

STATEMENT OF QUALIFICATIONS
TO PROVIDE PROFESSIONAL ENGINEERING SERVICES
FOR THE GRAND ISLE WATERLINE LOWERING PROJECT

SOQ NO. 23-008

RESOLUTION NO. 141453



APRIL 28, 2023

Prepared By:



PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.

ENGINEERS, PLANNERS AND ENVIRONMENTAL CONSULTANTS
1065 Muller Parkway, Suite B, Westwego, LA 70094



**PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.**

ENGINEERS, PLANNERS AND ENVIRONMENTAL CONSULTANTS

April 28, 2023

Jefferson Parish Purchasing Department
C/O Ms. Donna Reamey
General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053

**RE: PROFESSIONAL ENGINEERING SERVICES FOR
THE GRAND ISLE WATERLINE LOWERING PROJECT
SOQ NO. 23-008
RESOLUTION NO. 141453**

Dear Ms. Reamey,

It is our pleasure to submit this response to Jefferson Parish Council's Request for Qualifications for Professional Engineering Services for the Grand Isle Waterline Lowering Project. PEEC has over 30 years of experience in dealing with the design of water systems, including treatment facilities, distribution systems and production systems. Our firm is very knowledgeable in all engineering disciplines and environmental compliance. Our services include providing professional engineering, project administration, permitting, construction management, and resident inspection. As such, our firm is very proficient with preparation of budget estimates, engineering specifications and bid packages. We believe our expertise and proven track record of completing engineering projects on time and within budget will make us a strong candidate and valuable resource as one of the firms selected for this project.

PEEC was hired to design the 32-mile-long waterline from Lafitte to Grand Isle in 1999. This was the most economical way to provide drinking water to Grand Isle. The entire length of Barataria Bay Waterway was used to transmit water from Lafitte to Grand Isle. The Barataria Bay Waterway is a man-made channel heavily traveled by commercial fishing boats and recreational watercraft. Environmental permits and clearances were secured from state and federal regulatory agencies. In total, \$17 million in funding was secured for this project which included the cost of installing the new 16-inch diameter water pipeline under Barataria Bay Waterway and constructing a groundwater storage tank and pump station near Lafitte, where the water is provided by the Jefferson Parish Water Department. Barataria Bay Waterway, like almost all inland waterways along the Louisiana Gulf Coast, is laced with oil and gas pipelines. The waterline would have to go under some by way of directional drilling. A High-Density Polyethylene (HDPE 3408) pipe was selected for this project. The first pipe was laid on July 8, 1999, and the entire 32-mile pipeline was installed and was operational 88 days later. The waterline provides one MGD to Grand Isle. In recent years, due to wetland loss, certain areas of the route have become exposed to marine traffic, and it is necessary to lower some segments of the line using directional drilling. (Please see the attached article)

PEEC is a consulting engineering firm capable of providing engineering services for Capital Improvements, CDBG, FEMA, GOHSEP, and other State and Federal funded projects. Our firm has consistently provided state of the art solutions to complex problems facing municipalities and local government bodies. PEEC's innovative approach to problem solving has proven to be economically beneficial to its clients. Such technical ideas have been used for clients such as Jefferson Parish, Town of Grand Isle, Grand Isle Port Commission, Grand Isle



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Independent Levee District, St. Tammany Parish, City of Westwego, West Jefferson Levee District, Louisiana Department of Natural Resources, City of Morgan City, Texas Parks and Wildlife, Plaquemines Parish, St. Bernard Parish, St. Charles Parish, St. James Parish, Lafourche Parish, St. Martin Parish, the Town of Zwolle and numerous other private clients in the past.

We believe our experience and familiarity with the design and construction of this waterline makes PEEC a prime candidate to provide the Engineering Services for this project. We look forward to working with the Council on this project. If you have any questions, please contact me on my cell phone at (504) 957-8554.

Sincerely,

A handwritten signature in blue ink that reads "Mo Saleh".

Mo Saleh, M.S., P.E.,
Principal



Pipeline Buried Under Louisiana Bay

Barataria Bay extends from just south of New Orleans to the Gulf of Mexico. In the middle of its southern expanse, facing the Gulf on the south and the Bay on the north, sits the town of Grand Isle, Louisiana.

The oil industry, the fishing industry, and sunbathers found its location appealing. As the population grew, the town outgrew its limited, long-distance water supply. The fishermen and sunbathers grumbled, and the oil companies started moving out or reducing their level of business activity.

The only water available was carried 62 miles, from neighboring Lafourche Parish, in an eight-in. diameter pipe. When the line was installed in the 1960s, it served the

Mo Saleh, P.E.
Mr. Saleh is President, Professional Engineering & Environmental Consultants, Inc., Marrero, Louisiana.

town's 650 residents. By the early 1990s, the weekend population often reached 7,500. Even severe rationing, stopping the water supply to industrial customers such as Exxon, and barging in water at a significantly high cost could not balance the supply and demand. In addition, population growth and commercial development in Lafourche Parish and expansion of the nearby Port Fourchon would soon prohibit Lafourche Parish from selling water to its neighbors.

The only other water supply of any significance was 32 miles away, near Lafitte in the southern reaches of Jefferson Parish. Its water treatment facility processes 25 mgd

and can increase its capacity to 45 mgd. Grand Isle would initially need only two mgd.

Among the alternatives studied (reverse osmosis desalinization plant in Grand Isle, and purchasing increased volume of water from Lafourche Parish), the most economical was to use the entire length of Barataria Bay Waterway and transmit water from the Jefferson Parish source at Lafitte. The Barataria Bay Waterway is a man-made channel heavily traveled by commercial fishing boats and recreational water craft. The channel is also dredged for maintenance by the Corps of Engineers.

SEARCH FOR FUNDING

In 1993 the elected officials of Grand Isle, assisted by Professional Engineering & Environmental Consultants, Inc. (PEEC), of suburban New

PIPELINE INSTALLATION

Orleans, began to search for funding and a preliminary pipeline plan. Although some in the community were convinced "this will never happen," the project came together in 1998.

Environmental permits and clearances were secured from state and federal regulatory agencies, and a \$5-million grant obtained from the state of Louisiana. The EPA came through with a \$3-million grant, and the Rural Utilities Service of the U.S. Department of Agriculture agreed to underwrite a \$9.25-million bond issue by the town of Grand Isle. The bonds were to be paid off with water revenues. The total \$17-million funding included the cost of installing the new 16-in. diameter water pipeline under Barataria Waterway bottom; constructing a groundwater storage tank and pump station near Lafitte, where the water is purchased; and constructing another one-MG groundwater storage tank in Grand Isle.

To obtain regulatory agency approval and funding, PEEC and the city officials demonstrated that they could lay the line through the bay without doing irreparable damage to the environment. The Grand Isle team proposed to dig a five-ft deep trench along the western edge of the Barataria Bay Waterway, lay the line, and then cover it with the same material removed during digging. All of this would be done simultaneously: four barges would be excavating, another barge would be laying the line, and the third barge would be covering the line.

Funding and permitting problems were just the tip of the iceberg. Crossing oyster leases, occasional private property, and other buried oil and gas pipelines required careful study and negotiation. Crossing agreements were signed with all affected owners, and several oyster lease owners were compensated for potential damage to their leases from waterline construction.

Designing and laying the line was the next challenging task. Barataria

Bay Waterway, like almost all inland waterways along the Gulf Coast, is laced with oil and gas pipelines. The water line would have to go under some, by way of directional drilling, and over others. High density polyethylene (HDPE 3408) pipe was selected for the project. It provided the necessary flexibility and the hundreds of joints that would be required, and it could be easily heat-fused during the laying operation to create a leak free, environmentally safe piping system.

Because the HDPE piping system would otherwise float on the water's surface, the design engineers called for the fabrication of 19,000 concrete weights, each weighing 1,500 lb, to help sink the 32 miles of line into the five-ft deep trench. The initial sinking of the line also required it to be filled with water for addi-

Forty-four 210-ft lengths of pipe, weighted with concrete, were loaded on a barge for transport. Four barges were used in the operation.



tional weight. Once the HDPE pipeline was buried the concrete weights were sufficient to hold it in place.

The general contractor, M.P. Dumesnil Construction Co., Inc. (Lafayette, Louisiana) developed a construction strategy to put the project on a fast track. M.P. Dumesnil, Jr., head of the construction firm, relished the challenge of fabricating 19,000 concrete weights. With over 50 years of experience working with concrete, he devised a casting process that could fabricate 181 weights per day. The process used casting forms designed and built specifically for this job by Dumesnil.

JUST IN TIME DELIVERY

The HDPE pipe was purchased from CSR PolyPipe (Gainesville, Texas), through Crescent Municipal Sales, Inc. (Metairie, Louisiana). The 32 mi of pipeline were custom fabricated for the job. From its Gainesville manufacturing facility, CSR PolyPipe could offer "just-in-time" delivery to the staging area for the project at Intracoastal City, just south of Lafayette. The staging area was located on the Intracoastal Canal, which provides access to Barataria Bay Waterway. CSR delivered 130 truckloads of 52-ft long pipes, 25 lengths to a load. Each truckload had a precise delivery schedule to match Dumesnil's production schedule.

At the staging area, four 52-ft lengths were fused to form 210-ft lengths. Forty-four 210-ft lengths with 1,500-lb concrete weights every 25 ft were loaded on a barge and moved to Barataria Bay Waterway. Four barges were stationed, 24-hours a day, seven days a week until the pipeline was in place.

On the laying barge the 210-ft lengths were again fused, this time into a continuous seamless and jointless pipeline covering 32 mi. Twenty-four inspection points were installed along the pipeline, which afforded accessibility through T-heads above the surface of the water. The inspection stations are



The pipe is floated onto the Barataria Bay Waterway during the joint fusion process occurring on the barge.

equipped with shut-off valves and air release valves, and provide access to inspect the line with remote cameras. Cleaning pigs can also be inserted into the line through any of the inspection points, although scale build-up on interior walls of HDPE pipe is rare.

The fabrication and installation of the weights went as smoothly as planned and the fusion of the HDPE easier than the contractor anticipated. The first pipe was laid on July 8, 1999 and the entire 32-mi pipeline was in place and working 88 days later, 102 days ahead of schedule and

To obtain regulatory agency approval and funding, the line had to be laid through the bay without doing irreparable damage to the environment.

under budget.

David Camardelle, mayor of Grand Isle and the key player in efforts to build the line, says the impact of the new water line on Grand Isle cannot be overstated. A lifelong resident of the island community, Camardelle grew up accustomed to bathing in salt water. "The new line has given us a future," he says, "and we can now look forward to greater and more stable economic growth and a better quality of life." In addition, water sales are projected to result in a surplus in Grand Isle's annual budget.

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EXECUTIVE SUMMARY OF QUALIFICATIONS

Professional Engineering and Environmental Consultants, Inc. (PEEC), is a registered professional engineering firm licensed in Louisiana and Texas. PEEC has highly qualified personnel, state-of-the-art equipment and the latest computer systems and software. Our office has convenient access to the southeast Louisiana area and vicinity. Our firm is very knowledgeable and experienced in regard to water treatment, distribution and production facilities, including planning, design, permitting, construction management and construction supervision, resident inspection, and system monitoring.

PEEC clients enjoy our professionalism and team work that lead to successful completion of projects from start to finish. PEEC recognizes the need for timely completion of projects and has proved itself capable of doing so in the past. Our personnel's qualifications cover the areas of engineering and scientific specialties, such as water treatment facilities, water quality management, design of distribution systems and production facilities including design of deep water well systems.

PEEC has consistently provided state of the art solutions to complex problems facing parishes and local governmental bodies. PEEC's innovative approach to problem solving has proven to be economically beneficial to its clients.

