

DEP AGREEMENT NO. **CM933**
CHANGE ORDER NO. #1

GRANTEE

Martin County Board of County Commissioners
2401 SE Monterey
Stuart, FL 34996

DEP Agreement No. **CM933** as entered into on the 5th day of November 2018, is hereby revised as follows:

1. **Attachment A, Grant Work Plan, Project Timeline** is hereby deleted in its entirety and replaced with the following:

Total Project Timeline:

Task/ Deliverable No.	Task or Deliverable Title	Task Start Date	Task End Date	Deliverable Due Date/ Frequency
1	Identification of Coastal Risks from Sea Level Rise	Upon Execution	3/31/19	4/10/19
2	Coastal Risk Links to the National Flood Insurance Program's Community Rating System (CRS)	Upon Execution	4/30/19	5/10/19
3	Develop a Technical Basis to Plan for Future Sea Level Risk	4/1/19	4/30/19	5/10/19

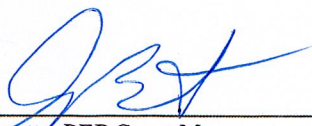
All other terms and conditions of the Agreement shall remain unchanged.

MARTIN COUNTY BOARD OF COUNTY
COMMISSIONERS


Kathy Fitzpatrick, Grantee Grant Manager

Date: 3/18/19

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Angel Baratta, DEP Grant Manager

Date: 3/19/2019

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: CM933**

ATTACHMENT 3

Project Title: Martin County Resilient Coastlines Program

Grantee

Organization Name: Martin County Board of County Commissioners Chief
Elected Official or Agency Head: Taryn Kryzda
Title: Administrator
Address: 2401 SE Monterey Rd
City: Stuart
Zip Code: 34996
Area Code and Telephone Number: 772 288 5400 Area
E-Mail Address: tkryzda@martin.fl.us

Project Manager

Organization Name: Martin County Board of County
Commissioners Name: Kathy FitzPatrick
Address: 2401 SE Monterey
Rd City: Stuart
Zip Code: 34996
Area Code and Telephone Number: 772 288 5429
Number: E-Mail Address: kfitzpat@martin.fl.us

Fiscal Agent

Organization Name: Martin County Board of County
Commissioners Name: Jennifer Manning
Address: 2401 SE Monterey
Rd City: Stuart
Zip Code: 34996
Area Code and Telephone Number: 772 288 5400
E-Mail Address: jmanning@martin.fl.us

Mailing Address for Warrant (if other than the Grantee address):

FEID No.: 59-6000743

DUNS No.: 0713045620000

Location: Martin County, FL

Project Description:

This scope of work builds upon efforts already initiated by Martin County but will help catalyze a climate and resiliency program for the County by harmonizing efforts under a single program initiative. This includes coordinating technical data and policy response among planning, floodplain management and coastal projects. Primarily, this work will develop and utilize best practices to understand and develop mitigation practices for erosion and reduce flood risk in coastal areas resulting from high-tide events, storm surge, flash floods, stormwater runoff, and the related impacts of sea-level rise.

The scope of work advances (4) key tasks that include identifying coastal risk from sea level rise, linking coastal risk to FEMA's Community Rating System ("CRS") program, developing a technical basis to plan for future sea level rise (mitigation and adaptation) and communicating future sea level rise risks to the public. Deliverables and budget amounts have already been submitted in the Letter of Interest and are linked to specific tasks in this response.

In summary, the scope of work provides a starting point to link future sea level risk with the opportunity to improve the County's score in CRS. The County has already exhibited a commitment in creating a broad policy framework within its Comprehensive Plan to begin identifying coastal risk. The time is now to take that framework and put it to action by developing a strong data driven foundation to plan for future risk, link that to direct opportunities that will benefit constituents through advanced planning (CRS) and communicate those efforts to the community to gain support. By tailoring the sea level rise identification of risks to CRS, the outcomes will have direct positive impacts to the community.

The County will fulfill the tasks through a combination of in kind services provided by County staff and contracted services.

Total Budget Summary:

	Grant
AGREEMENT TOTAL	\$34,000

Total Grant Funds

Categories	Task 1	Task 2	Task 3	TOTAL BY CATEGORY
Contractual	\$10,000	\$6,000	\$18,000	\$34,000
SUB-TOTAL BY TASK	\$10,000	\$6,000	\$18,000	\$34,000

PROJECT TIMELINE: The tasks must be completed by the corresponding task end date and all deliverables must be received by the designated due date.

