

JEFFERSON PARISH
SOQ 24-020 Resolution #144205
Coastal Engineering Consulting as needed Parish Wide



BKI **BURK-KLEINPETER, INC.**
ENGINEERING · PLANNING · ENVIRONMENTAL

BKM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

GULF SOUTH
ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

July 16
2024

ELOS

CEG
CREATIVE ENGINEERING GROUP

PRESIDENT & CEO
MICHAEL D. CHOPIN, PE



SENIOR VICE PRESIDENTS
RENE A. CHOPIN, III, PE
HENRY M. PICARD, III, PE, PLS

CORPORATE SECRETARY
BRUCE L. BADON, AICP

BURK-KLEINPETER, INC.
ENGINEERING • PLANNING • ENVIRONMENTAL

VICE PRESIDENT
DAVID E. BOYD, PE

2400 VETERANS MEMORIAL BLVD., SUITE 310, KENNER, LA 70062
TELEPHONE (504) 486-5901

WWW.BKIUSA.COM

OVER 100 YEARS OF SERVICE

July 16, 2024

Jefferson Parish Purchasing Department
General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053

RE: SOQ 24-020 Resolution 144205 Coastal Engineering Consulting as needed Parish Wide

Mr. Simno:

In response to your request for qualifications, **Burk-Kleinpeter, Inc., along with BFM Corporation, LLC; Gulf South Engineering and Testing, Inc.; ELOS Environmental, LLC; and Creative Engineering Group, LLC** is pleased to submit one electronic copy of our qualifications for the above-referenced project.

BKI is a full-service consulting firm providing professional planning and engineering services to public and private clients for over 110 years. We are fully capable of providing professional services to Jefferson Parish for projects within the scope of Coastal Engineering Consulting as needed parish wide. Our Kenner office will serve as the main project office for this assignment with Henry M. Picard, III, PE, PLS as the professional in charge of the project. As an established firm committed to client satisfaction, we hope to assist the Parish in the successful implementation on assigned projects. We have a history of successfully completing similar scale projects on time for Jefferson Parish, and we hope to have the opportunity to continue that partnership.

We appreciate this opportunity to submit our qualifications and look forward to working for the Parish again in the future.

Sincerely,

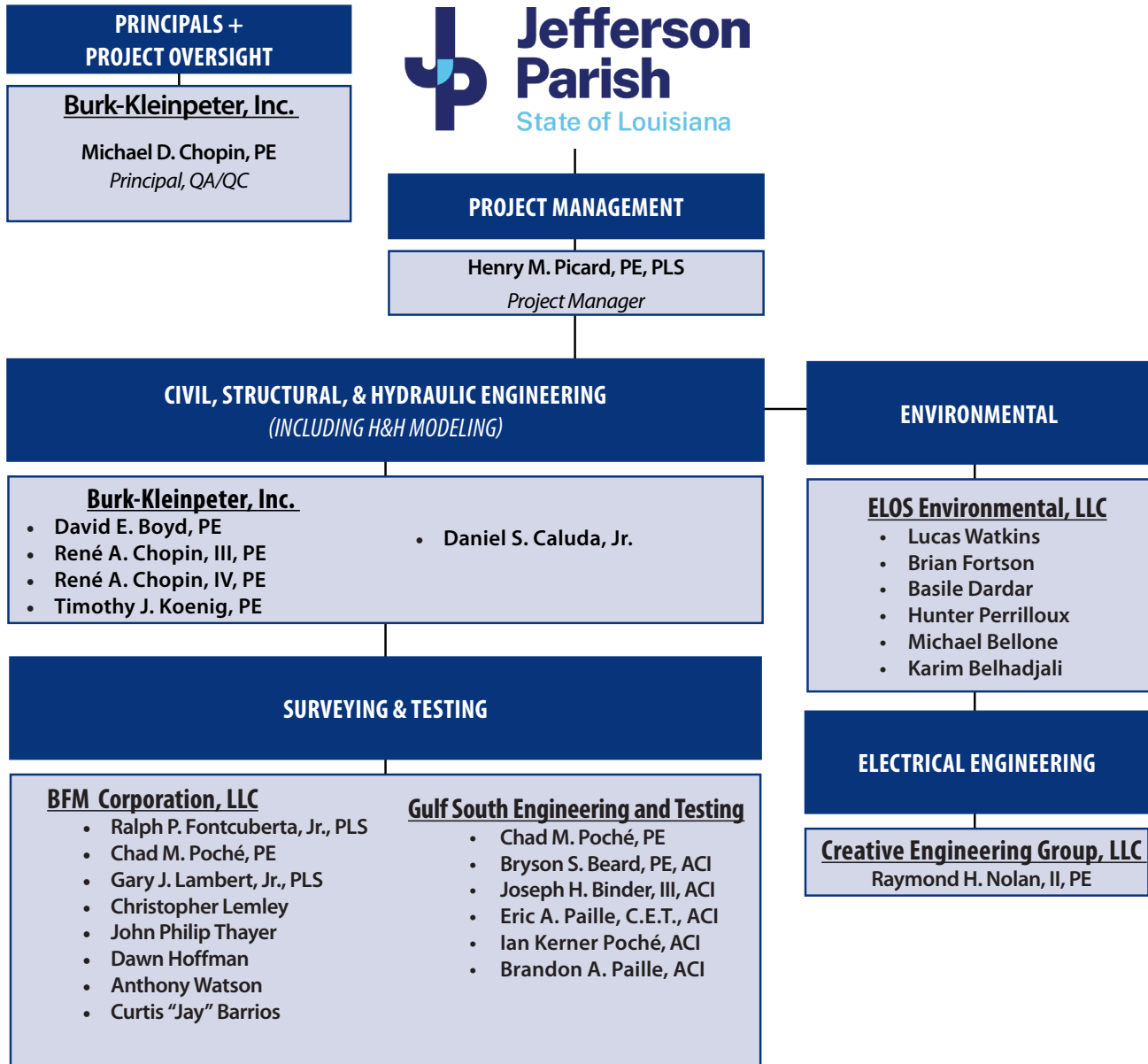
A handwritten signature in blue ink, appearing to read "H. M. Picard, III", is written over a faint, larger blue ink signature that appears to read "Henry M. Picard, III, PE, PLS".

Henry M. Picard, III, PE, PLS
Senior Vice President



KENNER • MANDEVILLE

ORGANIZATIONAL CHART



Burk-Kleinpeter, Inc.
TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**SOQ No. 24-020 Coastal Engineering Consulting as needed Parish Wide -
Resolution No. 144205**

B. Firm Name & Address:

BK| BURK-KLEINPETER, INC.

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Michael D. Chopin, PE - Principal | President, (504) 343-6254, mchopin@bkusa.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Henry M. Picard, III, PE, PLS - Project Manager - (504) 400-0783, hpicard@bkusa.com

E. Please provide the number of employees whose primary function corresponds with each category:

<u>8</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>3</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>8</u> Civil Engineers	<u>0</u> Interior Designers	<u>0</u> Project Managers
<u>3</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>0</u> Clerical
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>0</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>1</u> Engineer Intern	<u>0</u> Environmental Engineers	<u>0</u> Planners
<u>0</u> Professional Land Surveyors	<u>4</u> CADD/GIS	<u>2</u> Designers
		<u>29</u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES ___ NO x

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2. N/A

H. Has the JOINT-VENTURE previously worked together? Please Check

YES NO ☒ **N/A**

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation, LLC 15 Veterans Memorial Blvd. Kenner, LA 70062	Survey	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd. Kenner, LA 70062	Geotechnical Testing	Yes
3. ELOS Environmental, LLC 607 W. Morris Avenue Hammond, LA 70403	Environmental Engineering	Yes
4. Creative Engineering Group, LLC 201 Highland Park Plaza, Covington, LA 70433	Electrical Engineering	Yes

J. Please specify the total number of support personnel that may assist in the completion of this Project:

BKI: 7 **BFM:** 26 **Gulf South:** 30 **ELOS:** 59 **CEG:** 5

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Michael D. Chopin, PE
Principal / President

Project Assignment

Principal / QA/QC (*Minimum Personnel Requirement No. 1*)

Name of Firm with which associated



Years' experience with this Firm:

33

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1991 / Civil Engineering

Active registration: Year first registered/discipline

1996 / PE Civil, State of LA / No. 26797

Other experience and qualifications relevant to the proposed project:

Mr. Chopin is Principal/President at BKI in charge of personnel, including schedules, staff, budgets, technical review, and account management. He has over 28 years of professional engineering experience focused on a wide range of public works projects as a Principal, Project Manager, or Project Engineer. Projects have included hydrologic and hydraulic modeling, coastal-hurricane protection projects, master drainage planning, design, construction administration and related supplemental services. As a principal and project manager, Mr. Chopin has navigated project funding constraints and has proven successful in producing deliverables which comprehensively benefit both the community and environment. Mr. Chopin is a member of the American Society of Civil Engineers and the Society of American Military Engineers.

Mr. Chopin's applicable projects are listed on the following page.

Mr. Chopin has worked on the following applicable projects:

Mid-Breton & Mid-Barataria Owners Review - *Plaquemines Parish, LA* - Project oversight for the review of the electrical, controls, and mechanical systems for the diversion project. The project was created by the CPRA to establish the Mississippi River Mid-Basin Sediment Diversion Program, which is comprised of the Mid-Barataria Sediment Diversion Project (MBSD) and the Mid-Breton Sediment Diversion (MBrSD) Project, and is part of the Louisiana Comprehensive Master Plan for a Sustainable Coast (Coastal Master Plan).

Upper Barataria Risk Reduction (UBRR) Project: Segment 4 & 5 Alternatives Hydraulic Study - *Multiple Parishes, LA* - Project oversight for the hydraulic analyses and review of the levee alignment alternatives for rerouting Godchaux Canal around the future final levee footprint and 3 bridge alternatives with flood control structures. The hydraulic analyses were performed to determine proper sizing of flood control structures once segment 4 was constructed as well as the effects of runoff being trapped once the segment 5 levee is completed.

Plaquemines Parish Coastal Restoration Program - *Plaquemines Parish, LA* - Project oversight for the development of wetland vegetation ridges adjacent to the back levee system between Fort Jackson and Venice, Louisiana.

EJLD Shoreline Protection - *Jefferson Parish, LA* - Provided project oversight during the identification of alternative shoreline protection methods to provide erosion protection for the Linear Park along the south shore of Lake Pontchartrain in Jefferson Parish, from the St. Charles Parish line to the Orleans Parish line, approximately eight miles of protection.

RPC South Shore Wetlands Restoration - *New Orleans, LA* - Responsible for civil engineering final plans and specifications for the bidding and construction of a 275 to 300-foot long stone breakwater to protect the creation of an approximate two-acre wetland restoration area adjacent to Bucktown Harbor on the south shore of Lake Pontchartrain.

Bucktown Harbor Master Plan - *Metairie, LA* - Project Manager managed the preparation of plans and specs for the development of a new marina and recreation area on the south shore of Lake Pontchartrain.

Bayou St. John Adaptive Management Plan - *New Orleans, LA* - Provided project quality control and quality assurance and guidance for a water management study, the goal of which was to determine the best engineering and environmental methods to re-introduce native aquatic species into the Bayou St. John watershed.

USDA NRCS Barataria Land Bridge - *Lafourche and Jefferson Parishes, LA* - Project Manager for the preparation of plans and specifications for the placement of offshore protection rock berms along the coast line to prevent erosion of the bank as part of the Barataria Basin Land Bridge Shoreline Protection Project (BA-27) to protect and enhance the marshland within the project area.

Lake Chapeau- LaDNR - *New Orleans, LA* - Designed construction of nine channel plugs in existing oil field canals and hydraulic dredge fill to restore the natural hydrologic patterns.

East Jefferson Flood Reduction Study & Master Drainage Plan Update - *Jefferson Parish, LA* - Project Manager for the hydraulic engineering study of Jefferson Parish's East Bank Flood Reduction Plan. Used UNET hydrologic & computer model to network system of 64 canal segments. Generated results by creating contours for flooding areas based on water surface evaluations for specific modes and generating this information on contour maps in CADD.

Louis Armstrong New Orleans International Airport Master Drainage Plan - *New Orleans, LA* - Performed hydrologic and hydraulic analysis for existing airport site and proposed strategic growth plan improvements, using HYDRA, HEC-1, and UNET software.

Belle Chasse Area Master Drainage Plan - *Belle Chasse, LA* - Provided project oversight for the preparation of a hydrologic and hydraulic study. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

Upper Barataria Risk Reduction Project (UBRR) / St. Charles Parish West Bank Hurricane Protection System - *St. Charles Parish, LA* - Providing engineering and general project oversight to ensure compliance on all project phases for the system enhancements including the Willowridge Subdivision, Ellington watershed, and Magnolia Ridge Road pump stations.

25th Street Canal - *Gretna, LA* - As Principal, provided oversight for the drainage improvements to the 25th Street Canal Neighborhood which included Hydraulic and Benefit Cost Analyses, construction documents for the green infrastructure elements, resident inspection and construction administration services. This project utilized a combination of LA Capital Outlay Funds, CDBG Funds, and FEMA Flood Mitigation Grant dollars.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Henry M. Picard, III, PE, PLS <i>Senior Vice President</i>
Project Assignment
Project Manager (<i>Minimum Personnel Requirements No. 2</i>)
Name of Firm with which associated
 ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
34
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1981 / Civil Engineering
Active registration: Year first registered/discipline
1986 / PE Civil, State of LA / No. 22289 1994 / PLS, State of LA / No. 4736 1996 / PE Civil, State of AL / No. 20937
Other experience and qualifications relevant to the proposed project:
<p>Mr. Picard, a Senior Vice President at BKI with over 40 years of professional engineering experience, is in charge of project management. His extensive experience includes managing a variety of coastal and environmental restoration, hydrologic and hydraulic modeling, master drainage planning, drainage, drainage improvements, and pump stations projects. These projects have also included cost estimation as well as construction administration and resident inspection. He is an active member of the American Society of Civil Engineers and the Society of American Military Engineers.</p> <p><i>Mr. Picard's applicable projects are listed on the following page.</i></p>

TEC Professional Services Questionnaire

Mr. Picard has worked on the following applicable projects:

Mid-Breton & Mid-Barataria Owners Review - Plaquemines Parish, LA – Provided guidance and oversight for the review of the electrical, controls, and mechanical systems for the diversion project. The project was created by the CPRA to establish the Mississippi River Mid-Basin Sediment Diversion Program, which is comprised of the Mid-Barataria Sediment Diversion Project (MBSD) and the Mid-Breton Sediment Diversion (MBrSD) Project, and is part of the Louisiana Comprehensive Master Plan for a Sustainable Coast (Coastal Master Plan).

Upper Barataria Risk Reduction (UBRR) Project: Segment 4 & 5 Alternatives Hydraulic Study - Multiple Parishes, LA - Providing guidance and quality control for the hydraulic analyses and review of the levee alignment alternatives for rerouting Godchaux Canal around the future final levee footprint and 3 bridge alternatives with flood control structures. The hydraulic analyses were performed to determine proper sizing of flood control structures once segment 4 was constructed as well as the effects of runoff being trapped once the segment 5 levee is completed.

Upper Barataria Risk Reduction Project Phase 1 - 2019 Tasks - Lafourche Parish, LA - Principal providing oversight for earthen levees, a 270' steel barge swing gate floodgate in Bayou Des Allemands, a steel rollergate across LA 306, tidal interchange structures, concrete T-Wall floodwalls, and pump station frontal protection.

Belle Chasse Area Master Drainage Plan - Belle Chasse, LA - Provided project management and guidance for H&H study preparation. This drainage plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

25th Street Canal Drainage Improvements (Resiliency District) - Gretna, LA - Principal provided QA/QC oversight for the design of alternate stormwater runoff routing during high-intensity events. Including existing system analysis, recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations, and designing improvements within 25th St. Canal to handle the additional flow to feed the proposed 25th St. drainage pump station. This project included the development of a closed, pump-controlled system for the 2 subdivision that will alleviate flooding during high-intensity rainfalls.

Marvin Braud Pump Station Watershed Dredging Evaluation - Ascension Parish, LA - Project Manager supervised the analysis of open channel drainage network in Ascension Parish, LA, using HEC-HMS and HEC-RAS unsteady flow model. The model was developed from an existing model prepared by the U.S. Army Corps of Engineers and calibrated to the Hurricane Rita rainfall event. After calibration of the model, the model was utilized to evaluate hydraulic effects of dredging drainage channels in the Marvin Braud Pump Station Basin and the effect on the existing pump station capacity.

St. Charles Parish West Bank Hurricane Protection System - St. Charles Parish, LA - Providing QA/QC and oversight for all engineering and supplemental services including extensive H&H modeling, securing all necessary State of and Federal permits, earthen levees, T-Walls, 3 new drainage pumping stations and canals, and tidal exchange structures during this phased project to reduce storm surge damage.

Bayou Liberty North of Interstate 12 Regional Detention Pond Study - St. Tammany Parish, LA - Provided guidance for the preparation of alternative detention pond sizes and locations to reduce stormwater flooding. Twelve alternatives were prepared that consisted of one large and one small detention pond located at different locations within the watershed to maximize the reduction of floodwaters. The alternatives were ranked based upon cost versus flood reduction.

Westshore Enhancements Hydraulics Project - St. James Parish, LA - Principal providing QA/QC for structural design of a floodgate and a 320 CFS pump station at the 310' Blind River Crossing as well as two additional floodgates in separate locations. Included at the Blind River pump station is the design of a 2050 sq. ft. pile support electrical platform for auxiliary equipment such as the 1250 KW generator, transformer and dock, HVAC systems and scada tower. The platform also supports a 470 sq. ft., single story, CMU block electrical and controls room with concrete roof.

Bayou Liberty Watershed Management Plan - St. Tammany Parish, LA - Project manager provided guidance for a watershed study preparation including topographic surveys, stormwater drainage model and reduction alternatives, and environmental database. The model consisted of a HEC-HMS and HEC-RAS steady flow models calibrated by linear regression flow parameters. The stormwater reduction alternatives consisted of twelve alternatives to reduce stormwater flooding with ranking by cost versus flood reduction. The environmental database included GIS mapping and associated data from the US Geological Survey soil maps, the National Wetland Index, the permitted EPA Point Discharge locations, and other environmental data.

Bayou Conway / Panama Canal Master Drainage Plan - Ascension Parish, LA - Project Manager for the analysis of the open channel drainage network using HEC-HMS and HEC-RAS unsteady flow model to determine the existing flow capacities under gravity flow conditions. After the gravity flow model was developed, the study analyzed the watershed under future land use conditions and determined proposed channel improvements. Study included the potential of a future levee project requiring pump station flow capacity to accommodate future channel improvements and future land use in the Parish.

St. John the Baptist Master Drainage Plan (PLD) - St. John the Baptist Parish, LA - Managed the master drainage plan preparation for a portion of the eastbank of the Parish which consisted of an evaluation of the existing and proposed drainage network. The project included hydrologic and hydraulic analyses of an open channel drainage network.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
David E. Boyd, PE <i>Vice President</i>
Project Assignment
Civil / Hydraulic Engineer (<i>Minimum Personnel Requirement No. 3</i>)
Name of Firm with which associated
 The logo for BKI Burk-Kleinpeter, Inc. features the letters 'BKI' in a large, bold, blue font. To the right of 'BKI' is the company name 'BURK-KLEINPETER, INC.' in a smaller, blue, sans-serif font. Below the company name are three words: 'ENGINEERING', 'PLANNING', and 'ENVIRONMENTAL', each separated by a small dot.
Years' experience with this Firm:
18
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2004 / Civil Engineering
Active registration: Year first registered/discipline
2010 / PE Civil, State of LA / No. 35510
Other experience and qualifications relevant to the proposed project:
<p>Mr. Boyd, Vice President of the Civil Engineering Division, has provided BKI's public and private clients with professional consulting engineering services for hydrology and flood control projects. Mr. Boyd is proficient in Hydrologic and Hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software. His experience includes wetland and marsh restoration, hurricane mitigation, watershed studies, master drainage plan, and extensive drainage improvement projects. Projects of note include: master drainage plans for Bayou Liberty in St. Tammany Parish, Marvin Braud Watershed and Bayou Conway Master Drainage Plans for Ascension Parish, Louis Armstrong Master Drainage Plan for Jefferson Parish, Bayou St. John Master Drainage Plan for the Orleans Levee District, the St. James East Bank Master Drainage Plan, and the Belle Chasse Master Drainage Plan. These master drainage plans involved analyzing existing conditions and future conditions as well as drainage improvement alternatives to alleviate flooding.</p> <p><i>Mr. Boyd's applicable projects are listed on the following page.</i></p>

Mr. Boyd has worked on the following applicable projects:

Upper Barataria Risk Reduction (UBRR) Project: Segment 4 & 5 Alternatives Hydraulic Study - *Multiple Parishes, LA* – Performing hydraulic modeling necessary for the hydraulic analyses and review of the levee alignment alternatives for rerouting Godchaux Canal around the future final levee footprint and 3 bridge alternatives with flood control structures. The hydraulic analyses were performed to determine proper sizing of flood control structures once segment 4 was constructed as well as the effects of runoff being trapped once the segment 5 levee is completed.

Bayou St. John Adaptive Management Plan - *New Orleans, LA* - Project Manager for a water management study in Bayou St. John. The study determined the best engineering and environmental methods to re-introduce native aquatic species into the Bayou St. John watershed.

Gretna Downtown Drainage Improvements - *Gretna, LA* - Project Manager provided oversight, quality control, client coordination, and civil design oversight for the design and engineering of a layered green and grey stormwater infrastructure project within the downtown area. To alleviate localized stormwater flooding issues, the project used green infrastructure improvements along the public right-of-way to meet multiple demands: stormwater management, continued revitalization in the downtown area, and improved public right-of-way safety and accessibility.

Oak Park Flood Mitigation Project - *New Orleans, LA* - Provided civil engineering for the preparation of a hydrologic and hydraulic study. The hydraulic analysis included traditional storm drain culvert size improvements and green infrastructure stormwater techniques including water garden detentions. The New Orleans Redevelopment Authority (NORA) had obtained multiple lots within the Oak Park Subdivision that were abandoned after the Hurricane Katrina flooding event. NORA had placed the lots back into commerce or had developed them into greenspace or water gardens.

Louis Armstrong New Orleans International Airport Master Drainage Plan - *Kenner, LA* - Civil Engineer performed hydrologic and hydraulic analysis of open-closed channel drainage network of the Louis Armstrong New Orleans International Airport, using HEC HMS and HEC RAS unsteady state model, recommended drainage infrastructure improvements with cost estimates and created a master drainage manual for Airport facility managers to meet all Federal Aviation Administration and Jefferson Parish requirements.

Belle Chasse Area Master Drainage Plan - *Plaquemines Parish, LA* - Hydraulic Engineer for the hydrologic and hydraulic analysis of the open channel drainage network in Belle Chasse, LA using HEC-HMS and HEC-RAS unsteady state model. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

Bayou Liberty Watershed Studies - *St. Tammany Parish, LA* - Hydraulic Engineer for the hydrologic and hydraulic analysis of open channel drainage network in St. Tammany Parish, LA, using HEC HMS and HEC RAS steady state model for siting two regional detention ponds in the Bayou Liberty basin above I-12.

Bayou Conway / Panama Canal Master Drainage Plan - *Ascension Parish, LA* - Provided more than 1,200 hours of services in the analysis of the open channel drainage network in Ascension Parish, LA, using HEC-HMS and HEC-RAS unsteady flow model to determine the existing flow capacities under gravity flow conditions. After development of the gravity flow model, the study analyzed the watershed under future land use conditions and determined proposed channel improvements. Also included in the study was the potential of a future levee project requiring pump station flow capacity to accommodate future channel improvements and future land use in the Parish.

St. James - Ascension Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Civil and Hydraulic Engineer / Hydrologist: Provided civil/hydraulic engineering services for the preparation of the Master Drainage Plan. The study was performed using the HEC-HMS and HEC-RAS modeling software to determine the potential of improving the existing canals or the need for a new outfall.

Marvin Braud Pump Station Watershed Study - *Ascension Parish, LA* - Performed hydrologic and hydraulic analysis of open channel drainage network in Ascension Parish, LA, using HEC HMS and HEC RAS unsteady state model to evaluate hydraulic effects of dredging drainage channels in the Marvin Braud Pump Station Basin. The study resulted in the addition of 2-1000 cfs pumps to the existing pump station including the super structure for housing the additional pumps and motors.

Marvin Braud Drainage Pump Station - *Ascension Parish, LA* - Performed hydrologic and hydraulic analysis of open channel drainage network in Ascension Parish, LA using HEC-HMS and HEC-RAS unsteady state model to evaluate future runoff based upon projected land usages and pump station expansion requirements to drain Ascension Parish in the future.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
René A. Chopin, III, PE <i>Senior Vice President / Chief Engineer</i>
Project Assignment
Structural Engineer (<i>Minimum Personnel Requirement No. 3</i>)
Name of Firm with which associated

Years' experience with this Firm:
36
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1988 / Civil Engineering
Active registration: Year first registered/discipline
1993 / PE Civil, State of LA / No.25174
Other experience and qualifications relevant to the proposed project:
<p>Mr. Chopin, Senior Vice President/Chief Engineer with 36 years of professional engineering experience, is in charge of project production, project management, and staff supervision. He has provided professional consulting services focused on the structural elements of design. He has served as Project Manager or Project Engineer on numerous infrastructure, storm protection, program management, environmental assessment, bridge, roadway, dock, and wharf projects. Mr. Chopin's projects have garnered awards and commendations from the American Concrete Institute Louisiana Chapter and the National Partnership for Highway Quality. Mr. Chopin holds a Bachelor of Science in Civil Engineering, and is a Registered Professional Engineer in Louisiana, Mississippi, Florida, Alabama, and Texas. He is also a member of the American Society of Civil Engineers and the American Concrete Institute of which he is Past President of the Louisiana Chapter.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p>

Mr. Chopin has worked on the following applicable projects:

Upper Barataria Risk Reduction (UBRR) Project: Segment 4 & 5 Alternatives Hydraulic Study - *Multiple Parishes, LA* - Performed quality assurance for the hydraulic analyses and review of the levee alignment alternatives for rerouting Godchaux Canal around the future final levee footprint and 3 bridge alternatives with flood control structures. The hydraulic analyses were performed to determine proper sizing of flood control structures once segment 4 was constructed as well as the effects of runoff being trapped once the segment 5 levee is completed.

