

RESOLUTION NO. 18-197

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AUTHORIZING THE AWARD OF INVITATION TO BID #18-006 (PROJECT FT19001801), SMATHERS BEACH RENOURISHMENT, INCLUDING ADDITIVE ALTERNATES 1 THROUGH 3, TO EARTH TECH ENTERPRISES, INC. IN AN AMOUNT NOT TO EXCEED \$1,236,160.00; AUTHORIZING NECESSARY BUDGET TRANSFERS; AUTHORIZING THE CITY MANAGER TO EXECUTE THE CONTRACT; PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on May 16, 2018, four bids were received in response to ITB 18-006 for Smathers Beach Renourishment, and it was determined that the bid of Earth Tech Enterprises, Inc. was the lowest responsive bid; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA AS FOLLOWS:

Section 1: That ITB #18-006, Smathers Beach Renourishment Project, including additive alternates 1 through 3, is hereby awarded to Earth Tech Enterprises, Inc. in an amount not to exceed \$1,236,160.00.

Section 2: That this project will be funded in part with funds already budgeted in the Fort Taylor Surcharge Fund account 103-1900-519-4600. FEMA reimbursement funds are anticipated to cover Berm renourishment (alternates 1 thorough 3) and a portion of Smathers Beach based upon post-Irma survey Project HU1701G02. A necessary budget transfer from the Fort Taylor Surcharge Fund account 103-1900-519-9803

to account 103-1900-519-4600/Project FT19000001801, in the amount of \$24,727.75 is approved.

Section 3: That the City Manager is authorized to execute a contract in conformance with the bid documents upon the advice and consent of the City Attorney.

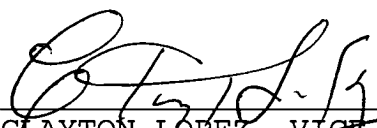
Section 4: That this Resolution shall go into effect immediately upon its passage and adoption and authentication by the signature of the Presiding Officer and the Clerk of the Commission.

Passed and adopted by the City Commission at a meeting held this 19 day of June, 2018.

Authenticated by the Presiding Officer and Clerk of the Commission on 20 day of June, 2018.

Filed with the Clerk on June 20, 2018.

Mayor Craig Cates	<u>Absent</u>
Vice Mayor Clayton Lopez	<u>Yes</u>
Commissioner Sam Kaufman	<u>Absent</u>
Commissioner Richard Payne	<u>Yes</u>
Commissioner Margaret Romero	<u>Yes</u>
Commissioner Billy Wardlow	<u>Yes</u>
Commissioner Jimmy Weekley	<u>Yes</u>


CLAYTON LOPEZ, VICE MAYOR

ATTEST:

CHERYL SMITH, CITY CLERK



THE CITY OF KEY WEST
3140 Flagler Ave Key West, FL 33040 (305) 809-3700

EXECUTIVE SUMMARY

TO: Jim Scholl, City Manager
FROM: Janet Muccino, Project Manager
CC: Greg Veliz, Asst. City Manager
Mark Finigan, Finance Director
Jim Bouquet, Engineering Director
DATE: May 29, 2018
SUBJECT: Resolution approving the award for Smathers Beach Renourishment

ACTION STATEMENT:

Award the Smathers Beach Renourishment to Earth Tech Enterprises, Inc. in the amount of \$1,236,160.00 for the Base Bid and Additive Alternates #1 through #3, authorizing City Manager execution of the contract, and approving any necessary budget amendments/transfers.

BACKGROUND:

Invitation to Bid 18-006 (Project FT19001801) is to place approximately 20,000 tons of sand on Smathers Beach in accordance with Florida Department of Environmental Protection (FDEP) and United States Army Corps of Engineers (USACE) permits. The bid also includes emergency berm rebuilds on Simonton, Dog and South beaches to replace sand loss from Hurricane Irma. The City has applied to FEMA for reimbursement of berm rebuild costs.

ITB #18-006 provides for Smathers Beach Renourishment (Base Bid) and Additive Alternates #1 through 3 to restore FEMA berms on Simonton, Dog and South Beaches respectively. Four (4) bids were received by the City Clerk on May 16, 2018. All bids were determined to be reasonable and responsive. Based on review of the received bids and projected FEMA reimbursement for cost, Engineering Services staff is recommending acceptance of the Base Bid and all three additive alternates. Based on this recommendation, total bid prices for the four submitted proposals are as follows:

1. Earth Tech Enterprises, Inc.	\$1,236,160.00
2. Charley Toppino & Sons. Inc. (CTS),	\$1,260,978.00
3. Eastman Aggregate Enterprises, Inc.	\$1,457,240.20
4. Dickerson Florida, Inc.	\$1,511,362.00

Key to the Caribbean - Average yearly temperature 77° F.

EXECUTIVE SUMMARY

As indicated above, Earth Tech Enterprises, Inc. is the apparent low bidder and subsequently recommended for contract award by Staff. Note that due to FEMA contractual requirements, Local Vendor Preference is not in effect for this project.