Our technical ideas and engineering services have been used for clients such as but not limited to Jefferson Parish, Town of Grand Isle, Grand Isle Independent Levee District, City of Patterson, St. Tammany Parish, City of Westwego, West Jefferson Levee District, Louisiana Department of Natural Resources, Morgan City, Texas Parks and Wildlife, Plaquemines Parish, Lafourche Parish, St. Bernard Parish, St. Charles Parish, Town of Zwolle, St. James Parish, St. Martin Parish and numerous other clients in the past.

For these reasons as well as our firm's experience and understanding regarding the design of the waterline and nature of the issues which require the waterline to be lowered allows us to provide great insight and be an asset to provide professional engineering services for the Grand Isle Waterline Lowering Project.

**Jefferson Parish TEC
Professional Services Questionnaire**

For

PEEC, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services for the Grand Isle Waterline Lowering Project
 SOQ No. 23-008
 Resolution No. 141453

B. Firm Name & Address where Project work will be performed:

Professional Engineering and Environmental Consultants, Inc.
 1065 Muller Parkway Suite B
 Westwego, LA 70094

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:

Mo Saleh, M.S., P.E.
 Principal
 (504) 347-1900
mo@peecinc.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.

Mo Saleh, M.S., P.E.
 Principal
 (504) 347-1900
mo@peecinc.com

LA P.E. No. 23806 1990, Civil Engineering
 LA P.E. No. 23806 1994, Environmental Engineering

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

<u>2</u> Administrative	<u>1</u> AutoCAD Technician	___ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	___ Graduate Engineers
<u>3</u> Civil Engineers	___ Interior Designers	<u>1</u> Project Managers
<u>1</u> Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
<u>1</u> Electrical Engineers	___ Mechanical Engineers	___ Sanitary Engineers
___ Engineer Intern	<u>1</u> Environmental Engineers	
<u>1</u> Professional Land Surveyors		<u>11</u> TOTAL

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

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

TEC Professional Services Questionnaire

Mechanical, Electrical, Plumbing and Piping Design

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 this JOINT-VENTURE previously worked together? Please check: N / A
 YES _____ NO _____

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	Professional Land Surveying	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd. Kenner, LA 70062	Geotechnical Engineering and Analysis	Yes
3.		

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

 (2)

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:

Mo Saleh, M.S., P.E., Principal

Project Assignment:

Senior Project Engineer; Civil Engineer

Name of Firm with which associated:

Professional Engineering and Environmental Consultants, Inc.

Years' experience with this Firm:

29

Education: Degree(s)/Year/Specialization:

M.S., Civil Engineering (1984), University of New Orleans; B.S., Civil Engineering (1980), University of New Orleans

Active registration: Year first registered/discipline:

Registered Professional Civil Engineer, LA P.E. No.23806; Registered Professional Environmental Engineer, LA P.E. No. 23806; Registered Professional Civil Engineer, FL P.E. No. 42728; Registered Professional Engineer, TX P.E. No. 86026; 40 Hour Hazmat Technician, Levels A, B, C, D, SCBA, SAR, APR, Certificate No. 1007; 8 Hour Hazmat Supervisor, Certificate No. 1012; Underground Storage Tank (UST) Removal Certification.

Other experience and qualifications relevant to the proposed Project:

As a Senior Project Engineer, he has performed engineering services on numerous water systems projects, including treatment facilities, distribution systems and production systems. His responsibilities have included: hydraulic modeling, hydraulic studies, field investigations, initial and final design, preparation of specifications, construction management, cost analysis, project coordination, preparation of operation of maintenance manuals, and regulatory negotiations for obtaining the required permits. Mr. Saleh will assume the role of Senior Project Engineer and oversee all aspects of this project.

At Professional Engineering and Environmental Consultants, Inc., Mr. Saleh's engineering services include providing technical expertise and assistance to many local municipalities and parishes including City of Westwego, City of Morgan City, Town of Grand Isle, Town of Zwolle, City of Gretna, Grand Isle Independent Levee District, West Jefferson Levee District, Grand Isle Port Commission, Jefferson Parish, Plaquemines Parish, St. Charles Parish, St. Bernard Parish, and St. Tammany Parish.

TEC Professional Services Questionnaire

Design of New Waterline to Grand Isle

A serious lack of potable water problem was associated with this town for generations which forced Grand Isle to purchase water from outside sources via barge shipments and more recently by way of a pipeline from neighboring Lafourche Parish at an extremely high rate. PEEC focused its resources on designing 32 miles of 18-inch High Density Polyethylene waterline, a new 2 MGD pump station and two water storage tank and controls for the system. The line was installed using a directional drilling method at several locations in order to cross under several high-pressure gas lines and other major oilfield pipelines. In total, the Town of Grand Isle is now able to receive over two million gallons of drinking water per day from Jefferson Parish at a fraction of the rate previously charged by other sources. Mr. Saleh was in charge of the engineering design of the waterline, performing associated computer analysis of water transmission and distribution system, environmental permitting, environmental impact assessment, funding, construction inspection and construction management.

Design of 1.5 MGD Compact Clarification System Water Treatment Plant

Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Saleh was the Senior Project Engineer responsible for the engineering design of the water treatment plant, performing associated computer analysis of water transmission and distribution system, environmental permitting, environmental impact assessment, funding, construction inspection and construction management.

Waterline Under the Mississippi River

Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Mr. Saleh was in charge of the engineering design of the waterline, performing associated computer analysis of water transmission and distribution system, environmental permitting, environmental impact assessment, funding, construction inspection and construction management.

Morgan City Water Treatment Plant Improvements

The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. Additionally, the roof of the structure is in very poor condition. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents. Mr. Saleh was the Senior Project Engineer responsible for the engineering design of the water treatment plant, performing associated computer analysis of water transmission and distribution system, environmental permitting, environmental impact assessment, funding, construction management, and construction inspection.

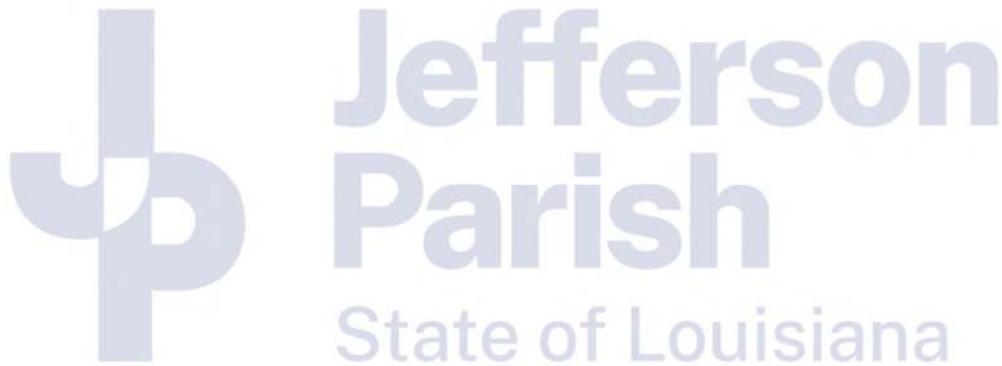
Installation of New Buras Water Tower

The Buras community was devastated due to Hurricane Katrina and the only water tower in that community collapsed during the early hours of the storm. PEEC was directed to design the new water tower and its foundation to withstand the 200MPH wind velocity for future storms. The project was the first infrastructure that was constructed after the Hurricane Katrina, allowing the water supply and the water pressure to get to normal condition. Mr. Saleh was the Senior Project Engineer for this project responsible for the cost analysis and alternative analysis, construction management, and permitting process.

TEC Professional Services Questionnaire

Westwego Water Treatment Plant Improvements

The City of Westwego was operating a water plant that was constructed in 1922 with an addition that was completed in 1965. The plant never had any major rehabilitation since its construction. With new EPA regulation, the City was faced with two options. First was to improve the water plant to meet the new regulations and the other was to shut down the plant and purchase water from Jefferson Parish Water Department. After a detailed economic study, it was determined that rehabilitation of the water plant would be more economical. The upgrade to the water plant would have been very costly if expansions would have been performed. Therefore, PEEC submitted a design utilizing modifications to the existing equipment and guaranteeing compliance with the new regulations. Originally the City was going to borrow two million dollars to expand the water plant. PEEC was able to accomplish the same results spending only \$750,000. The upgrades included the installation of a state-of-the-art chlorination system, installation of a new filtration system, major piping modifications to accommodate a lower O&M cost for the plant. Mr. Saleh was in charge of the engineering design, performing associated computer analysis of water transmission and distribution system, environmental permitting, environmental impact assessment, funding, construction inspection and construction management.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Larry Vicari, Quality Control Manager
Project Assignment:
Quality Control Manager
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
10
Education: Degree(s)/Year/Specialization:
Southeastern Louisiana University Continuing Education
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Vicari has over (10) years of experience in construction supervision, monitoring, and planning. His education and construction background provides the company with great versatility in quality control and assurance for the various projects. Mr. Vicari will assume the role of Quality Control Manager for this project.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Vicari was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.</p> <p>Morgan City Water Treatment Plant Improvements The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank, and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents. Mr. Vicari's responsibilities included observing and investigating construction at all stages to identify problems, report potential problems and take timely action to solve problems; and inspecting all work in progress to ensure construction is in compliance with plans and specifications. Mr. Vicari was responsible for Quality Control and Assurance, and construction administration which included: approving contractor invoices, compiling the inspection reports, and assisting the project managers with the permits, drawings, and specifications.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Delmar R. Caldwell, P.E.
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
29
Education: Degree(s)/Year/Specialization:
B.S., Civil Engineering, Tulane University, 1982
Active registration: Year first registered/discipline:
Registered Professional Civil Engineer, LA P.E. No. 23127; Registered Professional Environmental Engineer, LA P.E. No. 23127; Registered Professional Civil Engineer, MS P.E. No. 10847; Hazardous Waste Contractor, LA No. 26898; LA DEQ Underground Storage Tank Worker Certificate No. IRC-0539.
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Caldwell is a registered Civil Engineer with more than (30) years of experience in civil and environmental engineering projects. His experience is broad based and includes office administration and management, construction administration and supervision for major municipal programs. His technical background includes GIS development and implementation, water and wastewater planning and design, permitting, hydraulic and hydrologic analyses and study. Mr. Caldwell will assume the role of Civil Engineer for this project.</p> <p>Design of New Waterline to Grand Isle A serious lack of potable water problem was associated with this town for generations which forced Grand Isle to purchase water from outside sources via barge shipments and more recently by way of a pipeline from neighboring Lafourche Parish at an extremely high rate. PEEC focused its resources on designing 32 miles of 18-inch High Density Polyethylene waterline, a new 2 MGD pump station and two water storage tank and controls for the system. The line was installed using a directional drilling method at several locations in order to cross under several high-pressure gas lines and other major oilfield pipelines. In total, the Town of Grand Isle is now able to receive over two million gallons of drinking water per day from Jefferson Parish at a fraction of the rate previously charged by other sources. Mr. Caldwell was responsible for performing computer analysis of water transmission and distribution system, environmental permitting, environmental impact assessment, and construction management</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Caldwell was responsible for the cost analysis, project coordination, mechanical and structural design, and preparation of the specifications.</p>

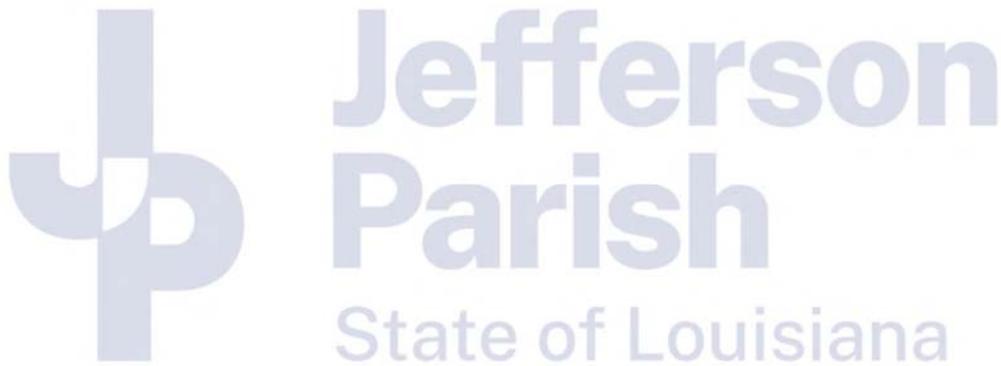
TEC Professional Services Questionnaire

Rehabilitation of Westwego Water Tower

PEEC, Inc. was fully responsible for the repair and rehabilitation of this project including preliminary design, final design, preparation of plans and specifications, project management, and project close-out. Mr. Caldwell's responsibilities included construction administration, topographical surveying, hydraulic modeling, cost analysis, and alternative analysis.

Grand Isle Water Distribution System Upgrades

The Grand Isle community's water distribution system was in dire need of upgrade. Water pressure throughout the Town was regularly below 20 psi. PEEC developed a plan to improve the water distribution and pressure throughout the Island. The project included installation of a new 800 GPM pump station, installation of approximately 3,000 feet of force main, construction of a 250,000-gallon elevated water tower, installation of 2 new 1,400 GPM pumps in an existing pump station, installation of a generator package, installation of a 100,000-gallon water storage tank and rehabilitation of an existing 250,000-gallon water tower. Upon completion of the Project, the Town's water pressure rose to an average of 65 psi throughout the Island. Using Cybernet modeling program, PEEC modeled the entire distribution system for the Town of Grand Isle. The actual pressures and flows measured after the improvements were made and the construction was completed were within 3% of the numbers generated by the model. Mr. Caldwell was responsible for the hydraulic calculations, design of the new system upgrades, construction management, preparation of the drawings and specifications, and obtaining all necessary permits.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Dr. Morris Sade, Ph.D., P.H., P.E.
Project Assignment:
Environmental Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
Ph.D./1990/University of Illinois/Civil & Agric. Engineering M.S./1981/University of Arizona/Civil Engineering B.S./ 1971/University of Azerbaijan/Civil & Agric. Engineering
Active registration: Year first registered/discipline:
P.E. 1997, Civil Engineer/Louisiana No. 27412; P.E. 2002, Civil Engineer/Arizona No. 38010; P.E. 2003, Civil Engineer/Texas No. 91381; P.H. 1992, Professional Hydrologist, AIH 990
Other experience and qualifications relevant to the proposed Project:
<p>Dr. Sade has served in various technical and administrative capacities during his many years of experience as a professional engineer. He has multi-disciplinary education and extensive professional experiences in Design, Research and Development, Teaching, Planning and Management in the field of Water Resources and Environmental Engineering, Hydraulics and Hydrology. He has prepared and published numerous technical reports and design projects. He has an established record of knowledge and practical experiences in various physical and environmental aspects of Louisiana's Flat terrain Hydrology, Flood Control Structures, Stormwater Management, Hydrologic and Hydraulic Design (H&H), Soil Erosion, Risk Assessment and Dam Safety Analysis, Coastal Wetlands and Groundwater Technology. He has a broad background in computer modeling and simulation techniques for design of Hydrologic and Hydraulic (H&H) systems and GIS application. He has worked extensively with hydrologic models and has comprehensive working knowledge of HEC1, HEC2, HECRAS, HEC-HMS, HYDRAIN, STORM, SWMM, TR55, WSPRO, SMS, UNET, TABS, RMAX & SED2D, WQRRS, BASINS, QUAL-2E. Dr. Sade will assume the role of Environmental Engineer for this project.</p> <p>Waterline Under the Mississippi River Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Dr. Sade was responsible for environmental permitting and environmental impact assessment.</p>

TEC Professional Services Questionnaire

Design of 1.5 MGD Compact Clarification System Water Treatment Plant

Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

Installation of New Buras Water Tower

The Buras community was devastated due to Hurricane Katrina and the only water tower in that community collapsed during the early hours of the storm. PEEC was directed to design the new water tower and its foundation to withstand the 200MPH wind velocity for future storms. The project was the first infrastructure that was constructed after the Hurricane Katrina, allowing the water supply and the water pressure to get to normal condition. Dr. Sade was responsible for environmental permitting and environmental impact assessment.



Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Wes Faulkner, P.E.
Project Assignment:
Electrical Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
B.S., 1964, Electrical Engineering, Louisiana State University
Active registration: Year first registered/discipline:
1966, Electrical Engineering, Louisiana No. 10110
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Faulkner has over 35 years of experience designing lighting, power and control systems for commercial and industrial facilities. Past project facilities include water and wastewater treatment plants, pump stations, lift stations, hospitals, office buildings, and schools. Mr. Faulkner is also experienced in preparing contract documents, plans and specifications, cost estimates, and providing construction management. Mr. Faulkner joined the team of Professional Engineering and Environmental Consultants, Inc. in 2005 as the Electrical and Mechanical Engineer and has been responsible for the Mechanical, Electrical, Piping & Plumbing design of several Jefferson Parish government and also Jefferson Parish School board projects. Mr. Faulkner will assume the role of Electrical Engineer for this project.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Faulkner was responsible for electrical systems, electrical specifications, automatic transfer switches, diesel generator sets, and cost analysis.</p> <p>Morgan City Water Treatment Plant Improvements The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. Additionally, the roof of the structure is in very poor condition. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank, and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents. Mr. Faulkner was responsible for electrical systems, electrical specifications, automatic transfer switches, diesel generator sets, and cost analysis.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Al Almassi, Civil Engineer
Project Assignment:
Hydraulic Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
26
Education: Degree(s)/Year/Specialization:
B.S., Civil Engineering, University of New Orleans, 1983
Active registration: Year first registered/discipline:
P.E. Texas
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Almassi is a Civil Engineer with over (30) years of experience in various aspects of the civil and environmental engineering fields. His experience includes hydraulic analysis, environmental permitting, hydrologic study, topographic survey, creating plans and specifications, and construction administration. Mr. Almassi will assume the role of Civil Engineer for this project.</p> <p>Design of New Waterline to Grand Isle The Town of Grand Isle is a community located in Jefferson Parish which is the State of Louisiana's only inhabited barrier island. A serious lack of potable water problem was associated with this town for generations which forced Grand Isle to purchase water from outside sources via barge shipments and more recently by way of a pipeline from neighboring Lafourche Parish at an extremely high rate. Professional Engineering and Environmental Consultants, Inc. (PEEC) focused its resources on designing 32 miles of 18-inch High Density Polyethylene waterline, a new 2 MGD pump station and two water storage tank and controls for the system. The line was installed using a directional drilling method at several locations in order to cross under several high-pressure gas lines and other major oilfield pipelines. In total, the Town of Grand Isle is now able to receive over two million gallons of drinking water per day from Jefferson Parish at a fraction of the rate previously charged by other sources. Mr. Almassi was responsible for the preparation of plans and specifications, hydraulic calculations, design of the new system, construction inspection, and obtaining all necessary permits.</p> <p>Waterline Under the Mississippi River Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Mr. Almassi was responsible for construction administration which included: the hydraulic calculations, review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.</p>

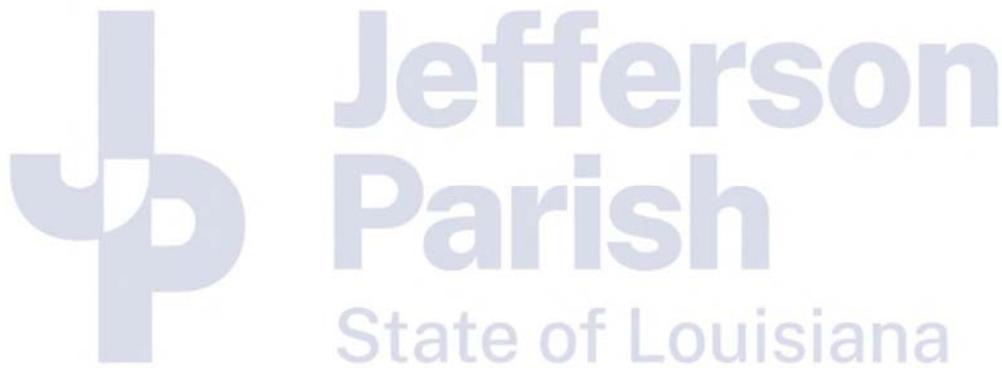
TEC Professional Services Questionnaire

Installation of New Buras Water Tower

The Buras community was devastated due to Hurricane Katrina and the only water tower in that community collapsed during the early hours of the storm. PEEC was directed to design the new water tower and its foundation to withstand the 200MPH wind velocity for future storms. The project was the first infrastructure that was constructed after the Hurricane Katrina, allowing the water supply and the water pressure to get to normal condition. Mr. Almassi was responsible for review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.

Rehabilitation of Westwego Water Tower

The entire water tower was sandblasted and painted according DHH and LA DEQ requirements. The altitude valve was replaced, and a new overflow pipe was installed. PEEC, Inc. was fully responsible for the repair and rehabilitation of this project including preliminary design, final design, preparation of plans and specifications, project management, and project close-out. Mr. Almassi was responsible for construction administration which included: the hydraulic calculations, review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.



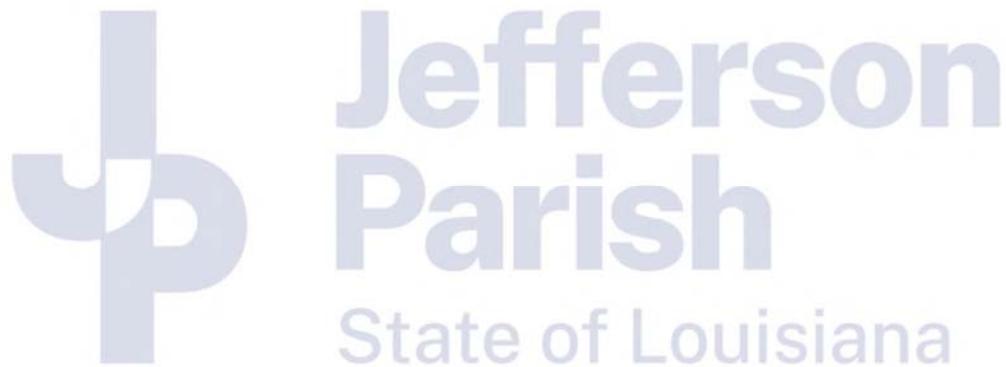
TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Meyers, Project Manager
Project Assignment:
Project Manager
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
Associates in Drafting and Design, Southeastern Louisiana University, 1999
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Meyers has been the Project Manager and Designer for several Civil and Structural engineering projects with PEEC. His responsibilities include managing the design team, coordination with the client, coordination and design of the project including data conversion, computer mapping, field investigation, and the historical review of the site; supervision of the construction phase, preparation of the specifications, cost analysis, and preparation of operation and maintenance manuals, and regulatory negotiations for obtaining the required permits. Mr. Meyers will assume the role of Project Manager for this project.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Meyers was responsible for the topographical surveying, cost analysis, coordination and design of the project including data conversion, computer mapping, and field investigation.</p> <p>Waterline Under the Mississippi River Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Mr. Meyers was responsible for the topographical surveying, cost analysis, coordination and design of the project including data conversion, computer mapping, and field investigation.</p>

TEC Professional Services Questionnaire

Morgan City Water Treatment Plant Improvements

The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. Additionally, the roof of the structure is in very poor condition. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with St. Mary Parish.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
James Blanchard, Project Manager
Project Assignment:
Project Manager/Environmental Compliance
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
B.G.S./2001 University of New Orleans/Science
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As PM Environmental Compliance, Mr. Blanchard is responsible for permits, project administration, site inspection, conformance to regulations, coordinating with the engineer(s) and clients, pre-bid and bid opening process, reconciling any issues with residents and parish officials, and historical data research. Mr. Blanchard will fulfill this role for this project.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Blanchard was responsible for applying for permits, preparation and compliance of project specifications, coordinating the contractor bid process, tallying bids, historical data review, and project administration.</p> <p>Waterline Under the Mississippi River Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Mr. Blanchard was responsible for preparation of project specifications, compliance with project specifications, coordinating contractor bid process, tallying bids, historical data review, applying for permits, and project administration.</p> <p>Morgan City Water Treatment Plant Improvements The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank, and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents. Mr. Blanchard was responsible for permitting, preparation of project specifications, checking conformance to project specifications, coordinating the contractor bid process, tallying bids, and project administration.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Stephen Blaskey, P.L.S.
Project Assignment:
Lead Surveyor
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
B.S./ 2004 Texas A&M University – Corpus Christi/Geographic Information Science with a Specialization in Geomatics
Active registration: Year first registered/discipline:
Louisiana P.L.S. License No. 5107 – Land Surveyor
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Blaskey has over four years of experience as Surveyor for PEEC, Inc. His responsibilities include surveying operations, boundary calculations, and use of GIS software. Mr. Blaskey will assume the role of Lead Surveyor and provide all necessary surveying.</p> <p>Waterline Under the Mississippi River Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Blaskey was responsible for the elevation surveys and boundary calculations at the project site.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Derek Pinkley, AutoCAD Technician
Project Assignment:
AutoCAD Technician
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
B.S. in Computer Science American International University
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As the AutoCAD Technician, Mr. Pinkley is responsible for gathering information and requirements, reviewing preliminary plans, and updating plans and specifications using AutoCAD and Microsoft software programs. Mr. Pinkley will fulfill this role for this project.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Pinkley was responsible for the AutoCAD drawings and assisting the engineers with the permit applications and topographical surveying.</p> <p>Waterline Under the Mississippi River Installation of a waterline under the Mississippi River connecting the two water treatment systems in St. James Parish. Drilling technology developed in the oilfield industry is now available allowing the parish to link both water treatment plants via a pipeline under the river. This will provide a redundant system, offering back-up in the event of power failures and facility damage, and the ability to maximize treatment capacities. The waterline would serve the entire unincorporated areas of the Parish. Mr. Pinkley's responsibilities included creating AutoCAD drawings of the specifications for the waterline.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Domingue, Construction Inspector
Project Assignment:
Construction Inspector
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
Southeastern Louisiana University Continuing Education
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As a Construction Inspector, Mr. Domingue has been responsible for investigating the construction at all stages to identify problems, report potential problems and take timely action to solve problems, and ensure completion of the project in a timely manner. Mr. Domingue will fulfill the role of Construction Inspector for this project.</p> <p>Design of 1.5 MGD Compact Clarification System Water Treatment Plant Construction of a new 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. PEEC was responsible for the complete design of the plant including final plans, technical specifications, permit approvals, start-up, and assistance with bidding and construction administration phase of the project. Mr. Domingue's responsibilities included inspecting all work in progress to ensure construction is at the acceptable level of workmanship and in compliance with plans and specifications.</p> <p>Morgan City Water Treatment Plant Improvements The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank, and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents. Mr. Domingue's responsibilities included observing and investigating construction at all stages to identify problems, report potential problems and take timely action to solve problems; and inspecting all work in progress to ensure construction is in compliance with plans and specifications.</p>

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:	
Design of New Waterline to Grand Isle Grand Isle, LA Town of Grand Isle 170 Ludwig Lane Grand Isle, LA 70358 (985) 787-3196 David Camardelle	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2000	\$18,000,000	\$18,000,000

Project Description

The Town of Grand Isle is a community located in Jefferson Parish which is the State of Louisiana's only inhabited barrier island. A serious lack of potable water problem was associated with this town for generations which forced Grand Isle to purchase water from outside sources via barge shipments and more recently by way of a pipeline from neighboring Lafourche Parish at an extremely high rate. Professional Engineering and Environmental Consultants, Inc. (PEEC) focused its resources on designing ***32 miles of 18-inch High Density Polyethylene waterline, a new 2 MGD pump station and two water storage tanks and controls for the system.*** **The line was installed using a directional drilling method at several locations in order to cross under several high-pressure gas lines and other major oilfield pipelines.** In total, the Town of Grand Isle is now able to receive over two million gallons of drinking water per day from Jefferson Parish at a fraction of the rate previously charged by other sources. The pipeline design, construction and management were nationally recognized in the *Public Works Journal* as well as other publications.

Funding Acquisition

PEEC spent many man-hours securing the funding for this project from both Federal and State sources.

Project Inspection

PEEC inspectors were on the job site from beginning to end. The entire 32-mile pipeline was installed with no major incidents of note. PEEC's inspection staff's top priorities are safety, to ensure proper construction of the project, and to protect the Client's interest and investment.



TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Waterline Under the Mississippi River St. James Parish, LA St. James Parish Government 5800 LA Highway 44 Convent, LA 70723 Jody Chenier (225) 562-2260	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$3,200,000	\$3,200,000

Project Description

PEEC assisted St. James Parish with securing funding under the Hurricanes Katrina/Rita CDBG-Disaster Recovery Program to install a 24-inch HDPE waterline under the Mississippi River. The waterline will connect the Parish's west bank water system to the east bank water system. Drilling technology developed in the oilfield industry is now available allowing St. James Parish to link both water treatment plants via a pipeline under the river. This provides a redundant system, offering back-up in the event of power failures and facility damage resulting in low water pressure or loss of water, along with the ability to maximize treatment capacities. The waterline will serve the entire unincorporated areas of the Parish. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
1.5 MGD Compact Clarification System Water Treatment Plant Patterson, LA City of Patterson 1314 Main Street Patterson, LA 70392 Mayor Rodney Grogan (985) 395-5205	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$4,500,000	\$4,500,000

Project Description

This project consists of design and construction of a 1.5 MGD compact clarification water treatment plant including filter system, clear well, intake structure, finish water pump system, telemetry system, offices for operators and plant superintendent, chemical storage facility, raw water intake screen, steel sheet pile wall protecting the bank at water's edge, and associated items of work. The building will be a pile supported, steel frame structure with concrete block walls.

PEEC is part of a team of three firms working together on this project. PEEC is responsible for all design pertaining to structural, foundation, building, and site improvements for the plant. Also, our firm's role is to be the lead in the following capacities: interface with the City of Patterson, interface with the prime, permit approvals, project plans, project specifications, project performance, Pre-Bid meeting, Pre-Construction Conference, construction meetings, and review of shop drawings.



TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Morgan City Water Treatment Plant Improvements Morgan City, LA</p> <p style="text-align: center;">City of Morgan City 512 First Street Morgan City, LA 70380 William Cefalu (985) 385-1770</p>	<p>Engineering design, cost analysis, permitting, and construction inspection.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023	\$5,000,000	\$5,000,000

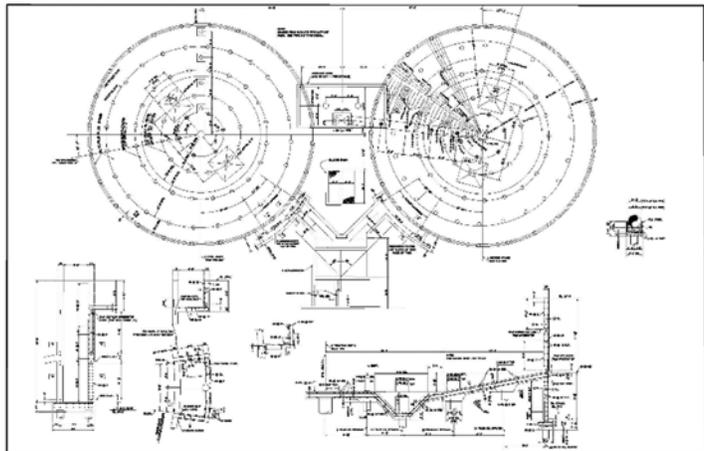
Project Description

The Morgan City Water Plant is an independent municipal water treatment facility that was constructed in 1945 and the existing ground storage tank does not have the capacity to meet the average daily volume of usage. Additionally, the roof of the structure is in very poor condition. The City of Morgan City water treatment plant improvements involve repairing the existing tank and constructing a new tank, and improving the water treatment system to provide a reliable source of water and adequate fire protection for its residents.

In addition, the clarifiers were in need of repair. PEEC designed a new clarifier system for the water plant.

PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.

PEEC prepared the grant application for funding under the American Rescue Plan of 2021 Water Sector Grant Program which the City has received approval of requested funds.



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Installation of the New Buras Water Tower Buras, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2006	\$2,000,000	\$2,000,000

Project Description

The Buras community was devastated due to Hurricane Katrina and the only water tower in that community collapsed during the early hours of the storm. PEEC was responsible for design and installation of a new elevated water storage tank and all associated piping to provide fire suppression water storage and potable water supply for the Town of Buras. PEEC was directed to design the new water tower and its foundation to withstand up to 200 MPH wind velocity for future storms. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, construction inspection, and testing. The project was the first infrastructure that was constructed after the Hurricane Katrina, allowing the water supply and the water pressure to get to normal condition.



TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Grand Isle Water Distribution System Upgrades Grand Isle, LA</p> <p style="text-align: center;">Town of Grand Isle 170 Ludwig Lane Grand Isle, LA 70358 (985) 787-3196 David Camardelle</p>	<p>Engineering design of the entire project, cost analysis, permitting, and construction inspection.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2002	\$1,500,000	\$1,500,000

Project Description

The Grand Isle community's water distribution system was in dire need of upgrade. Water pressure throughout the Town was regularly below 20 psi. PEEC developed a plan to improve the water distribution and pressure throughout the Island. The project included *installation of a new 800 GPM pump station, installation of approximately 3,000 feet of force main, construction of a 250,000-gallon elevated water tower, installation of 2 new 1,400 GPM pumps in an existing pump station, installation of a generator package, installation of a 100,000-gallon water storage tank and rehabilitation of an existing 250,000-gallon water tower.* Upon completion of the Project, the Town's water pressure rose to an average of 65 psi throughout the Island.

Distribution System Modeling

Using Cybernet modeling program, PEEC modeled the entire distribution system for the Town of Grand Isle. The actual pressures and flows measured after the improvements were made and the construction was completed were within 3% of the numbers generated by the model.

Project Inspection

PEEC inspection team was on site full time to ensure that the project was installed to specification and that no interruption of service was experienced by the Town's residents. No incidents of inconvenience were experienced.



TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
New Waterline Booster Station and Storage Tank Grand Isle, LA Town of Grand Isle 170 Ludwig Lane Grand Isle, LA 70358 (985) 787-3196 David Camardelle	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2001	\$2,500,000	\$2,500,000

Project Description

The Grand Isle water demand was greater than the water supply. Water pressure throughout the Town was regularly below 20 psi. PEEC developed a plan to increase the water supply. The project included *installation of a new pump station at Fourchon as a booster pump to increase the flow to the Island*. Additionally, a ground storage tank was designed to properly store the water when the water supply from Lafourche Parish would get very low. In order to meet deadlines, PEEC split the project into two contracts to maintain the construction schedule and avoid conflict during construction. PEEC expert management of the projects prevented any construction increase to any of the contracts. PEEC, Inc. was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, permit approvals, project management, project inspection and project close-out.



TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Rehabilitation of Westwego Water Tower Westwego, LA City of Westwego 419 Avenue A Westwego, LA 70094 Mayor John Shaddinger (504) 347-5745	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004	\$1,500,000	\$1,500,000

Project Description

The entire water tower was sandblasted and painted according DHH and LA DEQ requirements. The altitude valve was replaced and a new overflow pipe was installed. PEEC, Inc. was fully responsible for the repair and rehabilitation of this project including preliminary design, final design, preparation of plans and specifications, project management, and project close-out.

Project Inspection and Construction Management

PEEC inspectors were on the job site from beginning to end. PEEC's construction management team's top priorities are safety, to ensure proper construction of the project and to protect the Client's interest and investment.



TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Modification and Repair Work to the Water Intake Structure Westwego, LA City of Westwego 419 Avenue A Westwego, LA 70094 Mayor John Shaddinger (504) 347-5745	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2003	\$750,000	\$750,000

Project Description

The City of Westwego was operating a water plant that was constructed in 1922 with an addition that was completed in 1965. The plant never had any rehabilitation since its construction. With new EPA regulations, the City was faced with two options. First was to improve the water plant to meet the new regulations and the other was to shut down the plant and purchase water from Jefferson Parish Water Department. After a detailed economic study, it was determined that rehabilitation of the water plant would be more economical. The upgrade included the modifications and repair work to the water intake structure located at the Mississippi River.

The upgrades included the installation of new pumps, motors, control panel, painting and repair of the stairs and the platform, Repair of the exterior pipes and screens and major piping modifications to accommodate a lower O&M cost for the station, installing the telemetry system.

PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
East Bank Water Line Installation Plaquemines Parish, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004	\$500,000	\$500,000

Project Description

Plaquemines Parish directed PEEC to upgrade the existing water lines on the east bank of the Parish, and install new water lines where the water pressure was inadequate. PEEC was responsible for design and construction management of this project. **The water line was installed using the directional drilling method.** PEEC obtained all necessary permits to complete this work.



TEC Professional Services Questionnaire

Work by PEEC, Inc. performed directly for or selected by Jefferson Parish

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lafitte Library Conversion to the Police Station Project No. 576-26-0028 (331) Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$550,000	\$550,000

The existing Library at the Town of Lafitte was damaged during Hurricane Katrina and the Parish decided to convert the existing library into a Police Station and construct a new library for the Town of Lafitte. PEEC obtained all necessary data and permits for this project prior to start of construction. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Central Avenue Waterline Phase II Project No. 2014-001-WR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$2,000,000	\$2,000,000

Jefferson Parish Government contracted with PEEC to design and install a 12-inch waterline from Karen Avenue to Jefferson Highway along Central Avenue. PEEC obtained topographic surveying and locations of current improvements and utilities located in the area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for the needed waterline was also required. Utilizing this information, the design of a solution was underway. PEEC is responsible for preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Mt. Kennedy Drainage Improvements Project No. 2008-035-DR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$4,000,000	\$4,000,000

Mt. Kennedy is a residential street located on the Westbank of Jefferson Parish, LA. The residents in the area have experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. Utilizing this information, the design of a solution was underway. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. Upon analysis of the existing conditions, collected data and modeling results, PEEC determined the best, most economical solution to the problem. A proposed drainage structure large enough to handle the calculated flow of a ten-year storm with no ponding will be installed at the dead-end area. All undersized existing catch basins and drain lines will be removed and replaced with new RCP pipes and manholes along the existing right of way and outfall into an existing ditch.



TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Johnson Street Drainage Improvements Project No. 2003-038-DR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004	\$4,000,000	\$4,000,000

Johnson Street is a residential street located in Metairie, La. The end of the street dead-ends at the rear of a commercial facility. Since the development of the commercial facility, the residents in the area have experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. Utilizing this information, the design of a solution was underway. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. A portion of the proposed improvements had to be located within an existing railroad right of way. PEEC prepared all permit documentation in order to facilitate an entry agreement between Jefferson Parish Government and the Railroad company.

Phase I - Upon analysis of the existing conditions, collected data and modeling results, PEEC determined the best, most economical solution to the problem. A proposed drainage structure large enough to handle the calculated flow of a ten-year storm with no ponding was installed at the dead-end area. 1,250 feet of undersized existing catch basins and drain lines were removed and replaced with 42" RCP along the existing railroad right of way and outfall into an existing ditch. Phase II - Approximately 2,000 of 6x6 box culvert was placed into the existing outfall ditch to enhance flow and drainage of the entire drainage basin.



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
6 th Street Drainage Improvements Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2008	\$300,000	\$300,000

6th Street is a residential street located in Marrero, La. The area has experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

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

Plaintiff:	Parties: Defendant:	Status/Result of Case:
1. 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.

1. Minimum Personnel Requirement: PEEC, Inc. has been providing the most advanced technological solutions for water treatment process to its clients through its well qualified engineers and has performed the projects very efficiently and within budget. As the attached project list attests, PEEC has designed and managed numerous projects of similar size and type. PEEC has been involved as part of several design teams providing its expertise in the design of water treatment and distribution systems.
2. Minimum Equipment Requirement: PEEC, Inc.'s equipment inventory includes latest state-of-the-art equipment. The firm also possesses all the necessary computing, surveying, and computer software to process field data to conduct computer modeling and prepare design reports. PEEC has adequately trained personnel with extensive experience in the operation and field maintenance of all equipment.
3. Professional Qualifications: PEEC, Inc. is staffed with the right mix of engineers, technicians, administrators, and field personnel to successfully complete all types engineering projects. All the engineers listed are Louisiana certified registered engineers with extensive experience in their respective fields. The academic credentials of personnel range from B.S. to Ph.D. in civil, mechanical, electrical, structural, environmental engineering, land surveying, and in biological and geological sciences. Selected personnel also possess certification for underground storage tank (UST) closure, hazardous waste supervision, and as hazardous material technician. The CAD design department of PEEC, Inc. is well staffed with personnel with extensive experience in complex projects.
4. Capacity for Timely Completion of Projects: The current work load of PEEC, Inc. is at the average level it has been for the past 3 years. Accordingly, with our track record of timely completion of projects, we feel that any proposed project will not pose any undue burden on the firm's resources. PEEC has completed all of its previous projects in a timely manner as directed by contract agreements.

TEC Professional Services Questionnaire

5. Knowledge of Project Area: PEEC, Inc. is located in Westwego, which is on the West Bank of the Mississippi River, and very close to the project area. The firm has been involved in many projects in the Greater New Orleans Area in the past and is intimately familiar with the project area. All of PEEC, Inc.'s staff also resides in the immediate vicinity of the office location and are as such familiar with the project area. Past engineering projects in the area have helped PEEC in building up an extensive inventory of background technical information on relevant characteristics of the area, which will be invaluable in preparation for the project design tasks.
6. Past Performance: PEEC, Inc. has successfully completed engineering design, construction management, and surveying services for clients such as Jefferson Parish, Town of Grand Isle, St. Tammany Parish, City of Westwego, Grand Isle Independent Levee District, West Jefferson Levee District, Louisiana Department of Natural Resources, City of Morgan City, Texas Parks and Wildlife, Plaquemines Parish, St. Bernard Parish, St. Charles Parish, the Town of Zwolle and numerous private clients in the past. The firm has performed all assigned tasks on or before time and within the allotted budget. PEEC, Inc. will provide further information and references upon request. PEEC has not been involved in any litigation with Jefferson Parish or any present or past clients.
7. Quality Control Plan: Mo Saleh, P.E. and Ron Guidry are the Quality Control Managers for all projects. Their responsibilities in this position include manpower scheduling, budgeting and technical oversight. Background research and engineering design performed by project engineers are periodically checked by the QC Manager. Quality control also includes verification of sample analysis results with expected value. All drafting output is checked by the QC manager before submittal. Similarly, all surveying reports are checked, sealed and signed by the registered land surveyor prior to submittal. The detailed Quality Control Plan will be furnished upon request.
8. STATEMENT OF MAXIMUM FEE: PEEC's rates are established upon contract is awarded or per project but typically do not exceed 15% of the project's construction cost. PEEC will negotiate specific fees on a project-by-project basis with its clients.

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

Signature: Mo Saleh Print Name: Mo Saleh, M.S., P.E.

Title: Principal/Senior Project Engineer Date: April 28, 2023

LIST OF REFERENCES

PEEC has been in charge of numerous federally funded projects since 1993. PEEC has been under contract with parishes, municipalities, state agencies, and the private sector including the following (18) clients during the past ten years.

1. Jefferson Parish Government
1221 Elmwood Park Blvd.
Harahan, LA 70123
Mr. Reda Yusef
504-736-6774
2. Plaquemines Parish Government
106 Avenue G
Belle Chasse, LA 70037
Ken Dugas
504-297-5343
3. Texas Parks and Wildlife Department
1502 FM 517
Dickinson, TX 77539
Cherie O'Brien
281-534-0132
4. City of Westwego
419 Avenue A
Westwego, LA 70094
Mayor Joe Peoples
504-347-5745
5. Town of Grand Isle
P.O. Box 200
Grand Isle, LA 70358
Mayor David Camardelle
985-787-3196
6. Grand Isle Port Commission
P.O. Box 500
Grand Isle, LA 70358
Wayne Keller
985-787-2229
7. Grand Isle Levee Board
P.O. Box 757
Grand Isle, LA 70358
David Camardelle
985-787-3955

8. St. Charles Parish Government
301 Third Street
Luling, LA 70070
Sam Scholle
Director of Public Works/Wastewater
985-783-5102
9. St. Martin Parish Government
301 West Port Street
P.O. Box 9
St. Martinville, LA 70582
Guy Cormier
Parish President
337-394-2200
10. Town of Zwolle
P.O. Box 546
Zwolle, LA 71486
Mayor Roger Lopez
318-654-6141
11. St. Tammany Parish Government
P.O.Box628
Covington, LA 70434
Mr. Bill Oiler, CEO
985-898-2445
12. Town of Sarepta
P.O. Box 338
Sarepta, LA 71071
Mayor E. L. Edwards
318-847-4333
13. Port of South Louisiana
171 Belle Terre Boulevard
Laplace, LA 70068
Joel Chaisson
985-652-9278
14. St. Bernard Parish Government
1125 East St. Bernard Highway
Chalmette, LA 70043
Logan Martin
504-278-4317
15. City of Patterson
1314 Main Street
Patterson, LA 70392
Mayor Rodney Grogan
985-395-5205

Jefferson
Parish
State of Louisiana

16. City of Morgan City
512 1st Street
Morgan City, LA 70380
Mayor Frank Grizzaffi, III
985-385-1770

17. St. James Parish Government
1910 W. Main Street
Lutcher, LA 70071
Jody Chenier
Director of Operations
225-869-5642

18. City of Gretna
Mayor Ronnie C. Harris
P.O. Box 404
Gretna, LA 70054
504-363-1599



Jefferson
Parish
State of Louisiana



PROFESSIONAL ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.

Engineers | Planners | Environmental Consultants



SERVICES

Since 1993, PEEC has provided a full range of professional engineering services to clients throughout the Gulf Coast region. Our technical team provides solutions to diverse engineering challenges, from civil and environmental engineering, to coastal restoration initiatives, to construction management. Our approach allows our clients to benefit from the latest technology, innovative solutions, and cost effective ideas. PEEC integrates the appropriate resources and technologies for each client, every time.

CUSTOMIZING PROJECTS TO FIT THE CLIENT'S NEEDS

Our team of experts performs in-depth feasibility studies that consider all aspects of the project. During this fact-finding phase, our team of experts analyze how the project will affect the environment and community stakeholders. This comprehensive review allows us to present options that truly match our clients' needs.

FINDING THE FUNDS TO MAKE PROJECTS HAPPEN

When necessary, our staff identifies state and federal funding sources and helps the client secure all needed grants and loans. This service has enabled many of our clients' projects to move from concept to reality.

MANAGING CONSTRUCTION TO ENSURE SUCCESS

Once our design has been completed and funding has been obtained, we monitor the construction process to make sure that the contractor implements the project in accordance with all approved plans. A pre-bid conference and monthly construction meetings with the contractor are all standard features of PEEC's construction management service. In this way, our staff keeps project construction on schedule and within budget.

MAXIMIZING RESOURCES THROUGH PROGRAM MANAGEMENT

In addition to construction of one-time projects, PEEC's team also takes a comprehensive look at client infrastructure and offers long-term strategies for making these systems work more efficiently. Our staff makes recommendations about revenue streams, links with economic development, options for improvement in energy efficiency, land use planning, and system operation and maintenance. For example, our assessment of the City of Westwego's sewerage system involved examination of fees, insurance rates, licensing needs, and employee management structure as well as technical recommendations for improving the system's effectiveness.

Civil Engineering

PEEC has a proven track record of providing the infrastructure that Gulf Coast communities need. Our diverse and experienced staff is skilled in civil, electrical, mechanical, and construction management, enabling us to direct projects from inception to completion.

Clients

- ▣ St. Tammany Parish
- ▣ Grand Isle Levee Board
- ▣ Grand Isle Port Commission
- ▣ Plaquemines Parish
- ▣ West Jefferson Levee Board
- ▣ City of Westwego
- ▣ Town of Grand Isle
- ▣ Town of Zwolle
- ▣ Jefferson Parish
- ▣ St. Charles Parish

Structural

Building strong, building smart — these are watchwords for new construction in the hurricane-prone Gulf Coast. PEEC's approach to structural projects ensures that the finished product exceeds the client's expectations — not just at the ribbon cutting but for many storm seasons to come.

Clients

- ▣ City of Westwego
- ▣ Jefferson Parish
- ▣ Jefferson Parish School Board
- ▣ St. Tammany Parish
- ▣ Town of Zwolle
- ▣ Town of Grand Isle
- ▣ Plaquemines Parish



Drainage Pump Station – Belle Chasse, Louisiana

LONG-TERM PLANNING YIELDS RESULTS

In Belle Chasse, PEEC developed a master drainage plan using hydraulic modeling and aerial photography to analyze the community's needs. Our plan presented solutions for reducing flooding and preventing property damage. Once the plan was approved, PEEC designed and constructed several projects, including improvements to a major canal that drained the majority of the lower Belle Chasse drainage basin. Our design for slope paving stopped recurring flooding and protected nearby homes from subsidence caused by changes in the water table.

PROBLEM SOLVING IMPROVES PARISH PUMPING STATION

PEEC's upgrade of the drainage pumps in Plaquemines Parish required a fraction of the budget that other firms proposed. By constructing a steel frame inside the pumping station, among other methods, we were able not only to preserve the original building but keep the pumps in operation while a new diesel engine was installed. The frame was left in place so that the parish can use the same cost effective system whenever the station's engines need to be replaced.

Civil Engineering Services

- ▣ Drainage System
- ▣ Drainage System Design
- ▣ Stormwater Analysis
- ▣ Hydraulic Modeling
- ▣ Pump Station Design
- ▣ Roadway Design
- ▣ Levee System Design
- ▣ Site Development
- ▣ Local, State, and Federal Funding Assistance
- ▣ Construction Management



Parish Government Facility – St. Tammany Parish, Louisiana

PRIZE-WINNING DESIGN GIVES MAXIMUM FLEXIBILITY TO CLIENT

Our design and construction of the St. Tammany Parish Government facility won the 1999 Award for Excellence from Associated Builders and Contractors, Inc. Our steel frame design provided an attractive, versatile space that allows the parish to simultaneously use the building as a satellite center for a regional university, a library, and a medical facility.

HISTORICAL PROPERTY RETURNED TO COMMERCE

Our restoration of a former corner store into the Westwego Historical Museum converted a blighted property into the centerpiece of a new tourist district. PEEC completely restored the turn-of-the-century general store, furnished a period upstairs living quarters, and created a main exhibit area. Since opening its doors in 2000, the museum has welcomed thousands of visitors from around the world.

Structural Services

- ▣ Bridges—Wooden, Concrete, Steel, and Precast—Design and Construction Management
- ▣ Commercial Facility Design and Construction Management
- ▣ Industrial Facility Design and Construction Management
- ▣ Governmental Facilities and Complex Design and Construction Management and Repair

Environmental

We bring our expertise to bear on all of the Gulf Coast's most difficult environmental remediation and permitting challenges. Long-standing relationships with regulators allow us to expedite paperwork and pinpoint optimal grant sources, allowing our clients to focus less on red tape and more on improving quality of life for their customers and constituents.



Sludge Volume Reduction and Cleanup – City of Westwego

Environmental Services

- ▣ 404 Permit Acquisition
- ▣ Wetland Delineation Determination
- ▣ Environmental Impact Statement
- ▣ Environmental Impact Analysis
- ▣ Air Quality Permit
- ▣ MWPP
- ▣ MS4 Permit Acquisition
- ▣ NPDES/LPDES Acquisition
- ▣ Needs and Alternative Analysis
- ▣ Phase I and II Environmental Site Assessment
- ▣ Brownfield Assessment and Remediation

Clients

- ▣ Citrus Land Company
- ▣ City of Westwego
- ▣ City of Gretna
- ▣ CLL Limited Partnership, Ltd.
- ▣ Daybrook Fisheries
- ▣ Dixie Machine Welding and Metal Works, Inc.
- ▣ Grand Isle Port Commission
- ▣ St. Tammany Parish

BROWNFIELDS REDEVELOPMENT EXPANDS LOCAL ECONOMIES

PEEC secured \$1.5 million in total EPA Brownfields Funds for the Cities of Gretna and Westwego, Louisiana. Our staff followed up this fundraising success with action on the ground, converting formerly contaminated and abandoned properties into productive sites that are now used for a variety of industrial, recreational, and government uses. The former Malter Chemical site is now slated to be the site of an expanded McCormick Foods facility.

ASBESTOS REMOVAL ALLOWS EXTENSION OF VITAL ROADWAY

PEEC directed the removal of asbestos along a key traffic corridor in Gretna, Louisiana. Until our remediation was complete, a state financed extension of this corridor could not be completed.

ENVIRONMENTAL ASSESSMENT AND CLEANUP CONVERT EYESORE INTO VIABLE PROPERTY

PEEC worked with the City of Westwego and citizens to clean up a long-standing hazardous waste site. Now that underground storage tanks, illegal dumping spills, and other contaminated materials have been removed, the city is planning to use the property for the site of the new City Hall.



Wetland Creation Project – Galveston, Texas

BENEFICIAL USE OF DREDGED MATERIAL PROTECTS SENSITIVE TIDAL ECOSYSTEM

PEEC designed and constructed a 230-acre marsh creation project in Galveston Bay. Our team of experts created 47 half-acre mounds of dredged material planted with vegetation and protected the mounds with breakwaters made of geotubes. Galveston Bay experiences high wave action every day, and in 2008 Hurricane Gustav sent a tidal surge through the area. Our project remained intact despite the storm, while adjacent, unprotected marsh areas were destroyed.

TERRACING PROJECT CREATES NEW MARSH

An open water area just south of Port Arthur, Texas, Bessie Heights was once the site of healthy wetlands. PEEC restored 100 acres of marsh in Bessie Heights using dredged material arranged in terraces. The project was built in 2002 and remains structurally sound, despite the wave action created by Hurricanes Katrina, Rita, Gustav, and Ike. We expect that the project will eventually build more than 200 acres of wetlands.

BREAKWATER SYSTEM PROTECTS COAST WHILE ALLOWING NATURAL ECOSYSTEM FUNCTION

PEEC designed a four mile long breakwater system for Grand Isle with a special overlapping design that allows tidal fluctuations to pass through. At the same time, the breakwaters protect the island from storm surge and help reduce erosion. The project was built in 1998 and is functioning as designed despite numerous hits from severe hurricanes.

Coastal

With wetlands being lost every day and hurricanes arriving in force, the Gulf Coast is ground zero for coastal restoration. PEEC has been at the forefront of the movement to preserve the region's wetlands, and we have successfully implemented unique solutions in a variety of storm-prone habitats.

Coastal Services

- ▣ Marsh Creation
- ▣ Marsh Enhancement
- ▣ Marsh Protection
- ▣ Barrier Island Protection
- ▣ Levee System Design and Construction
- ▣ Levee System Upgrade and Repair
- ▣ Breakwater System Design and Construction
- ▣ Marsh Management

Clients

- ▣ Grand Isle Levee District
- ▣ Louisiana Department of Natural Resources
- ▣ Plaquemines Parish Government
- ▣ Texas Parks and Wildlife Department
- ▣ Town of Grand Isle



Breakwater System – Town of Grand Isle, Louisiana

Water

Sending water where it needs to go—PEEC has pioneered several techniques, now in use throughout the region, to make sure our clients have the water resources when and where they need them.



New Water Line – Town of Grand Isle, Louisiana

Water Services

- ▣ Hydrogeology/Groundwater Modeling
- ▣ Water Well Design
- ▣ Water Intake Structure Design, Construction, and Repair
- ▣ Water Treatment Services
- ▣ Water Distribution Systems
- ▣ Lake and Reservoir Water Quality Management
- ▣ Storm Water Permitting and Compliance
- ▣ Water Resources Management/Water Rights Strategies
- ▣ Water Supply Planning
- ▣ Watershed Management/Source Protection

Clients

- ▣ City of Westwego
- ▣ Jefferson Parish
- ▣ Town of Grand Isle
- ▣ Town of Zwolle
- ▣ St. Charles Parish
- ▣ Plaquemines Parish



New Water Line – Town of Grand Isle, Louisiana

NEW WATER LINE BRINGS CLEAN WATER, ECONOMIC GROWTH TO TOWN

Grand Isle, Louisiana's only inhabited island, is a community of 1500 people that had no direct source of potable water. Residents were forced to purchase water, at high rates. A lack of potable water also made it difficult to accommodate the many tourists who visited the island. In 1999, PEEC installed a 32-mile water line that piped in treated Mississippi River water from Jefferson Parish to Grand Isle, using an innovative design that maximized the line's durability. Now the town's residents receive up to two million gallons of water a day at a fraction of the rate charged by previous sources. Since the line was installed, eco-tourism in Grand Isle has doubled.

STREAMLINED SOLUTION PROVIDES MODEL FOR REGION

Grand Isle's water distribution system was at the breaking point when PEEC was hired to bring the system back up to full strength. Along with other measures, we repaired the system's main pipe, whose diameter had shrunk to only six inches due to build up in the line. We used a specialized cleaning device normally used for oil pipelines to clean out the pipe. Our method effectively doubled the pipe's capacity and is now used by municipalities throughout the area to keep water systems functioning at optimal levels.



Wastewater Treatment Plant – Zwolle, Louisiana

Wastewater

Wastewater challenges have provided PEEC with opportunities to use innovative and green technologies that not only produce clean effluent, they improve the surrounding environment — all while achieving significant cost savings for our clients.

MICROBIAL ROCK PLANT FILTER PROVIDES CLEAN WATER AT LOW COST TO PARISH

A wastewater treatment plant in St. Tammany Parish was not meeting EPA effluent limits. Rather than constructing a costly new plant, PEEC used a design that employed crushed stone and rock already available within the parish. The four-acre treatment facility was designed to handle 1.5 million gallons of wastewater per day and provided an effluent quality in full compliance with all state and federal regulations.

SUSTAINABLE MEASURES REDUCE POLLUTANTS AND REDUCE PROJECT BUDGET

The town of Zwolle needed to improve the water quality of a 14.5-acre oxidation pond. PEEC designed a system using plants, which removed nitrogen and added oxygen to the wastewater, thereby cleaning the pond at low cost, with minimal disruption to the neighboring environment.

MICROBIAL APPLICATION PRODUCES WIN-WIN SOLUTION

The city of Westwego had a wastewater facility that was under functioning due to high sludge volume. PEEC reduced this volume by 50% using an application of specialized microorganisms. In a second phase, we used the microbial detritus this process created and used it as beneficial material for nearby earthen levee tops. The microbial sludge acted as fertilizer, spurring massive vegetation growth, which in turn reduced erosion on the levee and improved the city's storm protection system.

Sewer Services

- ▣ Combined Sewer Overflow
- ▣ Design and Rehabilitation of Collection Systems
- ▣ Design and Rehabilitation of Treatment Systems
- ▣ Operability Design Reviews
- ▣ Operations Services
- ▣ Start-up Assistance
- ▣ Inflow/Infiltration Study

Clients

- | | |
|----------------------|----------------------|
| ▣ City of Westwego | ▣ Town of Sarepta |
| ▣ St. Tammany Parish | ▣ Jefferson Parish |
| ▣ Town of Zwolle | ▣ Plaquemines Parish |
| ▣ U.S. Steel | |



Wastewater Treatment Plant – City of Westwego, Louisiana

PEEC, INC.

CIVIL

- Drainage System
- Drainage System Design
- Stormwater Analysis
- Hydraulic Modeling
- Pump Station Design
- Roadway Design
- Levee System Design
- Site Development
- Local, State, and Federal Funding Assistance
- Construction Management

STRUCTURAL

- Bridges—Wooden, Concrete, Steel, and Precast—Design and Construction Management
- Commercial Facility Design and Construction Management
- Industrial Facility Design and Construction Management
- Governmental Facilities and Complex Design and Construction Management

ENVIRONMENTAL

- 404 Permit Acquisition
- Wetland Delineation Determination
- Environmental Impact Statement
- Environmental Impact Analysis
- Air Quality Permit
- MWPP
- MS4 Permit Acquisition
- NPDES/LPDES Acquisition
- Needs and Alternative Analysis
- Phase I and II Environmental Site Assessment
- Brownfield Assessment and Remediation

COASTAL

- Marsh Creation
- Marsh Enhancement
- Marsh Protection
- Barrier Island Protection
- Levee System Design and Construction
- Levee System Upgrade and Repair
- Breakwater System Design and Construction
- Marsh Management

WATER

- Hydrogeology/ Groundwater Modeling
- Water Well Design
- Water Intake Structure Design, Construction, and Repair
- Water Treatment Services
- Water Distribution Systems
- Lake and Reservoir Water Quality Management
- Storm Water Permitting and Compliance
- Water Resources Management/Water Rights Strategies
- Water Supply Planning
- Watershed Management/ Source Protection

WASTEWATER

- Combined Sewer Overflow
- Design and Rehabilitation of Collection Systems
- Design and Rehabilitation of Treatment Systems
- Operability Design Reviews
- Operations Services
- Start-up Assistance
- Inflow/Infiltration Study



PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.

1065 Muller Parkway, Suite B
Westwego, LA 70094

P | 504-347-1900
F | 504-341-5600
E | postmaster@peecinc.com

www.peecinc.com



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Professional Engineering and Environmental Consultants, Inc.

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

This certification is valid from 7/14/2022 to 7/14/2023 .

Certification No. 20386

A handwritten signature in black ink, appearing to read "Stephanie R. Hartman", is written over a horizontal line.

**Stephanie Hartman,
Director, Entrepreneurial Services**



Division of Small and Emerging Business Development
SEBD CERTIFICATION

Professional Engineering and Environmental Consultants, Inc.

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 7/26/2021 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 7/26/2021

This certification expires on: 7/26/2031

Certification No. 20386

A handwritten signature in black ink, reading "Stephanie Hartman", is written over a horizontal line.

Stephanie Hartman,
Director, Entrepreneurial Services

**Jefferson Parish TEC
Professional Services Questionnaire**

For

BFM Corporation, LLC

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Professional Engineering Services for the
Grand Isle Waterline Lowering Project**
SOQ 23-008 | Resolution No. 141453

B. Firm Name & Address:



BFM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

BFM Corporation, LLC
15 Veterans Memorial Boulevard
Kenner LA 70062

C. Name, title, & 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
504-468-8800 • 504-460-5239 cell • cpoche@bfmcorporation.com
Registered Professional Civil Engineer, Louisiana No. 27667 (since 1998)

D. Name, title, & 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., Executive Vice President • LA License No. 4329 (1974)
504-468-8800 • 504-451-7500 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:

4	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	1	Geotechnical Engineers	-	Graduate Engineers
-	Civil Engineers	-	Interior Designers	2*	Project Managers
-	Construction Inspectors	-	Landscape Architects	-	Clerical (<i>see Administrative</i>)
-	Ecologists	-	Land Surveyor (<i>see PLS</i>)	-	Grant/Funding Specialist
-	Electrical Engineers	-	Mechanical Engineers	-	Sanitary Engineers
-	Engineer Intern	-	Environmental Engineers	1	Principals
2	Professional Land Surveyors			1	Researcher/Archivist
				3	Drafting/AutoCADD
				5	Survey Crew Chiefs
				6	Instrument Men
				24	TOTAL

* Project Manager also noted in Professional Land Surveyor, but overall employee count is correct.

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 a 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 Prime 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 this Project:

24 (all personnel, primary and support, will be available on all assigned projects)

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 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

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

41 years (Founding Principal of BFM in 1982); 56 years total (1967)

Education: Degree(s)/Year/Specialization:

Coursework, Building, Delgado College, New Orleans
Coursework, Math, University of New Orleans

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Ralph P. Fontcuberta, Jr., PLS has better than half a century of experience in the field of surveying 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, and related endeavors.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Ralph P. Fontcuberta, Jr., PLS (continued)

Mr. Fontcuberta's **surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982**, and before 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:

- *Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA*
- *Locate 16-inch Water Line between Valve Stations 18 and 24, Grand Isle, Jefferson Parish, LA*
- *Water Line Location Surveying, Grand Isle, Jefferson Parish, LA*
- *Fifi Island/Bayou Rigaud Water Line Location, Grand Isle, Jefferson Parish, LA*
- *Grand Isle Water Main Location, Jefferson Parish, LA*
- *Grand Isle Water Tower Site Project, Town of Grand Isle, Jefferson Parish, LA*
- *Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA*
- *Iris Avenue Water Line Replacement, Jefferson Parish, LA*
- *Lower Lafitte Waterline Stakeout, Jefferson Parish, LA*
- *Belle Chasse Waterline, Phase 2, Plaquemines Parish, LA*
- *Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA*
- *River Road Water Line, Waggaman, Jefferson Parish, LA*
- *River Road Water Line Replacement (Phase II), Jefferson Parish, LA*
- *Proposed Water Line Extension (Jordan Road), Vancleave, Jackson County, Mississippi*
- *Town of Jean Lafitte Drainage Improvements, Jefferson Parish, LA*
- *17th Street Canal Drainage Improvements, Jefferson/Orleans Parishes, LA*
- *Hickory Drainage Study, Jefferson Parish, LA*
- *DFIRM H&H Modeling, East Bank Basin, Jefferson Parish, LA*
- *18th Street Drainage Improvements (18th St from Division to W Esplanade Ave), Jefferson Parish, LA*
- *Johnson Street Drainage Improvements (Phases I & II), Jefferson Parish, LA*
- *Earhart and Clearview Interchange Drainage Study, Jefferson Parish, LA*
- *Canal "D" Drainage Improvements, Westwego Pump Station Nos. 1 & 2, Jefferson Parish, LA*
- *West Bank Expressway, Phase I Drainage Map, from Peters Rd to Manhattan Blvd, Jefferson Parish, LA*
- *Survey Update of the Marrero Pump Station, Marrero, Jefferson Parish, LA*
- *Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA*
- *Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, LA*
- *Boothville Water Treatment Plant, Plaquemines Parish, LA*
- *Roadway Surveys, Belle Chasse Barge Offloading Waterline Connection, Plaquemines Parish, LA*
- *St. Bernard Water Distribution System Line Replacement Project (Multiple Areas), St. Bernard Parish, LA*
- *Crown Point Drainage Flood Control Structures, Jefferson Parish, LA*
- *Hurricane Gustav Drainage Canal Repairs, East Bank, Jefferson Parish, LA*
- *Maplewood & Paillet HMGP Project, West Bank Subsurface Drainage Improvement Program Phase II, Jefferson Parish, LA*
- *Hilling Ditch Drainage Improvements, Jefferson Parish, LA*

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

6 years (became partial owner of BFM in 2017); 30 years total (1993)

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:

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

Other experience and qualifications relevant to the proposed Project:

Mr. Poché 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 more than 20 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 expert witness testimony. 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.

BFM Corporation projects overseen by Mr. Poché would include:

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50 foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

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)

Bonnabel Canal, from W. Esplanade Avenue to Veterans Boulevard, Jefferson Parish, Metairie, LA. The project, being executed for the Jefferson Parish Department of Capital Projects, involves establishing a baseline and setting Temporary Benchmarks. Scope includes location of improvements, utilities, and applicable trees. Spot elevations are included. The project is utilizing established Jefferson Parish GIS to show the apparent rights-of-way. The project involves 4100 lf of topographic survey along the Bonnabel Canal, from West Esplanade Avenue to Veterans Memorial Boulevard. (\$63,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Philip Thayer
Field Operations Supervisor

Project Assignment:

Field Operations Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

15 years (joined BFM in 2008); 16 years total (2007)

Education: Degree(s)/Year/Specialization:

B.S., 2007, Physical Education, Trevecca Nazarene University

Active registration: Year first registered/discipline:

Professional Land Surveyor Registration in process, State of Louisiana

Other experience and qualifications relevant to the proposed Project:

Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

Central Avenue Project, Metairie, Jefferson Parish, LA. BFM provided topographic surveying services for the Central Avenue project, which extended from Airline Highway to Karen Drive. This included location of utilities, notably the municipal water line. (\$14,580 (fee); 2014)

River Road Water Line, Waggaman, Jefferson Parish, LA. As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. (\$43,211 (fee); 2012)

Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA. BFM provided as-requested amended surveying services for the project. This was an extension of DPW Proj. 2008-018-WR, executed in 2009, for additional project work. (\$8,753 (fee); 2012)

Water Line Location Surveying, Grand Isle, Jefferson Parish, LA. BFM located a 16-inch water line at Camp Club in Grand Isle, Louisiana. (\$1,701 (fee); 2012)

West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA. BFM provided hydrographic surveying services for the Intake Basin at the West Bank plant. (2011)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

John Philip Thayer (continued)

Fifi Island/Bayou Rigaud Water Line Location, Grand Isle, Jefferson Parish, LA. BFM's surveying services located a 16-inch water line utility in Fifi Island and Bayou Rigaud in Grand Isle, Louisiana. (\$3,178 (fee); 2010)

East Jefferson Water Works – River Road, Jefferson Parish, LA. BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA. BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA. BFM prepared a topographic survey of the area surrounding the proposed site for the emergency generators. (\$5,888 (fee); 2012)

Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA. BFM provided cross section surveying services for the Evans Road Mississippi River Levee profiles as requested by the Parish in order to obtain USACE permitting. The cross section view showed the existing levee cross section, the design levee cross section, and the proposed excavation sites. (\$4,485 (fee); 2012)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement, which included the area from River Road to Jefferson Highway. (\$18,493 (fee); 2011)

Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA. BFM provided hydrological surveying services for the project. (\$4,975 (fee); 2010)

Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. (\$27,825 (fee); 2011)

Grand Isle Water Tower Site, Town of Grand Isle, Jefferson Parish, LA. BFM provided topographic surveying for the project. (\$6,859 (fee); 2009)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS
Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

5 years (joined BFM in 2018); 12 years total

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 Lic. No. 5929)

Other experience and qualifications relevant to the proposed Project:

Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50 foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Gary J. Lambert, Jr., PLS (continued)

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)

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

Bonnabel Canal, from W. Esplanade Avenue to Veterans Boulevard, Jefferson Parish, Metairie, LA. The project, being executed for the Jefferson Parish Department of Capital Projects, involves establishing a baseline and setting Temporary Benchmarks. Scope includes location of improvements, utilities, and applicable trees. Spot elevations are included. The project is utilizing established Jefferson Parish GIS to show the apparent rights-of-way. The project involves 4100 lf of topographic survey along the Bonnabel Canal, from West Esplanade Avenue to Veterans Memorial Boulevard. (\$63,000 (fee); 2022)

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA. A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard. (\$11,390 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Quality Control Supervisor

Project Assignment:

Quality Control Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

9 years (joined BFM in 2014); 17 years total (2006)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. Lemley serves as BFM's Quality Control Supervisor, overseeing all work and activity by the firm's personnel to be sure all is kept up to our exacting standards. 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.

Belle Chasse Waterline, Phase 2, Plaquemines Parish, LA. BFM executed a topographic survey for the project. The scope of services for the project included establishing a baseline and an on-site temporary benchmark with additional TBMs at 500 foot intervals along the project route. Elevations were taken along the baseline at intervals defined in the limits of the survey and at breaks in grade. Improvements within the designated limits of survey were plotted; as were above-ground utilities and those underground utilities with visible surface evidence. Boundary corners were located along the route to assist in determining widths of any existing rights of way. (\$53,357 (fee); 2015)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were further located. (\$84,700 (fee); 2015)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Thomas O. Wright
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:

15 years (joined BFM in 2008); 46 years total (1977)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

*American Traffic Safety Service Assn. – Traffic Flagger/Control Technician/Control Supervisor
Basic OSHA Training - Completed
Transportation Work Identification Card (TWIC)*

Other experience and qualifications relevant to the proposed Project:

Mr. Wright has over 40 years of experience in surveying services, including a multitude of project types (water, wastewater, stormwater, drainage, roadway, etc.) throughout the region.

Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA. The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. Survey probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. (\$133,444 (fee); 2014)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were further located. (\$84,700 (fee); 2015)

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:

33 years (joined BFM in 1990); 33 years total (1990)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

*American Traffic Safety Service Assn. – Traffic Flagger
Transportation Work Identification Card (TWIC)*

Other experience and qualifications relevant to the proposed Project:

Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of major projects.

River Road Water Line, Waggaman, Jefferson Parish, LA. As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. The topographic survey involved the route along River Road from the common boundary line between Jefferson Parish and St. Charles Parish easterly along River Road to 200 feet east of its intersection with Rivet Boulevard on the west bank of Jefferson Parish. The survey extended from right of way to right of way along River Road. (\$43,211 (fee); 2012)

Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA. BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud in Grand Isle, Louisiana. In a previous project for the Parish (BFM Proj 7317; Fifi Island/Bayou Rigaud Water Line Location in 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approximate location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. (\$363,080 (fee); 2013)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Gladney
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:

9 years (joined BFM in 2014); 22 years total (2001)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

*American Traffic Safety Service Assn. – Traffic Flagger
Norfolk Southern Roadway Worker Protection Contractor Safety Cert.
Transportation Work Identification Card (TWIC)*

Other experience and qualifications relevant to the proposed Project:

Lower Lafitte Waterline Stakeout, Jefferson Parish, LA. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)

East Jefferson Water Works – River Road, Jefferson Parish, LA. BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willwood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. (\$84,700 (fee); 2015)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM's surveying services located submerged pipes upon excavation as part of Task Order No. 3 of the project. (\$19,703 (fee); 2018)

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jeff Patin
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:

4 years (joined BFM in 2019); 24 years total (1999)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

Mr. Patin has worked as a Survey Crew Chief and Instrumentman for 20 years for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of various survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any & all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public & private clients, and has performed field work under the direction of the Corps of Engineers.

Town Center Water Well, City of Slidell, LA. BFM's surveying scope included topographic and boundary surveying services for the project. (\$16,533 (fee); 2019)

Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA. BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)

5th & 9th Sewer Lift Station Upgrades, Harvey, Jefferson Parish, LA. BFM's scope involved a topographic survey of the project site, located at the intersection of 5th Avenue & 9th Street. Cross sections were taken on a 25 ft grid within limits. (\$6,790 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson
CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:



Years experience with this Firm:

12 years (joined BFM in 2011); 32 years total (1992)

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

Mr. Watson has experience as a draftsman/CADD technician, having started his career as an intern with the Surveying Department of the City of Plano, TX. 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.

Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA. The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. The length of this segment was approximately 57,400 feet. Survey probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. BFM further prepared an estimate for the Parish to provide a location survey for the water line after it was lowered. (\$133,444 (fee); 2014)

Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA. BFM provided cross section surveying services for the Evans Road Levee profiles as requested by the Parish in order to obtain USACE permitting. The cross section view showed the existing levee cross section, the design levee cross section, and the proposed excavation sites. (\$4,485 (fee); 2012)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Shaun Clements
CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

5 years (joined BFM in 2018); 8 years total (2015)

Education: Degree(s)/Year/Specialization:

Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. BFM's project services included both boundary and topographic surveying of the project site. (\$6,870 (fee); 2019)

Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA. BFM's surveying scope involved topographic and boundary surveying services. (\$8,790 (fee); 2019)

Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA. BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for this drainage project. (\$13,392 (fee); 2019)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

West Bank Bus Stop Improvements, Jefferson Parish, LA. BFM's surveying services involved topographic surveying (25 ft grid) for multiple bus stop locations (AV26, AV27, AV3 (6 sites), AV40, AV42, AV43, AV44, AV45, AV47, AV65, AV74, AV76, HL67, MR44, MR52). (\$26,622 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kevin A. Roberts
CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

5 years (joined BFM in 2018); 38 years total (1985)

Education: Degree(s)/Year/Specialization:

A.D., 1999, Drafting & Design, Louisiana Technical College
Coursework, 1994-1997, Nunez Community College
Coursework, 1984-1988, Delgado Community College
Coursework, 1982-1983, University of New Orleans

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

Mr. Roberts has experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He obtained his A.D. in Drafting in 1999, and has taken additional coursework throughout his career.

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50 foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

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:

14 years (joined BFM in 2009); 26 years total (1997)

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:

NA

Other experience and qualifications relevant to the proposed Project:

Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA. The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. The length of this segment was approximately 57,400 feet. Survey probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. BFM further prepared an estimate for the Parish to provide a location survey for the water line after it was lowered. (\$133,444 (fee); 2014)

Belle Chasse Waterline, Phase 2, Plaquemines Parish, LA. BFM executed a topographic survey for the project. The scope of services for the project included establishing a baseline and an on-site temporary benchmark with additional TBMs at 500 foot intervals along the project route. Elevations were taken along the baseline at intervals defined in the limits of the survey and at breaks in grade. Improvements within the designated limits of survey were plotted; as were above-ground utilities and those underground utilities with visible surface evidence. Boundary corners were located along the route to assist in determining widths of any existing rights of way. (\$53,357 (fee); 2015)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement. This included the area of Iris Avenue from River Road to Jefferson Highway, on Lance Street and Jeanette Streets from Iris A venue to Brooklyn A venue. As executed, the surveys extended from right of way to right of way. (\$18,493 (fee); 2011)

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>Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Grand Isle, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson LA 70123</p> <p>Reda M. Youssef, P.E., Director, 504-736-6833</p>	<p>BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud. In a previous project for the Parish (BFM 7317; Fifi Island/Bayou Rigaud Water Line Location, 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approx. location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS; the RTN is maintained by LSU and allowed for sub-centimeter level accuracy with GPS. Data was delivered in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	N/A	\$363,080 (fee)

PROJECT NO. 2		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Water Department 1221 Elmwood Park Blvd Ste 909 Jefferson LA 70123</p> <p>R. Douglas Vincent, P.E., 504-838-4363 JPWater@jeffparish.net</p>	<p>The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. The length of this segment was approximately 57,400 feet. Survey probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. BFM further prepared an estimate for the Parish to provide a location survey for the water line after it was lowered.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	N/A	\$133,444 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, Louisiana</p> <p>Kyle Associates, LLC 638 Village Lane North Mandeville LA 70471</p> <p>Phil O. Nelson, P.E., 985-727-9377 pnelson@kyleassociates.net</p>	<p>BFM Corporation provided bathymetric, boundary and topographic surveying services for the project. Improvements on the site were located, as well as visible above-ground utilities & underground utilities with visible surface evidence. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey. Bathymetric surveys were tied to the U.S. Army Corps of Engineers baseline. Deliverables included indelible prints and AutoCAD DWG format drawing files.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2016	N/A	\$14,804 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Lower Lafitte Waterline Stakeout, Jefferson Parish, Louisiana</p> <p>CB&I 2424 Edenborn Avenue Suite 450 Metairie LA 70001</p> <p>Gene S. Gillen, P.E., 504-832-4881 gene.gillen@cbi.com</p>	<p>BFM Corporation 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.</p>	
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

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Belle Chasse Waterline, Phase 2, Plaquemines Parish, Louisiana</p> <p>Kyle Associates, LLC 638 Village Lane North Mandeville LA 70471</p> <p>Franklin Kyle, 985-727-9377</p>	<p>BFM executed a topographic survey for the project. The scope of services for the project included establishing a baseline and an on-site temporary benchmark with additional TBMs at 500 foot intervals along the project route. Elevations were taken along the baseline at intervals defined in the limits of the survey and at breaks in grade. Improvements within the designated limits of survey were plotted; as were above-ground utilities and those underground utilities with visible surface evidence. Boundary corners were located along the route to assist in determining widths of any existing rights of way.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2015	N/A	\$53,357 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>St. Bernard Water Distribution System Line Replacement Project (Multiple Areas), St. Bernard Parish, Louisiana</p> <p>Meyer Engineers Ltd. 4937 Hearst St. Ste. B Metairie LA 70001</p> <p>Ana Theriot, P.E., 504-885-9892</p>	<p>BFM Corporation provided surveying services at three locations for the replacement of the St. Bernard Parish water distribution system, including Reunion (from River Bend to Louis), Rowley (from Judge Perez to Parish), and Livingston (from Jean Lafitte to Packenham). The scope of work involved establishing a baseline, setting temporary benchmarks (TBMs), and taking elevations (as well as spot elevations). Improvements were located and plotted within the designated limits of survey. The location of visible above ground utilities and those underground utilities with visible surface evidence was also plotted. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were further located. Deliverables included plan and profile sheets and electronic field roll in AutoCAD DWG format, with cross-section sheets provided.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2016	N/A	\$64,104 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>River Road Water Line Replacement (Phase II), Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-7515 fliang@deii.net</p>	<p>As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willwood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were further located.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2015	N/A	\$84,700 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, Louisiana</p> <p>Brown Cunningham Gannuch 3012 26th Street Metairie LA 70002</p> <p>Ann Sprinston, 504-454-3866 asprinston@ardurragroup.com</p>	<p>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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2015	N/A	\$12,197 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>River Road Water Line, Waggaman, