

DEP AGREEMENT NO. CM747
CHANGE ORDER NO. #2

GRANTEE

City of Titusville
555 S. Washington Ave.
Titusville, FL 32796

This Change Order to DEP Agreement No. CM747 (Agreement) as entered into on the 10th day of September 2018; amended on November 27th, 2018 with Amendment #1, and on November 27, 2018 with Change Order #1, is hereby revised as follows:

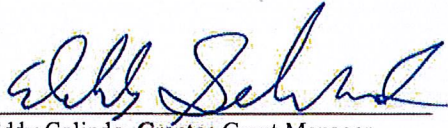
1. **Attachment 3, Grant Work Plan, Task 5, End Date and Due Date** is hereby deleted in its entirety and replace with the following:

End Date: March 1, 2019

Due Date: March 1, 2019

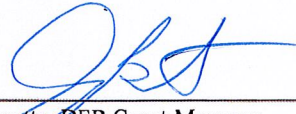
All other terms and conditions of the Agreement shall remain unchanged.

CITY OF TITUSVILLE


Eddy Galindo, Grantee Grant Manager

Date: 12/13/2018

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Angel Baratta, DEP Grant Manager

Date: 12/13/18

DEP AGREEMENT NO. CM747
CHANGE ORDER NO. #1

CITY OF TITUSVILLE

Eddy Galindo
555 S. Washing
Titusville, FL 32796

DEP Agreement No. CM747 as entered into on the 10th day of September 2018, and as amended on November 27, 2018, is hereby revised as follows:

1. **Attachment 3, Grant Work Plan Task 5 Description, and Project Timeline** is hereby deleted in its entirety and replaced with the following:

Task 5 Description: Community Engagement #2: MetroQuest Survey of Resiliency Priorities and Vulnerabilities. The selected consultant will compile information from Workshop #1 (task #3) to develop a MetroQuest survey. The survey will allow for participation through the web or a mobile device to collect feedback in ranking resiliency priorities and vulnerabilities and explore the favorability of certain strategies.

A robust public notification strategy (webpages, social media, computers at the Titusville Public Library, mailed notices, and in-person tabling) will be implemented to ensure a broad range of participation is included. In addition, this survey will be used to introduce and collect feedback on the next phase of the Project: the development of adaptation strategies.

Deliverable: Survey results summary with at least 20 participants.

Due Date/Frequency/Performance Period: February 11, 2019

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$2,000
TASK TOTAL:	\$2,000

PROJECT TIMELINE: The tasks must be completed by the corresponding task end date and all deliverables must be received by the designated due date. Please do NOT change any of the gray shaded fields.

Task/ Deliverable No.	Task or Deliverable Title	Task Start Date	Task End Date	Deliverable Due Date	Amount
1	Kickoff meeting agenda, including initial scope, timeline, and meeting attendees	Upon Execution	10/26/18	10/26/18	\$2,000
2	LiDar data files and research summary	10/26/18	12/04/18	12/04/18	\$7,500
3	Workshop #1 sign in sheet with at least 20 attendees	12/04/18	12/18/18	12/18/18	\$2,000
4	Vulnerability assessment report and associated maps	12/18/18	01/18/19	01/18/19	\$7,500

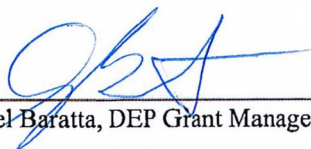
5	Community engagement #2: MetroQuest survey of resiliency priorities and vulnerabilities	01/18/19	02/11/19	03/01/19	\$2,000
6	Resiliency themes and draft strategies report	02/11/19	03/25/19	03/25/19	\$7,500
7	Workshop #3 sign in sheet with at least 20 attendees. Educational and outreach materials summarizing resiliency themes	03/25/19	04/15/19	04/15/19	\$2,000
8	Develop Titusville's Resiliency Draft Plan	04/15/19	05/06/19	05/06/19	\$9,500

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

CITY OF TITUSVILLE

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Eddy Galindo, Grantee Grant Manager


Angel Baratta, DEP Grant Manager

Date: 11/29/2018

Date: 11/29/18

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: CM747**

ATTACHMENT 3

Project Title: Resilient Titusville 2020

Grantee

Organization Name: City of Titusville, FL
Chief Elected Official or Agency Head: William S. Larese
Title: City Manager
Address: 555 S. Washington Avenue
City: Titusville
Zip Code: 32796
Area Code and Telephone Number: 321-567-3702
Area Code and Facsimile Machine Telephone Number: 321-383-5704
E-Mail Address: scott.larese@titusville.com