FINANCIAL IMPACT:

Smathers Beach Renourishment Project FT19001801 has \$1,036,762.25 remaining, funded from the Fort Taylor Surcharge Fund account 103-1900-519-4600.

Beach berm rebuild projects Alternates 1, 2 and 3 totaling \$50,920 will be funded via FEMA reimbursement under account 001-1910-519-6500 as indicated below:

Alternate #1	South Beach	HU1701G03	\$32,830
Alternate #2	Simonton Beach	HU1701G04	\$12,730
Alternate #3	Dog Beach	HU1701G05	\$ 5,360
<i>Total Berm Rebuild</i>			<i>\$50,920</i>

The Smathers Beach renourishment component of the total project cost is \$1,185,240. Of this total, \$123,750 (2,200 tons at \$56.25 per ton) will be submitted for FEMA reimbursement based on post-Irma survey under Project HU1701G02 / account 001-1910-519-6500 . Therefore, additional funding required is determined as follows:

Total Bid Including Alternates:	\$ 1,236,160.00
Minus FEMA Berm Reimbursement:	\$ (50,920.00)
Minus FEMA Smathers Reimbursement:	\$ (123,750.00)
Minus Available Funds:	<u>\$(1,036,762.25)</u>
Additional Funding Required:	\$ 24,727.75

The \$24,727.75 additional funds required to complete renourishment is available for transfer from the Fort Taylor Surcharge Fund account 103-1900-519-9803 to account 103-1900-519-4600 / Project FT19001801.

PURPOSE & JUSTIFICATION:

Beach renourishment is consistent with the Key West Strategic Plan, The Environment Goal #1: *A natural environment that enhances the "Key West experience" for residents and visitors alike*; Infrastructure Goal #3: *Parks and recreational areas that are accessible to all residents and visitors.*

RECOMMENDATION:

Engineering Services staff recommends awarding Smathers Beach Renourishment to Earth Tech Enterprises, Inc. in the amount of \$1,236,160.00 for the Base Bid and Additive Alternates #1 through #3, authorizing City Manager execution of the contract, and approving any necessary budget amendments/transfers.

INTEROFFICE MEMORANDUM

To: Janet Muccino, Project Manager
CC: David Sermak, Purchasing
From: Cheri Smith, City Clerk *Cheri*
Date: May 16, 2018
Subject: **SMATHERS BEACH RENOURISHMENT; BID 18-006**

The following bids were opened Wednesday, May 16, 2018 at 3:30 p.m. in response to the above referenced project.

1.	Earth Tech Enterprises, Inc. 6180 Federal Court Fort Myers, FL 33905	Total: \$1,185,240.00 Alt #1 \$ 32,830.00 Alt #2 \$ 5,360.00 Alt #3 \$ 12,730.00
2.	Eastman Aggregate Enterprises, Inc. 3705 Bellevue Avenue Lake Worth, FL 33461	Total: \$1,390,927.50 Alt #1 \$ 41,620.60 Alt #2 \$ 9,349.60 Alt #2 \$ 15,342.50
3.	Dickerson Florida, Inc. 3122 N. 25 th Street Ft. Pierce, FL 34946	Total: \$1,456,012.00 Alt #1 \$ 34,300.00 Alt #2 \$ 6,800.00 Alt #3 \$ 14,250.00
4.	Charley Toppino & Sons, Inc. P O B ox 787 Key West, FL 33041	Total: \$1,213,098.00 Alt #1 \$ 30,870.00 Alt #2 \$ 5,040.00 Alt #3 \$ 11,970.00

PROPOSAL

TO: CITY OF KEY WEST
ADDRESS: 1300 WHITE STREET
P.O. BOX 1409
KEY WEST, FLORIDA 33041

PROJECT TITLE: ITB #18-006: SMATHERS BEACH RENOURISHMENT

ENGINEERING PROJECT NUMBER: FT 19001801

BIDDER'S INFORMATION

Contact Name: Earth Tech Enterprises, Inc.
Email: CG@earthtechenterprises.com
Telephone: 239-774-1223

BIDDER'S DECLARATION AND UNDERSTANDING

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Proposal are those named herein, that this Proposal is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the proposal is made without any connection or collusion with any person submitting another Proposal on this Contract.

The Bidder further declares that he has carefully examined the Contract Documents for the construction of the project, that he has personally inspected the site, that he has satisfied himself as to the quantities involved, including materials and equipment, and conditions of work involved, including the fact that the description of the quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the Contract Documents, and that this Proposal is made according to the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Proposal.

The Bidder further agrees that he has exercised his own judgment regarding the interpretation of subsurface information and has utilized all data that he believes pertinent from the Engineer, Owner, and other sources in arriving at his conclusions.

The Bidder further agrees that the Owner may "non-perform" the work in the event that the low bid is in excess of available funding. Non-performance will be determined prior to Notice of Award.

