

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R1822**

ATTACHMENT 3

Project Title: Web-based Sea Level Rise Infrastructure Assessment Tool for Evaluating Vulnerability and Risk – Phase I

Grantee

Organization Name: Pinellas County
Chief Elected Official or Agency Head: Barry A. Burton
Title: County Administrator
Address: 315 Court Street
City: Clearwater
Zip Code: 33756
Area Code and Telephone Number: 727- 464-3485
E-mail Address: bburton@pinellascounty.org

Project/Grant Manager:

Organization Name: Pinellas County Environmental Management
Chief Elected Official or Agency Head: Kelli Hammer Levy
Title: Division Director
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E-mail Address: klevy@pinellascounty.org

Fiscal Agent:

Organization Name: Pinellas County Office of Management and Budget
Chief Elected Official or Agency Head: Bill Berger
Title: Director
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Mailing Address for Reimbursement (if other than the Grantee address):

Pinellas Board of County Commissioners
P.O. Box 2438
Clearwater, FL 33756

FEID No.: 59-6000800

DUNS No.: 05-520-0216

PROJECT LOCATION: Pinellas County

WORK PLAN

- 1. Project Abstract:** Pinellas County developed a capital project assessment tool to evaluate vulnerability and risk during the planning and design phases. The Excel-based tool allows project managers to evaluate public infrastructure projects and ensure design considerations include the impacts of sea level rise and storm surge. The tool has become very popular amongst various user groups including local, state, federal, and private partners. To improve the tool and the process, this project proposes to create web-based assessment tool that is more efficient and publicly accessible so interested users, both public and private, can evaluate vulnerability and risk associated with their infrastructure projects. The project will be completed in two phases.
- 2. Project Description:** The project consists of transitioning the sea level rise planning tool from an Excel-based format to a database-driven web application that will be web-accessible for both public and private end-users.

Two modules are proposed, one specific to Pinellas County that will be linked to our infrastructure data and other key information that is available to the county such as FEMA flood maps, storm surge data, and other relevant information. The second module will be applicable to all other user groups.

The tool will be tightly integrated with GIS to automate model variable details for a selected location, with minimal user input. Other directly accessible information such as tide gauge information, sea level rise projections and other variable can be pulled directly from data providers to reduce errors and further streamline the process.

Users will create an account that allows them to set up multiple project assessments, save and return to projects throughout the process, and ultimately save the report within the application as well as export the file from the system.

- 3. Project Need and Benefit:** Pinellas County and the Tampa Bay region are considered one of the most vulnerable areas for sea level rise in the country. By assessing our infrastructure projects for risks associated with sea level rise and storm surge we can factor in design considerations and adaptive strategies that maximize our return on investment and improve overall community resiliency. Further, by utilizing a consistent practice, projects can be ranked and prioritized based on the vulnerability and risk scores.

This project is clearly aligned with project area 4: “Development of relevant decision support tools, and/or public outreach tools, products, or programs that support community resilience planning efforts, including regional collaboration efforts.” Outputs will include a publicly available online decision support applications and interpretive guidelines; a hosted website, and outreach and training to help stakeholders utilize the tool.

The County has in-house staff with the necessary skills to develop the application. To expedite the completion of phase I, additional contracted resources will be employed.

4. Budget Summary:

FIXED PRICE	Grant Awarded Amount
AGREEMENT TOTAL	\$ 15,000

- 5. Project Timeline:** This is required to show a summary of details provided for the project. The deliverable must be completed and submitted to the Department by the designated due date.

PROJECT TIMELINE

Task No.	Task Title	Deliverable Due Date	Funding Amount
1	SLR Planning Tool Requirements and Database Design	06/30/2019	\$15,000
Total			\$15,000

- 6. Agreement Performance Measure:** The Department will review the deliverable(s) to ensure they meet the specifications provided in the Description for each task. All deliverable documents must be provided in an electronic downloadable format.
- 7. Consequences for Non-Performance:** The Department will reduce each Task Funding Amount by 5% for everyday that a deliverables are not received on the specified due date in the most recent Project Timeline, for the Agreement. Should a Change Order or Amendment be requested on the date of or after the most current Deliverable Due Date, the 5% reduction of that Task Funding Amount will be imposed until the date of the requested change is received, via email by the Department.
- 8. Payment Process:** Grantee may submit a request for the Funding Amount to be paid using the Exhibit C, after all deliverables for that specific Task has been approved by the Department; or the Grantee may submit one request for payment using the Exhibit C, after the project is 100% completed, for Agreement Amount. Request for payment must include the the Exhibit A showing 100% completion of all deliverables for that task, and must be submitted within 45 days of the Deliverable Due Date.

TAKS & DELIVERABLES

Task #1

- A. Title:** Phase I - Requirements and Database Design
- B. Description:** Detailed requirements gathering for sea-level rise CIP tool development.
- C. Deliverable:** SQL relational database required to store all project variables for participants for sea-level rise evaluation.