Project Manager

Organization Name: City of Titusville, FL
Name: Eddy Galindo, AICP
Address: 555 S. Washington Avenue
City: Titusville
Zip Code: 32796
Area Code and Telephone Number: 321-567-3976
Area Code and Facsimile Machine Telephone Number: 321-267-3711
E-Mail Address: eddy.galindo@titusville.com

Fiscal Agent

Organization Name: City of Titusville, FL
Name: Bridgette Clements
Address: 555 S. Washington Avenue
City: Titusville
Zip Code: 32796
Area Code and Telephone Number: 321-567-3712
Area Code and Facsimile Machine Telephone Number: 321-3835811
E-Mail Address: bridgette.clements@titusville.com

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

FEID No.: 596000440

DUNS No.: 079988911

Location: City of Titusville, FL

Project Description:

The City of Titusville will utilize the grant to implement comprehensive plan policies related to the Peril of Flood requirements set out in Section 163.3178(2)(f), Florida Statutes. The city recently completed a preliminary vulnerability assessment using the University of Florida's Sea Level Scenario Sketch Planning Tool. A series of maps were developed that will be submitted with EAR based amendments to the Department of Economic Opportunity in May 2018.

The outcomes from the preliminary vulnerability assessment sufficiently identified current and future flood risks for the development of plan policies. The grant funding will provide for a more detailed vulnerability report to inform a future resiliency plan and implement the proposed policies.

Based on the comprehensive plan policies that will be adopted the Summer of 2018, the City will develop a coastal resiliency plan that identifies opportunities and deficiencies.

Coastal areas within the municipal boundary that are susceptible to current and future flood risk will be identified. New maps will be created from FEMA and LIDAR that more accurately depict the areas at risk resulting from high-tide events, storm surge, flash floods, stormwater runoff, and the related impacts of sea level rise. Existing implementation tools, including best management practices (BMP) and low impact development (LID), will be reviewed. These tools will be evaluated to determine the potential effectiveness in reducing flood risk and, when the opportunity arises, to eliminate inappropriate and unsafe development in the coastal areas consistent with the EAR based comprehensive plan amendments related to the Peril of Flood requirements.

The coastal resiliency plan will be presented utilizing narrative text, a map series depicting the degree of flood risk within the coastal areas, and a map series depicting areas within the municipal boundaries expected to be affected by sea level rise. The report will include data in tabular format, illustrations, and charts. All copies of all required documentation will be submitted electronically in MS Word or PDF format, and all maps in PDF format with ArcGIS compatible shapefiles will be submitted to DEP.

The coastal planning effort will include the following elements:

- Assessment and identification of climate risks
- Conduct public outreach and education
- Identify and develop programmatic and policy themes to address Titusville's vulnerabilities
- Identify resiliency projects and strategies.

Total Budget Summary:

	Grant
AGREEMENT TOTAL	\$40,000

TOTAL GRANT FUNDS

Categories	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	TOTAL BY CATEGORY
Contractual	\$2,000	\$7,500	\$2,000	\$7,500	\$2,000	\$7,500	\$2,000	\$9,500	\$40,000
SUB-TOTAL BY TASK	\$2,000	\$7,500	\$2,000	\$7,500	\$2,000	\$7,500	\$2,000	\$9,500	\$40,000

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	Kickoff meeting agenda, including initial scope, timeline, and meeting attendees	Upon Execution	10/26/18	10/26/18
2	LiDAR data files and research summary	10/26/18	12/4/18	12/4/18
3	Workshop #1 sign in sheet with at least 20 attendees	12/4/18	12/18/18	12/18/18
4	Vulnerability assessment report and associated maps	12/18/19	1/18/19	1/18/19
5	Workshop #2 sign in sheet with at least 20 attendees	1/18/19	2/11/19	2/11/19
6	Resiliency themes and draft strategies report	2/11/19	3/25/19	3/25/19
7	Workshop #3 sign in sheet with at least 20 attendees. Educational and outreach materials summarizing resiliency themes	3/25/19	4/15/19	4/15/19
8	Develop Titusville's Resiliency Draft Plan	4/15/19	5/6/19	5/6/19

All materials created will include DEP, NOAA, and FCMP logos. A sample or electronic version is required to be sent to Angel.Baratta@FloridaDEP.gov or 3900 Commonwealth Blvd, MS 235, Tallahassee, FL 32399-3000, to receive prior approval from the FCMP Administrator. (See paragraph 27(A) of the grant agreement for details.)