Task/ Deliverable No.	Task or Deliverable Title	Task Start Date	Task End Date	Deliverable Due Date/ Frequency
1	Identification of Coastal Risks from Sea Level Rise	Upon Execution	3/31/19	4/10/19
2	Coastal Risk Links to the National Flood Insurance Program's Community Rating System (CRS)	Upon Execution	3/31/19	4/10/19
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Task 1 Description: Identification of Coastal Risks from Sea Level Rise

The County will contract for services to identify the basic coastal risk from future sea level rise to the built environment, beaches and shorelines, and natural systems ultimately to be summarized in a document available for internal staff, elected officials and public stakeholders. This task will involve developing projections of sea level rise, based on the latest scientific findings, specific to Martin County. The task will utilize existing data sets (such as GIS data) and include a narrative explanation of the methods used and a map series.

Deliverable:

1. Methodology and Results Memorandum on Sea Level Rise Projections for Martin County

Sources to develop the Memorandum may include, but are not limited to, relevant regional projections, tools from the Intergovernmental Panel on Climate Change, NOAA and the U.S. Army Corps of Engineers. Incremental years shall be chosen such as 2040, 2070 and 2100 or other applicable intervals to reflect those projections. Projections used shall be chosen during the development of the deliverables for maximum value, considering issues such as meeting new criteria for FEMA's Community Rating System.

While many sea level rise planning scenarios use shorter term projections for more immediate decision-making on adaptation, for a community to pursue newer sea level rise criteria within CRS, FEMA requires the analysis to include a 2100 future condition. So the development of sea level rises projections for Martin County will include a scenario for the year 2100 to meet that CRS requirement.

Due Date/Frequency/Performance Period: March 31, 2019

Performance Measure: The Department will review the Methodology and Results Memorandum to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$10,000
TASK TOTAL:	\$10,000

Task 2 Description: Coastal Risk Links to the National Flood Insurance Program’s Community Rating System (CRS)

There is clear overlap in floodplain management and coastal risk planning. FEMA’s CRS Program has begun to coordinate these relationships by tying specific criteria within CRS to point categories related to sea level rise planning. In order to fulfill these categories within CRS though, data must first be developed to characterize those risks. The County is entering a new certification cycles with CRS making this the perfect time to create those relationships and pursue an improved rating and reduce flood insurance rates for the community.

Under this task that the County will contract services to fulfill, specific linkages between credit points available under CRS criteria and resiliency gaps identified as a result of the work proposed here. This task will include reviewing any reports or resiliency-related data that may have been generated in the past to determine if data relevant to Martin County exists and, where it may need to be updated, enhanced, or better analyzed to meet CRS criteria. An example of where this linkage can occur: CRS has adopted a base minimum projection for sea level rise for the purposes of CRS credit and meeting CRS prerequisites... Communities may use other projections provided that they are equal to or greater to NOAA’s “intermediate-high” projection for 2100 (pp. 400-14 – 400-15). Information such as this would be included within Deliverable 2, but also links to Task 1 through the use of the 2100 sea level rise projection and considerations for establishing what parameters to use.

County staff will assist in this deliverable through helping to compile existing sources of data and aligning CRS priorities with new opportunities to improve scoring.

Deliverables:

1. Table listing reports, agency, subject matter, year, data types, analysis performed, primary results, and any modifications required especially to fulfill requirements of CRS elements.
2. Table linking the elements of this grant scope to CRS Activities including new activities to be undertaken or modifications related to existing CRS Activities

Ultimately Deliverable 2 can serve as a roadmap for the next CRS cycle to pursue new point categories related to sea level rise.

Due Date/Frequency/Performance Period: March 31, 2019

Performance Measure: The Department will review the deliverable tables in the Coastal Risk Links to the National Flood Insurance Program’s Community Rating System task to ensure they meet the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$6,000
TASK TOTAL:	\$6,000

Task 3 Description: Develop a Technical Basis to Plan for Future Sea Level Risk

Building upon the sea level rise projections developed in Task 1 and linkages to improving CRS performance related to sea level rise in Task 2, the County, through contracted services, will create an approach that coordinates sea level rise projections with the level of risk associated with various facilities (or natural areas for example) and the types of alternative actions that could adapt to or mitigate future impacts. In order to link the projection to actions, an accounting for actual County facilities will be developed, ranking their risk as low, medium or high with alternative actions that could be implemented in the future to avoid that risk.

County staff will assist in most aspects of this deliverable, but in particular, helping to organize the inventory of facilities and development of mitigation alternatives will be critical for County input.

Deliverables:

1. Inventory of Facilities;
2. Crosswalk to facility and low, medium or high risk based on incremental year established;

Due Date/Frequency/Performance Period: April 30, 2019

Performance Measure: The Department will review the inventory, risk evaluation and supporting documents (maps) and Technical Basis task to ensure they meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	18,000
TASK TOTAL:	\$18,000