term Sustainability Under Changing Conditions of Water Quality and Sea Level Rise: Phase II.</b> 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

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10	Martin County Schools' Environmental Studies Center	TRAINING: High (PIE-1) High (PIE-4)	PIE	1	<b>Camp WET 2014.</b> 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)	F	1	<b>Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon.</b> 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
12	Florida Department of Environmental Protection IRL Aquatic Preserves	HABITAT: High (W-5) High (W-6)	W	5	<b>Indian River Lagoon Shoreline Restoration Project.</b> 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)	W	6	<b>Oyster Recycling Project.</b> 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)	FSD	1	<b>Port Malabar Unit 1 Inlet Inserts.</b> 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)	FI	2	<b>State of the Lagoon Report -</b> 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)	IFF	2	<b>Canaveral Inlet Lionfish Battle Plan.</b> 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)	FI	1	<b>Program Operation Costs.</b> Travel, legal advertising, printing, office supplies, field equipment and tools, IRL web page.	20,900		20,900
5	St. Lucie County	High (FSD-11) High (PIE-1)	FSD	11	<b>"The Lagoon and You" Resource Education Program.</b> 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



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1	Indian River Lagoon National Estuary Program	TRAINING: High (FSD-11) High (PIE-2)	FSD	11	<b>Indian River Lagoon Program Education Coordinator &amp; Communication Plan.</b> 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)	FSD	13	<b>Cape Canaveral Scientific Inc. 2014-2015 Grant Writing to Implement the IRLCCMP.</b> 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)	F	1	<b>Community-Based Living Shoreline Stabilization in Oak Hill, FL.</b> 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)	W	5	<b>Indian River Lagoon Shoreline Restoration Project.</b> 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)	W	6	<b>Indian RiverSide Park Living Shoreline.</b> 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)	F	1	<b>Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in Mosquito Lagoon.</b> 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)	MON	1	<b>Molecular Tool Development and Implementation to Advance Monitoring of Pico- and Nano-Planktonic Algae in the Indian River Lagoon.</b> 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

Activity	Applicant	CCMP Action Plan and Priority	Primary CCMP	CCMP-sub	Project Title and Abstract	CWA 320 Funding	Project Match	Total Project Cost
8	City of Cocoa Beach	WATER QUALITY: High (FSD-1) High (TMDL-1)	FSD	1	<b>Minutemen Streetscape and Stormwater Improvement.</b> 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)	F	3	<b>Development of Bioremediation and Habitat Restoration Platforms to Improve Lagoon Water Quality, Restore Seagrasses, and Rebuild Bivalve Populations.</b> 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)	PIE	1	<b>Lagoon Life Savers: Working Together to Save the Indian River Lagoon.</b> 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
11	Indian River Shores	WATER QUALITY: High (PS-1), Medium (PS-2), High (FSD-1), High (FSD-10)	PS	1	<b>Indian River Shores Seminole Lane Stormwater Baffle Box.</b> 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)	PIE	1	<b>Event &amp; Conference Sponsorship:</b> 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)	FI	1	<b>Program Operation Costs:</b> Travel \$7,500; Legal Advertising \$500; Printing \$2,100; Office Supplies \$425; Field Equipment & Tools \$1,000	11,525		11,525
1	Marine Resources Council	TRAINING: High (FSD-11) High (PIE-2)	FSD	11	<b>Indian River Lagoon Program Education Coordination.</b> 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)	F	1	<b>Community Outreach, Restoration and Monitoring of Intertidal Oyster Reefs in the Indian River Lagoon.</b> 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

Activity	Applicant	CCMP Action Plan and Priority	Primary CCMP	CCMP-sub	Project Title and Abstract	CWA 320 Funding	Project Match	Total Project Cost
3	University of Central Florida	HABITAT: High (F-4) High (PIE-4)	F	4	<b>Preparing Titusville for the Future: Developing a Shoreline Management Plan and Constructing a Shoreline Restoration Pilot Project.</b> 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)	FSD	4	<b>Brevard County - Channel Denitrification Treatment to Reduce Nutrient Loading to the Indian River Lagoon.</b> 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)	W	5	<b>Indian River Lagoon Shoreline Restoration Project.</b> 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)	FSD	11	<b>Be Floridian in the IRL: A Landscape Fertilizer Awareness Campaign.</b> 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)	PIE	1	<b>Lagoon Life Education Program.</b> 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)	PIE	2	<b>Project H2O: Promoting Healthy Habitat through Outreach.</b> 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
9	County of Volusia	WATER QUALITY: High (FSD-4) High (FSD-13)	FSD	4	<b>Wilbur by the Sea Drainage Improvements Project.</b> 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

Activity	Applicant	CCMP Action Plan and Priority	Primary CCMP	CCMP-sub	Project Title and Abstract	CWA 320 Funding	Project Match	Total Project Cost
10	City of Sebastian	HABITAT: High (F-1) High (F-3)	F	1	<b>Sebastian Oyster Mats.</b> 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)	FSD	13	<b>2015-16 Grant Writing &amp; Capacity Building to Support the IRL-CCMP.</b> 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)	FSD	10	<b>Today's Leaves and Grass Clippings; Tomorrow's Indian River Lagoon Muck.</b> 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)	MON	1	<b>Novel Optical Techniques Utilizing Drones to Characterize Water Quality in the Indian River Lagoon.</b> 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)	PIE	1	<b>Event &amp; Conference Sponsorship:</b> IRL Symposium \$2,500, American Assembly \$2,500, IRL Envirothon \$1,200	6,200	0	6,200
<b>Total</b>						<b>\$3,004,241.00</b>	<b>\$3,004,241.00</b>	<b>\$6,008,482.00</b>

<b>CCMP</b>	<b>Sum of Total Project Cost</b>	<b>Percent</b>
<b>Freshwater/Stormwater Discharges</b>	\$1,764,045.00	29%
<b>Monitoring</b>	\$1,054,216.00	18%
<b>Fisheries</b>	\$964,981.00	16%
<b>Wetlands</b>	\$658,341.00	11%
<b>IRL CCMP Implementation Action Plan</b>	\$443,737.00	7%
<b>Public Involvement/Education</b>	\$420,159.00	7%
<b>Seagrass</b>	\$254,027.00	4%
<b>Point Source Discharges</b>	\$145,000.00	2%
<b>Biodiversity</b>	\$104,670.00	2%
<b>TMDL</b>	\$100,250.00	2%
<b>Invasives</b>	\$57,355.00	1%
<b>On-site Sewage Treatment</b>	\$41,701.00	1%
	<b>\$6,008,482.00</b>	<b>100%</b>

\$1,201,696.40 Average Annual Projects Total (EPA + Match)

**\$600,848.20** Average Annual Projects