Ascension Storm Surge Protection Project - *Ascension Parish, LA* - Chief Engineer provided QA/QC on levee design alignments, cross sections, floodgates, pump station modifications and cost estimates for the project.

Fourth Street Extension Environmental Assessment and Design SPN 700-26-0247 - *Gretna, LA* - Provided project oversight for an Environmental Assessment for an extension of Fourth Street to provide a more direct connection to the Westbank Expressway. The LA 18 (4th Street Extension) project involved the design and construction of a two-lane, minor arterial roadway within the former Union Pacific Railroad right-of-way.

Clearview Pkwy Improvements, Mounes to Airline - *Jefferson Parish, LA* - Supervised planning and environmental engineering study to upgrade traffic capacity for future widening of Huey P. Long Bridge.

Earhart Expy - Causeway Blvd Interchange - SPN H.002861 - *Jefferson Parish, LA* - Project Manager providing design oversight and mentoring of younger engineers for a new interchange between Earhart Expressway (LA3139) and Causeway Boulevard (LA 3046). The existing bridges widened for the interchange were inspected and rated per the Load Resistance Factor Rating and recommendations for correcting deficiencies for LADOTD's consideration.

I-10 Causeway Interchange - *Jefferson Parish, LA* - Project manager for converting a cloverleaf interchange into a direct and semi-direct connection. Performed the geometric design and layout for the entire interchange. Developed the TS&L for the five elevated ramps. Quality Controlled the bridge design and details. Attended the monthly partnering meetings, supervised shop drawing review and answered RFIs during construction.

I-10 Widening Veterans Blvd. - Clearview Pkwy - *Metairie, LA* - Project Manager for roadway and bridge design for widening approximately 1.5 miles of urban interstate highway. Provided Quality Control of roadway and bridge plans during preliminary and final plans. Attended the monthly partnering meetings and supervised the shop drawing reviews and answered RFIs during construction.

Causeway Boulevard Widening - *Metairie, LA* - Project Manager is providing traffic engineering and drainage design for the widening of Causeway Boulevard from Airline Drive to West Napoleon Avenue. The project includes widening an existing four-lane divided roadway to a six-lane divided roadway, traffic signal upgrades, and drainage improvements along a one mile urban arterial. Drainage design and drainage plan sheets will be developed by BKI. Drainage improvements are subsurface with tie-ins at the existing West Napoleon Avenue box culverts.

Intersection Improvements at Williams & Airline - *Kenner, LA* - Provided QA/QC for the project, which aimed to improve pedestrian access to an intersection. The project followed LADOTD'S standard plan format and met all LADOTD requirements.

Jefferson Parish Westbank Street Repair Program Management - *Jefferson Parish, LA* - Project Manager for the development of scopes, budgets, schedules, design oversight, periodic site visits during construction, preparing pay estimates, document change orders, and coordination with FEMA.

Upper Barataria Risk Reduction Project (UBRR) / St. Charles Parish West Bank Hurricane Protection System - *St. Charles Parish, LA* - Provided structural engineering design services for the new 300 cfs Williwridge Drainage Pump Station including bar screens, pump station structure, three (3) cfs vertical pumps with electric motors, backup generator, and discharge pipes. Also provided structural oversight drainage design all three (3) stations that are part of the UBRR / St. Charles Parish Hurricane Protection System.

Preliminary Engineering for Southern Trace Lift Station Improvements - *Shreveport, LA* - Responsible for the Quality Control, constructibility, and bid-ability during the creation of 12 pre-design technical memoranda and recommendations for the final design requirements. BKI provided design plans for the rehabilitation of an existing lift station in the Southern Trace subdivision that had aging equipment and appurtenances.

Wolf Bay Bridge Final Design - *Orange Beach, AL* - Provided oversight for the bridge design for a project connecting SR-161 across Wolf Bay to CR-95. Responsible for Quality Control of design calculations and bridge plans. Assisted with obtaining environmental clearance and U.S. Coast Guard permits for the bridge. The bridges cross the Intracoastal Waterway Navigation Channel in Wolf Bay.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
René A. Chopin, IV, PE <i>Civil Engineer</i>
Project Assignment
Civil / Hydraulic Engineering (<i>Minimum Personnel Requirement No. 3</i>)
Name of Firm with which associated
 <small>ENGINEERING PLANNING ENVIRONMENTAL</small>
Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2013 / Civil Engineering
Active registration: Year first registered/discipline
2018 / PE Civil, State of LA / No. 42349
Other experience and qualifications relevant to the proposed project:
<p>Mr. Chopin is a Registered Professional Civil Engineer in Louisiana with a focus on Hydraulic and Hydrologic Engineering. His experience includes the use of the Department of Transportation and Development HYDR 2009 and HEC-RAS programs to calculate drainage flows and pipe capacities. He has worked on various projects such as levee and storm water prevention projects, harbor improvements - including dredging, master drainage plan, drainage improvement, lift station design and rehabilitation, and roadway improvement projects. His responsibilities have included performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration. He is a Member of the American Society of Civil Engineers and the Society of Military Engineers as well as holding a TWIC card.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p>

Mr. Chopin has worked on the following applicable projects:

Upper Barataria Risk Reduction (UBRR) Project: Segment 4 & 5 Alternatives Hydraulic Study – *Multiple Parishes, LA* - Project Manager responsible for quality management and finalizing report assembly for the hydraulic analyses and review of the levee alignment alternatives for rerouting Godchaux Canal around the future final levee footprint and 3 bridge alternatives with flood control structures. The hydraulic analyses were performed to determine proper sizing of flood control structures once segment 4 was constructed as well as the effects of runoff being trapped once the segment 5 levee is completed.

Ascension Storm Surge Protection - *Ascension Parish, LA* - Providing hydraulic design and analyses as well as assembled plans, specifications, and cost estimates for the project. Will perform construction administration and closeout duties for this project.

Upper Barataria Risk Reduction Project Phase 1-2019 Tasks - *Lafourche and St. Charles Parishes, LA* - Created an AutoCAD Civil 3D model of the proposed levee system using LiDAR data for preliminary design and included the creation of the levee baseline as well as a corridor based on slope stability information provided by the geotechnical engineer. Responsible for the hydraulic design of the closure structure on the Godchaux Canal ensure that proper tidal flow is maintained in the area. Also assisted the structural engineering team in the design of the access road bridge that will span Godchaux Canal with responsibilities including setting the bridge low chord elevation based on available water elevation information as well as laying out the General Bridge Plan and Elevation drawings. He also served as the point-of-contact for coordination with the pipeline companies in the area that will be affected by the new levee system.

Belle Chasse Area Master Drainage Plan - *Belle Chasse, LA* - Designed an intake canal for the proposed Belle Chasse pump station at Walker Road. This included modeling the channel and adjacent roadway in AutoCAD Civil3D which was then used to generate construction documents and quantities.

St. James - Ascension Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Surveyed existing culverts in St. James Parish, analyzed data, and reassessed deficiencies to provide a suitable solution. Assisted in creating plan sheets of analyzed culverts to provide the Parish with a Master List. Created existing and proposed surface models in AutoCAD Civil 3D.

St. James Interior Drainage (Matherne, David, Woods Canal) – *St. James Parish, LA* – Reviewed and prepared final plans for the improvement of lateral ditches and culverts along LA 3125. Responsibilities included performing Rational Method calculations for sizing culverts and calculating quantities for ditch improvements and outfall armoring. Carried out Construction Administration responsibilities including preparing bid documents, tabulating bids, performing periodic site visits, and generating closeout documents.

West Shore Levees and Floodwalls -*St. Charles, St. John the Baptist, and St. James Parishes, LA* - Calculated quantities for access roads as well as creating levee cross-sections for a new multiparish hurricane protection levee project extending from St. Charles to Ascension Parish.

Oak Park Flood Mitigation Project - *New Orleans, LA* - Provided civil engineering services for the preparation of a hydrologic and hydraulic study. The hydrologic analysis evaluated the quantity of rainfall runoff for 10-year and 100-year storm events.

Maplewood Area Drainage Improvements - *Harvey, LA* - Performed construction administration duties including verifying quantities, reviewing as-built plans, and reviewing field inspection reports for drainage improvements in the Maplewood subdivision area, which had historically flooded during intense rainfall events.

East Bank Floodgate Painting and Repairs EB1 - EB74 - *New Orleans, LA* – As Civil Engineer calculated quantities for sandblasting, painting, replacing seals, and repairing sills. Served as Resident Inspector for the removal and replacement of the floodgates during construction.

Bayou Paul Lane Ditch and Culvert Improvements Project - *City of St. Gabriel, LA* - Performing Hydraulic Analyses using LaDOTD's Hydraulic Software, HydrWIN2009 as well as generating a cost estimate based on proposed improvements. Will create construction documents and assist in the bidding-advertising of the project as well as provide construction administration services and oversee the resident inspector.

Sharp Road Detention Pond - *Mandeville, LA* - Provided civil engineering services for the development of a detention pond and drainage improvements near Asbury Drive, Century Oaks Lane, Sharp Road, Marquette Street, and Cypress Lake. Existing storm drainage channels and pipe culverts were upgraded from a 10-Year Storm Event capacity to a 25- Year Storm Event capacity. The project included a 15.5 acre-foot detention pond with an overflow weir structure, 342 linear feet of concrete pipe or pipe arch, and 3,000 linear feet of channel widening.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Timothy Koenig, PE <i>(Minimum Personnel Requirement No. 3)</i> <i>Associate - Civil Engineer</i>
Project Assignment
Civil Engineer
Name of Firm with which associated
 The logo for BKI Burk-Kleinpeter, Inc. features the letters 'BKI' in a large, bold, blue font. To the right of 'BKI' is the company name 'BURK-KLEINPETER, INC.' in a smaller, blue, sans-serif font. Below the company name are three horizontal lines, each followed by a service area: 'ENGINEERING', 'PLANNING', and 'ENVIRONMENTAL'.
Years' experience with this Firm:
20
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1998 / Microbiology Bachelor of Science / 2004 / Civil Engineering
Active registration: Year first registered/discipline
2009 / PE Civil, State of LA / No. 35079
Other experience and qualifications relevant to the proposed project:
<p>Mr. Koenig is an Associate Civil Engineer having joined BKI in 2004 after receiving his Bachelor of Science degree in Civil Engineering. He has provided professional consulting services to public and private clients throughout the Gulf South region with of expertise including engineering assessments and project design. He has provided services on water, rail, structural, and industrial design projects. Most notably, Mr. Koenig has been an integral part of Hurricane Katrina recovery at the Port of New Orleans.</p> <p><i>Mr. Koenig's applicable projects are listed on the following page.</i></p>

Mr. Koenig has worked on the following Civil Engineering projects:

SLFPA-E Floodgate Repairs GIWW, MRGO, OFC & Lakefront - *New Orleans, LA* - Responsible for the design work on this project including drawings and specifications using the same format and procedure for the previous two (2) floodgate design sets completed.

Floodgate Repairs - Orleans Levee Board - *New Orleans, LA* - Prepared construction documents and performed construction administration for a floodgate sandblast, repair and paint project.

Lake Borgne Basin Levee District Pump Station No. 6 Erosion Control Design - *New Orleans, LA* - Civil Engineer provided plans, specifications, bidding assistance, and construction management for the repairs to Lake Borgne Levee District Pump Station No. 6 Erosion Control.

St. James - Ascension Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Provided civil engineering services for the development of levee alignments, conceptual pump station, floodgate / pipeline crossing designs, and cost estimates.

St. James Parish East Bank Master Drainage Plan, Culvert Analysis, and Design Program - *St. James Parish, LA* - Provided civil engineering services for the preparation of the Master Drainage Plan to alleviate flooding in the existing subdivisions and agricultural lands through development of better outfalls. The study was performed utilizing LADOTD Hydraulic Software (HydrWin 2009) software to determine the potential of improving the existing culverts or the need for new outfalls. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by the LADOTD Statewide Flood Control Program and GOHSEP grants.

St. James Parish Interior Drainage Improvements - *St. James Parish, LA* - Civil Engineer is providing review of design documents for an inventory of existing driveway drainage culverts including their size, type, and condition.

Marvin Braud Drainage Pump Station - *Ascension Parish, LA* - Civil Engineer: Developed preliminary and final plans, specifications, and cost estimates to retrofit stop logs to the intake bays of the existing Marvin Braud Drainage Pump Station near Gonzales, LA. The stop logs will allow for each bay to be individually dewatered to perform maintenance.

West Shore Levees and Floodwalls - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Civil Engineer provided preliminary design services for a new multiparish hurricane protection levee project extending from St. Charles to Ascension Parish. A feasibility study evaluated several alternate alignments and pump station locations for the proposed levee system.

West Shore Enhancements Project - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Provided civil design and preliminary plan and specifications preparation for a 320 CFS pump station at Blind River as well as two floodgate closure structures. The work included design of sheet pile wall and combi-walls for grade separations, rip rap sizing and placement for erosion control, site grading and drainage, and access road layout and design to accommodate a WB-62 design vehicle.

Upper Barataria Risk Reduction (UBRR) Project Phase 1 - 2019 Tasks - *Lafourche and St. Charles Parishes, LA* - Designed earthen levee for 100% preliminary plans as well as creating and modifying levee alignments, calculating earthwork quantities, and creating cost estimates.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Daniel S. Caluda, Jr. <i>Associate, Mechanical Designer</i>
Project Assignment
Mechanical Design
Name of Firm with which associated

Years' experience with this Firm:
42
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1981 / Petroleum Engineering
Active registration: Year first registered/discipline
N/A
Other experience and qualifications relevant to the proposed project:
<p>Mr. Caluda is an Associate with major technical responsibility in the Mechanical Engineering Division of BKI. His extensive portfolio of professional experience includes water and wastewater systems, lift station design and rehabilitation, sewer systems, drainage, HVAC, plumbing, sprinklers, and mechanical/industrial systems. Mr. Caluda's experience with the design of drainage pump stations and wastewater treatment plant pump stations dates to 1987. He has designed new pump stations and pump station improvements with capacities ranging from 150 CFS to 2,000 CFS, provided mechanical design services for dozens of pump stations in the Greater New Orleans region, and has overseen design and construction of two of the largest pump stations in the world.</p> <p><i>Mr. Caluda's applicable projects are listed on the following page.</i></p>

Mr. Caluda has worked on the following applicable projects:

Upper Barataria Risk Reduction (UBRR) Project: Segment 3 Barge Gate - Mechanical - *Multiple Parishes, LA* – Responsible for the mechanical systems design in conformance with project needs and requirements including LBLD's O&M schemes for this gate structure, CPRA's statewide O&M schemes, gate structure operation, and USACE's project authorized O&M schemes for the Upper Barataria Basin federal project.

Upper Barataria Risk Reduction Project (UBRR)/St. Charles Parish West Bank Hurricane Protection System - *St. Charles Parish, LA* - Responsible for the mechanical design for the Willowridge DPS, a new 300 cfs station including a pump station structure, three (3) 100 cfs vertical pumps with electric motors, backup generator and mechanical bar screen cleaners. For Ellington and Magnolia Ridge DPS, Mr. Caluda provided technical guidance and review for the development of the drainage pumping station pump suction and discharge models and pump model.

25th Street Canal Drainage Improvements Project - *Gretna, LA* - 25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* – Completed the mechanical design for the alternate routing of stormwater runoff during high-intensity rain events and mitigate flooding from the Heebe Canal. Using a combination of state funding, CDBG funds & FEMA Flood Mitigation Grant Dollars Gretna was able to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

Westshore Enhancements Project - *St. James Parish, LA* - Provided mechanical design services for a 320 CFS pump station and three canal closure structures including plans, specifications, and cost estimate for the gate closure mechanisms, electric motors, right angle gears, siphon recovery system and station automation.

Marvin Braud Drainage Pump Station - *Ascension Parish, LA* - Mechanical Designer for pump station improvements and additions included a new station with 2,000 CFS of pumping capacity. The new pumping station had a pile-supported intake basin and concrete discharge tubes, a steel-framed superstructure, and two 1,000 CFS pumps with diesel drives and gear reducers.

PCCP Extension of Staff Services - *New Orleans, LA* - Operations Manager / Mechanical Designer: Provided all technical oversight on behalf of the CPRA to review all phases of construction adherence to contract documents for over 70 features of design and construction associated with each of the three pump stations: the 17th Street Canal (12,500 CFS), the Orleans Avenue Canal (2,700 CFS) and the London Avenue Canal (9,000 CFS).

St. Charles Parish - Willowridge Pump Station - *St. Charles Parish, LA* - Mechanical design for a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Willowridge, Ellington, and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Mechanical design for the Willowridge DPS, a new 300 CFS station including a pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and mechanical bar screen cleaners. For Ellington and Magnolia Ridge DPS, Mr. Caluda provided technical guidance and review for the development of the drainage pumping station pump suction and discharge models and pump model.

Cousins Pump Station Complex Floodwalls and P.S. Expansion - *Jefferson Parish, LA* - Responsible for the mechanical design of the 2,000 CFS capacity station with a pile-supported intake basin and concrete discharge tubes, a steel-framed superstructure, and two (2) 1000 cfs horizontal pumps with diesel engine drives.

S & WB No Water Supply Alternatives - *New Orleans, LA* - Prepare portions of technical studies & lab analysis to evaluate water quality & alt. treatment methods for upgrading the water treatment process to meet EPA criteria.

Kenner Water Study - *Kenner, LA* - Developed alternative modeling methodology where outside agencies can run the model and predict the changes in water pressure availability based on the placement of additional water towers and increased plant production.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lakefront Linear Park Shoreline Protection <i>Jefferson Parish, LA</i></p> <p>Ryan Foster, PE Southeast Louisiana Flood Protection Authority-East 6920 Franklin Ave. New Orleans, LA 70122 (504) 286-3000 x1057</p>	<p>BKI was tasked by the East Jefferson Levee District to provide a preliminary engineering analysis report in order to research and identify alternative shoreline protection methods to provide erosion protection for the Linear Park along the south shore of Lake Pontchartrain, from the St. Charles parish line to the Orleans parish line (approximately eight miles of protection, excluding areas of marinas and recreational facilities).</p> <p>BKI was responsible for coordinating all necessary surveys and geotechnical investigations to aid in the preparation of the report. BKI researched viable alternative solutions for shoreline protection which were used to evaluate the feasibility on a cost-benefit basis in order to propose possible revisions to the FEMA Project Worksheet #13866. Final construction plans, specifications and construction cost estimates were prepared for the shoreline protection revetment designed by BKI. Construction administration and resident inspection services during the construction phase were also provided by BKI staff.</p>	
<p>Completion Date (Actual or estimated):</p> <p>05/2013 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$1,431,405.82	\$1,112,833.23
PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bucktown Harbor Marina Complex <i>Jefferson Parish, LA</i></p> <p>Mark Drewes, PE Jefferson Parish Department of Public Works 1221 Elmwood Park Boulevard, Ste 802 Harahan, LA 70123 (504) 736-6821</p>	<p>BKI was retained by Jefferson Parish to prepare a Master Plan and complete engineering design for the Bucktown Harbor Marina Complex on Lake Pontchartrain. The plan included a 3.5-acre wetland mitigation marsh to improve environmental conditions on the lakeshore which was required by the National Marine Fisheries. BKI was responsible for the permit plan and application process on behalf of the parish. The habitat value of the new marsh offset the lake-bottom loss of the 17- acre land reclamation activities that were implemented to create the marina, and 6 acres of harbor dredging requested in the permit. At the completion of the land reclamation, BKI prepared plans and specifications for the bidding of the wetland plantings for the Spartina alterniflora marsh and did construction administration and monitoring of the plantings.</p> <p>The complex design included a calm-water harbor for a small-craft marina along the south shoreline of Lake Pontchartrain, concrete rip-rap jetties, and steel sheetpile bulkheads. Phase I construction included the following: site clearing, site grading, grassing, aggregate roadways and 85 car parking areas, walkways, all site utilities, 70-slip floating marina facilities, and recreation facilities. Utility services for water, sewer, pump station, force main work, electrical service, and lighting are provided and also included routing the force main to the existing pumping systems. A pumping station was also designed and installed at the marina to allow for future growth at the facility. An additional 165 linear feet of 8" gravity line was also included in the project from various locations to the new pumping station.</p> <p>BKI assisted Jefferson Parish in preparing a Community Development Block Grant under the Fisheries Infrastructure Program. Under this federal grant, Jefferson Parish received \$2.1 million towards the construction of the project. In addition, BKI prepared and coordinated application for all State and Federal permits, including a U.S. Army Corps of Engineers Section 404 permit and State Department of Natural Resources and Department of Environmental Quality permits for construction of the harbor.</p>	
<p>Completion Date (Actual or estimated):</p> <p>03/2012 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$3,300,000	\$980,936.12

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Bayou St. John Adaptive Management Plan, Dredging Design, and Control Structure Demolition New Orleans, LA</p> <p style="text-align: center;">Ryan Foster, PE Director of Operations Southeast Louisiana Flood Protection Authority -East 6920 Franklin Ave. New Orleans, LA 70122 (504) 286-3000 x1007</p>	<p>Southeast Louisiana Flood Protection Authority-East (SLFPA-E) and the Orleans Levee District(OLD) chose BKI to produce a study of the Bayou St. John water management system with the goal determining the best engineering and environmental methods to re-introduce native aquatic species into the watershed. Using LIDAR data, ArcMap, HEC-HMS and HEC-RAS, models were created to complete the two (2) goals of the Phase I Study: develop a hydrologic and hydraulic model to determine optimal conditions and the timings to attract marine species. A HEC-HMS hydrologic model was created to study the amount of flow that would be generated from a 2, 5, 10, 25, 50, and 100 year Soil Conservation Storm Event. These flows were imported into HEC-RAS to determine the amount of flooding that would occur from the aforementioned storm events while the Sector Gates were closed. Using the model data, sector gate opening time schedule was created based on the flows and water surface elevations generated by the gate opening. In conjunction with the modeling effort, BKI provided oversight in regards to the optimization of water flow throughout the gate. These optimum periods were based upon environmental factors that would increase the likelihood of marine species recruitment into Bayou St. John. The periods included daily variations and seasonal variations to attract either larval or adult forms of the marine species.</p> <p>Based on the data collected it was determined the highest priority project in order to re-introduce native aquatic species was to remove the old flood control structure. BKI prepared the selective demolition plans to remove the now obsolete structure sections since the new sector gate structure was constructed. Preliminary and final plans were prepared for the removal of three (3) sluice gates and their support wall as well as the plans for the installation of struts to stabilize the remaining existing structure. BKI also assisted SLFPA-E in the advertisement, bidding and award of the project In addition to the above services, performed construction administration and engineering services during construction including shop drawings, pay applications, requests for information, and final inspection.</p> <p>In addition to the above assignments, another high priority item identified in the ecological study was the removal of a man-made sandbar placed during the construction of the Lakeshore Drive Bridge over Bayou St. John. BKI was tasked with developing preliminary and final plans for a removal method that would accommodate the native aquatic species in the water column and water bottom. Preliminary and final plans were developed and warning signage for swimmer safety were installed. Advertisement, bidding and project award assistance was provided as well as construction administration and engineering during construction services that included shop drawings, pay applications, requests for information, and final inspections.</p>	
<p>Completion Date (Actual or estimated):</p> <p style="text-align: center;">01/2018 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$861,565.66	\$861,565.66

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information: Lincoln Beach Coastal Restoration, Master Plan, and Redevelopment <i>New Orleans, LA</i> Ryan Foster, PE Director of Operations Southeast Louisiana Flood Protection Authority -East / Sewerage & Water Board of New Orleans 6920 Franklin Ave. New Orleans, LA 70122 (504) 286-3000 x1007	Nature of Firm's Responsibility: <p>Lincoln Beach, a 17-acre site located on the south shore of Lake Pontchartrain in New Orleans, functioned as an amusement park and swimming beach for Black citizens during the period of segregation until it closed in 1965.</p> <p>After renewed interest from local neighborhood civic associations, the Orleans Levee District Board of Commissioners approved a full evaluation of the site's potential and develop a Master Plan with cost estimates to determine the property's potential future uses. BKI conducted an Environmental Assessment and evaluation of the existing physical, structural, and environmental conditions of the beach; recommended an abatement and improvement plan to make the site and lake waters safe for public access then created a Master Plan for passive recreational use of the waterfront area while incorporating the site's history. Key parts of the five-phase plan called for emphasis on the restoration of the sand beach as well as with a new concessions building and bathhouse, nature trails, picnic pavilions, and fishing pier.</p> <p>As a result of the site sitting vacant since closing, the considerable deterioration caused extensive loss of wetland areas and aquatic vegetation along the shoreline. The US Environmental Protection Agency entered into an agreement with the Sewerage and Water Board of New Orleans to improve the Lake's environmental condition.</p> <p>BKI was contracted to create the Lincoln Beach Water Quality Improvement Plan with the goal of aquatic and wetland vegetation restoration along the beach shoreline. In addition to the vegetation plantings, use of stone breakwaters to protect existing wetland and upland hardwood buffer zones within the 12.5-acre project area was also included in the plan. As part of the project, BKI monitored and recorded vegetation growth, changes in water quality, and developed contingency plans to address the possibility of unanticipated planting results as well as provided construction administration and designed platforms to allow the public to view the environmental improvements.</p> <p>During the evaluation of the pier it was determined the Lincoln Beach boating and fishing pier required demolition. Age and hurricane damage and made the 45 year-old pier structure unsuitable for further use and BKI was contracted to develop demolition plans for the removal of the damaged deck / beams and deteriorated wooden pilings.</p>	
Completion Date (Actual or estimated): 2006	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$1,211,515.46	\$1,211,515.46