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TASKS AND DELIVERABLES

Task 1 Description: Conduct a Project kick-off meeting with stakeholders to discuss project goals, initial scope, and expected timeline.

Deliverable: Kickoff meeting agenda, including initial scope, timeline, and meeting attendees.

Due Date/Frequency/Performance Period: October 26, 2018

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$2,000
TASK TOTAL:	\$2,000

Task 2 Description: Collect Data and Identify Study Scenarios. LiDAR data shall be processed to for accuracy in identifying the impacts of various climate change scenarios on critical infrastructure. Conduct a review and provide a summary of all relevant existing reports, regulations and zoning, land ownership, land uses, and local and regional connectivity. Based on the research and data collected, a consultant will coordinate with the City to identify the appropriate scenarios for conducting a vulnerability assessment and present them to the City.

Deliverable: LiDAR data files and research summary.

Due Date/Frequency/Performance Period: December 4, 2018

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$7,500
TASK TOTAL:	\$7,500

Task 3 Description: Community Workshop #1. The selected Consultant will present and introduce project goals, objectives and scope at a public meeting. At a minimum the meeting shall address the following elements: An introduction to the basic science of sea level rise and how it may affect Titusville, what is included in a vulnerability assessment, the DEP grant program, and the state's goals and initiatives to assist communities in preparing for sea level rise. Introduce the specific Project area, the data collected to date, and the recommended study scenarios.

Deliverable: Workshop sign in sheet with at least 20 attendees.

Due Date/Frequency/Performance Period: December 18, 2018

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$2,000
TASK TOTAL:	\$2,000

Task 4 Description: Conduct a Vulnerability Assessment. The selected Consultant will conduct a vulnerability assessment using three different scenarios for sea level rise. The Consultant will be responsible for determining and mapping scenarios of potential flooding extents. All available information will be analyzed as part of this task. The number and type of public infrastructure items to be inventoried and assessed should include at a minimum: Public Facilities (i.e., schools, parks), Underground utilities (storm drain systems, sewer), Sewage pump stations; Electrical Utility Substations; Wastewater and Drinking Water Treatment Facilities; Fire/Police/Emergency Facilities; Transit (including infrastructure); Public Works Facilities; Residential neighborhoods; and Roadway Surfaces.

Deliverable: Vulnerability assessment report and associated maps.

Due Date/Frequency/Performance Period: January 18, 2019

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$7,500
TASK TOTAL:	\$7,500

Task 5 Description: Community Workshop #2 The selected consultant will present the results of the vulnerability assessment. This presentation will rely on graphics and visual representation to effectively communicate the results of the assessment to the attendees. Key areas of discussion will include identification of the most important vulnerabilities, and how to prioritize key resources at risk through sketches and maps. In addition, this meeting will be used to introduce and collect feedback on the next phase of the Project: the development of adaptation strategies.

Deliverable: Workshop sign in sheet with at least 20 attendees.

Due Date/Frequency/Performance Period: February 11, 2019

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$2,000
TASK TOTAL:	\$2,000

Task 6 Description: Develop Resiliency Themes. The selected consultant will identify the emerging resiliency themes that have surfaced as a result of the Vulnerability Assessment. The themes will serve as a strong foundation for a comprehensive resiliency plan to be developed in future resiliency efforts (not within the scope of this project). The proposer should address how they will help the City begin to address the most important vulnerabilities, based on the results of the prioritization in Task 4 and the

community workshops and discussions with stakeholders. Draft strategies will be included for each resiliency theme, and will serve as a starting place for future planning.

Deliverable: Resiliency themes and draft strategies report.

Due Date/Frequency/Performance Period: March 25, 2019

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$7,500
TASK TOTAL:	\$7,500

Task 7 Description: Community Workshop #3 Prepare for a community presentation of the final findings and the resiliency themes.

Deliverable: Workshop sign in sheet with at least 20 attendees. Educational and outreach materials summarizing resiliency themes.

Due Date/Frequency/Performance Period: April 15, 2019

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$2,000
TASK TOTAL:	\$2,000

Task 8 Description: Develop Titusville's Resiliency Plan.

Deliverable: A draft plan which will include: documentation of the methodology for the project, the final maps, the results of the feedback from the public meetings, a detailed report outlining Titusville's vulnerabilities (which will include the interactive matrix of the prioritized vulnerabilities), resiliency themes and the next steps for the City.

Due Date/Frequency/Performance Period: June 6, 2019

Performance Measure: The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

Funding for Task:

Category	Grant Funds
Contractual:	\$9,500
TASK TOTAL:	\$9,500

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