

**AMENDMENT NO. 3 TO CONTRACT NO. 2012000050  
AGREEMENT BETWEEN CHARLOTTE COUNTY  
and  
COASTAL ENGINEERING CONSULTANTS, INC.  
for  
STUMP PASS TEN-YEAR MANAGEMENT PLAN**

**THIS AMENDMENT NO. 3** to Contract No. 2012000050 (hereinafter "Amendment"), is made and entered into this 3<sup>rd</sup> day of March 2015 by and between CHARLOTTE COUNTY, a political subdivision of the State of Florida, 18500 Murdock Circle, Port Charlotte, Florida 33948-1094, hereinafter referred to as the "County," and COASTAL ENGINEERING CONSULTANTS, 3106 South Horseshoe Drive, Naples, Florida 34104-6137, hereinafter referred to as the "Consultant."

**WITNESSETH**

**WHEREAS**, County issued Request for Proposal (RFP) No. 2012000050 to retain a Consultant to provide a ten year beach and inlet management plan for Stump Pass to include, but not be limited to, an alternative analysis, design, permitting, construction support, and monitoring (the "Project"); and

**WHEREAS**, Consultant submitted a proposal in response to RFP 2012000050 and was subsequently selected by County as the company to provide the services requested by RFP 2012000050; and

**WHEREAS**, the parties entered into Contract No. 2012000050 (hereinafter the "Contract") on or about April 16, 2012, for Consultant to provide consulting services for the Project; and

**WHEREAS**, the parties entered into Amendment No.1 to the Contract on or about October 18, 2012, to acquire additional consulting services from Consultant as a result of the impact of Tropical Storm Debby in June of 2012 which impacted the coastline of Charlotte County and the Project resulting in beach erosion, channel shoaling, and the loss of natural resources and habitats; and

**WHEREAS**, County entered into Amendment No. 2 to the Contract on or about February 13, 2014, to acquire additional services relating to the 2014 Annual Monitoring, including Physical and Biological Monitoring; and

**WHEREAS**, County now desires to acquire additional surveying and consulting services from Consultant, as described in the attached Exhibit A entitled "Charlotte County 10-Year Beach and Inlet Management Plan, 2015 Scope of Services", to perform the 2015 Annual Monitoring and other services, and Consultant desires to provide said services in accordance with the Contract, RFP No. 2012000050, Consultant's proposal, and subsequent negotiations between the parties.

**NOW, THEREFORE**, the County and the Consultant, in consideration of the mutual covenants contained herein, do agree as follows:

**ARTICLE I**  
**INCORPORATION / COMPENSATION / SERVICES**

1.1 The above Recitals are hereby incorporated herein and made a part of this Amendment.

1.2 The provisions of Exhibit A entitled "Charlotte County 10-Year Beach and Inlet Management Plan, 2015 Scope of Services" are attached hereto and incorporated into and made a part of this Amendment.

1.3 This Amendment to the Contract shall consist of the services which Consultant agrees to perform in accordance with the terms found in this Amendment and Exhibit A. In accordance with this Amendment, the parties agree that the County shall pay Consultant an amount not to exceed Two Hundred Ninety Eight Thousand One Hundred Thirty Three Dollars (\$298,133.00) to perform these services in accordance with the terms of this Amendment and Exhibit A.

**ARTICLE II**  
**MISCELLANEOUS**

2.1 Any terms used in this Amendment shall have the same meanings and definitions as they have in the Contract.

2.2 All other provisions of the Contract not in conflict with this Amendment shall remain in full force and effect.

2.3 The provisions of this Amendment and Exhibit A are specifically incorporated into and made a part of the Contract.

THE REMAINDER OF THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the parties hereto have caused the execution of these premises as of the date and year first above written.

WITNESSES:

Signed

By:

Print

Name:

Date:

Signed

By:

Print

Name:

Date:

COASTAL ENGINEERING  
CONSULTANTS, INC.