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>USDA Natural Resources Conservation Service (NRCS) Indefinite Delivery Construction: Barataria Basin Land Bridge Shoreline Protection Project Jefferson Parish, LA</p> <p>Ralph Broome US Department of Agriculture (USDA) 3737 Government Street Alexandria, LA 71302 (318) 473-7781</p>	<p>Burk-Kleinpeter, Inc. was selected by the USDA to design plans and specifications for the wetland protection and enhancement project that encompasses marshes along the east bank of Bayou Rigolettes, the west bank of Bayou Perot, the east and west banks of Harvey Cutoff and the north and northeast shoreline of Little Lake in Lafourche and Jefferson Parishes.</p> <p>The Barataria Basin Land Bridge Shoreline Protection Project Phase 4 is located in Jefferson Parish, Louisiana, central to a point approximately 3 miles south of Lafitte, along the east bank of Bayou Rigolettes. The entire project area encompasses approximately 706 acres of intermediate marsh, upland shrub, and open water habitat. This project area was identified by the CWPPRA Environmental Work Group and represents the acreage that, without the project over 20 years, would be lost directly to shoreline erosion, as well as additional acreage that would be affected by increased tidal exchange, coalescence of interior ponds, and deepening of interior ponds throughout the project life.</p> <p>The objective of this Phase of the Barataria Basin Land Bridge Shoreline Protection Project is to reduce or eliminate shoreline/bank-line erosion for a portion of Bayou Rigolettes in Jefferson Parish. BKI designed plans and specs in accordance with a USDA NRCS requirements for a proposed levee system, proposed placement of forshore rock berms, and preformed slope stability analysis. The project includes 29,500 linear feet of shoreline protection along the East Bank of Bayou Rigolettes.</p>	
<p>Completion Date (Actual or estimated):</p> <p>09/2007 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$8,500,000	\$973,738.93

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Plaquemines Parish Coastal Restoration Program Plaquemines Parish, LA</p> <p>Ken Dugas Plaquemines Parish Government 333 F. Edward Hebert, Building 500 Belle Chasse, LA 70037 (504) 946-6115</p>	<p>BKI was contracted by Plaquemines Parish to quantitatively assess the sustainability of coastal restoration projects in the Parish that have the potential to provide protection from hurricane surge and waves using DELFT3D, SWAN, and FLOW3D models with the consideration of environmental factors such as storm intensity and track variations. Projects assessed were included in the 2012 Comprehensive Master Plan and in the Parish's Strategic Implantation Plan and cost estimations for the selected vegetation options.</p> <p>The Parish determined the best course of action was to develop wetland vegetation ridges immediately adjacent to the back levee system between Fort Jackson and Venice, Louisiana as part of the Plaquemines Parish Coastal Restoration Project. The project's goal was the development of coastal restoration in tandem with flood protection projects to maximize the protection to both the environment and resident of Plaquemines Parish.</p> <p>The project provided stabilization to the existing area through the in-filling of three open water areas that currently penetrate the brackish marsh, adds freshwater nutrients and sediment to assist the improvement of the quality of the existing marsh, and establishes transitional wetland vegetation on the west side of the ridges. While this project converted over 394 acres of brackish marsh into Roseau Cane and Cypress ridges, the impact was offset by the creation of 582 acres of new brackish marsh through the in-filling of open water and the enrichment of an additional 158 acres of existing brackish marsh.</p> <p>Materials for the construction of the ridges, creation of new brackish marshes, and the enrichment of existing brackish marshes were hydraulically pumped from the Mississippi River, over the main line river levee, under LA Highway 23, and across the Reach B-2 back levee through a 30" pipeline. Permits for dredging in the river, crossing the levees and highway, and placement of dredge materials in wetlands were pursued through the various Federal and State agencies by BKI. BKI also prepared plans and specifications for the hydraulic placement of these materials including preliminary engineering, final design, right-of-way surveys and bidding services.</p>	
<p>Completion Date (Actual or estimated):</p> <p>08/2012 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$36,270	\$35,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">UBRR - Project Design & Project Management</p> <p style="text-align: center;"><i>St. Charles, St. James, St. John the Baptist, Ascension, Assumption, & Lafourche Parishes, LA</i></p> <p style="text-align: center;">Donald Ray Henry Lafourche Basin Levee District 21380 Highway 20 Vacherie, LA 70090 (225) 265-7545</p>	<p>Burk-Kleinpeter, Inc., (BKI), was selected by the Lafourche Basin Levee District to provide Program Management and Design for implementation of the Upper Barataria Risk Reduction (UBRR) project. The UBRR project provides continuous hurricane and storm damage risk reduction benefits for the six parishes in the project area, including Ascension, Assumption, Lafourche, St. Charles, St. James, and St. John the Baptist Parishes. This region is vulnerable not only to storm surge from the Gulf of Mexico, but also from rain inundation. The area has a large concentration of petrochemical plants, oil & gas facilities, numerous homes, schools, businesses, and historic sites.</p> <p>The UBRR project received funding from the Bipartisan Budget Act of 2018 (BBA-18), to complete the USACE Federal Study which evaluated several scenarios such as consideration of rainfall events, smaller tidal events, multiple alignments, and incremental levels of protection to determine Federal interest in the project through their standard benefit-cost analysis. As part of the Program Management scope, BKI lead the design team in coordinating all stakeholders to provide all required information necessary to guide the project scope development and selection of alternative alignments for the study. BKI also lead its team and stakeholders in the collection of data, providing presentations for applicable governing authorities, attended meetings as well as provided logistical and technical support while coordinating closely with the State Watershed Council in order to keep the UBRR project at the forefront of the CDBG mitigation project funding list.</p> <p>In addition to the program management responsibilities, BKI was responsible for the engineering design necessary for the construction and enlargement of approximately 33 miles of hurricane risk reduction between LA Hwy 308 on the western end and the Davis Pond Diversion West Guide Levee on the eastern end. The project includes earthen levees, a 270' steel barge swing gate floodgate in Bayou Des Allemands, a steel roller-gate across LA Hwy 306, tidal interchange structures, concrete T-Wall floodwalls, and pump station frontal protection. The project is divided into five (5) segments, as follows:</p> <p><i>Segment 1: Davis Pond Diversion to Paradis Canal</i> <i>Segment 2: Sunset Levee District Improvements (Paradis Canal to Bayou Des Allemands)</i> <i>Segment 3: Bayou Des Allemands Floodgate</i> <i>Segment 4: US Hwy 90 Tie-in along Midway Canal</i> <i>Segment 5: Midway Canal to LA Hwy 308</i></p> <p><i>The design and data collection for this project conforms to the criteria of the Louisiana Coastal Protection and Restoration Authority (CPRA) and the U.S. Army Corps of Engineers' Hurricane and Storm Damage Risk Reduction System (HSDRRS). Upon completion, the project will provide continuous risk reduction throughout the region between the Morganza to the Gulf and West Bank and Vicinity Hurricane Protection Projects.</i></p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	12/2023 (Est.)	<div style="display: flex; justify-content: space-between;"> \$361,623,355 \$361,623,355 </div>

TEC Professional Services Questionnaire

PROJECT NO. 8								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p>Louis Armstrong New Orleans International Airport (LANOIA) Master Drainage Plan Update <i>Kenner, LA</i></p> <p>Ray Kliebert New Orleans Aviation Board Highway 44, 2nd Floor Convent, LA 70723 (225) 562-2293</p>	<p>Burk-Kleinpeter, Inc. was tasked with updating the Louis Armstrong New Orleans International Airport's 1992 Master Drainage Plan, as the airport has since seen many changes to its facility. Expansive paving operations increased rainfall runoff, impacting the airport drainage system. In addition, Jefferson Parish has also expanded further increased its own rainfall runoff. To evaluate the increase in airport rainfall runoff, BKI updated the U.S. Army Corps of Engineers' (USACE) HEC-HMS (Hydrologic Modeling Software) Model of Jefferson Parish East Bank. BKI completed an inventory of the airport's existing drainage system then incorporated the data into the USACE's HEC-RAS (River Analysis Software) Unsteady State Model of Jefferson Parish East Bank. This demonstrated the drainage system's existing conditions and current flooding from which drainage improvements could be modeled and recommended to alleviate this flooding.</p> <p>Once the LANOIA existing conditions and improvement models were created and calibrated, future condition models were created based on the airport's Strategic Growth Plan. Future drainage improvements were modeled and recommendations, including cost estimates, were created to alleviate any potential flooding. Finally, BKI created a Comprehensive Drainage Manual per FAA regulations and standard practices. The manual enabled airport facility engineers to evaluate localized drainage conditions or problems, then offer techniques to properly mitigate these issues.</p>							
Completion Date (Actual or estimated): 06/2012 (Actual)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; text-align: center; padding: 5px;">Entire Project:</th> <th style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">\$623,000</td> <td style="text-align: center; padding: 5px;">\$577,675</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	\$623,000	\$577,675
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							
\$623,000	\$577,675							
PROJECT NO. 9								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p>25th Street Canal Drainage Improvements Project (Resiliency District) <i>Gretna, LA</i></p> <p>Amanda Pellegrin City of Gretna Department of Utilities 740 2nd Street Gretna, LA 70053 (504) 363-1556</p>	<p>The 25th Street Canal Neighborhood in Gretna experiences the worst repetitive flood claims in the state. The neighborhood flooding occurs when the Heebe Canal backflows into the 25th Street Drainage Canal and overtops its banks. Using a combination of La. State Capital Outlay funds, CDBG funds and FEMA Flood Mitigation Grant Dollars, the City of Gretna awarded BKI the Design, Construction Administration and Resident Inspection Services on the project. The estimated construction costs is \$13,970,000.</p> <p>The project components consist of both Green and Grey Infrastructure. The neighborhood originally utilized Gravity Drainage System using both the 25th Street Canal and several outfall pipes into the Heebe Canal. After performing Hydraulic Modeling using the United States Army Corps of Engineers Software (HEC-RAS), it was determined that a 350 cubic feet per second pump station would be built at the confluence of the 25th Street and Heebe Canals. In addition, the gravity drainage system would be manifolded to route all the runoff to the Pump Station by placing flap gates on the existing outfall drainage pipes, reversing drainage pipe grades and installing Green Infrastructure elements to reduce runoff. Because the Eastern Bank of the Heebe Canal was failing, over 2000 feet of sheet pile wall was installed to secure the bank and allow for flap gate installation. To accomplish the manifold of the existing drainage system and force the runoff to the pump station, over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.</p>							
Completion Date (Actual or estimated): 12/2024 (Est.)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; text-align: center; padding: 5px;">Entire Project:</th> <th style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">\$13,970,000 (Est.)</td> <td style="text-align: center; padding: 5px;">\$921,786 (Est.)</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	\$13,970,000 (Est.)	\$921,786 (Est.)
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							
\$13,970,000 (Est.)	\$921,786 (Est.)							

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p align="center">Belle Chasse Area Master Drainage Plan <i>Belle Chasse, LA</i></p> <p align="center">Ken Dugas Plaquemines Parish Government 333 F. Edward Hebert Blvd., Building 500 Belle Chasse, LA 70037 (504) 934-6115</p>	<p>Burk-Kleinpeter, Inc. was selected by Plaquemines Parish Government to prepare a Master Drainage Plan for the area bounded by the Mississippi River, Orleans Parish, the Gulf Intercoastal Waterway, and the Walker Road Canal. The study was conducted to provide options to alleviate flooding in the existing subdivisions and agricultural lands through development of better canal networks and a new pumping station. BKI reviewed the existing land use and projected land use to develop HEC-HMS and HEC-RAS models to simulate the existing drainage conditions and future drainage conditions based upon the existing drainage infrastructure. Future condition models were also developed to recommend drainage infrastructure improvements.</p> <p>The study was funded with HMGP dollars and performed utilizing the latest HEC-HMS and HEC-RAS modeling software in conjunction with the latest ArcGIS software and the latest available LIDAR imagery to develop the HEC-HMS and HEC-RAS models of the existing drainage system. From the existing conditions models created, BKI modified the models for future land use and drainage conditions. As part of the Master Drainage Plan, the potential of improving the existing canals or the need for a new outfall pump station will be evaluated, construction cost estimated, and individual projects prioritized. This plan will be the basis for infrastructure programming and guidance for residential and commercial developments.</p>	
<p>Completion Date (Actual or estimated):</p> <p align="center">12/2013 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$611,000	\$734,396

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A		
2. N/A		
3. N/A		
4. N/A		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.



BURK-KLEINPETER, INC., (BKI) is pleased to submit our Statement of Qualifications to Jefferson Parish in response to your public notice for **SOQ # 24-020 Coastal Engineering Consulting as Needed Parish Wide.**

As a certified small business with over 100 years of experience, BKI is one of the leading consulting firms in the southeast region providing professional engineering (civil, mechanical, and structural), planning, and environmental services to public and private clients throughout the southeastern US. The firm's engineering practice has consistently ranked among the top 20 firms in the southern states and is included regularly in the Top 500 Design Firms in the nation by *Engineering News Record*. This is a major accomplishment for a privately owned, New Orleans based firm. We were recently recognized as part as part of the 2022 UNO25 class which recognizes 25 businesses that are making an impact on the community.

Our stability and depth of experience has provided numerous state and local public works authorities with consulting services for the successful completion of a wide range of projects. **BKI has decades of experience in providing professional engineering and consulting coastal restoration and protection services including planning, permitting, design, bidding/construction administration and supplemental services to a multitude of public and private clients.** With a multidisciplinary platform of experience and abilities, BKI integrates the proven best practices from all disciplines to meet our clients' big-picture needs in an ever-changing environment. **Headquartered in Kenner, BKI has provided engineering services to Jefferson Parish for more than 40 years.** BKI, independently and in coordination with sub-consultants, has worked on a variety of water pipeline infrastructure projects and has over 40 years of experience performing civil and structural engineering services for projects across southeastern Louisiana, on the Mississippi Gulf Coast, and in central and coastal Alabama.

(See Additional Pages)

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  Print Name: Henry M. Picard, III PE, PLS

Title: Senior Vice President Date: July 16, 2024

MINIMUM REQUIREMENTS FOR SELECTION

1. One principal who is a licensed, registered professional engineer in the State of Louisiana:

- *Michael D. Chopin, PE, BKI's President & CEO, is a principal in the firm and a licensed, registered professional engineer in the State of Louisiana.*

2. A professional in charge of the project who is a licensed, registered professional engineer in the State of Louisiana with a minimum of five (5) years experience:

- *Henry M. Picard, III, PE, PLS, a Senior Vice President and Civil Engineer, is a Professional in Charge of Project and a licensed, registered professional civil engineer in Louisiana with over 40 years of experience.*

3. One employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline.)

- *David E. Boyd, PE, a BKI Vice President, is a licensed, registered professional civil engineer in Louisiana with 16 years' experience the disciplines involved.*
- *René A. Chopin, III, PE, a BKI Senior Vice President / Chief Engineer and Civil Engineer, is a licensed, registered professional Civil Engineer in Louisiana with over 30 years' experience in disciplines involved.*
- *René A. Chopin, IV, PE, a BKI Civil Engineer, is a licensed, registered professional civil engineer in Louisiana with 4 years' experience in disciplines involved.*
- *Timothy J. Koenig, PE, a BKI Civil Engineer, is a licensed, registered professional civil engineer in Louisiana with 13 years' experience in disciplines involved.*
- *Ralph P. Fontcuberta, Jr, PLS, BFM Corp. Founding Principal and Land Surveyor, is a licensed, registered professional land surveyor in Louisiana with 55 years' experience in the disciplines involved.*
- *Chad M. Poché PE, a Gulf South Vice President / Co-founder / Principal and Geotechnical Engineer, is a licensed, registered professional in Louisiana with nearly 30 years' experience in the disciplines involved.*
- *Lucas Watkins, President / Principal, and Senior Environmental Scientist, has 21 years' experience as a professional consultant in environmental regulatory compliance on multi-faceted projects.*

EVALUATION CRITERIA

1. Professional Training and Experience

BKI has provided **civil, mechanical, structural, and environmental engineering** services on a wide range of projects in Jefferson Parish including **Coastal Engineering and Consulting Services**. BKI has completed over 80 projects for Jefferson Parish and has nurtured a working relationship with the Jefferson Parish Engineering as well as the various heads of the Public Works Department to provide detailed project scopes of work and to develop an engineered solution. If we are selected to provide supplemental engineering and consulting for coastal restoration, we will use our previous experience and working relationships with the parish and our sub-consultant partners to provide a successful product from conceptual design through construction of the assigned projects.

Coastal Protection, Flood Control, and Restoration Experience

BKI's coastal engineering experience includes numerous coastal protection, flood control, and restoration projects. We've developed hurricane protection levee alignments and designs, designed drainage pumping stations, designed hydraulic control structures, designed forested ridges, as well as provided construction oversight for coastal protection and flood control projects. Our levee and drainage pumping station experience, together with our design abilities, make us an excellent choice when levee and drainage pumping station design services are needed. At BKI our overall coastal engineering experience is dominated by levee and drainage pumping station projects. Experience fosters expertise, and our experience is extensive; therefore, we consider ourselves experts in the field and hope you'll agree. BKI has a history of working with most of, and is currently working with, the following commissions and levee boards:

- *Coastal Protection and Restoration Authority*
- *Amite River Basin Commission*
- *Pontchartrain Levee District*
- *Lafourche Basin Levee District*
- *East Jefferson Levee District*

- *Orleans Levee District*
- *South Louisiana Flood Protection Authority (SLFPA) East and West*
- *Lake Borgne Basin Levee District*
- *Plaquemines Parish Government*
- *US Army Corps of Engineers*

Hydraulics and Hydrology Engineering

BKI has provided a full spectrum engineering service on flood and drainage control as well as hurricane protection design beginning with hydrologic and hydraulic studies utilizing HEC-HMS and HEC-RAS software through design and construction administration/resident inspection services. Our firm's work with numerous federal, state, and local entities to design storm surge and hurricane protection structures, floodgate, floodwalls, and levees throughout Southeast Louisiana has kept us on the leading edge of flood control and hurricane protection design for over 30 years.

Most notably, BKI incorporated the sweeping hurricane protection design criteria established by the U.S. Army Corps of Engineers (USACE) as a result of the Federal Response to the hurricanes of 2005. The USACE's Hurricane and Storm Risk Reduction System (HSDRRS) criteria have been utilized by the firm as the standard of care and integral design elements in the hurricane protection projects assigned. Our projects have included inverted T-wall design, earthen levee stability analyses and design, pump station frontal protection design, and floodgate design and inspection. BKI utilizes the latest design guidance and criteria to provide storm surge reduction and flood control solutions for clients whose jurisdictions require the protection of citizens living in basins protected by both federal and non-federal flood protection systems. From the study phase, through design and construction, BKI implements its design experience in levee, floodwalls, and floodgate engineering as a vital compliment to its drainage pump station engineering knowledge.

Civil Engineering

BKI has planned, designed, and inspected numerous large scale civil engineering projects including hurricane protection levees, coastal restoration projects utilizing forested ridges, shoreline protection, erosion control and wetland restoration. Our clients have included the U.S. Army Corps of Engineers, the USDA Natural Resources Conservation Service, the Louisiana Department of Natural Resources and many local levee boards throughout coastal Louisiana. We routinely meet and exceed our clients expectations by delivering high quality and efficient design, construction and maintenance for all of our projects. We'll guide Jefferson Parish's projects through planning and zoning, preliminary design, mapping/plotting, and final design using our extensive experience. Extensive field analysis, along with the latest advancement in design, as well as scheduling and cost estimating technologies are utilized by our engineers to ensure each project is designed and managed effectively.

Structural Engineering

BKI has provided a wide variety of structural engineering design and construction management services for a broad spectrum of storm mitigation, rehabilitation, and reconstruction projects including flood control structures, sector gates, drainage pumping stations, tidal exchange stations, floodwalls, wharves, docks, berths, ports, warehouse structures, commercial buildings, shipyard facilities, and so forth with clients for these in both private public agency sectors. The designs of the projects have consisted of various types of materials and construction methods including steel, concrete (cast-in-place, pre-cast and pre-stressed), timber, aluminum, and masonry members and components. BKI has utilized the multiple designs previously listed throughout our various design projects to ensure the client is provided with the required structure with a long lasting product and a minimal maintenance cost.

Project/Construction Management and Resident Inspection

In addition to engineering design, BKI project managers are able to assist clients in ensuring accuracy through the entire project cycle from the concept/analysis/feasibility stage to design then through bidding, permitting, construction administration/management, and project closeout. BKI has also been contracted to provide construction management and resident inspection services to multiple clients on projects that were designed by other engineers or public agencies. During this construction management period, BKI is solely the representative of the Owner and provides a review of all components of the design. This project design review allows BKI to find potential errors or omissions in the design, as well as, provide design recommendations to increase the longevity of the structure and minimize the annual preventative maintenance cost for the Owner. Our staff has provided these services for local, state and federal agencies, as well as private industry clients, and fully understands the role and responsibility as the construction management team.

The BKI Team

BKI has teamed with geotechnical, surveying, and coastal modeling firms to create a team with the ability to provide comprehensive engineering services for coastal protection, flood control, and restoration projects. The following information identifies these teaming firms and describes their responsibilities; for details on each firm, please refer to their respective TEC-Questionnaire forms presented later in this proposal. We are proud to present, what we feel is, the Team with the best ability to fulfill the requirements for Jefferson Parish's Coastal Engineering and Consulting services. In addition, our collective project experience, vast clientele, and diverse team composition demonstrate an ability to interact and work with the parish and its other contracted firms.

Surveying Services

BFM Corporation, LLC, a majority Woman-Owned Business Enterprise (WBE) and Hudson Initiative certified firm, will provide complete land and hydrographic surveying services. Land surveying services provided by this firm include have covered all facets of engineering, construction, and forensics; topographic; hydrographic; and drone-based surveying and high definition laser scanning. Their work routinely involves extensive records and related research as well as coordination with the client/agency /or department in order to ensure accurate and expeditious survey reports. BFM's capabilities include, but are not limited to, topographic surveying; drone surveying/phogrammic and LiDAR; bathymetric and hydrographic surveys; property, boundary and right-of-way surveys; maps, cross-sections, and data sets; 3D laser scanning; benchmarks; construction-related surveying; builder's package surveys; as well as American Land Title Association (ALTA) surveys. Project and personnel bios provide an overview and relevant examples of executed project work.

Geotechnical Engineering

Gulf South Engineering and Testing, Inc., a Woman-Owned Business Enterprise (WBE), Hudson Initiative certified, and RTA recognized small business firm, will provide geotechnical engineering services. Gulf South's laboratory is AASHTO and CCRL certified as well as USACE validated.

Environmental Services

ELOS Environmental, LLC, their familiarity with federal, state, and local agencies combined with rich expertise in relevant scientific technologies has resulted in streamlined services for their clients, saving them immeasurable time and money while achieving their goals. ELOS can provide invaluable services and support to private businesses and governments entities at all levels giving them more time to do what matters. They help manage resources, develop grant proposals, and secure environmental clearances and permits for various projects.

Electrical Engineering

Creative Engineering Group, LLC is a professional engineering firm licensed in the State of Louisiana and Mississippi, and offers a full range of electrical engineering services, including conceptual planning, preparation of construction documents and construction administration, with a highly skilled professional team.

Key Staff Experience

Michael D. Chopin, PE - *Principal / QA/QC; LA Registered Professional Engineer (MPR No. 1)*

- 33 years of experience in civil engineering planning, design, and construction of Jefferson Parish projects
- Wide range of project management experience includes numerous coastal-hurricane protection, hydrologic and hydraulic modeling, master drainage plan, design, construction administration, and supplemental services projects.

Henry M. Picard, III, PE, PLS - *Regional Manager; LA Registered Professional Engineer (MPR No. 2)*

- 43 years of experience includes project management and project engineering services.
- Wide range of project management experience includes coastal and environmental restoration, hydrologic and hydraulic modeling, master drainage planning, drainage, drainage improvement, and pump station projects.
- Wide range of experience as Principal, Project Manager, or Project Engineer includes many projects in Jefferson Parish.

David E. Boyd - *Project Manager; LA Registered Professional Engineer (MPR No. 3)*

- 18 years of experience in civil engineering and project management of Jefferson Parish and Gretna projects.
- Wide range of civil and hydraulic engineering and project management experience on wetland and marsh restoration, hurricane mitigation, watershed study, master drainage planning, and extensive drainage improvement projects.
- Proficient in hydrologic and hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software.

TEC Professional Services Questionnaire

René A. Chopin III, PE - Chief Engineer/Structural Engineer; LA Registered Professional Engineer (MPR No. 3)

- **36 years of engineering experience in structural including Jefferson Parish Projects.**
- Has served as Project Manager or Project Engineer for structural elements on numerous infrastructure, storm protection, program management, environmental assessment projects as well as other structural and infrastructure projects.

René A. Chopin, IV, PE - Civil Engineer; LA Registered Professional Engineer (MPR No. 3)

- **11 years experience in civil/hydraulic engineering**
- Experience includes performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration for various project types (levee and storm water prevention, harbor improvements including dredging, master drainage plan, water, roadway and drainage improvement, and projects).
- Experience using DOTD HYDR 2009 and HEC-RAS programs to calculate drainage flows and pipe capacities.

Timothy J. Koenig, PE - Civil Engineer; LA Registered Professional Engineer (MPR No. 3)

- **20 years of experience in civil engineering and utility design.**
- Typical responsibilities include managing plan production on large scale public works projects, preparing construction documents, leading CAD technicians and engineers, utility coordination, and construction administration.
- Has worked on many project types and sizes in Jefferson Parish.