CONTRACT EXECUTION AND BONDS

The Bidder agrees that if this Proposal is accepted, he will, within ten (10) days including Sundays and legal holidays, after Notice of Award, sign the Contract in the form annexed hereto, and will, at that time deliver to the Owner evidence of holding the required licenses and certificates, and will, to the extent of his Proposal, furnish all machinery, tools, apparatus, and other means of construction and do the work and furnish all the materials necessary to complete all work as specified or indicated in the Contract Documents.

CERTIFICATES OF INSURANCE

The Bidder agrees to furnish the Owner, before commencing the work under this Contract, the Certificates of Insurance as specified in these Documents.

START OF CONSTRUCTION AND CONTRACT COMPLETION TIME

The Bidder further agrees to begin work within ten (10) calendar days after the date of the Notice to Proceed. The contractor can expect work to occur during turtle nesting season which begins on April 15, 2018. No sand can be placed on the beaches before a turtle nesting survey has been conducted each morning by qualified personnel (e.g., Save-A-Turtle volunteers). Sand may be allowed to be placed at staging areas on the beaches if secured with proper silt fencing and approved by permitting agencies. Contractors need to submit a construction plan (including, but not limited to; staging plan, Maintenance of Traffic (MOT), equipment, and work schedule) with the bid for approval. Project shall be completed within ninety (90) calendar days from Notice to Proceed.

LIQUIDATED DAMAGES

In the event the Bidder is awarded the Contract and shall fail to complete the work authorized by the Contract within the time limit or extended time limit agreed upon in that Contract, as more particularly set forth in the Contract Documents, liquidated damages shall be paid to the Owner at the rate of \$500.00 per day for all work authorized under the Contract Documents, until the work shall have been satisfactorily completed as provided in the Contract Documents. Sundays and legal holidays shall be included in determining days in default.

The Bidder hereby acknowledges that he has received Addenda No. 1 , _____ ,

_____ , _____ , _____ . (Bidder shall insert No. of each addendum received) and agrees that all addenda issued are hereby made part of the Contract Documents, and the Bidder further agrees that his proposal(s) includes all impacts resulting from said addenda.

SALES AND USE TAX

The Bidder agrees that all federal, state, and local sales and use taxes are included in the stated prices for the work.

UNIT PRICE ITEMS

The Bidder further proposes to accept as full payment for the work proposed herein the amounts computed under the provisions of the Contract Documents and based on the following unit price amounts, it being expressly understood that the unit prices are independent of the exact quantities involved. The Bidder agrees that the unit prices represent a true measure of the labor and materials required to perform the work, including all allowances for overhead and profit for each type and unit of work called for in these Contract Documents. The amounts shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.

BID FORM

PAYMENT AND PERFORMANCE BONDS

1. Payment & Performance Bonds Per / \$1,000 worth of Construction

<u>Quantity</u>	<u>Unit</u>	
1	LS	\$ <u>23,240.00</u>

2. MOBILIZATION AND DEMOBILIZATION. (includes M.O.T., Testing Services, Construction Layout, Field Engineering, General & Supplementary Conditions, Environmental Protection)

<u>Quantity</u>	<u>Unit</u>	
1	LS	\$ <u>30,000.00</u>

3. SMATHERS BEACH SAND (includes purchase, delivery, placement, grading of permit approved sand and all permit conditions)

<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Extended Total</u>
20,000	TONS	\$ <u>56.25</u>	\$ <u>1,125,000.00</u>

4. SMATHERS BEACH TILLING

<u>Quantity</u>	<u>Unit</u>	
1	LS	\$ <u>7,000.00</u>

TOTAL OF ALL UNIT PRICE ITEMS LISTED ABOVE (1-4) (BASE BID)

Total of extended unit price items: \$ 1,185,240.00

One Million One Hundred Eighty Five Thousand Two Hundred Forty Dollars zero Cents
(Amount written in words has precedence)

ADDITIVE ALTERNATES

#1. SOUTH BEACH BERM / PURCHASE, DELIVERY & PLACEMENT OF SAND (includes all costs associated with additional work)

<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Extended Total</u>
490	TONS	\$ <u>67.00</u>	\$ <u>32,830.00</u>

#2. DOG BEACH BERM / PURCHASE, DELIVERY & PLACEMENT OF SAND (includes all costs associated with additional work)

<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Extended Total</u>
80	TONS	\$ <u>67.00</u>	\$ <u>5,360.00</u>

#3. SIMONTON BEACH BERM / PURCHASE, DELIVERY & PLACEMENT OF SAND (includes all costs associated with additional work)

<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Extended Total</u>
190	TONS	\$ <u>67.00</u>	\$ <u>12,730.00</u>

NOTE: THE CITY MAY EVALUATE THE LOWEST BID PRICE BASED ON THE BASE BID ALONE OR WITH ANY OR ALL ADDITIVE ALTERNATES BASED ON THE ANTICIPATED INCLUSION OF THE ADDITIVE ALTERNATES.



ATKINS

THE CITY OF KEY WEST
1300 White Street
Key West, FL 33040

ITB #18 – 006 /SMATHERS BEACH RENOURISHMENT
ADDENDUM NO. 1

This addendum (Addendum No. 1) is issued to clarify and/or modify the previously issued Bid Documents, and is hereby made part of the Bid Documents. All requirements of the Bid Documents not modified herein shall remain in full force and effect as originally set forth. Please attach this Addendum to the Documents in your possession.