Signed by:

Print Name:

Title:

Date:

ATTEST:

Barbara T. Scott, Clerk of Circuit  
Court and Ex-officio Clerk to the  
Board of County Commissioners

By:

Deputy Clerk

BOARD OF COUNTY COMMISSIONERS  
OF CHARLOTTE COUNTY, FLORIDA

By:

William G. Truex, Chairman

Date:

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

By:

Janette S. Knowlton, County Attorney

LR 15-3295

Exhibit List:

Exhibit A – Charlotte County 10-Year Beach and Inlet Management Plan 2014 Scope of Services

## **Charlotte County 10-Year Beach and Inlet Management Plan 2015 Scope of Services**

**CEC File No. 15.001**

**January 30, 2015**

### **TASK 1 – 2015 BIOLOGICAL MONITORING**

**Task 1A – Seagrass Survey:** CEC shall conduct the Summer 2015 seagrass survey and prepare and submit the monitoring report in accordance with the FDEP-approved 2012 Seagrass Monitoring Plan.

**Task 1B – Sea Turtle Monitoring:** The County will:

- retain the local marine turtle permit holders (Turtle Consultant) to fulfill Sections 6 and 13 of the FDEP-approved Sea Turtle Protection Plan (STPP) dated February 1, 2010;
- conduct monthly artificial lighting surveys by May 15 and again by June 15, July 15, August 15, and September 15 of the 2015 nesting season as required by Special Condition 17 of the FDEP permit;
- Submit a summary report of each survey, including property owner documentation, to FFWCC by the first of each month following each survey; and
- Submit a final summary report to FFWCC by December 15, 2015 for a total of 6 reports.

Using the GPS coordinates of sea turtle nests from R1 to R57, provided by the County, CEC shall prepare maps illustrating the location of the nests overlaid on aerial photographs to be submitted to the agencies with the Turtle Consultant's final summary report for the 2015 monitoring season.

**Task 1C – Shorebird Monitoring:** CEC shall retain Shorebird Consultants from February 1, 2015 through August 31, 2015 to fulfill the requirements for the monitoring of shorebirds in accordance with the agency-approved Shorebird Protection Plan (SBPP) dated February 1, 2010. Shorebird Consultants will prepare monthly reports for FFWCC and FDEP summarizing daily observations of shorebirds and their activity (e.g., foraging, resting, nesting, courtship behavior). CEC shall:

- provide technical support services for the County by reviewing and commenting on the Shorebird Consultants' implementation of the agency-approved SBPP as reflected in the reports;
- arrange and attend two (2) meetings with the County and Shorebird Consultants;
- will prepare graphics showing nesting locations and similar information derived from Shorebird Consultants reports.

Per Special Condition 25b of the FDEP permit, the County will then submit the monthly reports to FDEP for the 2015 monitoring season.

### **TASK 2 – EROSION CONTROL LINE**

**Task 2A – Mean High Water Survey:** CEC shall obtain verification from FDEP as to the elevation for Mean High Water (MHW) for the Updrift Beach Fill (UBF). CEC shall request from Office of Survey and Mapping (Title and Land Records Section), a copy of the title

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determination which identifies state owned uplands adjacent to the UBF and private submerged lands previously conveyed by the State of Florida, for example via deed or Legislative grant, as well as areas within the UBF boundaries subject to leases and easements. CEC shall consult with FDEP for most recent information on the location and availability of DEP 2nd order (or better) control monuments, and UBF boundary. CEC shall conduct a MHW survey of the UBF in accordance with FDEP requirements. CEC shall prepare the MHW survey deliverables in draft form and submit them to FDEP for their review. CEC shall respond to one FDEP Request for Additional Information (RAI). CEC shall finalize and submit the survey deliverables in accordance with FDEP requirements.

**Task 2B – Erosion Control Line:** CEC shall assist the County draft a local government resolution in support of the establishment of an Erosion Control Line (ECL) for the UBF along the south end of Manasota Key which is to be restored with beach compatible sand and stabilized with a low-crested permeable terminal groin. Assist the County process the resolution with FDEP. CEC shall assist the County consult with the property appraiser office to develop a comprehensive list of all riparian owners of record of upland property located within 1,000 feet (radial distance) of the proposed ECL and determine the recording requirements for the recordation of the final State Trustees ECL Resolution in the County's Official Record. Property owners shall be identified by his or her name and address appearing upon the latest tax assessment roll.