EDUCATION AND EXPERTISE OF PROPOSED STAFF

NAME	YEARS EXPERIENCE	EDUCATION	EXPERTISE	JEFFERSON PARISH EXPERIENCE
Michael D. Chopin, PE	33	BS, Civil Engineering	QA/QC, Civil Engineering	Yes
Henry M. Picard, III, PE, PLS	43	BS, Civil Engineering	Project Manager	Yes
Rene A. Chopin, III, PE	36	BS, Civil Engineering	Chief/ Structural Engineer	Yes
David E. Boyd, PE	20	BS, Civil Engineering	Civil / Hydraulic Engineer	Yes
Rene A. Chopin, IV, PE	11	BS, Civil Engineering	Civil / Hydraulic Engineer	Yes
Timothy J. Koenig, PE	22	BS, Civil Engineering	Civil Engineer	Yes
Daniel S. Caluda, Jr.	42	BS, Petroleum Engineering	Mechanical Designer	Yes

2. Size of Firm

BKI's entire company staff consists of 29 full-time employees who work out of our Kenner office and are categorized as follows:

ENGINEER	DESIGNER/DRAFTER	ENGINEERING INTERN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE
Civil: 8; Structural: 3	6	1	3	8

Of these employees, we have identified **7** individuals who will make up the core staff to provide services for this project. See Section K for their resumes. In addition, we are able to marshal resources from other experienced staff members in the company.

3. Capacity for Timely Completion

BKI's past performance attests to its capacity to handle a reasonably large number of projects concurrently without any reduction in quality of design. Our present workload is such that we are able to commit the appropriate resources, including technical and support personnel. Based on BKI's well-established record of providing high quality services within set time frames, we are confident that BKI possesses the necessary manpower to complete any assigned tasks without compromising our standards.

Because BKI has a team of experienced program managers, construction inspectors and field engineers, BKI can accommodate any field decisions or plan changes quickly and efficiently. Our key staff members are dedicated, seasoned professionals who are equipped to simultaneously handle the needs of multiple projects.

4. BKI's Past Performance on Jefferson Parish Contracts

BKI has performed successfully on numerous Jefferson Parish and public contracts of various types/sizes without time delays, cost overruns, or design inadequacies in prior work completed for the parish or any other public entity.

5. Location of Principal Office Where Work will be Performed

Our office is located at 2400 Veterans Memorial Blvd, Suite 310, Kenner, LA 70065. Our business hours are 7:30 a.m. to 5:30 p.m., Monday through Thursday, and 7:30 a.m. to 11:30 a.m., on Friday.

6. Adversarial Legal Proceedings with Jefferson Parish

BKI has no previous nor ongoing litigation with Jefferson Parish or any segment of the Parish government.

7. Prior Successful Projects of the Type and Nature of Engineering Services

BKI has worked with Jefferson Parish on dozens of past projects covering a wide range of services and fees and offers a comprehensive package of services for planning, design, and construction of all types of coastal protection projects.

Coastal Protection Experience

Our engineers and construction administrators utilize the USACE's HSDRRS criteria to create robust and cost effective project plan for tasks ranging from investigating flooding problems to building or expanding large drainage pumping stations, to drainage channel and detention pond improvements. We have worked on numerous coastal protection projects, including flood control, hurricane protection, levees, floodgate systems, enhancing natural landscape elements, and pump stations. BKI has planned, engineered and helped construct some of the most significant infrastructure protection projects in Louisiana.

Levees

BKI has years of experience in permitting and designing new levees, existing levee lifts, existing levee repairs and rehabilitation measures. We have provided these services to numerous coastal parishes, many of the State's Levee Boards, and the United States Army Corps of Engineers. In addition to the design and construction services, BKI has participated in a number of levee feasibility studies as a part of the local sponsors' design team. BKI is fully versed in the latest guidelines and criteria for the design of levees. BKI offers a complete range of consulting services in the planning, design, construction management, consultation, and evaluation of levees, including initial and continuing inspections; damage assessments and emergency repair designs; hydraulic and hydrologic evaluations, including flow through structures, peak flow, runoff volume, and flood levels; and protective measures against scour, erosion, and seepage.

Drainage Pumping Stations

BKI is one of the foremost authorities in drainage pumping station design in the Gulf South Region. Over the past 30 years, we have led the design on more than 35 stations ranging in pumping capacities from 150 – 4,000 cubic feet of water per second (cfs), with additions to pump stations up to 12,500 cfs. Designs can incorporate well proven pumping station hydraulics standards, newer USACE requirements and USACE-developed modern-formed suction intakes, as well as the application of hydraulic, physical and computer models to help fine tune final engineering designs. BKI has successfully applied numerous types of drainage pumps (12 feet, horizontal and flowpot; 8 feet, vertical; etc.), drivers (diesel engine and electric motor), intake screen cleaning systems, and backflow prevention designs, and is familiar with the various auxiliaries required for the construction of reliable and effective drainage stations. BKI has also provided FEMA Certifications for pumping stations (St. Charles Parish and Orleans Parish). This experience coupled with our drainage system design abilities make BKI an excellent choice when drainage and flood protection design services are needed.

Forested Ridges

BKI has develop wetland vegetation ridges immediately adjacent to levee systems in southeast Louisiana to provide stabilization to the existing area through infilling open water areas that are penetrating brackish marsh, adding freshwater nutrients and sediment to assist the improvement of the quality of the existing marsh, and establishing transitional wetland vegetation on the Gulf side of the ridges.

Coastal Restoration Experience

Hydraulic and Hydrologic Restoration: BKI has re-established a hydraulic separation of watersheds to restore natural hydrology and reduce erosional effects by reestablishing hydrologic control points in areas plagued by subsidence, shoreline erosion, and strong tidal exchange scouring. To separate watersheds, BKI has beneficially used dredge materials. To restore natural hydrology, BKI has designed rock-and-riprap channel plugs, the cutting of gaps in spoil banks, and dredging requirements.

TEC Professional Services Questionnaire

Shoreline Protection

BKI has designed numerous shoreline protection measures in coastal Louisiana environments. These measures have included levee systems and foreshore rock berms, to provide wetland protection and enhancement for marshlands that had significant losses due to subsidence, shoreline erosion and the scouring out caused by strong tidal exchanges. These efforts have resulted in minimizing tidal exchange, reducing coalescence of interior ponds, and preventing deepening of interior ponds.

Marsh Creation

BKI's vegetated ridge projects will convert over 394 acres of brackish marsh into Roseau cane and cypress ridges, the impact of which will be offset by the creation of 582 acres of new brackish marsh through the infilling of open water areas and the enrichment of an additional 158 acres of existing brackish marsh. Materials for the creation of new brackish marsh and enrichment of existing brackish marsh will be hydraulically pumped from the Mississippi River. Permits for dredging in the river and placement of dredge materials in wetlands were pursued through the various Federal and State agencies by BKI.

BKI will provide a complete list of Jefferson Parish work upon request. The following list highlights our experience with verifiable references:

Below lists clients and reference information for a variety of projects in Jefferson Parish:

PROJECT NAME	FIRM ROLE	PROJECT DESCRIPTION	CLIENT REFERENCE
St. Charles Parish Westbank Hurricane Protection Levee	Prime Consultant	H&H Modeling Permitting Engineering Design Plans & Specifications Construction Administration Resident Inspection	Mr. Sam Scholle St. Charles Parish – Department of Public Works 1000 River Oaks Drive Destrehan, LA 70047 P: (985) 783-5102 Email: sscholle@stcharlesgov.net
Marvin Braud Watershed and Drainage Pumping Station	Prime Consultant	H&H Modeling Improvement Recommendations Engineering Design Plans & Specifications Construction Administration Resident Inspection	Mr. Ron Savoy East Ascension Consolidated Gravity Drainage District No. 1 42077 Churchpoint Road Gonzales, LA 70737 P: (225) 621-5730 Email: rsavoy@apgov.us
Westshore Hurricane Protection Project	Prime Consultant	Feasibility Report Review Environmental Impact Statement Technical Report Engineering Design Plans & Specifications Cost Estimates Project Coordination	Ms. Monica Gorman Pontchartrain Levee District 2204 Albert Street Lutcher, LA 70071 P: (504) 559-6691 Email: mgorman@leveedistrict.org
Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services	Prime Consultant	Technical Review Project Management Staffing Support Operations & Maintenance Manual Review/Checklists Operational Training	Mr. Glen Ledet, PE Louisiana Coastal Protection and Restoration Authority 2045 Lakeshore Drive. New Orleans, LA 70122 P: (225) 342-4501 Email: glen.ledet@la.gov

Conclusion

In the body of this Jefferson Parish Professional Services Questionnaire, BKI has provided the information requested in your Request for Qualifications. We feel we have the manpower, expertise, and equipment to exceed your expectations for **SOQ # 24-020 Coastal Engineering Consulting as Needed Parish Wide.**

BFM Corporation, LLC
TEC Questionnaire



BKI **BURK-KLEINPETER, INC.**
ENGINEERING · PLANNING · ENVIRONMENTAL



July 16
2024

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

As-Needed Parish-Wide

Coastal Engineering Consulting Services

SOQ **24-020** | Resolution No. **144205**

B. Firm Name & Address:



BFM Corporation, LLC

15 Veterans Memorial Boulevard | Kenner LA 70062

C. Name, title, and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President

504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com

Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President

504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com

Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

E. Please provide the number of employees whose primary function corresponds with each category:

<u>4</u>	Administrative	<u> </u>	Estimators	<u> </u>	Specification Writers
<u> </u>	Architects (Licensed)	<u> </u>	Geologists	<u> </u>	Structural Engineers
<u> </u>	Chemical Engineers	<u>1</u>	Geotechnical Engineers	<u> </u>	Graduate Engineers
<u> </u>	Civil Engineers	<u> </u>	Interior Designers	<u>2</u>	Project Managers
<u> </u>	Construction Inspectors	<u> </u>	Landscape Architects	<u> </u>	Clerical (<i>see Administrative</i>)
<u> </u>	Ecologists	<u>1</u>	Land Surveyor (<i>Apprentice</i>)	<u> </u>	Grant/Funding Specialist
<u> </u>	Electrical Engineers	<u> </u>	Mechanical Engineers	<u> </u>	Sanitary Engineers
<u> </u>	Engineer Intern	<u> </u>	Environmental Engineers	<u>1</u>	<i>Researcher/Archivist</i>
<u>2</u>	Professional Land Surveyors	<u> </u>		<u>3</u>	<i>CADD Technicians</i>
				<u>6</u>	<i>Survey Crew Chief</i>
				<u>6</u>	<i>Survey Crew Instrumentman</i>
				<u>26</u>	TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO X

If marked "no", skip to Section I. If marked "yes", complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.
N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES _____ NO _____ N/A

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of the Project:

26 (all personnel will be available for assignment to the project)

TEC Professional Services Questionnaire

- K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., résumé) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.**

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Ralph P. Fontcuberta, Jr., PLS

Executive Vice President / Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

42 years (Founding Principal of BFM in 1982); Gulf South Engineering and Testing, Inc. | 2017 to present
57 years total (1967) BFM Corporation, LLC | 1982 to present
Surveys, Inc. | 1967 to 1982
The Boeing Company | 1964 to 1967

Education: Degree(s)/Year/Specialization:

2 yr, Building Trade Curriculum, Delgado, New Orleans
2 yr, Mathematics Curriculum, University of New Orleans

Active Registration: Year first registered/discipline:

1974 / Professional Land Surveyor (Louisiana No. 4329)
1974 / Professional Land Surveyor (Mississippi No. 1633)

Other experience and qualifications relevant to the proposed Project:

Ralph P. Fontcuberta, Jr., PLS has provided services on an almost incalculable number of surveying projects throughout southeastern Louisiana in the past half century and has been a registered Professional Land Surveyor (PLS) since 1974. He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million-dollar programs, including the New Orleans FEMA Streets/Recovery Roads Program. Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients.

Project work has included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies (LA Dept. of Natural Resources (LADNR), Coastal Protection & Restoration Administration (CPRA), LA

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

Dept. of Transportation & Development (LADOTD), MS Dept. of Transportation (MDOT), and others), Federal agencies (U.S. Army Corps of Engineers (USACE), Dept. of the Navy, etc.), private/public companies (Entergy, BellSouth, Cox Cable, etc.), and numerous other public/private entities.

Mr. Fontcuberta's surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982, and to 1967 then while working as a surveyor with another firm. He has over half a century of experience with surveying throughout the region and specifically with Jefferson Parish. He has served as the PLS for projects throughout every corner of Jefferson Parish. Relevant project history includes, but is certainly not limited to, the following:

- Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA
- The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA
- Abita River Regional Detention Pond Expansion, St. Tammany Parish, LA
- Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA
- Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA
- Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA
- Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, LA
- Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, LA
- Bayou Segnette Topographic Survey, Westwego, Jefferson Parish, LA
- Trapp Canal Improvements, Bayou Fatma to Bayou Barataria, Jefferson Parish, LA
- Grand Isle State Park Breakwater Survey for Erosion, Jefferson Parish, LA
- Lower Lafitte Shoreline Stabilization at Bayou Rigolets, Segments AU1 and AU5, Jefferson Parish, LA
- Elmer's Island Surveying Services, Grand Isle, Jefferson Parish, LA
- Grand Isle Jetty Project, Grand Isle, Jefferson Parish, LA
- Fifi Island Restoration Extension, Jefferson Parish, LA
- Hydrographic Survey of the Mississippi River Range Line 1-9, Westwego, Jefferson Parish, LA
- Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA
- Lake Pontchartrain LPV149 - Caernarvon Canal Floodwall Construction Layout Survey, St. Bernard/Plaquemines Parish, LA
- Tchefuncte River Area Surveys, Tchefuncte River, LA
- Multibeam Hydrographic Survey, Pelican Island, Plaquemines Parish, LA
- SLFPA-E Levee Certification Phase 2 Survey - 40 Arpent & Maxent Levees, Orleans & St. Bernard Levee Systems, Orleans Parish, LA
- Forested Ridge Reach B-2, Fort Jackson to Venice, Plaquemines Parish, LA
- Bayou Sale Shoreline Protection Project (TV-20), Terrebonne Parish, LA
- Bayou Henderson, Ascension Parish, LA

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

- LPV 107 Lincoln Beach Levee & Gate, Orleans Parish, LA
- Lac Des Allemands Shoreline Protection & Restorations, St. John the Baptist Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA
- Hydrographic/Reclamation Monitoring at Multiple Sites, Terrebonne Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 4, St. Charles Parish, LA
- Lake Pontchartrain Shoreline Projection and Enhancement Design Survey, St. Charles Parish, LA
- Louisiana DNR 2503-00-40; Bathymetric Surveying for Lake Borgne at Shell Beach (PO-30), LA
- Lincoln Beach Restoration, Orleans Parish, LA
- Goose Bayou Ridge Creation and Shoreline Protection Project, Goose Bayou at Cypress Bayou, LA
- Barataria Bridge, Jonathan Davis Wetland Restoration, LA
- USCG Belmont Ranges, St. James Parish, Gramercy, LA
- Barataria Basin Landbridge Shoreline Protection, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 1, St. Charles Parish, LA
- Walnut Street, Orleans Street, and Oak Park Pond, St. Tammany Parish, LA
- Central Wetlands Unit and 40 Arpent Canal Access & Enhancement Project, St. Bernard Parish, LA
- WBV-MRL 4.1, English Turn Bend to Belle Chasse, Plaquemines Parish, LA
- Plaquemines Parish Coastal Restoration, Plaquemines Parish, LA
- Louisiana DNR 2503-00-40; Violet Canal - South of Chalmette on LA 46, St. Bernard Parish, LA
- Naomi Siphon Outfall Management (BA-03C) and Barataria Bay Waterway East Bank Protection (BA-26), LA
- WBV-MRL 6.1, Parish Line to English Turn Bend, Orleans & Plaquemines Parishes, LA
- USA Right-of-Way Line, Intracoastal Waterway in Belle Chasse, Plaquemines Parish, LA
- Shrimp Factory Alternative Site, SE Louisiana Flood Protection Authority - East, St. Bernard Parish, LA
- Rigolets Shoreline Protection Development, Third District, Orleans Parish, LA
- Deer Island Pass, St. Mary Parish, LA
- Fort Pike (State Historic Site), Slidell, St. Tammany Parish, LA
- Cat Island Restoration Project, Plaquemines Parish, LA
- Bayou Dupre Flood Gate, St. Bernard Parish, LA
- Black Bayou Surveying Services, Lake Charles, Calcasieu Parish, LA
- Bayou St. John Hydrographic Survey, New Orleans, LA
- Port of Manchac Soundings, Lake Pontchartrain, Manchac, Tangipahoa Parish, LA
- Tiger Pass Hydrographic Survey, Venice Boat Harbor Road, Belle Chasse, LA
- Intracoastal Waterway Cross Sections (including Engineers Road), Belle Chasse, Plaquemines Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 2, Lafourche Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

7 years (became partial owner of BFM in 2017);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 2001 to 2007
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

1998, Civil Engineer (Louisiana No. 27667)
2002, Civil Engineer (Mississippi No. 15405)

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA. BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. (\$118,873 (fee); 2019)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 1, St. Charles Parish, LA. BFM provided topographic and hydrographic surveying services for Segment 1 of the Upper Barataria Basin Risk Reduction (UBRR) Project; this involved the Davis Pond West Guide Levee in St. Charles Parish. (\$19,147 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS

Vice President / Registered Professional Land Surveyor

Project Assignment:

Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

6 years (joined BFM in 2018);
13 years total (2011)

BFM Corporation, LLC | 2018 to present
Riverlands Surveying | 2016 to 2018
Bertucci Contracting | 2011 to 2016

Education: Degree(s)/Year/Specialization:

B.S., 2018, Geomatics, Nicholls State University

B.S., 2014, Construction Management, Louisiana State University

Active Registration: Year first registered/discipline:

2021, Professional Land Surveyor (Louisiana No. 5929)

Other experience and qualifications relevant to the proposed Project:

Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.

In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.

Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

TEC Professional Services Questionnaire

Other experience and qualifications: **Gary J. Lambert, Jr., PLS (continued)**

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA. BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. (\$118,873 (fee); 2019)

Abita River Regional Detention Pond Expansion, St. Tammany Parish, LA. BFM provided topographic and hydrographic surveying services for the project, whose Limits of Survey consisted of Parcel A3-A, a portion of Lambert Investments Minor Subdivision, in St. Tammany Parish. BFM established two temporary benchmarks (TBMs) along Harrison Avenue near the project site, with the vertical datum referenced to NAVD 1988. Surveying services included location of the existing pond, adjoining swales and culverts, and two ditches which exist within the remainder of Parcel A3-A. Spot elevations were taken at 200 ft. intervals on land and 50 ft. within the limits of the pond. Deliverables included detailed indelible prints showing plan & profile views with cross-sections along with digital files. (\$68,400 (fee); 2019)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Field Operations Manager/Survey Crew Chief

Project Assignment:

Field Operations Manager/Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

10 years (joined BFM in 2014); BFM Corporation, LLC | 2014 to present
18 years total (2006) G.E.C., Inc. | 2010 to 2014
Krebs, LaSalle, LeMieux Consultants, Inc. | 2006 to 2010

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Louisiana Boater Education - Boating Safety Certificate
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate

Other experience and qualifications relevant to the proposed Project:

Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).

Lafitte Area Levee Repair (BA-82) (CPRA 4400007082, Task 8), Jefferson Parish, LA. BFM provided all topographic and hydrographic surveying services as required by the project. This included establishing a baseline parallel to the shoreline, establishing temporary benchmarks, plotting location of improvements, determining pipeline aspects (size, depth, etc.), and taking cross sections, as well as all elements of the hydrographic survey of the waterway. (\$8,924 (fee); 2017)

Lower Lafitte Waterline, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 inch plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. BFM provided stakeout surveying for the project, staking the water

TEC Professional Services Questionnaire

Other experience and qualifications: **Christopher Lemley (continued)**

line every 50 feet (with 4 ft. wooden stakes). Certain areas were very deep and the line was not accurately located in this area. BFM set markers where approximate locations were based on the areas where the line was found. (\$38,205 (fee); 2017)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. BFM provided topographic, bathymetric, and boundary surveying services for the project. The scope of services included extension of the project baseline along the shoreline of Bayou Barataria and towards LA45. The topographic survey was executed with sufficient intermittent shots to establish grade, and located all topographic features that could interfere with the proposed floodwalls and levee. Cross sections were also taken, with hydrographic surveys continuing out into the water and terminating at the thalweg. Overall, the surveying and mapping included sufficient topographic surveys and cross sections necessary to design, layout, access, construct, and perform the work. (\$12,197 (fee); 2015)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, LA. BFM provided multiple survey services for this marsh creation project, including elevations, locations, establishing control points, and plat preparation. The project, which specifically involved the creation of a terrace field in Alexis Bay near Venice, Louisiana, also included general topographic surveying services of the project's island location. Hydrographic surveying via airboat was a project element. (\$8,625 (fee); 2015)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 1, St. Charles Parish, LA. BFM provided topographic and hydrographic surveying services for Segment 1 of the Upper Barataria Basin Risk Reduction (UBRR) Project; this involved the Davis Pond West Guide Levee in St. Charles Parish. (\$19,147 (fee); 2019)

Hydrographic/Reclamation Monitoring at Multiple Sites, Vermilion Parish, LA. BFM provided topographic and hydrographic surveying services for ongoing reclamation monitoring at multiple sites, including Blue Hammock, Bay Goreau, Bay Goreau (West), and Hellhole Bay. GPS surveying services included elevations based on NAVD 1988 vertical (Geoid 12A epoch 2006.85), which utilized land-based laser scanning. Spot elevations were also provided. For the hydrographic surveying elements, BFM's dual frequency Z-boat took soundings in the same area (to show depth of silt and hard pan with a minimum water depth of 18 inches to show dual frequency); as the soundings got closer to the water's edge the surface of the silt was utilized to tie into the bank. Further, BFM plotted location of improvements within the designated limits of the survey. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$35,500 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
John Philip Thayer Procurement Director (Proposals & Project Management Support)	
Project Assignment:	
Project Management Support	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
16 years (joined BFM in 2008); 17 years total (2007)	<i>BFM Corporation, LLC 2008 to present</i> <i>Delle Land Surveying 2007 to 2008</i>
Education: Degree(s)/Year/Specialization:	
Certificate, 2015, Land Surveying Services B.S., 2007, Physical Education, Trevecca Nazarene University	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p>Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)</p> <p>Lac Des Allemands Shoreline Restorations, St. John the Baptist Parish, LA. BFM provided surveying services for the project, which extended from Vacherie Canal southeast along the shoreline of Lac Des Allemands to Pointe Aux Herbes, a distance of approximately 11,000 feet. Surveying services included the research & review of any existing survey data and establishing a project baseline along the existing shoreline. Cross-sections extended from the baseline, 100 ft. in shore to 500 ft. off shore, every 300 ft. and perpendicular along the baseline. Hydrographic surveying included the mouth of the Vacherie Canal and mouth of Oil Well Canal, noting any significant features. Geotechnical borings were located (for plan identification). BFM further</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **John Philip Thayer (continued)**

established control (for use by contractor during construction), and prepared drawings of the survey results to include a plan view of the survey and a profile view of each transect. (\$38,399 (fee); 2010)

Lake Pontchartrain Shoreline Projection and Enhancement Design Survey, St. Charles Parish, LA. For the project, BFM provided topographic and hydrographic survey in the Labranche Wetlands area on the south shore of Lake Pontchartrain. The project begins at the easterly end of the previously constructed shoreline protection project east to the St. Charles-Jefferson Parish line. BFM also surveyed canals, sloughs and bayous that emptied into Lake Pontchartrain a minimum of 100 feet from the point of entry into the lake. Controls were established following the shoreline of Lake Pontchartrain for the entire project length. All sections taken were stationed along this baseline, which was based on the Louisiana State Plane Coordinate System, Lambert Grid, NAD 1983 (2007) as established by GPS observations. Elevations were established on each control point (based on NAVD 1988) and transects along the survey baseline taken at 300 ft. intervals (shorter intervals where necessary to define the shoreline). Transects extended 100 ft. inland to 500 ft. off the shoreline, with additional shots taken in-between to define it accurately. BFM further located existing weirs, dams or levees constructed across canals, sloughs or bayous, as well as any soil boring sites in the project area. (\$32,295 (fee); 2010)

Lower Lafitte Shoreline Stabilization at Bayou Rigolets, Segments AU1 and AU5, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. (\$33,370 (fee); 2010)

Fifi Island Restoration Extension, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. The scope of services involved mapping of property lines and existing servitudes for the railroad, cemetery, private residences, and a commercial establishment (Dive Shop) north of Airline Boulevard. The project also included preparation of a servitude document across the railroad property. (\$10,210 (fee); 2011)

Port of Manchac Soundings, Lake Pontchartrain, Manchac, Tangipahoa Parish, LA. BFM provided surveying services for the project involving a centerline of channel soundings from Lake Pontchartrain to the Port of Manchac Harbor on North Pass. (\$3,300 (fee); 2010)

Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, LA. BFM provided multiple survey services for this marsh creation project, including elevations, locations, establishing control points, and plat preparation. The project, which specifically involved the creation of a terrace field in Alexis Bay near Venice, Louisiana, also included general topographic surveying services of the project's island location. Hydrographic surveying via airboat was a project element. (\$8,625 (fee); 2015)

Goose Bayou Ridge Creation and Shoreline Protection Project, Goose Bayou at Cypress Bayou, LA. BFM located the western shoreline of Goose Bayou from the Pen in Lafitte to its intersection with Cypress Bayou. Surveying services included cross sections every 300 feet extending 100 feet into the marsh and sounding out the centerline of Goose Bayou. (\$25,325 (fee); 2009)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Dawn Hoffman
Researcher/Archivist

Project Assignment:

Researcher/Archivist

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

15 years (joined BFM in 2009);
27 years total (1997)

BFM Corporation, LLC | 2009 to present
Fluor Corporation | 2007 to 2009
Geographic Computer Technologies, LLC | 2000 to 2007

Education: Degree(s)/Year/Specialization:

A.D., 1999, Computer-Aided Drafting, Southeast College of Technology
Certificate, 2003, Introduction to ArcGIS, Louisiana State University

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Dawn Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with researching in various parishes and cities.

