

TOWN OF LONGBOAT KEY
EMERGENCY PURCHASE FORM

Nature Of Emergency Affecting Safety, Health Or Welfare Of The Public. Be Concise But Describe The Emergency Completely:

On June 29, 2020, Town staff discovered a break in the wastewater pipeline that crosses Sarasota Bay and terminates at the Manatee County Wastewater Treatment Facility. The break occurred within a section of pipe located on undeveloped land leading to the wastewater treatment facility. Initially, Town and Manatee County Utilities staff believed there may have been meter and equipment issues causing anomalous flow readings. Not until June 29 did they determine there was an actual leak in the pipeline. This is the single wastewater force main carrying all wastewater effluent from Longboat Key.

MATERIAL OR SERVICES PURCHASED (GENERAL DESCRIPTION):

Environmental Observation, Data Collection, Testing, and Mitigation/Restoration Recommendations - Mangrove Assessment and Restoration Plans

EMERGENCY VENDOR NAME: Environmental Science Associates (ESA)

IS FUNDING AVAILABLE IN THE APPROPRIATE FUND AND ACCOUNT NUMBER

YES NO

Should be 401-30-53-531.3104 Prof Services/ S Smith 8/12

IF YES ACCOUNT NUMBER: 404 - 30 - 53 - 563 6360

PREPARED BY: (NAME) Isaac Brownman

DEPARTMENT DIRECTORS SIGNATURE: 

DATE PREPARED: August 4, 2020

ATTACH INVOICE AND ANY OTHER SUPPORTING DOCUMENTATION AND FORWARD TO PURCHASING FOR REVIEW WITHIN 48 HOURS OF AUTHORIZATION.

EMERGENCY NUMBER ASSIGNED: 20-090

TOTAL ACTUAL COST OF EMERGENCY PURCHASE: \$ 19,600.00

APPROVED BY PURCHASING MANAGER: Kari Kennedy

DATE: 06AUG2020

APPROVED BY TOWN MANAGER: 

DATE: August 12, 2020



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August 3, 2020

Isaac Brownman
Public Works Director
600 General Harris Street
Longboat Key, FL 34228

RE: **SCOPE OF SERVICES AND ASSOCIATED FEE ESTIMATE**
Longboat Key Mangrove Assessment and Restoration Plan

Dear Mr. Brownman:

Environmental Science Associates (ESA) has formulated the attached scope of services to assess the mangrove and wetland impacts associated with the sewer force main break for the Town of Longboat Key, Florida.

The primary goal of this task is to assess the impacts to the wetlands and mangroves in the area where the force main ruptured and formulate a proposed restoration plan.

SCOPE OF SERVICES

Task Description

1.0 MANGROVE AND WETLAND ASSESSMENT DATA COLLECTION

ESA Scientists will locate impact area wetland lines, the edge of mangroves, including the height, DBH and type of vegetation in the area. The data collected will be compared to vegetation signatures from the latest pre-force main break aerial imagery. We will also collect elevation data points throughout the haul road and in the existing vegetation. ESA will also use our EOS Arrow Gold with Real-time Kinematic (RTK) Global Positioning System (GPS) with centimeter accuracy to record data. This GPS will be linked to the Collector App that will automatically save data points, elevations, photographs and field notes to an ArcGIS map. The horizontal datum (coordinates) will be referenced to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983/90 (NAD 83/90). The vertical datum (elevations) will be referenced to the North American Vertical Datum of 1988 (NAVD 88) and will be tied to published horizontal and vertical control points near the project area. ESA will also deploy our drone to take both oblique and ortho-rectified, color-infrared aerial images. These aerials will be utilized to compare vegetation types and coverage in the location of the haul road. Standard methods for assessment of wetland and mangrove communities will be adhered to during this assessment. ESA will deploy a three-person crew for this effort that includes a professional wetland scientist, certified arborist, two UAV certified drone pilots and two certified GIS professionals.

2.0 MANGROVE AND WETLAND RESTORATION PLAN

ESA will review the field elevation data and aerial comparisons to determine the wetland and mangrove community structure. These values will be input into the Uniform Mitigation Assessment Method form to determine the amount of compensatory mitigation that would be required. The elevation data collected will be used to determine the volume of fill material that would need to be removed to return the area to previous grades. ESA will provide a mitigation plan which will include grading design and a planting plan for restoration of the site with an aerial background on 22" x 34" size sheets. ESA will also generate a probable opinion of cost for the restoration plan and also a cost comparison to the purchase of mitigation credits for the wetland and mangrove impacts from a local mitigation bank.

FEE ESTIMATE

August 3, 2020

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The fee estimate for the task listed above totals **\$19,600.00**. This will be considered a time-and-materials fee estimate, which will not be exceeded without prior written authorization from the client.

Please note that the following assumptions were used in developing this scope and fee estimate for this project. If additional work time is required due to the inaccuracy of these assumptions or due to future changes in scope, the client will be notified prior to the work being performed. Written authorization will be obtained from the client prior to performing the work.

1. This scope is based on a one day of data collection in the field for a three-person crew. If a longer field data collection effort is needed ESA will re-evaluate the level of effort required and provide an amendment to this scope.
2. Data points collected and elevation data will be for design purposes only and will not be a signed and sealed topographic survey. No boundary or easement information will be provided. If the Town requires this level of survey, ESA can provide a separate scope and fee for this effort.

ESA staff can begin the listed tasks immediately upon acceptance of this scope and fee. If these terms and conditions are satisfactory, please authorize the work by accepting this scope of services so that ESA can provide a contract which needs to be executed within 30 days of the date first written above. Upon receipt of such authorization, this document shall constitute a binding Agreement.

Thank you for the opportunity to provide this scope and fee. ESA's PM will be Bryan Flynn, PE; please contact him at (772) 633-5300 or bflynn@esassoc.com if you have any questions or require additional information.

Sincerely,

ESA



Bryan D. Flynn, PE