Bidders:

Comments on the Bid Documents received from perspective bidders are presented below in regular font, the City responses are provided in **bold font**. The referenced Bid Documents are hereby addended in accordance with the following items:

1. What is the current estimate/budget for the Smathers Beach Re-Nourishment project?

The budgeted amount for Smathers Beach Renourishment is \$1,200,000

2. The bid indicates the bidder must be a licensed contractor, is this a 'General Contractors' license requirement or would we qualify as a certified Florida Underground and Utilities Contractor?

The bidder must be a Licensed Contractor in the State of Florida. It shall be the bidder's responsibility to provide evidence that under Florida State Statute the State License they possess qualifies the bidder to perform the contemplated work in strict accordance with the Contract Documents

3. Is there a list of permits approved upland mines available to us?

See Part 5 – Sand Specification of ITB #18-006

4. The Corps permit lists the approved mines as, ER Jahna - Ortona, Vulcan – Witherspoon, Cemex – Davenport, Cemex - Lake Wales, Stewart – Immokalee. And the DOC/NOAA permit lists the approved sand mines as: Ortona Sand Mine and Witherspoon Sand Plant in Moorehaven, and Palmdale Sand Mine in Palmdale. It would seem that the only 2 mines that meet both of these criteria are ER Jahna Ortona, and Vulcan Witherspoon. Is this correct? Are these the only 2 approved mines?

See Part 5 – Sand Specification of ITB #18-006. All mine listed are approved upland sand sources.

5. I see the Federal and State permits, but no County permit. Is there a County permit for the project?

No Monroe County permit is required for this project.

6. On page 2 of the FDEP QA/QC plan, under Table 1-Sediment Compliance Specifications, it list a Munsell spec of "10 or lighter". But that can't be right. The Munsell chart doesn't even go to a 10. And if it did it would be "absolute white". None of the sand mines can produce "absolute white" sand.

The Munsell spec of "10 or lighter" in the permit is an error. The correct specification should read "Munsell spec of "7 or lighter"."

7. The FDEP QA/QC plan does not list a spec/range for Mean Grain Size. What is the MGS spec/range?

See the attached Sand Source Comparison Table with data provided by the mines during the permit approval process.

8. Are Turbidity Barriers a requirement for Smathers? Any possibility of a variance?

Smathers Beach is located within the Florida Keys National Marine Sanctuary (FKNMS) and is considered an Outstanding Florida Waters (OFW). Turbidity barriers are required. No variance will be issued.

9. Are there any updated surveys available? Hydrographic, Seagrass, Hardbottom, etc.? The surveys in the plans are 6 years old, and obviously do not represent current conditions. How close and where is the seagrass? hardbottom? water depths? etc. This would be helpful in properly developing a work method as well as planning how to lay out turbidity curtain.

The surveys and benthic habitat assessment/maps provided in ITB #18-006 are the most current available. A pre-construction survey and pre-construction benthic habitat assessment will be conducted prior to construction and the findings will be made available to the successful bidder. No major changes in the topography or benthic habitats are anticipated. Water depths are provided in the hydrographic surveys.

10. Please provide info on what approved staging and access areas will be provided.

The approved staging and access area is at the east service entrance to Smathers Beach. Limited staging of equipment may be approved by the City on the "bridle path" across South Roosevelt Blvd.

**Sand Source Comparison
Table**

JOINT COASTAL PERMIT APPLICATION
SMATHERS BEACH MAINTENANCE PROJECT
KEY WEST, FLORIDA

SAND SOURCE COMPARISON TABLE

	Sand Source							
	Existing/Native			Proposed				
Parameter	Ortona Sand Mine 2009	Ortona Sand Mine 2010	Ortona Sand Mine 2011	Ortona Sand Mine 2012	Witherspoon Sand Plant	Stewart Mine	Davenport Sand Mine	Lake Wales Sand Mine
Effective grain size (mm)	0.209	0.233	0.238	0.238		0.20	0.17	0.20
Mean Grain Size (mm)	0.501	0.504	0.522	0.498	0.83	0.40	0.41	0.44
Median Grain size D50	0.463	0.468	0.476	0.458	0.80	0.38	0.44	0.45
Carbonate Content (%)	0	0	0	0	1.46	0.52	0.20	1.90
Munsell Color	10YR 8/1 to 10YR 7/1	10YR 8/1 to 10YR 7/1	10YR 8/1 to 10YR 7/1	10YR 8/1 to 10YR 7/1	10YR 7/1	10YR 8/1 to 10YR 7/1	10YR 8/1 to 10YR 8/2	10YR 8/1 to 10YR 8/2

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

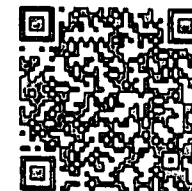
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER	
CGC016677	