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. BFM provided topographic, bathymetric, and boundary surveying services for the project. The scope of services included extension of the project baseline along the shoreline of Bayou Barataria and towards LA45. The topographic survey was executed with sufficient intermittent shots to

TEC Professional Services Questionnaire

Other experience and qualifications: **Dawn Hoffman (continued)**

establish grade, and located all topographic features that could interfere with the proposed floodwalls and levee. Cross sections were also taken, with hydrographic surveys continuing out into the water and terminating at the thalweg. Overall, the surveying and mapping included sufficient topographic surveys and cross sections necessary to design, layout, access, construct, and perform the work. (\$12,197 (fee); 2015)

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, LA. BFM Corporation provided bathymetric and topographic surveying services for the Marsh Island project at Lafreniere Park in Jefferson Parish, Louisiana. The survey encompassed the island and surrounding waters up to and including the sidewalk. Cross sections of the island and surrounding waters were cut after the topographic and hydrographic surveying was completed. (\$9,568 (fee); 2016)

SLFPA-E Levee Certification Phase 2 Survey - 40 Arpent & Maxent Levees, Orleans & St. Bernard Levee Systems, Orleans Parish, LA. BFM surveyed the centerline of the 40 Arpent "Back" Levee (in excess of 124,000 lf on a 100 ft grid). Control points were established utilizing RTK GPS. In addition, each pump station was surveyed and all grade breaks/roads were obtained along the centerline of the levee. The old shrimp building at Violet Canal was also located as part of the survey. Surveys included utility locations (based on field evidence, investigation, and available utility records) as well as foundation of above-ground utility poles, wet wells, and pipeline crossings. Bathymetry information was incorporated into cross-section point file and combined with ground survey; this information was further converted to the same elevations as the levee profile work. Additional cross sections were surveyed to support detailed geotechnical analysis; locations were coordinated with the geotechnical engineer of record for the project. These cross sections extended 100 ft from the toe of the levee in both directions and included bathymetry of the lake, wetland, or canal, depending on location, and extended until depth of the body was determined. (\$166,500 (fee); 2013)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson

CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

13 years (joined BFM in 2011);
33 years total (1991)

BFM Corporation, LLC | 2011 to present
Krebs LaSalle Lemieux / GEC | 2008 to 2011
Doug Connally and Associates Land Surveying (Dallas, TX) | 1995-2008
Electrician | 1991 to 1995
City of Plano TX (Part-Time Drafting Services) | 1991

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. BFM provided topographic, bathymetric, and boundary surveying services for the project. The scope of services included extension of the project baseline along the shoreline of Bayou Barataria and towards LA45. The topographic survey was executed with sufficient intermittent shots to establish grade, and located all topographic features that could interfere with the proposed

TEC Professional Services Questionnaire

Other experience and qualifications: **Anthony Watson (continued)**

floodwalls and levee. Cross sections were also taken, with hydrographic surveys continuing out into the water and terminating at the thalweg. Overall, the surveying and mapping included sufficient topographic surveys and cross sections necessary to design, layout, access, construct, and perform the work. (\$12,197 (fee); 2015)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA. BFM's surveying services included establishment of vertical control for a new pump station. Total Station services were utilized for the project. (\$3,435 (fee); 2012)

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA. BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. (\$118,873 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Curtis "Jay" Barrios
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

34 years (joined BFM in 1990);
39 years total (1985)

BFM Corporation, LLC | 1990 to present
Benson Mercedes Benz | 1989 to 1990
SECO Electric | 1987
Frishhertz Electric | 1986 to 1987
Plain Construction | 1985 to 1986

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Basic OSHA Training Class Completion
Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T).

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Lake Pontchartrain Shoreline Projection and Enhancement Design Survey, St. Charles Parish, LA. For the project, BFM provided topographic and hydrographic survey in the Labranche Wetlands area on the south shore of Lake Pontchartrain. The project begins at the easterly end of the previously constructed shoreline protection project east to the St. Charles-Jefferson Parish line. BFM also surveyed canals, sloughs and bayous that emptied into Lake Pontchartrain a minimum of

TEC Professional Services Questionnaire

Other experience and qualifications: **Curtis "Jay" Barrios (continued)**

100 feet from the point of entry into the lake. Controls were established following the shoreline of Lake Pontchartrain for the entire project length. All sections taken were stationed along this baseline, which was based on the Louisiana State Plane Coordinate System, Lambert Grid, NAD 1983 (2007) as established by GPS observations. Elevations were established on each control point (based on NAVD 1988) and transects along the survey baseline taken at 300 ft. intervals (shorter intervals where necessary to define the shoreline). Transects extended 100 ft. inland to 500 ft. off the shoreline, with additional shots taken in-between to define it accurately. BFM further located existing weirs, dams or levees constructed across canals, sloughs or bayous, as well as any soil boring sites in the project area. (\$32,295 (fee); 2010)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. BFM provided topographic, bathymetric, and boundary surveying services for the project. The scope of services included extension of the project baseline along the shoreline of Bayou Barataria and towards LA45. The topographic survey was executed with sufficient intermittent shots to establish grade, and located all topographic features that could interfere with the proposed floodwalls and levee. Cross sections were also taken, with hydrographic surveys continuing out into the water and terminating at the thalweg. Overall, the surveying and mapping included sufficient topographic surveys and cross sections necessary to design, layout, access, construct, and perform the work. (\$12,197 (fee); 2015)

Fifi Island Restoration Extension, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. The scope of services involved mapping of property lines and existing servitudes for the railroad, cemetery, private residences, and a commercial establishment (Dive Shop) north of Airline Boulevard. The project also included preparation of a servitude document across the railroad property. (\$10,210 (fee); 2011)

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

TEC Professional Services Questionnaire

- L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, Louisiana APTIM 2424 Edenborn Avenue Suite 450 Metairie LA 70001 Gene S. Gillen, P.E., 504-832-4881 info@aptim.com	BFM provided topographic and hydrographic surveying; scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; also established a baseline along the centerline of the existing earthen levee. Set vertical control TBMs and plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located utilities, existing wall, center of pumps, and discharge pipes at the existing pump station. Existing improvements (sheds, piers, buildings) and trees were included in general location surveying.
Completion Date (Actual or estimated:)	Estimated Cost:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">Entire Project:</div> <div style="width: 45%; text-align: center;">Work for which Firm was Responsible:</div> </div>
June 2018	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">N/A</div> <div style="width: 45%; text-align: center;">\$150,000 (fee)</div> </div>

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, Louisiana Greenup Industries, LLC 2200 Veterans Memorial Blvd Ste 114 Kenner LA 70062 Rodney Greenup, Jr., 225-283-4843 rodney@greenupind.com	BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered.
Completion Date (Actual or estimated:)	Estimated Cost:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">Entire Project:</div> <div style="width: 45%; text-align: center;">Work for which Firm was Responsible:</div> </div>
July 2019	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">N/A</div> <div style="width: 45%; text-align: center;">\$118,873 (fee)</div> </div>

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, Louisiana Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119 David Boyd, P.E., 504-483-6271 dboyd@bkusa.com	BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2023	N/A	\$477,340 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Abita River Regional Detention Pond Expansion, St. Tammany Parish, Louisiana CSRS Inc. 6767 Perkins Road, Suite 200 Baton Rouge LA 70808 Scott Hoffeld, 225-769-0546 scott.hoffeld@csrsinc.com	BFM provided topographic and hydrographic surveying for the project, whose Limits of Survey consisted of Parcel A3-A, a portion of Lambert Investments Minor Subdivision, in St. Tammany Parish. BFM established two temporary benchmarks (TBMs) along Harrison Avenue near the project site, with the vertical datum referenced to NAVD 1988. Surveying services included location of the existing pond, adjoining swales and culverts, and two ditches which exist within the remainder of Parcel A3-A. Spot elevations were taken at 200 ft. intervals on land and 50 ft. within the limits of the pond. Deliverables included detailed indelible prints showing plan & profile views with cross-sections along with digital files.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2019	N/A	\$68,400 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, Louisiana Volkert, Inc. 7967 Office Park Blvd 2nd Floor Baton Rouge LA 70809 Matt Salmon, P.E., 214-478-4754 matt.salmon@volkert.com	BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	N/A	\$63,800 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, Louisiana BCG Engineering & Consulting, Inc. 9619 Interline Avenue, Suite A Baton Rouge LA 70809 David T. Dodgen, 225-924-3116	BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2017	N/A	\$23,220 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, Louisiana Brown Cunningham Gannuch 3012 26th Street Metairie LA 70002 Ann L. Springston, P.E., 504-454-3866 aspringston@ardurragroup.com	BFM provided topographic, bathymetric, and boundary surveying services for the project. The scope of services included extension of the project baseline along the shoreline of Bayou Barataria and towards LA45. The topographic survey was executed with sufficient intermittent shots to establish grade, and located all topographic features that could interfere with the proposed floodwalls and levee. Cross sections were also taken, with hydrographic surveys continuing out into the water and terminating at the thalweg. Overall, the surveying and mapping included sufficient topographic surveys and cross sections necessary to design, layout, access, construct, and perform the work.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2015	N/A	\$12,197 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, Louisiana Mathes Brierre Architects 201 St. Charles Avenue, Suite 4100 New Orleans LA 70170-4100 Scott Evans, AIA, 504-586-9303 talfortish@mathesbrierre.com	BFM Corporation provided bathymetric and topographic surveying services for the Marsh Island project at Lafreniere Park in Jefferson Parish, Louisiana. The survey encompassed the island and surrounding waters up to and including the sidewalk. Cross sections of the island and surrounding waters were cut after the topographic and hydrographic surveying was completed.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2016	N/A	\$9,568 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, Louisiana Manchac Consulting Group, Inc. 2137-A Quail Run Drive, Suite A Baton Rouge LA 70808 Daniel Duhon, 225-448-3972	BFM provided multiple survey services for this marsh creation project, including elevations, locations, establishing control points, and plat preparation. The project, which specifically involved the creation of a terrace field in Alexis Bay near Venice, Louisiana, also included general topographic surveying services of the project's island location. Hydrographic surveying via airboat was a project element.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2015	N/A	\$8,625 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Lower Lafitte Waterline Stakeout, Jefferson Parish, Louisiana CB&I 2424 Edenborn Avenue Suite 450 Metairie LA 70001 Gene S. Gillen, P.E., 504-832-4881 gene.gillen@cbi.com	BFM provided surveying services associated with the location of a 16 inch plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). Certain areas were very deep and the line was not accurately located in this area. BFM set markers where approximate locations were based on the areas where the line was found.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2017	N/A	\$38,205 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</div>	
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, as well as drone-based surveying and high-definition laser scanning.

BFM Corporation is a majority Woman-Owned Business Enterprise (WBE) as well as a Hudson Initiative certified Small & Emerging Business and Small Entrepreneurship in Louisiana.

Our capabilities include the following and more:

- Topographic Surveying
- Drone Surveying
- Photogrammic & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, & Data Sets; Benchmarks

TEC Professional Services Questionnaire

N. continued.

- Construction-Related Surveying and Builder's Package Surveys
- American Land Title Association (ALTA) Surveys

BFM's project work routinely involves **extensive records and related research** as an element of successful completion, as well as coordination with the client, agency or department. BFM has the personnel to make sure this is done correctly and expeditiously.

Our **Survey Field Crews** are equipped with Leica Viva and Leica Captivate Data Collectors, as well as Leica GPS Smart Antennas. Each GPS unit is linked to the Leica SmartNet Network, giving each crew the ability for Real Time Kinematic Positioning (RTK), derived from the Global Navigation Satellite System (GNSS). Furthermore, each crew is outfitted with Leica TS series robotic total stations, simplifying and expediting projects. BFM can also use in-house drones and 3D scanners to further analyze sites and projects. BFM's crews are trained to use this equipment to its full potential to maximize accuracy and efficiency in the field.

BFM offers **Drone Surveying Services**, featuring a DJI Matrice 600 Pro drone outfitted with a Sony A7R3 42-megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. It can capture 50 acres of land allowing BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

BFM's **3D modeling capabilities** allow us to process & model for any design purpose. High-definition scanner data is processed using software from Leica and Autodesk. BFM is working on non-traditional survey deliverables, including virtual tours, live walkthroughs, detailed pipe rack modeling, and modeling for use with Autodesk Revit Architecture.

When needed, BFM provides **bathymetric surveying** to handle **any hydrographic surveying tasks**. For large rivers and bodies of water, we are equipped with Teledyne Odom Hydro Solutions' Hydro Trac Single Beam Echo Sounder. For smaller bodies of water, BFM uses an SL20 Remote Controlled Boat equipped with CEE Scope Dual Channel Echo Sounder. We use Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

Please refer to our projects included in Item L and in our personnel listings in Item K for specific type project examples and an overview of our surveying experience with this project type.

CRITERIA 2 | SIZE OF FIRM

As noted, BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. BFM has no issue with meeting the project deadlines set forth by our clients, both municipal and private. It is our continual goal to keep this reputation solid. Further, we establish base costs and fees for our services, and work with our clients to meet all project budgets.

TEC Professional Services Questionnaire

N. continued.

As noted in **item E** of this form, BFM currently has a **full-time staff of two dozen people**, including **two Registered Professional Land Surveyors, Survey Field Crew Personnel, and AutoCAD drafting personnel**, as well as **complete administrative and support staff**.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by a contract or project engineer. It is our goal to keep this reputation solid. We establish base costs and fees for our services, and work with our clients to meet all project budgets. Our workload and scheduling, and proximity to the project site, will allow for quick assignment of personnel to any directed project.

BFM Corporation's **Ralph P. Fontcuberta, Jr., PLS**, Executive Vice President, is a **Louisiana-Registered Professional Land Surveyor (since 1974)** and meets or exceeds any minimum requirements for any surveying project. He has been **providing surveying services in Louisiana for over 50 years** and brings an almost incalculable wealth of experience in the region to any project, especially in Southeast Louisiana.

Chad M. Poché, P.E., Executive Vice President, brings **more than 25 years of experience** to assist in completing projects on time and within budget. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana and has been the geotechnical engineer of record for thousands of projects.

Gary J. Lambert, Jr., PLS, Vice President is a **registered Professional Land Surveyor** and provides Project Management & Drafting Oversight and is the first point of contact for clients on technical matters. He meets with engineering, architectural, and government officials to discuss various project needs.

Our personnel included **multiple survey crews** and a **fully-staffed drafting department** to handle any project needs; they are thoroughly trained and extensively familiar with the region and needs of various types of surveying projects.

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

BFM Corporation has provided **surveying services in Jefferson Parish since 1982**, both **directly to Parish agencies and as a consultant to firms serving the Parish**. The firm has executed many hundreds of projects in the Parish, including both direct Parish projects and State agency projects (CPRA, Louisiana DOTD, etc.), not to mention the scores of surveying projects for private individuals and industry.

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience**, including over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

BFM has called Jefferson Parish home office location since the firm's inception in 1982; our principal office is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner.

CRITERIA 6 | LEGAL STATEMENT

BFM Corporation is **not involved in litigation with Jefferson Parish** nor with any of our clients, as is noted in Item M of this form.

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

For over 40 years, BFM Corporation has completed thousands of projects throughout Jefferson Parish and Southeast Louisiana, both to municipal and various private clients, similar to the project at hand, not to mention other drainage projects in a wide range of sizes, from small lot to Parish-wide endeavors. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).** Further, BFM has worked with virtually every municipality in the region. We enjoy a high repeat-business rate with all our clients. We offer the following specific references for contact:

Mark R. Drewes, P.E., Director, Jefferson Parish Public Works Department
(504-736-6783 | JPPW@jeffparish.net)

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish Public Works Dept.
(504-736-6783 | JPPW@jeffparish.net)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

Angela DeSoto, P.E., Director of Engineering, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Sid Trouard, P.E., Program Manager, Jefferson Parish Sewerage Capital Improvement Program
(504-736-6386 | STrouard@jeffparish.net)

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish
(504-736-6661 | JPSewerage@jeffparish.net)

Our professional work history is exemplary. We strive to provide on-time and technically thorough project deliverables at the budget set by our clients.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: 

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 25, 2024

Gulf South Engineering and Testing, Inc.
TEC Questionnaire



BKI **BURK-KLEINPETER, INC.**
ENGINEERING · PLANNING · ENVIRONMENTAL

GULF SOUTH
ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

July 16
2024

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

As-Needed Parish-Wide

Coastal Engineering Consulting Services

SOQ 24-020 | Resolution No. 144205

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard | Kenner LA 70062

C. Name, title, and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Chad M. Poché, P.E., Executive Vice President

504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com

Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline:

Chad M. Poché, P.E., Executive Vice President

504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com

Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

E. Please provide the number of employees whose primary function corresponds with each category:

<u>7</u>	Administrative	<u> </u>	Estimators	<u> </u>	Specification Writers
<u> </u>	Architects (Licensed)	<u> </u>	Geologists	<u> </u>	Structural Engineers
<u> </u>	Chemical Engineers	<u>2</u>	Geotechnical Engineers	<u> </u>	Graduate Engineers
<u> </u>	Civil Engineers	<u> </u>	Interior Designers	<u>1</u>	Project Managers
<u>10</u>	Construction Inspectors	<u> </u>	Landscape Architects	<u> </u>	Clerical (<i>see Administrative</i>)
<u> </u>	Ecologists	<u> </u>	Land Surveyor (<i>Apprentice</i>)	<u> </u>	Grant/Funding Specialist
<u> </u>	Electrical Engineers	<u> </u>	Mechanical Engineers	<u> </u>	Sanitary Engineers
<u> </u>	Engineer Intern	<u> </u>	Environmental Engineers	<u>1</u>	CMT Supervisor
<u>1</u>	Professional Land Surveyors	<u> </u>		<u>1</u>	Construction Svcs Manager
				<u>4</u>	Laboratory Personnel
				<u>3</u>	Soil Boring Personnel
				<u>30</u>	TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO X

If marked "no", skip to Section I. If marked "yes", complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1. <div style="text-align: center; font-size: 1.2em;">N/A</div>		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: YES _____ NO _____ N/A		
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. <div style="text-align: center; font-size: 1.2em;">N/A</div>		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of the Project: <div style="text-align: center; font-size: 1.2em;"> 30 (all personnel will be available for assignment to the project) </div>		

TEC Professional Services Questionnaire

- K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., résumé) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.**

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

13 years (founded Gulf South in 2011);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 2001 to 2007
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

1998, Civil Engineer (Louisiana No. 27667)
2002, Civil Engineer (Mississippi No. 15405)

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E., is Executive Vice President, co-founder, and a Principal in Gulf South. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations and serving as an Expert Witness.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new bulkhead wall around Marsh Island. Gulf South's scope includes drilling two soil borings each to a depth of 30 feet on the island, lab testing, and geotechnical engineering analyses including sheetpile and/or retaining wall design parameters, earth pressures, and general construction procedures and recommendations. (\$5,000 (fee); 2017)

Tchefuncte Marsh Shoreline Protection Project: New Borrow Fill Area, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shoreline protection along the Lake Pontchartrain coastline by construction of a rock dike (approx. 15,000 lf) and marsh fill area located east of the mouth of the Tchefuncte River in St. Tammany Parish, LA. Scope includes drilling 14 borings within the lake, each to a depth of 40 feet below the water surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$90,000 (fee); 2021)


Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$65,000 (fee); 2023)

Tchefuncte Marsh Shoreline Protection - New Rock Dikes, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for the shore protection along Lake Pontchartrain coastline by constructing a rock dike at Tchefuncte Marsh in St. Tammany Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (18 at 30 ft) in Lake Pontchartrain, laboratory testing (including consolidation tests), engineering analyses (bearing values, settlement, slope stability, construction procedures & recommendations). The project utilized shallow-draft barge equipment. (\$65,000 (fee); 2020)

Proposed Estuary Mitigation Bank (EMB) GIWW - Deadend Canal, Vendome Canal, Hockey Stick Canal, Crown Point, Jefferson Parish, LA. Geotechnical investigation for construction of a new wetland restoration project near Crown Point, LA. Gulf South's scope includes drilling nine soil borings to depths of 15 and 40 feet in water and marsh, lab testing (including settlement column test), and geotechnical engineering analysis including estimates of settlement, time rate of settlement, borrow/fill ratios, and general construction recommendations. (\$26,500 (fee); 2016)

Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA. Engineering analysis review of alternative pile type/size recommendations (provided by Client) for drainage structure site in Jefferson Parish, near Lafitte, LA. Gulf South's scope includes engineering analysis consisting of LPILE analysis and general construction recommendations. (\$5,000 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Bryson S. Beard, P.E., ACI Associate Geotechnical Engineer/Field Engineer	
Project Assignment:	
Associate Geotechnical Engineer/Field Engineer	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
2 years (joined Gulf South in 2022); 3 years total (2021)	<i>Gulf South Engineering and Testing, Inc. 2022 to present</i> <i>TetraTech, Inc. 2021 to 2022</i>
Education: Degree(s)/Year/Specialization:	
B.S., Geological Engineering (2021; University of Mississippi)	
Active Registration: Year first registered/discipline:	
Louisiana P.E. License Passed October 2023 Georgia, Engineering Intern (No. EIT029180, 2022)	
Other experience and qualifications relevant to the proposed Project:	
<p>Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.</p> <p>Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.</p> <p>Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$65,000 (fee); 2023)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Bryson S. Beard, P.E., ACI (continued)**

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$100,000 (fee); ongoing)

Barber Road Bank Stabilization, Paradis, St. Charles Parish, LA. Geotechnical engineering services for portions of the road that have failed or are failing into the ditch along Barber Road in Paradis, LA. Gulf South's scope includes drilling five borings (depth of 40 feet below ground surface), laboratory testing, engineering analyses (slope stability analyses, pavement design) and general construction procedures and recommendations. (\$12,000 (fee); 2022)


Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. (\$15,000; 2023)

Geotechnical Exploration Proposal (LED Site Certification), Port of Terrebonne, Houma, LA. Geotechnical services regarding LED Certification for a 35-acre site along Rome Woodard Drive for the Port of Terrebonne in Houma, LA. Drilled undisturbed soil borings. Geotechnical laboratory testing performed in accordance with ASTM standards, and includes strength tests (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), and other testing as appropriate. Geotechnical evaluation includes subsoil conditions, allowable soil bearing values, allowable pile load capacities, settlement estimates, and general construction procedures & recommendations. (\$5,900 (fee); 2024)

City of New Orleans Municipal Yacht Harbor Fishing Pier and Restroom, City of New Orleans, LA. Gulf South performed the Geotechnical Investigation for the project, which consists of a new fishing pier and restroom building at the Municipal Yacht Harbor along the south shore of Lake Pontchartrain in New Orleans, LA. The restroom will be an elevated structure, approximately 700 square feet, and constructed on land. The pier will be approximately 300 to 400 feet in length and extend from shore into Lake Pontchartrain. The project involves field investigation, laboratory testing, and geotechnical engineering services. (\$42,070 (fee); 2023)

Bucktown Harbor New Dock and Loading Area, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new dock and bulkhead at Jefferson Parish's Bucktown Harbor in Metairie, LA. Gulf South's scope includes drilling one boring to a depth of 50 feet below the ground surface and one boring in Lake Pontchartrain to a depth of 50 feet below mudline, laboratory testing, engineering analyses (allowable pile load capacities, slope stability, sheetpile wall analyses), and general construction procedures and recommendations. (\$10,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Joseph H. “Trey” Binder, III, ACI Laboratory Manager	
Project Assignment:	
Laboratory Manager; Laboratory Technician	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years’ experience with this Firm:	
13 years (joined Gulf South in 2011); 13 years total (2011)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 2006 to 2007</i>
Education: Degree(s)/Year/Specialization:	
A.D., General Studies (2006; Nunez Community College)	
Active Registration: Year first registered/discipline:	
HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician ACI Concrete Strength Testing Technician	
Other experience and qualifications relevant to the proposed Project:	
<p>Trey Binder has direct experience with field and laboratory testing services. Mr. Binder’s field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.</p> <p>Tchefuncte Marsh Shoreline Protection Project: New Borrow Fill Area, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shoreline protection along the Lake Pontchartrain coastline by construction of a rock dike (approximately 15,000 linear feet) and marsh fill area located east of the mouth of the Tchefuncte River in St. Tammany Parish, LA. Gulf South's scope includes drilling 14 borings within the lake, each to a depth of 40 feet below the water surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$90,000 (fee); 2021)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Joseph H. "Trey" Binder, III, ACI (continued)**

Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$65,000 (fee); 2023)

Bayou Des Allemands Gate, Upper Barataria Risk Reduction Program Segment 3, St. Charles Parish, LA. Geotechnical investigation for construction of a new swinging barge gate structure within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 2 at 120 ft., 1 at 100 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. One boring was performed over water; the remaining borings were performed over land. (\$145,885 (fee); 2021)

Highway 90 Tie-In Levee, Upper Barataria Risk Reduction Program Segment 4, St. Charles Parish, LA. Geotechnical investigation for construction of a new earthen levee within the flood protection/risk reduction system in St. Charles Parish, LA. Scope includes drilling undisturbed soil borings, CPT probes, lab testing, and engineering analyses (site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship), estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. (\$174,720 (fee); 2021)

Bayou Gauche/Sunset Levee - New Roller Gate, Upper Barataria Risk Reduction Program Segment 2, St. Charles Parish, LA. Geotechnical investigation for construction of a new roller gate and T-wall structures. Gulf South's scope includes drilling undisturbed soil borings (2 at 200 ft.), CPT probes (2 at 200 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, design levee lift stability, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. The borings and CPT were performed over water using barge-mounted equipment. (\$110,880 (fee); 2020)