Prior to scheduling public workshop and hearing, CEC shall assist the County arrange for and attend via teleconference a briefing with the FDEP hearing officer. Upon receipt of the Notice of Filing of the MHW survey from FDEP, the County will chose a location and will schedule a date and time for a public workshop, immediately followed by a Public hearing. CEC shall assist the County develop the itinerary for both the workshop and public hearing. Additionally, the County should discuss the notice of the ECL workshop/hearing in a Board of County Commissioners meeting before the actual workshop or hearing is held. Scheduling the workshop and hearing is also dependent on the likelihood of issuance of a Joint Coastal Permit from FDEP. CEC shall assist the County coordinate with the FDEP to determine the appropriate schedule for the meetings and to coordinate the hearing officer's availability.

CEC shall assist the County prepare the necessary public notice and submit them to FDEP for review and approval. CEC shall assist the County complete the noticing requirements described below as well as preparing the legal descriptions and maps. The process of noticing and conducting the public workshop and hearing for ECL establishment must meet the requirements of Chapter 120, F.S. and 161.161(4). General guidelines for notices for the workshop and hearing are as follows:

- Notice must be published in a local newspaper once a week for three consecutive weeks prior to the public workshop and hearing. The last day of publication may be the day of the workshop. The Notice must identify the proposed project name, section, township, range, and county in which the project is proposed, and include the location, address, date and time of the Public workshop and hearing;
- Notices of public workshop or hearing must be sent certified mail to all riparian owners of record of upland property located within 1,000 feet (radial distance) of the proposed ECL. Property owners shall be identified as his or her name and address appear upon the latest tax assessment roll. The Notice should also be used to inform other interested parties of the proposed line. Proof of certified mailings must be submitted to FDEP.

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- Notices to Riparian owners shall include the items listed above, the legal description of the proposed Erosion Control Line; and a map depicting the location of the proposed line;
- Notice must be published in the Florida Administrative Register (FAR) no less than seven days prior to the public hearing. FAR noticing is not explicitly required for the public workshop, but should be provided along with the hearing as a matter of policy.

CEC shall prepare "D size" maps of the entire MHW for display during the hearing. Maps can be provided as posters or in plats on a table for display. If maps are provided, multiple copies are recommended for easy accessibility.

CEC shall assist the County transmit digital copies of the following documents to FDEP:

- Proof of publication of the public workshop and hearing notices in the Florida Administrative Register;
- Proof of publication of the public workshop and hearing notices in the local newspaper.
- Certified mail receipts as proof of notification of the riparian property owners of the public workshop and hearing;
- Copies of the public workshop and hearing notices that were mailed to the riparian property owners;
- Draft and final workshop and hearing agendas and presentations to FDEP for review.

CEC shall assist the County prepare for, attend, and present at the public workshop and hearing. CEC shall assist the County complete the ECL recording process. CEC shall provide the County and FDEP with the necessary signed and sealed survey deliverables for the recording process.

**TASK 3 – HARDBOTTOM SURVEYS/ALTERNATE PIPELINE CORRIDOR SURVEY**

**Task 3A – Pre-Construction Pipeline Corridor Hardbottom Survey:** CEC shall conduct a diver survey of the hardbottom in the pipeline corridor prior to construction. The diver shall provide a descriptive characterization (qualitative assessment) of the hardbottom. The diver shall conduct a video survey with a camera that is free from distortion (not a GoPro) and at a speed that will allow quantitative analysis to be done. This information will allow the community structure to be evaluated using the Unified Mitigation Assessment Method (UMAM), if impacts occur. No analysis of the video will be required unless there are impacts (e.g., rupture). It is noted that the DEP permit will be conditioned to include an additional survey in the event a rupture of the pipeline occurs during construction as well as a post-construction survey. These two construction related surveys will be authorized as part of the construction scope of services anticipated in Fall of 2015. **This task requires pre-approval by the County Project Manager.**

**Task 3B – Alternate Pipeline Corridor Survey:** Due to the presence of hardbottom within the pipeline corridor, and the additional construction cost associated with crossing the hardbottom using floating pipeline, it is recommended that alternate corridors be explored to try and identify gaps in the hardbottom that could be utilized for laying submerged pipeline, thus avoiding the additional construction costs. CEC shall prepare, submit and coordinate a 1A-32 permit from SHPO prior to any cultural resource remote sensing survey of alternate pipeline corridor alignments extending from the offshore borrow areas to the beach fill. CEC shall conduct a detailed level combined geophysical and cultural resources survey of the alternate pipeline

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corridor alignments. A budget of 20 nautical line miles is included. The approximate line spacing within the corridor will be 30 meters (~100 feet). The combined survey will include bathymetric, side-scan sonar, and magnetometer equipment. A Differential GPS (DGPS) will be utilized during the survey to accurately record track-line position.

The bathymetric survey will consist of obtaining sounding data using a Trimble RTK GPS or a Trimble Real-time DGPS System, Innerspace Digital Fathometer, and Hypack Navigation Software. The survey will be performed using procedures acceptable to FDEP and meeting USACE standards. CEC shall analyze and interpret the data to prepare bathymetric charts with track lines superimposed. The side-scan sonar survey shall consist of collecting sonar imagery and analyzing it for surficial bottom features that can indicate the presence of hardbottom, shipwrecks, debris, pipelines and other bottom features that may interfere with the permitting or dredging process. Side-scan data will be collected using the Edge Tech Model 4200-FS digital chirp system or approved equivalent. The side-scan imagery will be geo-encoded using the tow-fish position supplied by the Hypack Navigation Computer and stored in the Edge Tech native -- jstar (JSF) format on the side-scan system hard drive. Dual frequency (300 KHz and 600 KHz) data will be collected for the entirety of the survey area. The range scale to be shall be set at 100 meters per-side for a total swath of 200 meters. Stored electronic data will be processed into HTML/Jpeg files (HTMLs). HTMLs open in generic browser software and display the sonar imagery with active local grid (Florida State Plane) and geographic coordinates (Lat, Lon) matched to the cursor position. A digital sonar mosaic shall be constructed and provided as a Geo-Tiff file for importation to GIS. An AutoCAD drawing of digitized bottom features will be provided for overlaying the mosaic. The magnetometer data shall be collected using the Geometrics Model G-882 Digital Cesium System or approved equivalent with a built in depth sensor and altimeter. The magnetometer total field, depth and altitude data will be displayed by the Hypack Navigation Computer. The Hypack software will be configured to track the magnetometer tow-fish position with each incoming magnetometer reading. Each reading, combined with position, depth and altitude is stored in the navigation computer hard-drive. Stored magnetometer data will be processed and analyzed for anomalies in the earth's magnetic field that are generated by ferrous objects such as shipwrecks, pipelines, cables and debris. These anomalies can affect the earth's field whether exposed on the surface or buried in the sediment. Detected anomalies will be compared to sonar and seismic data for correlation. A magnetic contour map will be produced for analysis of potential alignment of anomalies as cultural or hazardous features.

CEC shall provide a historic cultural resource report prepared by a professional archeologist and submit the report to SHPO for concurrence. CEC shall contact SHPO to determine the status of SHPO review. The budget includes a response to one RAI from SHPO. The report will contain the coordinates for "mag hits". If a "mag hit" is determined to be a potential significant submerged cultural resource eligible under National Register Of Historic Places criteria, buffer zones will be superimposed on the pipeline corridor drawing by CEC to facilitate the avoidance of these features during dredging operations. **This task requires pre-approval by the County Project Manager.**

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**TASK 4 – 2015 SURVEYS**

The surveys shall be performed to meet BBCS Technical Standards established in the latest *BBCS Monitoring Standard for Beach Erosion Control Projects* and USACE hydrographic standards. The surveys shall be utilized in Task 6 for preparing the Bid Plans for incorporation into the Bid Documents. The surveys shall reference the Florida West Zone 1983 (horizontal) and North American Vertical Datum of 1988 (vertical).