The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2018



GEHRING, EDWARD J
EARTH TECH ENTERPRISES INC
110 23RD AVENUE N W
NAPLES FL 34120



ISSUED: 06/21/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1606210001035

Granulometric Report
 Depths and elevations based on measured values



Vulcan Materials Company
 7425 West SR 78
 Moore Haven, FL 33471
 ph 863-287-9192

Project Name: Witherspoon
 Sample Name: Beach Sand
 Analysis Date: 05-08-18
 Analyzed By: J Dampier

Latitude: Longitude: Coordinate System: Elevation (ft):

USCS: SP Munsell: Wet - 10.5YR-8/1 Comments:

Dry Weight (g): 350.40 Wash Weight (g): Pan Retained (g): 0.00 Sieve Loss (%): Fines (%): #200 - 0.17 #230 - 0.17 Organics (%): Carbonates (%): Shells (%): 0.00

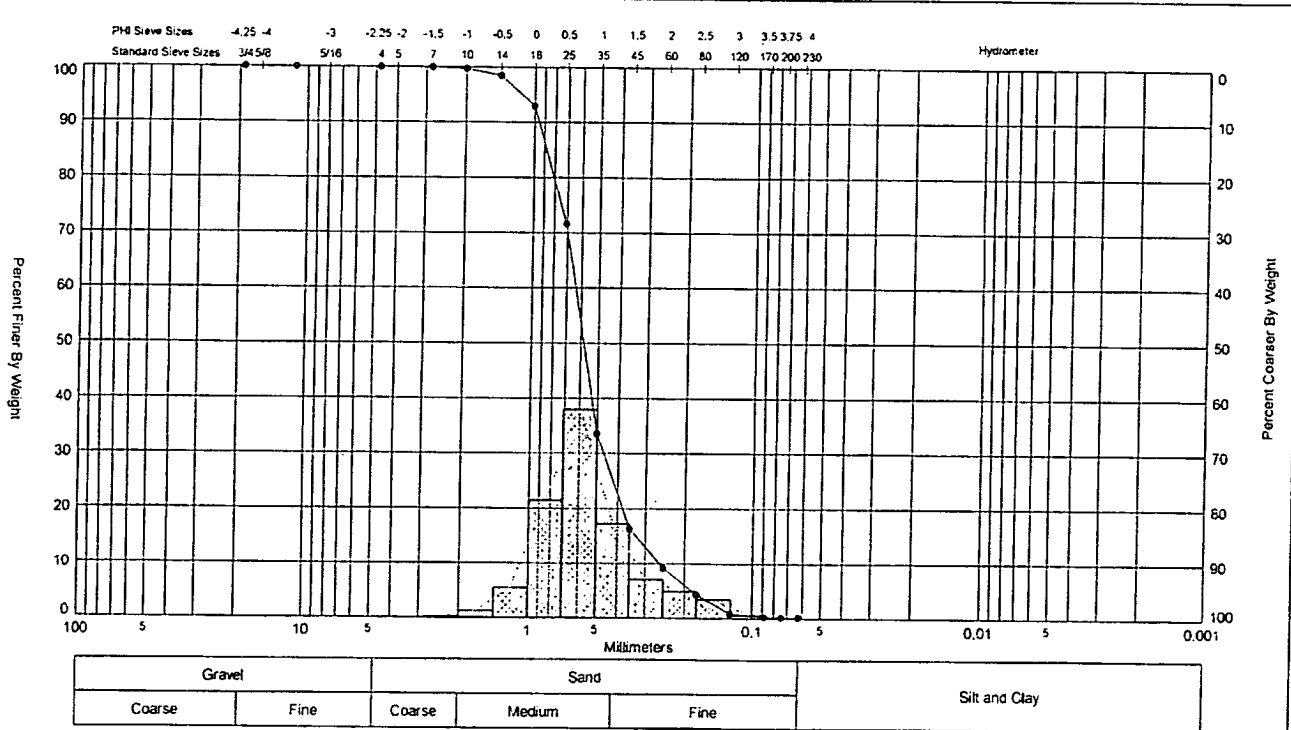
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
3/8"	-3.50	11.31	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.80	0.23	0.80	0.23
14	-0.50	1.41	4.50	1.28	5.30	1.51
18	0.00	1.00	19.30	5.51	24.60	7.02
25	0.50	0.71	74.90	21.38	99.50	28.40
35	1.00	0.50	133.30	38.04	232.80	66.44
45	1.50	0.35	60.50	17.27	293.30	83.70
60	2.00	0.25	24.90	7.11	318.20	90.81
80	2.50	0.18	17.10	4.88	335.30	95.69
120	3.00	0.13	12.20	3.48	347.50	99.17
170	3.50	0.09	2.00	0.57	349.50	99.74
200	3.75	0.07	0.30	0.09	349.80	99.83
230	4.00	0.06	0.00	0.00	349.80	99.83

(Empty space reserved for notes or additional data)

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.43	1.52	1.25	0.78	0.42	0.21	-0.18
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	0.88	0.54	0.73	0.74	3.94	