Airline Highway Backwater Protection Project, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings below the ground surface, execution of laboratory testing, provision of engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and establishing general construction procedures and recommendations. (\$55,000 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Eric A. Paille, C.E.T., ACI Construction Services Manager	
Project Assignment:	
Construction Services Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
13 years (joined Gulf South in 2011); 35 years total (1989)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 1988 to 2007</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>ACI-I Field Technician (since 1991; No. 929012)</i> <i>Certified Engineering Technician (since 1992)</i> <i>Nuclear Gauge Safety Training (since 1994; No. 061321)</i> <i>Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.</p> <p>Highway 90 Tie-In Levee, Upper Barataria Risk Reduction Program Segment 4, St. Charles Parish, LA. Geotechnical investigation for construction of a new earthen levee within the flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 3 at 75 ft.), CPT probes (6 at 75 ft.), lab testing, and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. (\$174,720 (fee); 2021)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Eric A. Paille, C.E.T., ACI (continued)**

Marsh Island Wildlife Refuge Levee/Bulkhead Repairs (Louisiana DNR), Vermillion Bay, New Iberia, Iberia Parish, LA. Geotechnical investigation for various repairs to a dam, levee, and bulkhead at Marsh Island Wildlife Refuge in Iberia Parish, LA. Gulf South's scope of work includes drilling five soil borings each to a depth of 60 feet using marsh drilling equipment, laboratory testing, and geotechnical engineering services consisting of providing allowable soil bearing values, allowable pile capacities, bulkhead design parameters, slope stability analyses, estimates of settlement, and general construction recommendations. (\$51,250 (fee); 2014)


Proposed Estuary Mitigation Bank (EMB) GIWW - Deadend Canal, Vendome Canal, Hockey Stick Canal, Crown Point, Jefferson Parish, LA. Geotechnical investigation for construction of a new wetland restoration project near Crown Point, LA. Gulf South's scope includes drilling nine soil borings to depths of 15 and 40 feet in water and marsh, lab testing (including settlement column test), and geotechnical engineering analysis including estimates of settlement, time rate of settlement, borrow/fill ratios, and general construction recommendations. (\$26,500 (fee); 2016)

Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new bulkhead wall around Marsh Island within Lafreniere Park in Metairie, LA. Gulf South's scope includes drilling two soil borings each to a depth of 30 feet on the island, lab testing, and geotechnical engineering analyses including sheetpile and/or retaining wall design parameters, earth pressures, and general construction procedures and recommendations. (\$5,000 (fee); 2017)

South Lafourche Levee District - Morganza to the Gulf (Reach K Mitigation Area), Lafourche Parish, LA. Geotechnical investigation for a wetlands mitigation project in Lafourche Parish, LA. Project consists of dredging various canals (totaling approx. 2.6 miles or 13,750 lf) and creating wetlands (approx. 40 acres). Gulf South's scope includes drilling 18 undisturbed soil borings to depths of 10 feet (12 borings in canals) and 30 feet (6 borings in fill area) below apparent mud line, lab testing (including consolidation tests & Settlement Column tests), and engineering analyses (inclusive of estimates of settlement, borrow/fill ratios, time rate settlement, slope stability analyses), and general construction recommendations. All borings were performed over water using barge and marsh buggy equipment. Analyses submitted, reviewed, and approved by the Louisiana Department of Natural Resources and the U.S. Army Corps of Engineers. (\$42,000 (fee); 2017)

Bayou Des Allemands Gate, Upper Barataria Risk Reduction Program Segment 3, St. Charles Parish, LA. Geotechnical investigation for construction of a new swinging barge gate structure within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 2 at 120 ft., 1 at 100 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. One boring was performed over water; the remaining borings were performed over land. (\$145,885 (fee); 2021)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Ian Kerner Poché, ACI Assistant Laboratory Supervisor	
Project Assignment:	
Assistant Laboratory Supervisor	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
7 years (joined Gulf South in 2017); Gulf South Engineering and Testing, Inc. 2017 to present 7 years total (2017)	
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03) ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)	
Other experience and qualifications relevant to the proposed Project:	
<p>Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.</p> <p>Bayou Des Allemands Gate, Upper Barataria Risk Reduction Program Segment 3, St. Charles Parish, LA. Geotechnical investigation for construction of a new swinging barge gate structure within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 2 at 120 ft., 1 at 100 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. One boring was performed over water; the remaining borings were performed over land. (\$145,885 (fee); 2021)</p> <p>City of New Orleans Municipal Yacht Harbor Fishing Pier and Restroom, City of New Orleans, LA. Gulf South performed the Geotechnical Investigation for the project, which consists of a new fishing pier and restroom building at the Municipal Yacht Harbor along the south shore of Lake Pontchartrain in New Orleans, LA. The restroom will be an elevated structure, approximately 700 square feet, and constructed on land. The pier will be approximately 300 to 400 feet in length and extend from shore into Lake Pontchartrain. The project involves field investigation, laboratory testing, and geotechnical engineering services. (\$42,070 (fee); 2023)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Ian Kerner Poché, ACI (continued)**

Geotechnical Exploration Proposal (LED Site Certification), Port of Terrebonne, Houma, LA. Geotechnical services regarding LED Certification for a 35-acre site along Rome Woodard Drive for the Port of Terrebonne in Houma, Drilled undisturbed soil borings. Geotechnical laboratory testing performed in accordance with ASTM standards, and includes strength tests (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), and other testing as appropriate. Geotechnical evaluation includes subsoil conditions, allowable soil bearing values, allowable pile load capacities, settlement estimates, and general construction procedures & recommendations. (\$5,900 (fee); 2024)

Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); 2019)


Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall. (\$7,500 (fee); 2020)

Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

Ole Miss Sewer Force Main, City of Kenner, LA. Geotechnical engineering services for the construction of a new sewer force main along Ole Miss Drive from the John Hopkins Lift Station to 35th Street within Kenner, LA. The force main will be 10-inches in diameter, approximately 2,100 linear feet, and installed 10 to 15 feet deep via directional drilling. Gulf South's scope includes drilling four undisturbed soil borings to depths of 20 feet below the ground surface, laboratory testing, engineering analyses (including soil bearing values, bedding & backfill, and settlement) and general construction procedures and recommendations. (\$8,000 (fee); 2021)

Lift Station Upgrade (24th St. and Delaware Ave.), City of Kenner, LA. Geotechnical engineering services for construction of a new generator pad and wet well located at 24th Street and Delaware Avenue in Kenner, LA. Gulf South's scope of services includes drilling two borings to a depths of 70 feet (1 boring for wet well) and 50 feet (1 boring for generator pad) below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile capacities, bedding & backfill, and estimates of settlement) and general construction procedures and recommendations. (\$7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Brandon A. Paille, ACI Construction Materials Testing (CMT) Supervisor/Project Manager	
Project Assignment:	
Construction Materials Testing (CMT) Supervisor/Project Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
5 years (2012-2016; 2023 to present); 14 years total (2010)	<i>Gulf South Engineering and Testing, Inc. 2023 to present</i> <i>Ascension Parish Sheriff's Office 2016 to 2023</i> <i>Gulf South Engineering and Testing, Inc. 2012 to 2016</i> <i>Ardaman and Associates, Inc. 2010 to 2012</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
APNGA Nuclear Gauge Safety ACI Field Technician Level 1 OSHA Safety Training – 8 hr.	
Other experience and qualifications relevant to the proposed Project:	
<p>Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.</p> <p>Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA. Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,500 (fee); 2012)</p> <p>Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. (\$15,000; 2023)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Brandon A. Paille, ACI (continued)**

Bonanza Pump Station Flood Protection, Houma, Terrebonne Parish, LA. Geotechnical investigation for replacement of an existing bulkhead at Terrebonne Parish's Bonanza Pump Station in Houma, LA. Gulf South's scope of work included performing a soil boring to a depth of 80 feet, laboratory testing, and geotechnical engineering analyses consisting of bulkhead design parameters (tip depth, bending moment, anchor force, etc.), and general construction recommendations. (\$4,500 (fee); 2013)

Casing Installation - 40 Arpent Canal Floodwall, Chalmette, St. Bernard Parish, LA. Geotechnical investigation for casing installations at 40 Arpent Canal floodwall in Chalmette, LA. Casings installed to perform sonic tests to determine sheet pile lengths. Casings installed to depths of 40 to 60 feet below the ground surface and within 15 feet of the existing sheet pile. (\$18,900 (fee); 2014)

Bonnabel Boat Launch Ramp Replacement, Jefferson Parish, LA. Geotechnical investigation for improvement/replacement of the existing boat ramps at the Bonnabel Boat Launch in Metairie, LA. The expansion consists of 3 (50'x60') pile supported concrete ramps. Scope of work included drilling two (2) soil borings to a depth of 60 feet each and providing laboratory testing, and geotechnical engineering analysis consisting of pile load capacities, estimates of settlement, and general construction recommendations. (\$4,000 (fee), 2014)

Drainage System Engineering Analysis – CCTV Drain Line Inspections, City of New Orleans, LA. Project management and oversight of cleaning/flushing and inspection of sewer drainage pipelines in New Orleans, LA. Gulf South oversaw field operations and coordinated project phases with subcontractors. Subcontractor's inspection methods will utilize CCTV camera equipment to record drain line data. During post processing phase, all data was compiled and consolidated to create a digital database of the drain line information. (\$20,000 (fee); 2014)

New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

Taft Park Drainage Improvements, Jefferson Parish, LA. Perform inspection and testing during construction of various drainage improvements at Taft Park. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. (\$25,000 (fee); 2015)

Water Sampling in Mobile Bay, U.S. Coast Guard – Aviation Training Center, Mobile, AL. Surface water sampling in Mobile Bay at 3 locations, 2 times per month for period of 1 year. Samples were tested for Enterococci, Organic Carbon, and TSS. Gulf South reported every event as well as summarized every 3 months of sampling, and further compared results to EPA thresholds. Report rainfall levels were noted 3 days prior and after sampling. (\$33,000 (fee); 2012)

TEC Professional Services Questionnaire

- L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Tchefuncte Marsh Shoreline Protection Project: New Borrow Fill Area, Lake Pontchartrain, St. Tammany Parish, Louisiana Volkert, Inc. 9448 Brookline Ave Baton Rouge LA 70809 Matt Salmon, 225-218-9440 matt.salmon@volkert.com	Geotechnical engineering services for shoreline protection along the Lake Pontchartrain coastline by construction of a rock dike (approximately 15,000 linear feet) and marsh fill area located east of the mouth of the Tchefuncte River in St. Tammany Parish, LA. Gulf South's scope includes drilling 14 borings within the lake, each to a depth of 40 feet below the water surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates.
Completion Date (Actual or estimated:)	Estimated Cost:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">Entire Project:</div> <div style="width: 45%; text-align: center;">Work for which Firm was Responsible:</div> </div>
December 2021	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">N/A</div> <div style="width: 45%; text-align: center;">\$90,000 (fee)</div> </div>

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Proposed Estuary Mitigation Bank (EMB) GIWW - Deadend Canal, Vendome Canal, Hockey Stick Canal, Crown Point, Jefferson Parish, Louisiana The Natural Resources Investment Group, LLC 3801 Woodland Heights Rd Ste 110 Little Rock AR 72217 Robert Stainton III, PE, 501-716-2884 robert@tnrig.com	Geotechnical investigation for construction of a new wetland restoration project near Crown Point, LA. Gulf South's scope includes drilling nine soil borings to depths of 15 and 40 feet in water and marsh, lab testing (including settlement column test), and geotechnical engineering analysis including estimates of settlement, time rate of settlement, borrow/fill ratios, and general construction recommendations.
Completion Date (Actual or estimated:)	Estimated Cost:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">Entire Project:</div> <div style="width: 45%; text-align: center;">Work for which Firm was Responsible:</div> </div>
October 2016	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">N/A</div> <div style="width: 45%; text-align: center;">\$26,500 (fee)</div> </div>

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, Louisiana</p> <p>Barowka & Bonura Engineers 209 Canal Street Metairie LA 70005</p> <p>Jeff Bonura, P.E., 504-828-0030 jbonura@bbecllc.com</p>	<p>Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2023	N/A	\$65,000 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Marsh Island Wildlife Refuge Levee/ Bulkhead Repairs (Louisiana DNR), Vermillion Bay, New Iberia, Iberia Parish, Louisiana</p> <p>Royal Engineers & Consultants, LLC 3909 Ambassador Caffery Pkwy. Lafayette LA 70503</p> <p>Beau Tate, 337-456-5351 btate@royalengineering.net</p>	<p>Geotechnical investigation for various repairs to a dam, levee, and bulkhead at Marsh Island Wildlife Refuge in Iberia Parish, LA. Gulf South's scope of work includes drilling five (5) soil borings each to a depth of 60 feet using marsh drilling equipment, laboratory testing, and geotechnical engineering services consisting of providing allowable soil bearing values, allowable pile capacities, bulkhead design parameters, slope stability analyses, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2015	N/A	\$51,250 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Tchefuncte Marsh Shoreline Protection - New Rock Dikes, Lake Pontchartrain, St. Tammany Parish, Louisiana Principal Engineering, Inc. 1011 North Causeway Blvd, Suite 19 Mandeville LA 70471 Andre Monnot, P.E., 985-624-5001 andre@pi-aec.com	Geotechnical engineering services for the shore protection along Lake Pontchartrain coastline by constructing a rock dike at Tchefuncte Marsh in St. Tammany Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (18 at 30 ft) in Lake Pontchartrain, laboratory testing (including consolidation tests), engineering analyses (bearing values, settlement, slope stability, construction procedures & recommendations). The project utilized shallow-draft barge equipment.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2020	N/A	\$65,000 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Highway 90 Tie-In Levee, Upper Barataria Risk Reduction Program (UBRR) Segment 4, St. Charles Parish, Louisiana Lafourche Basin Levee District 21380 Highway 20 Vacherie LA 70090 Donald Ray Henry, 225-265-7545 drhenry@lbld.us.com	Geotechnical investigation for construction of a new earthen levee within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 3 at 75 ft.), CPT probes (6 at 75 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$174,720 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Marsh Island Restoration Project, Lafreniere Park , Metairie, Jefferson Parish, Louisiana Mathes Brierre Architect 201 St. Charles Street, Suite 4100 New Orleans LA 70170-4100 Scott Evans, AIA , 504-586-9303 sevans@mathiesbrierre.com	Geotechnical investigation for construction of a new bulkhead wall around Marsh Island within Lafreniere Park in Metairie, LA. Gulf South's scope includes drilling two soil borings each to a depth of 30 feet on the island, lab testing, and geotechnical engineering analyses including sheetpile and/or retaining wall design parameters, earth pressures, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2017	N/A	\$5,000 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Bayou Des Allemands Gate, Upper Barataria Risk Reduction (UBRR) Program Segment 3 , St. Charles Parish, Louisiana Lafourche Basin Levee District 21380 Highway 20 Vacherie LA 70090 Donald Ray Henry , 225-265-7545 drhenry@lbld.us.com	Geotechnical investigation for construction of a new earthen levee within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 3 at 75 ft.), CPT probes (6 at 75 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2021	N/A	\$145,885 (fee)

TEC Professional Services Questionnaire


PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, Louisiana G&S Engineering, LLC Post Office Box 71 Mandeville LA 70470 Scott Gros, 504-744-0630 scottgros@gmail.com	Engineering analysis review of alternative pile type/size recommendations (provided by Client) for drainage structure site in Jefferson Parish, near Lafitte, LA. Gulf South's scope includes engineering analysis consisting of LPILE analysis and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
June 2016	Entire Project:	Work for which Firm was Responsible:
June 2016	N/A	\$5,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Laketown Boat Launch Improvements - New Rock Jetty, South Shore Lake Pontchartrain, City of Kenner, Jefferson Parish, Louisiana Jefferson Parish 1221 Elmwood Park Blvd Ste 310 Jefferson LA 70123 Michelle M. Gonzales, CFM, 504-736-6653 mgonzales@jeffparish.net	Geotechnical engineering services for the construction of a rock jetty dike and boat launch protection along the Lake Pontchartrain shoreline at the Laketown Boat Launch in Kenner. Gulf South's scope includes drilling undisturbed soil borings (two at 50 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. One boring was drilled within Lake Pontchartrain (using barge-mounted drilling equipment) and one boring was drilled on land.	
Completion Date (Actual or estimated:)	Estimated Cost:	
January 2021	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$21,500 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div style="border: 1px solid black; padding: 10px; margin: 5px;"> <i>Gulf South Engineering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i> </div>	
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.



ENGINEERING AND TESTING, INC.
 Geotechnical & Materials Consultants

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and nearly three dozen employees.

Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

Gulf South is a woman-owned, Hudson Initiative-certified small entrepreneurship in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.

Geotechnical Engineering Services

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., a founding principal and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi, has specific and extensive training & experience in geotechnical engineering. He has three decades of experience in planning, administering, and conducting geotechnical investigations.

TEC Professional Services Questionnaire

N. continued.

The firm has specific engineering experience and training in **Geotechnical Engineering, Foundation Design, and Geology & Geohydrology**; our staff has extensive experience in all aspects of soil mechanics and geotechnical engineering with specific knowledge in the following areas:

- Shallow and deep foundations (piles, shafts, augercast, screw/anchor piles)
- Deep excavations, cofferdams, retaining walls
- Levees and soft ground construction; slope stability & seepage
- Earthwork; settlement analyses
- Shoreline protection
- Scour analyses
- LRFD Design
- Mechanically Stabilized Earth (MSE) Walls
- Development of load test programs
- Geotechnical instrumentation and construction monitoring
- Canals and pump station foundations
- Pipe bedding and backfill
- Roadways, bridges, pavements

Field Investigation Services

Gulf South owns truck mounted (ARDCO C-1000) and track mounted (ARDCO SD 350) drilling rigs with associated and appurtenant support equipment (water trucks and buggy). Our equipment and crews are capable of drilling soil borings to depths of up to 300 feet and installing monitor wells, piezometers, and inclinometers. We can also perform CPT soundings, geoprobe borings, and field testing at any site. Our staff has extensive experience in planning, oversight, and direction of field investigations.

Laboratory Testing Services

Gulf South's laboratory is equipped to serve the specific needs of our clients and managed by trained and experienced personnel. All testing is performed in accordance with ASTM, AASHTO, and/or other approved procedures. Gulf South routinely performs soil and concrete strength testing (unconfined and triaxial), soil classification tests (Atterberg limits, moisture content, density, particle size), soil and aggregate sieves, organic content, pH, soil resistivity, and moisture/density relationships (Proctor tests). Gulf South's laboratories are managed by full time, experienced, managers and staff. Further, Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.

Construction Materials Testing & Inspection

Gulf South provides a full range of construction materials testing & inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided includes:

- Fill and base compaction and density testing
- Vibration monitoring
- Pre- and post-construction inspection

TEC Professional Services Questionnaire

N. continued.

- Concrete testing and inspection
- Soil testing (field and laboratory)
- Asphalt testing
- Pile (driven & augercast) and shaft installation monitoring
- Load tests
- Earthwork/proof roll inspection
- Welding inspection
- Steel inspection
- Noise monitoring
- Prepare daily field reports and/or field books
- Maintain records per the client's directive

We have provided construction testing & oversight for projects as small as a house pad to as large as the **\$1.2 billion Louis Armstrong New Orleans International Airport North Terminal** project.

Please refer to our projects included in Item L and in our personnel listings in Item K for specific type project examples and an overview of our professional experience with this project type.

CRITERIA 2 | SIZE OF FIRM

At over 30 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South can readily meet the time and budget constraints for projects assigned to this contract. Our current workload is such that we can expeditiously complete projects for this contract.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

Activity is dependent on the scope of work as well as site access and conditions, however; typically soil borings can be started within one week of receiving notice to proceed with a final product delivered within 3 to 4 weeks of completing the borings. Gulf South's workload & scheduling, coupled with our headquarters being nearby, will allow for assignment of key personnel shortly after any project is assigned.

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

Gulf South has worked both directly and indirectly for various Jefferson Parish Departments (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

Gulf South Engineering and Testing has been headquartered in Jefferson Parish since beginning operations in 2011; our principal office is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner. We also maintain an office in Gonzales, LA.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

As stated in Item M, Gulf South has had no litigation, past or present, with Jefferson Parish, nor any of our clients.

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. Founding principal and Executive Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

As evidenced in the provided projects and personnel résumés, key personnel experience includes the completion of thousands of projects in the region throughout their careers for a broad range of clients, including both the government and private sectors. We can submit data in formats acceptable and customized to our clients' needs.

Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Ben Lepine, Acting Director, Drainage Department, Jefferson Parish
(504-736-6751 | JPDrainage@jeffparish.net)

Angela DeSoto, P.E., Director, Engineering Department, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Mark R. Drewes, P.E., Director, Public Works Department, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stpgov.org)

Joey Tureau, Director of Transportation, Ascension Parish
(225-450-1013 | jtureau@apgov.us)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 25, 2024

ELOS Environmental, LLC
TEC Questionnaire



BKI **BURK-KLEINPETER, INC.**
ENGINEERING · PLANNING · ENVIRONMENTAL

 **ELOS**

July 16
2024

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Coastal Engineering Consulting Services as Needed Parish Wide
SOQ 24-020, Jefferson Parish Resolution No. 144205

B. Firm Name & Address:

ELOS Environmental, LLC
607 W. Morris Ave.
Hammond, LA 70403

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Lucas Watkins, Principal
lwatkins@elosenv.com
985-662-5501

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

None

E. Please provide the number of employees whose primary function corresponds with each category:

<u>10</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u>1</u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u>10</u> Project Managers
<u>2</u> Construction Inspectors	<u> </u> Landscape Architects	<u>6</u> Clerical
<u>28</u> Ecologists	<u> </u> Land Surveyor	<u>2</u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>59</u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES: NO: X

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:
YES NO N/A**

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. ELOS Environmental, LLC 607 West Morris Ave Hammond, LA 70403	Environmental Consulting	Yes
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:
Total Number: 59

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Lucas Watkins, Principal

Project Assignment:

Principal

Name of Firm with which associated:

ELOS Environmental, LLC

Years' experience with this Firm:

18 years

Education: Degree(s)/Year/Specialization:

MS / 2005 / Biological Sciences

BS / 2000 / Forest Management

Active registration: Year first registered/discipline:

--2010/LA Arborist, License No. 19-1827; --LA Licensed Horticulturist; --LA Licensed Nuisance Wildlife Control Operator; --Certified FERC Regulatory Overview and Guidance; --Certified Prescribed Burn Manager; --Certified NPDES Erosion Inspector; --Certified Commercial Pesticide Applicator; --Certified National Highway Institute: NEPA and the Transportation Decision Making Process

Other experience and qualifications relevant to the proposed Project:

Mr. Watkins is the founding Principal of ELOS. Mr. Watkins ensures that ELOS acquires the best tools and techniques to guarantee efficient and cost-effective delivery of services to clients. His experience includes environmental regulatory compliance and project management. This includes the management of large-scale, multi-faceted projects, such as wetland restoration implementation, government grant management, complex construction projects, and disaster recovery debris removal efforts. His key strengths include wetland delineations, wetland permitting, wetland restoration, NEPA compliance, ASTM Phase I ESAs, stormwater management, FERC regulatory overview and guidance, endangered species surveys, and timber and forest management.

Mr. Watkins's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Jefferson Parish / ECM Consultants – Veterans and West Esplanade Pump Stations

Jefferson Parish, LA, Principal, 2018 – 2019 and 2022

ELOS was originally contracted in 2018 to prepare permit applications for the installation of two new drainage pump stations and force mains over an existing flood wall in Jefferson Parish. The applications included a joint application to USACE and LDENR, one to the Louisiana Coastal Protection and Restoration Authority (CPRA), and levee permits to the Southeast Louisiana Flood Protection Authority-East. Later, in 2022, ELOS was contracted to update the permit applications for the Veterans pump stations. Mr. Watkins reviewed the permit applications and updates prior to submission.

St. Charles Parish Government, Drainage Consulting Environmental Services

St. Charles Parish, LA, Principal, 2021 - Ongoing

ELOS has been contracted to perform environmental services related to permitting projects in St. Charles Parish. During the last year, ELOS has been working on a wetland delineation, a habitat analysis report (also involving drone services), and a joint permit application for two new pump stations in the Town of Montz. Also in 2023, ELOS began a Phase 1 Environmental Site Assessment for the Sunset pump station and the Crawford Canal widening. In 2021, one major task order involved submitting emergency authorization requests and environmental permits for a 607-acre (33.4 miles) waterway cleaning project in St. Charles Parish, Louisiana. Mr. Watkins coordinated with government agencies to expedite the emergency authorizations from the U.S. Army Corps of Engineers, the Louisiana Department of Energy and Natural Resources (LDENR), and the Office of Coastal Management (OCM).

Desktop Habitat Analysis for Mid-Breton Sediment Diversion, Coastal Protection and Restoration Authority

Plaquemines Parish, LA, President/Environmental Scientist, 2018

ELOS was contracted to conduct a Jurisdictional Determination and complete a desktop habitat analysis for approximately 26,985 acres of possible delta-influence area within the proposed Mid-Breton Sediment Diversion outfall area in Plaquemines Parish, Louisiana. Mr. Watkins provided oversight for each scope of the project. This included using publicly available data to quantify marsh acreage and distinguish marsh types within the proposed outfall area, including infrared aerial photographs, LIDAR data, USGS hydrologic unit code water data, NRCS soil survey, USFWS National Wetlands Inventory maps, and Louisiana Coastwide Reference Monitoring Systems (CRMS) Wetlands monitoring data. He also assisted in reviewing all data from the report that described freshwater forest/shrub wetland, freshwater marsh, intermediate marsh, brackish marsh, salt marsh, and open water habitats and their respective acreages.