**Task 4A – Beach Fill Surveys:** CEC shall conduct the 2015 profile surveys of the beach fills and adjacent beaches from reference monument R8 to R47. CEC shall locate MHW adjacent to Stump Pass. CEC shall collect additional survey data in the vicinity of Stump Pass to coincide with supplemental survey lines developed for project design.

**Task 4B – Borrow Areas:** CEC shall conduct the 2015 bathymetric survey of Offshore Borrow Areas A1 and A2.

**Task 4C – Navigation Channel:** CEC shall conduct the 2015 bathymetric survey of the Stump Pass Navigation Channel.

**Task 4D – Aerial Photographs:** CEC shall solicit proposals from qualified contractors and retain the lowest, responsive bid aerial subcontractor to collect scale-rectified aerial photographs as close as possible to the timeframe in Tasks A through C above.

**Task 4E – Hydraulic Monitoring:** Due to the shoaling that was measured in the 2014 survey that led to the hydraulic reduction in the inlet, CEC shall conduct the hydraulic monitoring survey and analysis as close as possible to the timeframe in Tasks A through C above.

**Task 4F – Performance Assessment:** CEC shall prepare a performance assessment summarizing and discussing the data collected in Tasks A through E above. The assessment will include a comparative review of project performance to performance expectations and identification of adverse impacts attributable to the project; erosion and accretion patterns within the monitored area between 2014 and 2015 surveys; analysis of monitoring results for patterns, trends, or changes cumulatively since 2011 project construction; hydraulic analysis of the inlet; and appendices including plots of beach profiles, borrow area sections, inlet sections and aerial photographs.

**TASK 5 – STUMP PASS CONDITION SURVEYS**

CEC shall conduct bathymetric surveys of the Stump Pass Navigation Channel and locate existing navigation aids in response to reports of shoaling or after storm events. CEC shall reduce the data and provide a color contour map depicting the elevation contours, existing aids, and recommendations for relocation/installing aids. The surveys shall reference the Florida West Zone 1983 (horizontal) and North American Vertical Datum of 1988 (vertical). Three surveys are included in the budget. **Each survey requires pre-approval by the County Project Manager.**



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**TASK 6 – BID SERVICES**

**Task 6A – Bid Documents:** Based on the 2015 surveys, CEC shall prepare for incorporation in the Bid Documents, Bid Plans to show the general scope, character and extent of the work to be furnished and performed by the contractor. CEC shall update the beach fill, borrow area, navigation channel, and terminal groin design plans; and compute dredge and fill quantities. CEC shall interview potential bidders to conduct a constructability review and value engineering analysis. Based on the interviews and analysis, CEC shall identify components of the Project that could be accomplished in more cost effective methods within the spirit and intent of the Project permits. CEC shall finalize the Bid Plans and Technical Specifications to reflect same. CEC shall update the Opinion of Probable Construction Cost to construct the Project. CEC shall review the County's standard general conditions, instructions to bidders, etc... and prepare for review and approval by the County, supplemental conditions, bid forms, and other related documents for inclusion in the Bid Documents.

**Task 6B – Bid Process:** CEC shall assist the County in coordinating a one-time bid process. These services will include attending one meeting as requested by the County, e.g., pre-bid meeting; assisting the County issue addenda as appropriate to interpret, clarify or expand the Bid Documents; assisting the County in obtaining bids from dredging contractors; assisting the County in evaluating the bids; and making a recommendation for award to the lowest responsive bidder.