GRANULARMETRIC REPORT MIA BCH PRODUCTION.GPJ FL DEP ROSS.CDT 5/8/18

MIAMI GRAPHICS, MA BCI PRODUCTION, GP, J. FL DEP ROSS, GDT, 5/8/18



Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
Beach Sand	—●—		SP	#200 - 0.17 #230 - 0.17			0.58	0.54	0.74	3.94	0.73	Project Name:	Witherspoon
Comments:												Analysis Date:	05-08-18
Depths and elevations based on measured values												Analyzed By:	J Dampier
							Vulcan Materials Company 7425 West SR 78 Moore Haven, FL 33471 ph 863-287-9192					Latitude:	
												Longitude:	
												Horizontal System:	
												Vertical System:	

SUBCONTRACTORS (PLEASE SEE ATTACHED)

The Bidder further proposes that the following subcontracting firms or businesses will be awarded subcontracts for the following portions of the work in the event that the Bidder is awarded the Contract:

Portion of Work: _____

Name: _____

Address: _____

Portion of Work: _____

Name: _____

Address: _____

Portion of Work: _____

Name: _____

Address: _____



Smathers Beach Renourishment

Potential Sub-Contractor List

Subcontractor	Scope of Responsibility
<p>Advantage Construction Group 2005 Vilano Avenue North Port, Florida 34286 (941) 323-8129</p> <p>Contact: Brando Thull - Owner</p>	<ul style="list-style-type: none"> • Beach Tilling
<p>Allied Trucking 10741-10761 N.W. 89th Avenue Hialeah Gardens, Fl 33018 (305) 885-4092</p> <p>Contact: Raul Smith – V.P. Sales</p>	<ul style="list-style-type: none"> • Trucking
<p>Vulcan Materials Company Witherspoon Mine 7425 West SR 78 Moore Haven, Florida 33471 (863) 287-9192</p> <p>Contact: Kim Thompson – Sales Manager</p>	<ul style="list-style-type: none"> • Approved Beach Sand Supplier
<p>Ocean Side Solutions 1700 North Orange Ave Orlando, Florida 32804 (407) 362-1522</p> <p>Contact: Joe Doto- President</p>	<ul style="list-style-type: none"> • Survey

SURETY

International Fidelity Insurance Company whose address is
One Newark Center 20th Floor, Newark, NJ 07102
Street City State Zip

BIDDER

The name of the Bidder submitting this Bid is: Earth Tech Enterprises, Inc.
Doing business at 6180 Federal Court
City Fort Myers State Florida Zip 33905

This address is where all communications concerning this Bid shall be sent.

The names of the principal officers of the Corporation submitting this Bid, or of the Partnership, or of all persons interested in this Bid as Principals are as follows:

Name	Title
<u>Chris Gehring</u>	<u>President</u>
<u>Butch McGovern</u>	<u>Operations Manager</u>
_____	_____
_____	_____

If Sole Proprietor or Partnership

IN WITNESS hereto the undersigned has set his/her/its hand this _____ day of _____, 2018.

Signature of Bidder _____

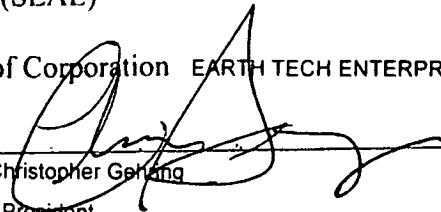
Title _____

If Corporation

IN WITNESS WHEREOF the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this 16th day of May, 2018.

(SEAL)

Name of Corporation EARTH TECH ENTERPRISES, INC.

By:  _____

Christopher Gehring

Title: President

Attest:  _____

Secretary

EXPERIENCE OF BIDDER (PLEASE SEE ATTACHED)

The Bidder states that he is an experienced Contractor and has completed similar projects within the last 5 years.

(List similar projects, with types, names of clients, construction costs, and references with phone numbers. Use additional sheets if necessary.)

* * * * *



Earth Tech Enterprises Beach Project Experience

South Marco Island Tropical Storm Debby Repair Project (truck in haul & placement) Completed December 2016

Marco Island, Florida

Cost \$ 571,234

Owner Contact Gary McAlpin P.E. Coastal Zone Manager
2800 North Horseshoe Drive
Naples, FL 34104
239-252-5342
GaryMcAlpin@colliergov.net

In October of 2016 Collier County Florida awarded Earth Tech a contract to haul and place **19,842 tons of beach sand** at the South end of Marco Island, Florida.

Due very tight access constraints the original design specified the use of conveyors to transport the in haul sand to beach. The plan was to place conveyors in an easement between a high rise condominium and a boardwalk used for public access to the beach.

After meeting with the project stakeholders Earth Tech brought forward that in lieu of conveyors, a series of beach mats could be placed down to create a temporary roadway. This would allow dump trucks to drive on to the beach and greatly accelerate the amount sand delivered and placed each day.

The owner and community stakeholders would not allow the closure of the sidewalks and public beach access adjacent to the project site. This presented unique challenges for staging and receiving the sand trucks. Earth Tech developed a detailed safety and maintenance of traffic plan that also included traffic lane closures.