East Bank Levee Lift and Plaquemines Parish Permittee Responsible Mitigation Plan

Plaquemines Parish, LA, President, 2021 - Present

ELOS obtained permits from the U.S. Army Corps of Engineers (USACE) and the Department of Energy and Natural Resources (DENR) to allow the Parish to upgrade and raise the southern section of the Plaquemines Parish East Bank Levee. This project included clearing, grading, excavating, depositing fill for temporary work areas, and levee right-of-way expansion to upgrade the Levee. To obtain permits from USACE and DENR for these activities, ELOS conducted wetland delineations, habitat characterizations, an environmental impact analysis, and collected other necessary data. ELOS performed conceptual design and permitting on the 30-acre Permittee Responsible Mitigation Project to offset impacts from improvements to the East Bank Hurricane Protection Levee System in Plaquemines Parish. This involved site selection and layout, impact and benefit assessment, property security, and negotiations with all relevant regulatory agencies, cost analysis, coordination with the Project Engineer and prospective contractors for a dedicated sediment delivery (dredge/fill) marsh restoration project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brian Fortson, Senior Project Manager
Project Assignment:
Senior Project Manager
Name of Firm with which associated:
ELOS Environmental, LLC
Years' experience with this Firm:
11 years
Education: Degree(s)/Year/Specialization:
BS / 1995 / Wetland Ecology
JD / 2006 / Civil Law
Active registration: Year first registered/discipline:
--Wetland Delineation Course, Louisiana State University Wetland Biochemistry Institute, 1996
Other experience and qualifications relevant to the proposed Project:
Mr. Fortson leads the permitting efforts for multiple projects for local development and infrastructure improvements efforts. Mr. Fortson provides technical expertise on many other projects for which he is not the lead scientist. He served as a Planning Technician, Land Use Planner, Environmental Specialist, and Coastal Wetland and Environmental Specialist, and Coastal Wetland and Environmental Resources Manager for St. Tammany Parish Government from 1988 to 2013. He was responsible for the administration of the St. Tammany Parish Local Coastal Program under the Coastal Zone Management Act and was responsible for managing the natural resource permitting efforts. Mr. Fortson was the Coastal Wetlands Planning Protection and Restoration Act (CWPPRA) representative for St. Tammany Parish and has proposed and presented multiple coastal restoration projects and facilitated the approval of projects through the permitting process. Mr. Fortson's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Livingston NRCS Waterway Debris Removal

Livingston Parish, LA, Project Manager/Environmental Scientist, Ongoing

Livingston Parish retained ELOS to guide the Parish through the EWP program processes. Mr. Fortson utilized his experience to assist in the process of developing means and methods for the program. Mr. Fortson provided senior-level permitting process oversight in coordinating and corresponding with government agencies (USACE, DNR CUP, and LDWF Scenic Rives) to obtain the necessary permits and provided insight for coordination with adjacent landowners to allow the Parish to clear debris from the parish's waterways. His work aided in ensuring the quality of all work was conducted per USACE Section 404 permits, and State/Local regulations.

Montz Pump Station and Drainage

St. Charles Parish, LA, Senior Project Manager, April 2023 – March 2024

ELOS was currently contracted with St. Charles Parish to assist with environmental consulting service for the proposed a project to build two new pump stations and improve drainage on an approximately 200- acre site located in St. Charles Parish, Louisiana near the town of Montz. Mr. Fortson provided senior project management overseeing environmental consulting services for the pump station and drainage project. His role encompasses a range of responsibilities critical to the project's success. Mr. Fortson served as the primary liaison between the client, regulatory agencies, and stakeholders. He facilitated meetings, communications, and consensus-building among diverse groups. Mr. Fortson ensured adherence to environmental regulations and permits throughout all project phases.

Des Allemands Bulkhead Emergency Repair

St. Charles Parish, LA, Senior Project Manager, January 2022 - January 2023

ELOS was contracted with St. Charles Parish to assist with environmental consulting service for the 10-acre Des Allemands Bulkhead Emergency Repair project site located in Des Allemands, LA. Mr. Fortson ensure that all necessary environmental permits and approvals required for the repair work are obtained. He stayed updated and ensure compliance with local, state, and federal environmental regulations throughout the project. Mr. Fortson coordinated with various stakeholders, including regulatory agencies, contractors, and community members, to facilitate smooth project execution. He Maintain accurate project documentation, including reports, permits, and correspondence, for compliance and future reference. Also, prepared and presented comprehensive project reports to stakeholders, summarizing project progress, environmental assessments, and any findings or recommendations.

Jesuit Bend

Plaquemines Parish, LA, Project Manager/Environmental Scientist, 2020

ELOS was contracted to provide environmental compliance and permitting services for Jesuit Bend - Oakville to LA Reusitte 100-Year (1%) Flood Protection Project in Plaquemines Parish, LA. Mr. Fortson provided project management and administration. He coordinated with OCM, USACE, and Gulf Coast Railway. Mr. Fortson provided senior-level permitting efforts which involved collecting necessary data for the Joint Permit Application for Coastal Use, Section 404, Section 10, and Section 401. He managed the Environmental Inventory and Wetlands Delineation and Preliminary Environmental Assessment to address NEPA obligations of funding and other federal agency programs.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Basile Dardar, Project Manager
Project Assignment:
Project Manager and Environmental Scientist
Name of Firm with which associated:
ELOS Environmental, LLC
Years' experience with this Firm:
2.5 years
Education: Degree(s)/Year/Specialization:
BS / 2014 / Biological Sciences
Active registration: Year first registered/discipline:
--2018/USACE Wetland Delineation --2020/OLDEB Certified Oyster Biologist --2019/Open Water Diving Certification --TWIC Card
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Dardar is a project manager and environmental scientist who has a wide range of experience including: permitting, environmental surveying, damage surveying, developing reports, research, sampling, testing, and coordinating with agencies and clients. Mr. Dardar provides environmental expertise, accurate reporting, and a high degree of professionalism to every project. He is also a certified oyster biologist, as well as a certified diver. His experience with marine biology in Louisiana coastal waters, including his experience as a commercial fisherman, makes him a unique asset to the ELOS team.</p> <p>Mr. Dardar's applicable projects are listed on the following page.</p>

TEC Professional Services Questionnaire

LADOTD Rural Bridges Phases I & II

Statewide, LA, Project Manager, 2021 - Ongoing

ELOS has been contracted to provide professional environmental consulting services for the Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a threatened and endangered species survey. Mr. Dardar has coordinated field crews, performed wetland delineations, collected and inputted data, written and produced reports, developed timelines, coordinated with LADOTD, worked on permit applications with state and federal agencies, and assisted with the surveys.

Move Ascension - Phases II & III

Ascension Parish, LA, Environmental Scientist, November 2021 - Ongoing

ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Dardar has worked on the wetland report for the jurisdictional determination, reviewed multiple wetland delineation reports, and reviewed corresponding figures and data for the permit applications.

LADOTD Minnesota Park / Range Road Roundabout

Tangipahoa Parish, LA, Project Manager, 2023 - Ongoing

ELOS is contracted to complete a wetland delineation report to obtain a jurisdictional determination from the U.S. Army Corps of Engineers (USACE), submit a permit application, if necessary, as well as assist with a Categorical Exclusion (CATEX), Phase I Environmental Site Assessment (ESA), and the Solicitation of Views (SOVs) for a roundabout project (H.014340) covering 2.5 acres in Tangipahoa Parish. Mr. Dardar has worked on the SOVs, reviewed the CATEX sections and documentation, written permit applications, and coordinated with LADOTD.

Bollinger-Houma Dredge Disposal Site

Bollinger Lane, Houma, LA, Environmental Scientist, April 2022-June 2022

ELOS was contracted to collect data and prepare a report to support a wetland delineation to obtain a jurisdictional determination from USACE for the approximately 26.5-acre Bollinger-Houma Dredge Disposal Site located at 301 Bollinger Lane, Houma, LA. Mr. Dardar conducted wetland delineation, completed the wetland delineation report and submitted it to USACE.

Livingston Parish Gravity Drainage District No. 1

Livingston Parish, LA, Environmental Scientist, 2021-2022

Due to Hurricane Ida, substantial damage was done to the waterways in Livingston Parish. ELOS was contracted to collect and analyze drone footage and create a Damage Survey Report to support the acquisitions of EWP funding. Mr. Dardar analyzed drone footage and assisted in creating a Damage Survey Report.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Hunter Perrilloux, Project Manager
Project Assignment:
Project Manager and Environmental Scientist
Name of Firm with which associated:
ELOS Environmental, LLC
Years' experience with this Firm:
4.5 years
Education: Degree(s)/Year/Specialization:
BS / 2018 / Biological Science
Active registration: Year first registered/discipline:
--2021/FAA Drone Pilot --2020/USACE Wetland Delineation
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Perrilloux is a project manager and environmental scientist who specializes in wetland delineations. Mr. Perrilloux serves as a field crew leader for wetland delineations at ELOS and assists in the processing of data and the creation of wetland delineation reports. He has worked on various environmental projects including mitigation bank monitoring, endangered species monitoring, and cultural resources surveys. As an FAA licensed drone pilot, he is able to collect and process drone footage for applications such as damage survey reports and environmental investigations.</p> <p>Mr. Perrilloux's applicable projects are listed on the following page.</p>

TEC Professional Services Questionnaire

Pollard Branch Mitigation Bank Livingston Parish Canal Maintenance
Livingston Parish, LA, Environmental Scientist, 2019

As part of a grant from the NRCS, ELOS assisted Livingston Parish with improving drainage by identifying and documenting blockages within approximately 355 miles of waterways. Mr. Perrilloux monitored maintenance work within the waterways, using GPS units to document drainage blockage areas for Damage Survey Reports.

City Of Kinder Drainage Improvements

City Of Kinder, LA, Environmental Scientist, 2021 – 2022

ELOS was contracted to provide delineations, permit applications, and damage survey reports to support FEMA funding for the drainage canal debris cleanup in the City of Kinder. Mr. Perrilloux was responsible for completing required field efforts, data collection, and processing permit applications to USACE and LDENR.

St. Tammany Waterway Debris Removal Phases I & II

St. Tammany Parish, LA, Environmental Scientist, September 2021 - Ongoing

ELOS is contracted to provide waterway inspection services and permitting services to remove damage debris from waterways resulting from hurricanes and other storms. Mr. Perrilloux is responsible for completing required field efforts, collecting data, and developing permit applications to USACE and LDENR.

East Ascension Drainage District No. 1 – Wetland Delineations & Permitting

Ascension Parish, LA, Environmental Scientist, 2022 - Ongoing

Since 2018, ELOS has been contracted to complete wetland delineations and permitting consulting services, and under this contract, ELOS has completed work on 35 projects ranging from damage assessments and debris removal to lateral drainage work and levee construction. Mr. Perrilloux is responsible for completing required field efforts, collecting data, and developing permit applications to USACE and LDENR.

Livingston Parish Drainage Improvements – Environmental Services

Livingston Parish, LA, Environmental Scientist, March 2023 - Ongoing

ELOS is contracted to perform environmental services for the Parish's LWI project that involves lateral drainage work, reshaping banks, repairing levees, and removing debris from 145 miles of targeted waterways. Mr. Perrilloux is responsible for completing required field efforts, collecting data, and developing permit applications to USACE and LDENR.

Consolidated Gravity Drainage District No. 1 of Tangipahoa Parish

Tangipahoa Parish, LA, Environmental Scientist, 2019 - Present

ELOS is contracted to provide permits for maintaining drainage canals and waterways within Tangipahoa Parish. Mr. Perrilloux is responsible for completing required field efforts, managing the field work team, collecting data, and developing permit applications to the U.S. Army Corps of Engineers (USACE), and the Louisiana Department of Energy and Natural Resources (LEDNR).

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael Bellone, Director of Environmental Services and Regulatory Affairs
Project Assignment:
Director of Environmental Services and Regulatory Affairs
Name of Firm with which associated:
ELOS Environmental, LLC
Years' experience with this Firm:
1 year
Education: Degree(s)/Year/Specialization:
MS / 1991 / Environmental Sciences
BS / 1983 / Geological Sciences
Active registration: Year first registered/discipline:
--Registered Professional Geologist in the following states: Mississippi #520; Alabama #800; Tennessee #3924; Wisconsin #320; Texas #4344; --LA Licensed Contractor #50824; --LA Licensed Louisiana Contractor-Hazardous Waste Treatment or Removal #50824; --OSHA Certified Waste Site Supervisor; --Certified Hazardous Materials Manager #3849
Other experience and qualifications relevant to the proposed Project:
Mr. Bellone has directed multi-disciplinary environmental projects at over 1,200 sites throughout the United States, including 700 Phase I and Phase II Environmental Site Assessments (ESA) for governmental agencies, commercial clients, and private industry. He is experienced in conducting and managing multimedia environmental audits, Phase I, II, and III ESAs, contamination assessments, and remedial actions (soil, groundwater, and surface water). His specialties include hydrogeological investigations, site assessments, hazardous waste site closures, environmental permitting, compliance audits and health and safety audits, and the design of multimedia remedial systems. Mr. Bellone provides senior oversight and assists ELOS with fieldwork, report writing, data processing, and file organization to complete projects concerning Phase I and II ESAs and other NEPA-related environmental assessment documentation. Mr. Bellone's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

SCP Crawford Canal – Sunset Pump Station

St. Charles Parish, LA, Environmental Director, 2023-Ongoing

ELOS is contracted to perform an American Society of Testing and Materials (ASTM) Phase I Environmental Site Assessment (Phase I ESA) for the Crawford Canal Widening located on approximately 46.15 acres. Mr. Bellone provides project oversight and coordinating various aspects of the assessment process to ensure compliance with environmental regulations and best practices. He oversees the entire Phase I ESA process, from initial planning to final reporting. This includes defining the scope of work, setting timelines, and managing resources effectively. Mr. Bellone provides necessary insights into the environmental conditions and potential risks associated with the pump station site.

Livingston Parish Sheriff's Office – Emergency Response/Evacuation Center, Part 1 & 2, Phase II & RECAP Investigation and Report,

Livingston Parish, LA, Environmental Director, July 2023 – Ongoing

After conducting a Phase I ESA, ELOS found no significant evidence of contaminants on the property. However, ELOS' environmental database and LDEQ file review revealed that contaminants likely existed due to adjacent site history, including a manufacturing plant within the vicinity. ELOS recommended a Phase II Environmental Site Assessment be conducted of subsurface soils and groundwater. Under the supervision of Senior Project Manager and Professional Geologist, Mike Bellone, 12 soil borings and 12 temporary wells were installed via direct push technology, focusing mainly on the perimeter of the site to identify potential contaminants that may have migrated on-site from the nearby facilities. The project is currently in Part 2 of the Phase II investigation, in which ELOS has installed six (6) more soil borings and temporary wells in the project's interior. ELOS submitted these samples for analyses, as well as requesting specific testing on the samples that may exceed the RECAP Screening Standards. All work is being completed under the direction and supervision of Senior Project Manager and Professional Geologist Michael Bellone.

Louisiana Fire and Emergency Training Institute- Phase II and RECAP Investigation,

Statewide, LA, Environmental Director, 2023-Ongoing

ELOS was contracted by LA Terre Engineering, LLC (LTE) to support a project that included Phase II, and Phase III Environmental Services for the Louisiana State Board of Supervisors of Louisiana State University A&M College. Mr. Bellone and his team are preparing the RECAP Site Investigation Workplan in coordination with the LDEQ and the client. Once approved, Mr. Bellone and his team will investigate the site by installing soil borings and temporary monitoring wells. Once all data is analyzed and compared to the RECAP Screening Standards, a Risk Assessment Report will be prepared to meet the detailed submittal requirements of the LDEQ RECAP.

Former Mandeville Landfill – CAP Closure Certification, Environmental Investigation for Non-Industrial Use and Seep Investigation

St. Tammany Parish, LA, Environmental Director, 2023-Ongoing

ELOS was contracted to conduct environmental and geological investigations of the former Mandeville Landfill's cap for 1) structural viability, 2) potential reuse as a recreational park, and 3) to investigate a potential seep emanating from the site onto neighboring properties. Mr. Bellone and his team are presently analyzing and comparing the results from the Seep Investigation to the LDEQ RECAP Screening Standards to determine if additional sampling may be required.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Karim Belhadjali, Senior Coastal Project Manager
Project Assignment:
Senior Coastal Project Manager
Name of Firm with which associated:
ELOS Environmental, LLC
Years' experience with this Firm:
1 year
Education: Degree(s)/Year/Specialization:
MS / 1994 / Fisheries
BS / 1991 / Marine Biology
Active registration: Year first registered/discipline:
-USACE Wetland Certification, 2017 -LDAF Commercial Pesticide Application #00177825, 20196 -Wetland Training Institute Delineator
Other experience and qualifications relevant to the proposed Project:
<p>With a profound understanding of habitat restoration and its vital role in fostering resilient communities, Karim Belhadjali brings forward-thinking expertise to coastal resilience planning. For the past two decades, he has led transformative coastal ecosystem restoration and flood risk reduction projects in Louisiana as the program manager for the State of Louisiana's Coastal Master Plan. With a track record of adeptly collaborating and fostering partnerships between diverse governmental agencies and the private sector, Mr. Belhadjali works with ELOS on various projects calling for significant environmental assessments and those impacting coastal resiliency and restoration.</p> <p>Mr. Belhadjali's applicable projects are listed on the following page.</p>

TEC Professional Services Questionnaire

U.S. Fish and Wildlife Service Regionwide Trustee Implementation Group Environmental Assessment
Gulf of Mexico, Project Director, May 2020 - May 2021

Mr. Belhadjali served as the project director, leading a technical team in the preparation of the draft restoration plan and environmental assessment focused on restoring living coastal and marine resources. Mr. Belhadjali facilitated the workgroup of trustee representatives from the four federal agencies and the five Gulf Coast states in the development of the plan. Mr. Belhadjali facilitated the workgroup of trustee representatives from the four federal agencies and the five Gulf Coast states in the development of the plan.

CPRA Mid Barataria Sediment Diversion (MBSD) Project Restoration Plan
Baton Rouge, LA, Project Director, April 2018 - May 2021

Mr. Belhadjali led a technical team in the preparation of the draft restoration plan and review of associated environmental documentation. The technical team also evaluated the socioeconomic impacts of the MBSD.

CPRA Louisiana Comprehensive Master Plan for a Sustainable Coast
Coastal LA, Program Manager, May 2012 - December 2016

Mr. Belhadjali managed and supervised staff members responsible for the preparation of the State's Comprehensive Master Plan for a Sustainable Coast. The master plan identifies specific projects and policies to be implemented over 50 years that will sustain coastal communities, industries, habitats, and the unique culture of South Louisiana. These measures are designed to address land loss due to climate change and provide flood risk reduction to improve the resilience of coastal communities.

CPRA Lake Pontchartrain Surge Barrier
Baton Rouge, LA, Project Director, April 2015 - April 2016

Mr. Belhadjali led a feasibility study in order to analyze multiple alternatives for a surge barrier across Bayou Rigolets to provide flood protection to New Orleans and communities on the northern shore of Lake Pontchartrain.

CPRA Upper Barataria Basin Risk Reduction Project
Baton Rouge, LA, Project Director, 2014 - 2015

Mr. Belhadjali led a feasibility study to analyze and model multiple alternatives for flood protection for the communities in the upper portions of the Barataria Basin. The results of the study were used to determine the inclusion of the project in the 2017 Coastal Master Plan.

CPRA Integrated Ecosystem Restoration and Hurricane Protection
Coastal Louisiana, Project Manager, 2009-2012

Mr. Belhadjali led the development of CPRA's Annual Plan for Fiscal Years 2010-2013. The Annual Plan outlines the comprehensive strategies and initiatives for a specific year to guide coastal protection and restoration efforts in Louisiana.

Coastal Restoration Division of LNDR
Baton Rouge, LA, Project Manager, 2006-2009

Mr. Belhadjali managed the Coastal Restoration Division's information management system that combines the CRD website with a GIS database and a coastal restoration project relational database that stores data from over

TEC Professional Services Questionnaire

9500 monitoring stations throughout coastal Louisiana. The system provides avenues of information exchange and transfer to the public and other state and federal agencies on past, present, and future coastal restoration activities. Also managed personnel that serve as lead ecologists for coastal restoration projects from all funding sources and as members of the project design team. Served on the Louisiana Coastal Area (LCA) Data Management Workgroup, tasked with developing the data management architecture that will efficiently and effectively link model development, monitoring data analysis, ecological forecasting, and planning activities into a science-based decision-support system.

CPRA Coastal Wetland Planning Protection and Restoration Act (CWPPRA) - Multiple Projects
Baton Rouge, LA, Lead Ecologist, 2001 - 2004

As state ecological lead, Mr. Belhadjali set desired ecological benchmarks. He evaluated the likelihood of success of different wetland restoration measures for 11 federally funded coastal ecosystem restoration projects across coastal Louisiana. These projects were worth \$234 Million and anticipated to benefit more than 4,000 acres of coastal wetlands.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bucktown Wheel Wash Emergency Authorization Requests (EUA) Jefferson Parish, LA</p> <p>Michelle M. Gonzales, CFM Director Ecosystem and Coastal Management Jefferson Parish Government 1221 Elmwood Pk Blvd Suite 310 Jefferson, LA 70123 mgonzaless@jeffparish.net O: 504-736-6653 C: 225-223-2719</p>	<p>ELOS was contracted to prepare and submit emergency authorization requests and to prepare and submit formal permit applications requesting authorization from the U.S. Army Corps of Engineers (USACE) to conduct prop-washing at the mouth of Bucktown Marina basin near its confluence with Lake Pontchartrain on an approximately 1.50-acre site located in New Orleans, LA.</p> <p>ELOS obtained an emergency authorization requests and after-the-fact permit application from the USACE for identifying the possibility of impacting waters under federal jurisdiction, including wetlands and navigable waters. ELOS provided a clear documentation demonstrating the emergency nature of the situation, prompting USACE to swiftly evaluate the request and potentially issue authorization to proceed with necessary activities such as flood response or environmental remediation.</p> <p>The wheel wash system is positioned at exits of construction sites or quarries where vehicles are required to pass through before entering public roads to help in maintaining road safety by reducing the risk of accidents caused by slippery road conditions due to mud and debris from construction vehicles. Additionally, the wheel wash systems contributed to environmental protection by minimizing soil erosion and contamination of nearby water bodies with sediment-laden runoff from construction sites.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2024	NA	\$30,000

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Veterans Memorial Boulevard Pump Stations Jefferson Parish, LA Blake Vutera, P.E. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd Kenner, LA 70062 504-305-4401 ex 103 bvutera@gulfsoutheng.com	ELOS is currently contracted to provide Environmental Services in support of the Jefferson Parish Pump Stations Project on Veterans Memorial Boulevard in Jefferson Parish, LA. ELOS is responsible for applying for Coastal Use, Clean Water Act Section 404, and Rivers and Harbors Act Section 408, and levee permits for two pump stations located north and south of Veterans Memorial Boulevard along the west bank of the 17th Street Canal in New Orleans. The designs include the outflow pipe being lifted above the existing levee and through the existing floodwall. Additional access gates are also included in the designs to allow for maintenance. Due to the proposed impacts to the levee and floodwalls, the project must be reviewed by the Completed Works section of the U.S. Army Corps of Engineers for compliance with Section 408. This review process includes preparing an Environmental Assessment to determine potential impacts on cultural resources, threatened and endangered species, essential fish habitat, water quality, air quality, etc. The project's purpose is to improve street drainage at the Veterans Boulevard crossing of the 17th Street Canal.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023	NA	\$46,969

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
West Esplanade Boulevard Pump Station Jefferson Parish, LA Kazem Alikhani ECM Consultants, Inc. 1301 Clearview Parkway Suite 200 Metairie, LA 70001 504.885.4080 kazem@ecmconsultants.com	ELOS is currently contracted to provide Environmental Services in support of the Jefferson Parish Pump Station Project on West Esplanade Boulevard in Jefferson Parish, LA. ELOS is responsible for applying for Coastal Use, Clean Water Act Section 404, and Rivers and Harbors Act Section 408, and levee permits for a proposed pump station to be located in the neutral ground of West Esplanade Boulevard across Orpheum Avenue from the 17th Street Canal. The designs include the outflow pipe being lifted above the existing levee and floodwall into the canal. Due to the proposed impacts to the levee from outflow pipe support piles, the project must be reviewed by the Completed Works section of the U.S. Army Corps of Engineers for compliance with Section 408. This review process includes preparing an Environmental Assessment to determine potential impacts on cultural resources, threatened and endangered species, essential fish habitat, water quality, air quality, etc. The project's purpose is to improve street drainage in the West Esplanade/Lake Avenue vicinity.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	NA	\$24,306

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lafitte Area Levees Jefferson Parish, LA Mark Schutt Engineer Meyer Engineers 4937 Hearst Street, Suite 1B Metairie, LA 70001 504-885-9892	<p>ELOS was contracted to perform a wetland delineation and submit a joint permit application to the U.S. Army Corps of Engineers and the Louisiana Department of Energy and Natural Resources, Office of Coastal Management for several proposed levee improvements including levee lifts, new levee segments, and corresponding pump stations for those levee systems. ELOS also conducted environmental assessments and cultural resources surveys for several of these sites: Lower Lafitte Orange Street, Goose Bayou, Pen Levee, Goose Bayou Rachel Street Pump Station, Jones Point Levee, Jones Point Carmelite Pump Station, Jones Point Trahan & Jones Point Pump Station, Paillet Levee, Town of Jean Lafitte Gloria Drive Pump Station, Town of Jean Lafitte Highway 45 Pump Station, and Upper LA 45. The scope of work included: wetland delineations, permitting, agency communication, cultural resources surveys, environmental assessments, and section 106 reviews.</p> <p>Project Sites: Lower Lafitte Orange Street Goose Bayou Pen Levee Goose Bayou Rachel Street Pump Station Jones Point Levee Jones Point Carmelite Pump Station Jones Point Trahan & Jones Point Pump Station Paillet Levee Town of Jean Lafitte Gloria Drive Pump Station Town of Jean Lafitte Highway 45 Pump Station Upper LA 45</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	NA	\$975,586