**TASK 7 – CONTRACT PROCUREMENT AND NOTICE TO PROCEED**

**Task 7A – Contract Procurement:** CEC shall assist the County evaluate opportunities with the contractor to provide cost savings, assist the County negotiate the terms and conditions of the construction contract with the contractor, and assist the County issue Notice of Award and Notice to Proceed. If the County engages in negotiations with the contractor, CEC shall assist the County with respect to technical and engineering issues that arise during the negotiations.

**Task 7B – Notice to Proceed:** Based upon the agency requirements, CEC shall prepare and assemble the attachments and supporting documents and submit the request to the DEP for them to issue the Notice to Proceed with construction. CEC shall coordinate with the County and DEP to address one round of questions, edit the documents, and submit final versions for approval.

**TASK 8 – 2015 STAKEHOLDER COORDINATION**

**Task 8A – Stakeholder Meetings:** CEC shall attend and serve as the County's representative for up to six (6) stakeholder meetings including but not limited to the Beaches and Shores Committee, Board of County Commissioners, Marine Advisory Committee, and Parks and Recreation Committee. CEC shall provide technical support services for the County specific to stakeholder coordination.

**Task 8B – Riparian Owner Construction Easements:** CEC shall provide technical support services to assist the County obtain the necessary construction easements from private property

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owners within the construction limits. CEC shall prepare maps and exhibits depicting the approximate limits of work and extent of the easements. CEC shall assist the County draft easement language.

**Task 8C – FDEP Recreation and Parks Coordination:** CEC will provide the County will technical support in addressing the project components specific to DRP including the temporary construction access agreement.

**TASK 9 – ANNUAL FUNDING REQUEST**

CEC shall assist the County prepare and submit the 2016-2017 annual funding request to the State of Florida for inclusion in the Beach Erosion Control Program. CEC shall assist the County respond to FDEP's request for additional information and critique of the funding application. CEC shall assist the County prepare and submit the quarterly monitoring reports for FY 2015-16.

**TASK 10 – CONTINGENCIES**

Due to the complex nature of the work involving marine environments, it is anticipated that additional work may be necessary such as data collection, permitting, stakeholders meetings, or agency coordination. A contingency budget is recommended for these circumstances. All scopes of work under this task must be reviewed and approved by the County Project Manager prior to conducting the additional work.

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**DELIVERABLES**

For all specified deliverables, CEC shall prepare and submit to the County a draft deliverable in electronic format (e.g., pdf file). CEC shall review the draft deliverable with the County, make one-round of revisions as may be identified by the County, and submit one (1) hard copy and one (1) digital copy in the appropriate formats (e.g. Word, Excel, PowerPoint, AutoCAD, shape file, etc.) of all deliverables to the County. The following is a list of deliverables to be provided.

Task 1A

- Summer 2015 Seagrass Monitoring Survey Report

Task 1B

- 2015 Sea Turtle Monitoring Nest Location Aerial Exhibits and Artificial Lighting Survey Reports

Task 1C

- 2015 Shorebird Monitoring Data and Reporting of Results
- Meeting Agendas and Minutes
- Technical Review of County prepared 2015 Annual Monitoring Report

Task 2A

- MHW Survey Deliverables

Task 2B

- Annotated Local Government Resolution for ECL
- Public Workshop and Hearing Itineraries, Agendas and Presentations
- Annotated Public Notices
- "D size" ECL Maps
- ECL Survey Deliverables for Recording

Task 3A

- Hardbottom Diver Survey Report & Video

Task 3B

- 1A-32 Permit Application to SHPO
- HTML files of the side-scan data, and an Arc GIS shapefile of side-scan tracklines
- Side-scan anomalies correlated with seismic and magnetometer results
- Map of digitized features
- Digital sonar mosaic in the form of a geo-tiff
- Magnetometer anomalies correlated with seismic and side-scan results
- XYZ files of magnetic data for contour mapping
- Magnetic contour chart
- Cultural Resources Report by the Principal Investigator (Archeologist)
- SHPO RAI Response

Task 4A

- 2015 Beach Profile Survey Data Files
- Beach Profiles and MHW Shoreline Plots

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Task 4B

- 2015 Offshore Borrow Area Survey Data Files
- Offshore Borrow Area Contour Map and Cross Sections

Task 4C

- 2015 Navigation Channel Survey Data Files
- Navigation Channel Contour Map and Cross Sections

Task 4D

- 2015 Aerial Photographs and Survey Report

Task 4E

- 2015 Inlet Hydraulic Data

Task 4F

- 2015 Performance Assessment

Task 5

- Stump Pass Condition Survey Contour Map, Recommendations for Navigation Aids

Task 6A

- 2015 Project Bid Plans and Technical Specifications
- Final Opinion of Probable Construction Cost
- Bid Document Support Forms (e.g., Supplemental Conditions, Bid Forms)
- Addenda
- Bid Process Letter of Recommendation

Task 7

- Notice to Proceed (NTP) Submittal to DEP
- One Response to DEP on NTP Request

Task 8

- Stakeholder Meeting Agendas and Meeting Minutes
- Project Schedule and Updates
- Maps and Exhibits of Easement Limits
- Construction Easement Language Recommendations

Task 9

- Annual Funding Request and Technical Support Documents
- Funding Application RAI Response No. 1
- FDEP Funding Assessment Critique No. 1

Charlotte County 10-Year Beach and Inlet Management Plan: 2015 Monitoring, Surveys and Services  
CEC File No. 15.001  
January 30, 2015

Coastal Engineering Consultants, Inc.														Direct Costs	
Task Description														Amount	Total
Principal Geologist \$211	Principal Engineer \$203	Principal Surveyor \$180	Senior Engineer \$170	Senior Scientist \$170	Coastal Modeler \$138	Managing Engineer \$138	Marine Surveyor \$113	Project Engineer \$113	Coastal Planner \$108	Senior Technician \$88	Project Coordinator \$62	2-Man GPS Crew \$185	Total Fees		
<b>TASK 3 - 2015 BIOLOGICAL MONITORING</b>															
0	4	0	0	52	0	0	24	0	0	32	3	0	\$25,169	\$23,421	\$18,550
0	3	0	0	10	0	0	0	0	0	20	6	0	\$15,386	\$1,641	\$15,027
0	6	0	0	20	0	0	0	0	0	0	12	0	\$4,441	\$380	\$4,821
													\$22,000	\$22,000	\$27,382
<b>TASK 2 - EROSION CONTROL LINE</b>															
2	2	4					8				4		\$23,332	\$831	\$24,163
10	40						16		14	30	30	10	\$4,832	\$178	\$4,888
													\$18,700	\$666	\$19,355
<b>TASK 4 - HARD BOTTOM SURVEYS/ALTERNATE PIPELINE CORRIDOR SURVEY</b>															
2	2	4		40			40				4		\$18,730	\$3,707	\$52,437
2	4	2	4				16			15	2		\$14,524	\$3,092	\$17,526
													\$4,208	\$30,705	\$34,911
<b>TASK 4 - 2015 SURVEYS</b>															
4	8	14	18	0	0	0	44	42	0	44	12	20	\$25,342	\$3,488	\$28,810
4	4	8	8	0	0	0	16	22	0	14	4	10	\$11,180	\$2,888	\$13,878
	2	2	2		8		20	20	0	8	2	10	\$9,216	\$1,673	\$10,788
0	4	12	5	0	0	0	0	0	0	40	8	0	\$6,948	\$16,639	\$24,184
4	4	0	5	0	24	20	0	4	0	0	4	0	\$9,832	\$3,245	\$13,077
4	10	2	5	4	40	12	0	16	0	28	18	0	\$17,660	\$438	\$17,988
<b>TASK 5 - STUMP PASS CONDITION SURVEYS</b>															
3	3	3			6	3	27	27		12	3		\$10,254	\$3,812	\$14,066
													\$10,254	\$3,812	\$14,066
<b>TASK 6 - BID SERVICES</b>															
4	4	2	8			8		8		12	2		\$9,018	\$0	\$9,018
0	6	0	6	0	0	4	0	0	0	0	6	0	\$5,728	\$0	\$5,728
													\$3,290	\$0	\$3,290
<b>TASK 7 - CONTRACT PROCUREMENT AND NOTICE TO PROCEED</b>															
2	2		8			4		4			4		\$5,468	\$0	\$5,468
				6					8		8		\$2,682	\$0	\$2,682
													\$2,788	\$0	\$2,788
<b>TASK 8 - 2015 STAKEHOLDER COORDINATION</b>															
0	16	0	0	16	0	0	0	0	0	0	16	0	\$14,352	\$468	\$14,820
4	4			2		8				8	8		\$6,860	\$468	\$7,428
				2									\$3,484	\$0	\$3,484
4	4			2		4				8	8		\$3,228	\$0	\$3,228
<b>TASK 9 - 2015 ANNUAL FUNDING REQUEST</b>															
2	10	0	0	0	8	8	0	8	0	8	10	0	\$6,904	\$0	\$6,904
													\$6,004	\$0	\$6,004
<b>TASK 10 - CONTINGENCIES</b>															
4	18	0	15	8	18	8	0	8	0	18	2	0	\$13,944	\$0	\$13,944
													\$13,944	\$0	\$13,944
26	130	81	89	156	102	79	211	159	22	304	178	60	\$208,639	\$89,494	\$298,133