This project included the truck haul of sand, beach transport with escorts, placement of sand, tilling, surveying, turbidity monitoring, and compliance with permits issued by FDEP, Army Corp of Engineers, UD Fish and Wildlife and FEMA. Notable on this project was the presence of the last active sea turtle nest along the West coast of Florida, which was inside the limits of project.

Despite the access constraints Earth Tech completed the entire project in ten work days.



Earth Tech Enterprises Beach Project Experience

2016 Beach Nourishment (truck in haul & placement) Completed December 2016 Naples, Florida

Cost \$ 1,923,100

Owner Contact Gary McAlpin P.E. Coastal Zone Manager
2800 North Horseshoe Drive
Naples, FL 34104
239-252-5342
GaryMcAlpin@collier.gov

This was the second consecutive time Earth Tech was awarded the contract for Collier County's Beach Nourishment program. The scope of the project called for the truck in- haul of **approximately 116,000 tons of beach sand** from Stewart Materials Mine in Immokalee, Florida.

Collier County purchased the sand materials direct under contract with the sand mine. Earth Tech was responsible to truck the materials to the jobsite. The contract required Earth Tech to work with Collier County staff to conduct individual truck QC sampling and recording of tonnages (by truck ticket).

The area this beach nourishment was lined with high end residential condominiums and beach front resorts including the Naples Ritz Carlton. The work was done during the height of the winter tourism season. Access to the two beach segments was limited to only a single access at each location.

To accelerate the schedule, Earth Tech duplicated operations and worked both segments of the beach at the same time. This effort required extensive maintenance of traffic, daily construction of temporary routes for the public to get on and off the beach, 2 way radio communication with the offsite staging to move trucks in and out without shutting down roads or disrupting normal traffic patterns and daily communication with law enforcement agencies as it relates maintaining the approved truck travel routes

The nourishment contract requirements included beach transport with escorts, placement of sand, tilling, surveying, turbidity monitoring, dune restoration and compliance with permits issues by FDEP, Army Corp of Engineers, US Fish and Wildlife and FEMA. Earth Tech also completed the post construction surveys including required as built survey.

No beach activities were permitted the Thursday, Friday, Saturday, and Sunday of Thanksgiving

Beach nourishment activities began November 2, 2016. The contract called for substantial completion of all work by January 3, 2017. Earth Tech had the project completed and fully accepted in December 10, 2016, which was approximately 3 full weeks ahead of schedule.



Earth Tech Enterprises Beach Project Experience

2016 South End Emergency Beach Nourishment (truck in haul & placement) Completed October 2016

Longboat Key, Florida

Cost \$1,813,100

Duration: 9 days

Owner Contact: Juan Florensa, Public Works Director
600 General Harris Street
Longboat Key, Florida 34228
(941) 361-6411 ext. 2210
jflorensa@longboatkey.org

After the successful completion of the Central Key Beach re-nourishment, the Town of Long Boat Key award Earth Tech Enterprises an emergency in haul truck sand placement project in front of the Resort at Longboat Key Club. This was to start upon completion of the town's 210,000 cubic yard off shore dredging project. The contract called for Earth Tech to mobilize to the site on Monday September 19, 2016 to ensure that the work would be completed by mid October to minimize the impact to the resorts seasonal bookings. On September 2, 2016 Hurricane Hermine passed off the coast of Longboat Key, which delayed the de-mobilization of Norfolk Dredging. Earth Tech was able adjust their mobilization operations and made the required man power adjustments to allow Norfolk Dredging to simultaneously de-mobilize through our project at the South end beach therefore, eliminating schedule impacts to both projects.

This project called for the truck in- haul of approximately 50,000 tons of beach sand from Stewart Materials Mine in Immokalee, Florida. Access to the beach was between the Resort at Longboat Key Club and New Pass. Earth Tech provided extensive maintenance of traffic and coordination to avoid disruption to the resorts guests, staff and daily beach activities.

Earth Tech constructed a truck access corridor directly off the resort's main parking area and between two of the resorts guestroom buildings, which remained active during the project. Due to the lack of beachfront Earth Tech had to first construct a pad out into the Gulf of Mexico to build a pad for the beach mats required for stockpiling of sand and area to load off road haul trucks. Scope of work for Earth Tech Enterprises included truck haul of sand, beach transport with escorts, placement of sand, tilling, surveying, turbidity monitoring, and compliance with permits issued by FDEP, Army Corp of Engineers, UD Fish and Wildlife and FEMA. This project was done during one of most active Sea Turtle nesting seasons in history and Earth Tech's on site personnel worked extremely close with Mote Marine's turtle nest monitoring staff to ensure that beach hauls and sand placement did not impact numerous active sea turtle nests.

As with most beach nourishment projects Earth Tech's operations were Monday through Saturday 6:30 a.m. to 7:30 p.m. averaging 4,500 tons of in haul materials each day. Earth Tech completed the project in 9 days, despite the significant challenge of allowing another contractor to de-mobilize through our work area and avoided distribution to normal working operations of the resort and activities of the guests.



Earth Tech Enterprises Beach Project Experience

Central Key Beach Nourishment Project (truck in haul & placement) Completed July 2016 Longboat Key, Florida

Cost \$10,966,375

Duration: 100 days

Owner Contact: Juan Florensa, Public Works Director
600 General Harris Street
Longboat Key, Florida 34228
(941) 361-6411 ext. 2210
jflorensa@longboatkey.org

In March of 2016 Earth Tech Enterprises, Inc. was awarded a contract with the Town of Longboat Key, Florida for a truck haul and placement of 307,000 tons of sand for the Central Key Beach Nourishment. The project area covered approximately 8.0 miles of beach. Earth Tech selected sand from Stuart Materials in Immokalee, Florida. The truck haul routes were through downtown Sarasota and St. Armand's Circle. Once on to Longboat Key, trucks were limited to using the two lane Gulf of Mexico Drive. This required above normal maintenance of traffic planning and daily communication with the town and public safety agencies.

The nourishment contract requirements included truck haul of sand, beach transport with escorts, placement of sand, tilling, surveying, turbidity monitoring, dune restoration and compliance with permits issues by FDEP, Army Corp of Engineers, UD Fish and Wildlife and FEMA. Earth Tech also completed the pre and post construction surveys including required as built survey.

The project was broken into three segments each with an access corridor on to the beach. These corridors had limited space and during peak periods of truck traffic, Earth Tech was staging trucks at various locations on Longboat Key because the contract would not allow staging of trucks along Gulf of Mexico Drive.

Another particular challenge was the requirement that work was limited to one segment at a time. Upon completion of each segment Earth Tech was required to demobilize restore the area and then mobilize to the next segment.

Additionally, the project was underway during an extremely active Sea Turtle Nesting and Shorebird Nesting season Earth Tech worked closely with the regulatory agencies including early morning meetings with Mote Marine's Sea Turtle Nest monitoring team and the Shore bird monitoring consultant for clearance prior to the start of beach haul activities.

The Town of Longboat Key's contract called for October 19, 2019 Substantial completion and Earth Tech was substantially complete on July 13, 2016. During the (100) days on site Earth Tech hauled in and placed on average 3,070 tons of sand, which was well above the contractual minimum of 2,000 tons sand.

Earth Tech was able to achieve this schedule despite losing production days due to Tropical Storm Colin and mandatory shut downs over Memorial Day and July 4th weekends.



Earth Tech Enterprises Beach Project Experience

Naples Beach Re-nourishment (sand placement) Completed November 2014
Naples, Florida

Cost \$ 748,000

Owner Contact Gary McAlpin P.E. Coastal Zone Manager
2800 North Horseshoe Drive
Naples, FL 34104
239-252-5342
GaryMcAlpin@colliergov.net

The Collier County Board of County Commissioners contracted with Earth Tech Enterprises to place, grade and transport approximately **90,000 tons of beach quality sand** on Naples Beach to repair damages as a result of Tropical Storm Debby. This was a truck haul project with sand provided from the Stewart Mine in Immokalee, Florida. The county had a contract with another vendor to supply and deliver the sand.

Scope of work for Earth Tech Enterprises included beach transport, placement of sand, tilling, surveying, turbidity monitoring, and compliance with permits issues by FDEP, Army Corp of Engineers, UD Fish and Wildlife and FEMA.

Beach nourishment activities began November 10, 2014. The contract called for substantial completion of all work in (34) consecutive calendar days and fully completed to the point of final acceptance by the owner within seven (7) consecutive calendar days after Substantial Completion. No beach activities were permitted the Thursday, Friday, Saturday, and Sunday of Thanksgiving. The project was completed and fully accepted in December 15, 2014.



Earth Tech Enterprises Beach Project Experience

Clam Pass – Emergency Beach Repairs (dredging and upland sand placement)
Completed April 2013

Naples, Florida

Cost \$ 206,000

Owner Contact: Collier County Florida
c/o Humiston & Moore Engineers
Brett Moore, P.E. President
5676 Strand Court
Naples, Florida 34110
239-594-2021
bdm@huminstonandmoore.com

This project involved Earth Tech completing emergency repairs at Clam Pass, the inlet between Clam Bay and the Gulf of Mexico. Since January 2013 Clam Pass had been closed off from the Gulf of Mexico due to the accumulation of sand that had migrated into the channel, cutting off tidal exchange and jeopardizing the health of the Clam Bay estuary system. The U.S. Army Corp of Engineers issued Collier County a Nationwide Permit 3 for "emergency" one time dredging of the inlet. Special conditions were added to the permit to protect manatees and sea turtles. The permit also specified that dredging had to be performed from the bay side toward the Gulf of Mexico, with the final cut reconnecting Clam Bay done at low tide.

Earth Tech opted to use a series of track backhoes cut **25,000 cubic yards of sand** from the inlet to open water flow into the pass. With no land access to the upland dump sites, the materials were transported on the beach. Grading and placement of the sand had to be done at night to avoid daytime closure of the beachfront areas used by the Pelican Bay Community to South and Naples Grande Hotel to the North.