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Tangipahoa Parish RESTORE Act Breakwater Project Tangipahoa Parish, LA</p> <p>Robby Miller Parish President 206 E Mulberry St Amite City, LA 70422 985-748-3211</p>	<p>To move forward several projects in Tangipahoa Parish's multiyear plan under the RESTORE Act, which dedicated oil spill funds to restoring the Gulf Coast region, ELOS was contracted to complete a feasibility study for dredging the bar channel at the mouth of the Tangipahoa River and restoration of a boat launch. The study included a summary of economic and environmental benefits, a mitigation plan and its costs, a permitting plan, and other regulatory requirements.</p> <p>ELOS also updated prior Geographic Information System (GIS) analysis of sediment and land accretion behind a previously built rock breakwater. Land loss between 1989 and 2013 at the shoreline in this area was calculated to be 55 acres. Between 2014, when the first phase of the project was completed, and 2016, approximately 45 acres of land and sediment have been captured behind the breakwater through natural processes. This analysis was not only key to securing additional funding from the U.S. Army Corps of Engineers (USACE), but more importantly, it enabled the parish to use the dredged material beneficially to accelerate the natural land-building process.</p> <p>During Phase II of the breakwater project, ELOS prepared the and received the complex construction permits, completed cultural resources management services to relocate any existing, submerged, or eroding archaeological sites, and monitored construction and the project's post-construction, land-building success. The "Lake Pontchartrain Shoreline Protection Project" was given the Best Restored Shores Award for 2023 by the American Shore & Beach Preservation Association.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	NA	\$130,000

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>West Shore Lake Pontchartrain Connector Levee St. James Parish, LA</p> <p>Kevin O’Gorman, P.E. Intracoastal Consultants, LLC 2351 Energy Dr, Ste 1010 Baton Rouge, LA 70808 225-308-3213</p>	<p>ELOS has been contracted for environmental services related to the installation of the West Shore Lake Pontchartrain Connector Levee. The project includes installation of earthen levees, a pump station, a gravity drainage system, and water control structures as flood control measures to allow the levee to remain an open system until circumstances require closure. Specifically, ELOS is completing a geotechnical boring survey and permit application (the survey requires 11 soil boring locations and 14 cone penetration test locations), completing a joint permit application to the U.S. Army Corps of Engineers (USACE) and the Louisiana Department of Energy and Natural Resources (Office of Coastal Management), performing a wetland delineation and final report to receive a jurisdictional determination from USACE, performing a Section 106 consultation and desktop review, and coordinating agencies for the approximately 99-acre site in St. James Parish. The preliminary actions will also determine whether ELOS will complete permits for additional agency coordination under the Clean Water Act and Rivers and Harbors Act in addition to levee permits. One important aspect of this project is coordinating not only agencies, but also adjacent land owners and securing access to complete data collection and surveys.</p> <p>After receiving a notice to proceed in March 2024, ELOS has already completed the wetlands delineation report and submitted it for consideration to receive a jurisdictional determination. The Section 106 consultation and desk review is also underway, showing that ELOS works diligently and quickly to ensure the project moves forward effectively.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	NA	\$144,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Plaquemines Parish Coastal Team Consulting Plaquemines Parish, LA</p> <p>Vincent Frelich Director of Coastal Restoration Plaquemines Parish Government 333 F. Edward Hebert Blvd., Building 100, Suite 212, Belle Chasse, LA 70037 (504) 297-5629 vfrelich@ppgov.net</p>	<p>ELOS participated as a consulting team member for the implementation of the seven primary Plaquemines Parish Coastal Strategic Implementation Plan ridge restoration projects, conceptualized as part of the Plaquemines Parish Coastal Plan. ELOS assisted in designing, evaluating, and permitting a series of potential ridge and marsh restoration projects in Plaquemines Parish. The ridge projects are evaluated for their potential to reduce impacts. The assessment for these projects evaluated plant species, height, diameter, and densities along the ridges. ELOS performed ecological assessments for the large-scale coastal ridge and marsh restoration projects for inclusion in its Coastal Master Plan.</p> <p>ELOS worked with different engineering firms to design and assess the benefits and impacts associated with the construction of ridge formations and adjacent marsh platform creation through the use of dedicated sediment delivery from dredging in the Mississippi River and transporting the sediment through long distance pipelines to the project site. ELOS also coordinated the geotechnical and soil boring effort associated with the design and compiled the design footprint information from A&E Teams associated with the Plaquemines Parish Ridge Restoration Projects and worked with those A&E Teams to ensure that the ratio between marsh impacts from ridge construction and benefits resulting from marsh creation was adequate to establish a net benefit in habitat credits when constructed.</p> <p>All teams have submitted shape files and tabulated impact data which has been assessed and compiled by ELOS. A spreadsheet containing all relevant impact estimations has been produced and published on the Coastal Team Project Management website at Huddle.com.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	NA	\$143,000

TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Tangipahoa Parish Coastal Master Plan</p> <p>Robby Miller Parish President 206 E Mulberry St Amite City, LA 70422 985-748-3211</p>	<p>ELOS has been contracted to provide consulting services to Tangipahoa Parish Government in developing and updating its Coastal Master Plan. The primary objective of this plan is to develop a comprehensive and actionable strategy for coastal resilience, protection, and sustainable development in the parish. The plan addresses the critical challenges and opportunities associated with the coastal region of Tangipahoa Parish, including wetland restoration, shoreline protection, drainage improvements, and floodplain management. It is a multifaceted approach that integrates scientific, engineering, economic, and community perspectives to ensure the long-term sustainability and resilience of the parish's coastal areas.</p> <p>To develop the original plan, ELOS collected and analyzed data related to the coastal geography, storm surge modeling, hazard data, and existing studies on coastal restoration and flood protection throughout the region. Stakeholder meetings with residents, local businesses, governmental agencies, and non-governmental agencies were held to make sure the plan's components aligned with the needs and aspirations of Tangipahoa Parish residents. The resilience strategies were then aligned with priorities of similar plans including coastal plans and RESTORE Act plans. The final component of the plan involved feasibility and financial implementation with reliable funding sources and timelines.</p> <p>ELOS is currently working with the Parish to add new projects into the plan using the same comprehensive approach.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	NA	\$148,640

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bayou Terre Aux Boeufs Ridge Restoration Armoring</p> <p>St. Bernard Parish, LA</p> <p>John Lane St. Bernard Parish Government 8201 West Judge Perez Drive Chalmette, LA 70043 504.278.4223 jlane@sbgp.net</p>	<p>ELOS was contracted to provide the wetlands delineation and permitting for 20,420 linear feet of armoring of the Bayou Terre Aux Boeufs Ridge Restoration Project in Delacroix, LA. ELOS field crews collected soil, vegetation, and hydrology data for the wetlands delineation of 16 acres, and prepared a request for jurisdictional determination (JD). The JD was approved in August 2017. ELOS prepared a permitting strategy prior to submitting any applications that accounted for the need for a cultural resource survey as a condition of permits for both the geotechnical borings as well as construction. ELOS identified sensitive areas within the project and worked with geotechnical engineers to modify the boring plan to avoid these. Subsequently, ELOS arranged a pre-application meeting with the LASHPO and received approval on the modified work plan. This strategy prevented cost overruns and delays. Approximately 250 shovel test plots were investigated for the presence of artifacts, which were then evaluated and cataloged. All data points were located with GPS points and organized in a GIS database allowing ELOS to share the data by way of shapefiles and map displays that are accurate at sub-meter resolution. ELOS submitted the geotechnical permit application to the USACE (borings are assigned a No Determination of Significant Impacts by the Office of Coastal Management). ELOS also provided on-site monitoring once the construction phase of the project commenced.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	NA	\$126,000

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lake Lery Marsh Creation and Rim Restoration St. Bernard Parish, LA John Lane St. Bernard Parish Government 8201 West Judge Perez Drive Chalmette, LA 70043 504.278.4223 jlane@sbgp.net	ELOS was contracted to assist St. Bernard Parish Government with professional environmental and cultural resource investigations to support the large-scale marsh creation and rim restoration initiative. The project created 177 acres of vital marsh within Lake Lery, nourished an additional 209 acres, and developed a rock embankment along the northwestern sector of Lake Lery that improved shoreline protection. ELOS personnel have collected data with the assistance of our marine archaeologist and completed an environmental review of site conditions to support a joint permit application to the regulatory agencies authorizing the project. ELOS has concurrently consulted with the U.S. Army Corps of Engineers and the Louisiana State Historic Preservation Office to establish the Area of Potential Effect and determine the required level of cultural resource investigations. Subsequently, ELOS personnel have completed a review of available cultural resource data and previous investigations to determine the potential likelihood of the presence of cultural resources. The collected information and data are to be provided to Parish personnel for use in completing the project.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	NA	\$121,440

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. None	None	None
2.		
3.		
4.		
N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.		
See attached items below.		

TEC Professional Services Questionnaire



έλος (élos)
1. marsh, swamp, bog

Overview & History

Established in 2006 by two young entrepreneurs from southeast Louisiana, ELOS is a professional consulting firm with a background in environmental services, offering an interdisciplinary approach to program and project management. We are part of Environmental Systems Group, backed by Bernhard Capital.

Our familiarity with federal, state, and local agencies — combined with rich expertise in relevant scientific technologies — has resulted in streamlined services for our clients, saving them immeasurable time and money while achieving their goals. Because of our familiarity with government programs and project processes, ELOS can provide invaluable services and support to private businesses and government entities at all levels — giving them more time to do what matters.

We help manage resources, develop grant proposals, and secure environmental clearances and permits for various projects. Our storied company history and background allow us to provide world-class program management, environmental consulting, Geographic Information System (GIS) services, and other innovative technological solutions to meet even the most complex client needs.



541620, 541370GIS

www.elosenv.com
985.662.5501

TEC Professional Services Questionnaire

Our Services

Program & Project Management

- Program Management
- Grant Management
- FEMA Public Assistance
- Disaster Recovery
- Construction Management

Permitting Applications and Regulatory Compliance

- Wetland Delineations / Jurisdictional Determinations
- Permitting
- Biological Assessments and Monitoring
- Cultural Resources

Environmental Services

- NEPA Compliance
- Environmental Due Diligence
- Environmental Impact Analysis
- Categorical Exclusions
- Phase I, Phase II and Phase III Environmental Site Assessments
- Brownfields Program
- Soil and Ground Water Investigations
- Environmental Remediation Services
- Air Quality Services
- Water/ Wastewater / Storm Water Permitting
- Solid and Hazardous Waste
- Industrial Hygiene Services

Coastal Restoration and Resilience Services

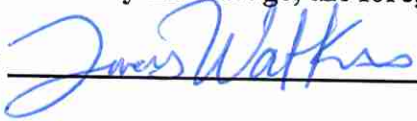
- Coastal Restoration Planning, Project Development, and Funding
- Coastal Resilience Planning
- Site Assessment and Analysis
- Ecosystem Restoration
- Climate Adaptation Strategies
- National Environmental Protection Act (NEPA) Compliance
- Coastal Use Permitting & Mitigation
- Construction Management and Environmental Monitoring
- Grant Procurement for Local Communities
- Watershed Management and Flood Mitigation Planning, Project Development, and Funding

Innovative Technologies

- Renewable Energy Site Selection
- Leak-Detection & Repair (LDAR)
- GIS
- Drones
- Abstracting Services

TEC Professional Services Questionnaire

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  Print Name: Lucas Watkins

Title: Principal Date: 2-3-2024



Creative Engineering Group, LLC
TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 24-020 Coastal Engineering Consulting as Needed Parish Wide - Resolution No. 144205

B. Firm Name & Address:



201 Highland Park Plaza
Covington, LA 70433

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Raymond H. Nolan, II, PE - Owner/Senior Engineer, (985) 249-5706, rnolan@ceg-itl.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Raymond H. Nolan, II, PE - Owner/Senior Engineer, (985) 249-5706, rnolan@ceg-itl.com

E. Please provide the number of employees whose primary function corresponds with each category:

<u>1</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u> </u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>1</u> Engineer Intern	<u> </u> Environmental Engineers	<u> </u> Planners
<u> </u> Professional Land Surveyors	<u>2</u> CADD	<u> </u> Designers
		<u>5</u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO x If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2. N/A

**H. Has the JOINT-VENTURE previously worked together? Please Check
YES NO N/A**

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2. N/A		
3. N/A		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

5

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Raymond H. Nolan, II, PE
Owner / Senior Engineer

Project Assignment

Electrical Engineering Support

Name of Firm with which associated



Years' experience with this Firm:

18

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1991 / Electrical Engineering
Master of Science / 1994 / Electrical Engineering

Active registration: Year first registered/discipline

1997 / PE Electrical, State of LA / No. 27697

Other experience and qualifications relevant to the proposed project:

Mr. Nolan is the Owner and Senior Engineer at CEG, LLC. He has over 30 years experience in electrical engineering, including power distribution, emergency generators, lighting and controls, fire alarm systems, telephone and data infrastructure, intercom and security systems.

Mr. Nolan's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Mr. Nolan has worked on the following projects:

Hurricane Katrina Damage Repairs, McDermott Hanger - *New Orleans, LA* - Provided damage assessment services, cost estimates for the scope of work on the electrical and specialty systems to identify damages as well as assess the necessary repairs, and coordinated completion of the FEMA Project Worksheet for damage verification. CEG also provided the construction documents and construction administration services for the repair work.

Repairs to C.F. Rowley School - *Chalmette, LA* - Following Hurricane Katrina, provided damage assessment services, cost estimates for the scope of work on the electrical and specialty systems to identify damages as well as assess the necessary repairs, and coordinated completion of the FEMA Project Worksheet for damage verification. CEG also provided the construction documents and construction administration services for the repair work.

Nunez Community College Building B Hurricane Katrina Repairs - *Chalmette, LA* - Completed research and additional evaluation of the water damaged electrical equipment. Presented the NEMA documentation demonstrating the need for the additional repair items on the Project Worksheet and was successful in getting the items covered for repair. Reviewed scope and costs to ensure they were aligned with FEMA. CEG then completed the additional construction documents and provided construction administration services.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Provided electrical engineering services on the design for a new pump station with 350 CFS capacity to provide the 25th Street Subdivision residential area drainage in Jefferson Parish.

Cheniere Water Tank Storage - *Grand Isle, LA* - Provided electrical, lighting, and controls design for a new potable water pump station. Pump station design included powering pumps, powering mechanical equipment, sizing 50 Kw backup generator, and coordinating valve and pump controls, SCADA interface.

Midway and Soniat Lift Station Generator - *River Ridge, LA* - Provided electrical engineering services to replace existing generator and motor control center at sewer/drainage pump station. New generator was sized to power (1) sewer pump and (1) drainage pump. Designed new electrical service from utility and coordinated scope with sewer pump station contractor.

New Bayou Gauche Canal Bar Screen - *Des Allemands, LA / St. Charles Parish* - Provided electrical design services included new electrical service and generator for warehouse building and screen cleaners. Equipment was sized for future pump station rehabilitation.

Jefferson Parish District Attorney's Second Floor Buildout - *Jefferson Parish, LA* - Provided electrical engineering services. Created designs for the power and lighting systems as well as special systems required for government and law enforcement offices.

Orleans Levee District Police Station - *Orleans Parish, LA* - Provided electrical engineering services. Created designs for the power and lighting systems, special systems required for government and law enforcement offices as well as the electrical engineer overseeing the installation of the emergency generator.

Orleans Levee District - 6920 Franklin Ave. - *Orleans Parish, LA* - Electrical engineer for power and lighting systems as well as special systems required for government offices. Also oversaw the replacement of the existing 1750 kW generator with (2) 800 kW generators in parallel.

Recreation District 1 - *Kentwood, LA* - Electrical engineer for the design of electrical service as well as the ball field and parking lot lighting.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Hurricane Katrina Damage Repairs - McDermott Hanger <i>New Orleans, LA</i> RCL Architecture 900 W. Causeway Approach Mandeville, LA 70471, (985) 727-4440	Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work. Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.	
Completion Date (Actual or estimated): 03/2009 (Est.)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$2,500,000 (Est.)	\$200,000 (Est.)
PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Repairs to C.F. Rowley School St. Bernard Parish School Board <i>Chalmette, LA</i> Lachin Architects 5190 Canal Blvd. Ste. 201 New Orleans, LA 70124 (504) 835-8013	Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work. Due to the flood waters all electrical below the ceiling on the first floor was replaced with new. Light fixtures on the first floor were also replaced. First floor circuitry at the ceiling and second floor electrical remained for re-use. FEMA allowed second floor light fixtures to be re-lamped. Life safety systems (ie fire alarm) were replaced and re-located to the second floor. Construction Administration included regular site visits to monitor the electrical installation.	
Completion Date (Actual or estimated): 10/2007 (Est.)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$6,500,000 (Est.)	\$1,300,000 (Est.)

TEC Professional Services Questionnaire

PROJECT NO. 3								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
Nunez Community College Building B Hurricane Katrina Repairs <i>Chalmette, LA</i> Lachin Architects 5190 Canal Blvd. Ste. 201 New Orleans, LA 70124 (504) 835-8013	Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. Initially, FEMA had allowed a complete replacement of the electrical and special systems due to the heavy damage. At the Design Development stage of the project a new FEMA team came in and provided a revised Project Worksheet which only allowed for repairs to flood damaged items. This did not include all electrical equipment and feeders which had exposure to flood waters. CEG researched and presented NEMA documentation for evaluating water damaged electrical equipment, and was successful in getting additional items covered. Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.							
Completion Date (Actual or estimated): 09/2008	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">\$8,900,000</td> <td style="text-align: center; padding: 5px;">\$323,000</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	\$8,900,000	\$323,000
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							
\$8,900,000	\$323,000							
PROJECT NO. 4								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
Completion Date (Actual or estimated):	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:		
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A		
2. N/A		
3. N/A		
4. N/A		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

CEG Creative Engineering Group, LLC is a professional engineering firm based in St. Tammany Parish. Our firm is licensed in the State of Louisiana and Mississippi, and offers a full range of electrical engineering services, including conceptual planning, preparation of construction documents and construction administration, with a highly skilled professional team. Our staff currently consist of five people dedicated to electrical engineering, including a licensed electrical engineer with over 30 years of experience, an electrical engineer intern with over 18 years of experience, two draftsmen and administration. We have extensive experience serving architects, contractors on design build projects, and building owners. Our purpose is to provide the highest quality service and design solutions for our clients.

Creative Engineering Group has experience in evaluating older electrical systems and has performed electrical evaluation assessment reports for clients who are seeking to upgrade electrical systems due to age or code changes. In addition, Creative Engineering Group has performed many damage assessments over the years to help clients evaluate damages to electrical systems due to hurricanes, fire, and flooding.

Our experience give us the ability to trouble shoot electrical issues and spot potential problems early in the design process. We utilize the latest computer aided drafting software, Autocad and Revit. We are dedicated to providing cost effective solutions with an emphasis on energy efficiency and creativity. Our dedication, from the early stages of the project until completion, has resulted in many satisfied clients who have become repeat customers.

(See Additional Pages)

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  Print Name: Raymond H. Nolan, II, PE

Title: Owner/Senior Engineer Date: July 16, 2024

Additional Information



BKI **BURK-KLEINPETER, INC.**
ENGINEERING · PLANNING · ENVIRONMENTAL

BKM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

GULF SOUTH
ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants


July 16
2024


ELOS


CEG
CREATIVE ENGINEERING GROUP

TEC Professional Services Questionnaire


	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Michael David Chopin	
License/Certificate Type - Number	Expiration Date
PE.0026797	09/30/2024
Status: Active	


	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Henry Maurice Picard III	
License/Certificate Type - Number	Expiration Date
PE.0022289	03/31/2025
Status: Active	

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Henry Maurice Picard III	
License/Certificate Type - Number	Expiration Date
PLS.0004736	03/31/2025
Status: Active	

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. David Edward Boyd	
License/Certificate Type - Number	Expiration Date
PE.0035510	09/30/2024
Status: Active	

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Rene' Adrian Chopin III	
License/Certificate Type - Number	Expiration Date
PE.0025174	09/30/2025
Status: Active	

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Timothy James Koenig	
License/Certificate Type - Number	Expiration Date
PE.0035079	03/31/2026
Status: Active	

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Rene' Adrian Chopin IV	
License/Certificate Type - Number	Expiration Date
PE.0042349	09/30/2024
Status: Active	

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Burk-Kleinpeter, Inc.

Public Address:

2400 Veterans
Memorial Boulevard

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000124	Active	09/12/1984	09/30/2025	Mr. Rene' Adrian Chopin III # PE.0025174

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Public Address:

Burk-Kleinpeter, Inc.

2400 Veterans

Memorial Boulevard

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000024	Active	09/12/1984	09/30/2025	Mr. Henry Maurice Picard III # PLS.0004736

Self-Certification demonstrating the status of Burk-Kleinpeter, Inc. as a Small Business

Are you a small business eligible for government contracting?

541330 Engineering Services	Small Business Size Standards \$16,500,000 annual revenue	 YES
Exception #1		
Military and Aerospace Equipment and Military Weapons	Small Business Size Standards \$41,500,000 annual revenue	 YES
Exception #2		
Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992	Small Business Size Standards \$41,500,000 annual revenue	 YES
Exception #3		
Marine Engineering and Naval Architecture	Small Business Size Standards \$41,500,000 annual revenue	 YES


Results derived from the "Measure My Business" tool at www.sba.gov/size demonstrating that Burk-Kleinpeter, Inc. is a "small" business according to the SBA standard for our industry (NAISC codes).

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
BFM Corporation, LLC	15 Veterans Memorial Boulevard Kenner, Louisiana 70062

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000008	Active	09/11/1984	09/30/2025	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number Expiration Date
PLS.0004329 **09/30/2024**

Status: **Active**




LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Chad Mitchell Poche

License/Certificate Type - Number Expiration Date
PE.0027667 **09/30/2024**

Status: **Active**




LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Gary James Lambert Jr.

License/Certificate Type - Number Expiration Date
PLS.0005259 **03/31/2026**

Status: **Active**



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. William Mead Farber

License/Certificate Type - Number Expiration Date
EI.0033903 **03/31/2025**

Status: **Active**



Division of Small and Emerging Business Development
SEBD CERTIFICATION

BFM CORPORATION, LLC

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 7/19/2019 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

Issued at Baton Rouge, Louisiana 7/19/2019

This certification expires on: 7/19/2029

Certification No. 9551

John W. Matthews, Jr.,
Executive Director, Entrepreneurial Services



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

BFM CORPORATION, LLC

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 9/13/2023 to 9/13/2024 .

Certification No. 9551

Stephanie Hartman,
Director, Entrepreneurial Services



City of Kenner

1926 18th Street
Kenner, LA 70062

BFM CORPORATION
15 VETERANS BLVD
KENNER, LA 70062

**** NOTICE ****

This license becomes null & void if ownership, business name or address is changed. Licensee must apply within 10 days of such change for transfer. Fee will apply. All applicable building & zoning regulations pertaining to business location must be followed.

BFM CORPORATION, LLC
15 VETERANS MEMORIAL BLVD
KENNER, LA 70062

2024

Business License ID
407

Type
LIMITED LIABILITY COMPANY
SURVEYING SERVICES

Business License

Number
1595

Issued
01/09/2024

Valid thru
12/31/2024

***** POST THIS LICENSE IN A CONSPICUOUS PLACE *****

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Gulf South Engineering and Testing,
Inc.

Public Address:

Mr. Chad Poche, PE15 Veterans Memorial Boulevard
Kenner, Louisiana 70062

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0004626	Active	07/27/2010	03/31/2025	Mr. Chad Mitchell Poche# PE.0027667



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Chad Mitchell Poche

License/Certificate Type - Number

PE.0027667

Expiration Date

09/30/2024

Status: **Active**



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number

PLS.0004329

Expiration Date

09/30/2024

Status: **Active**



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Gulf South Engineering and Testing, Inc.

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 12/27/2023 to 12/27/2024 .

Certification No. 11011

Stephanie Hartman,
Director, Entrepreneurial Services



**USACE CERTIFICATE
OF
LABORATORY VALIDATION**



Gulf South Engineering and Testing

15 Veterans Memorial Blvd
Kenner, LA, United States
Trey Binder
(504) 305-4401

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:

06 MAY 2024 AT 14:40 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 05/03/2026

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erdcdren.mil>

Chad A. Gartrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

AGGREGATE

Aggregate - C 128 - Specific Gravity & Absorption in Fine Aggregate
Aggregate - C 566 - Total Moisture Content
Aggregate - C 702 - Reducing Samples to Testing Size

CONCRETE

Concrete - C 31 - Making and Curing Test Specimens in the Field
Concrete - C 39 - Compressive Strength of Cylindrical Specimens
Concrete - C 138 - Unit Weight and Air Content by Gravimetric
Concrete - C 143 - Slump
Concrete - C 172 - Sampling
Concrete - C 231 - Air Content by Pressure ***required if C173 not performed***
Concrete - C 511 - Moist Cabinets, Moist Rooms, Water Storage Tanks
Concrete - C 1064 - Temperature of Concrete
Concrete - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Concrete - C 1231 - Unbonded Caps

SOILS

Soils - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants
Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)
Soils - D 698 - Compaction Characteristics by Standard Effort
Soils - D 1140 - Material Finer than 75 μ m (No. 200) Sieve
Soils - D 1556 - Density & Unit Weight by Sand Cone
Soils - D 1557 - Compaction Characteristics by Modified Effort
Soils - D 2166 - Unconfined Compressive Strength
Soils - D 2216 - Water Content
Soils - D 2487 - Classification of Soils
Soils - D 2488 - Description & Identification of Soils (Visual-Manual Procedure)
Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index
Soils - D 4643 - Determination of Water Content of Soil by Microwave Oven
Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method



CERTIFICATE OF ACCREDITATION



Gulf South Engineering and Testing, Inc.

in

Kenner, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).


Jim Tymon,
AASHTO Executive Director


Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 04/11/2024 at 12:54 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



THIS CERTIFICATE IS PROUDLY PRESENTED TO

Gulf South Engineering and Testing, Inc.

8/15/2023

DATE



SIGNATURE



The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Creative Engineering Group, LLC

Public Address:

201 Highland Park Plaza

License/Certificate Information w/ Supervision


License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003373	Active	12/06/2005	03/31/2026	Mr. Raymond Henry Nolan II # PE.0027697



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/15/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Raymond Henry Nolan II
201 Highland Park Plaza
Covington, Louisiana 70433

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Raymond Henry Nolan II		
License/Certificate Type - Number	Expiration Date	
PE.0027697	09/30/2024	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LPELS.