## CEC File No. 15.001

### Coastal Engineering Consultants: Detailed Summary of Direct Costs

Task Description	Air's (good kg)	Height (m)	Missage (per mil)	Per Clim (m per 1 day)	Jet Pump (day)	Dive Equipment (day)	Break-Offshore (day)	Hydro System (day)	Fathometer (day)	Tag Otag (week)	Compass Meter (week)	Prints Color	Prints Black	Overnight Direct costs	Total
	\$400	\$125	\$0.55	\$52	\$100	\$100	\$375	\$900	\$150	\$400	\$1,200	\$0.20	\$1.50	\$35	Costs
TASKS															
TASK 1 - 2015 BIOLOGICAL MONITORING															
1A Seagrass Survey			340	2			2								\$1,041
1B Sea Turtle Monitoring												160		4	\$380
1C Shorebird Monitoring															
TASK 2 - EROSION CONTROL LINE															
2A Mean High Water Survey			170									8	2		\$176
2B Erosion Control Line			850									120	18	4	\$558
TASK 3 - HARDBOTTOM SURVEYS/ALTERNATE PIPELINE CORRIDOR SURVEY															
3A Pre-Construction Pipeline Corridor Hardbottom Survey		2	170	4		2	2	2	2						\$3,002
3B Alternate Pipeline Corridor Survey															
TASK 4 - 2015 SURVEYS															
4A Beach Profiles, R8 to R47		4	170	12											
4B Borrow Areas		2	170	2			2	2	2						\$3,458
4C Navigation Channel		2	170	2			1	1	1						\$2,698
4D Aerial Photographs		2	170	6									120		\$1,573
4E Hydraulic Monitoring			340	4	2		2		2	1	1				\$538
4F Performance Assessment												1600	32	2	\$3,245
TASK 5 - STUMP PASS CONDITION SURVEYS															
5A Stump Pass Conditions Surveys			510	3			3	3	3						\$438
TASK 6 - BID SERVICES															
6A Bid Documents															
6B Bid Process															
TASK 7 - CONTRACT PROCUREMENT AND NOTICE TO PROCEED															
7A Contract Procurement															
7B Notice to Proceed															
TASK 8 - 2015 STAKEHOLDER COORDINATION															
8A Stakeholder Meetings			850												\$468
8B Riparian Owner Construction Easements															
8C FDEP Recreation and Parks Coordination															
TASK 9 - 2015 ANNUAL FUNDING REQUEST															
9A Annual Funding Request															
TASK 10 - CONTINGENCIES															
10A Contingencies															
TOTALS	\$0	\$1,500	\$2,151	\$1,520	\$300	\$200	\$5,250	\$6,000	\$1,000	\$400	\$1,200	\$344	\$504	\$420	\$21,789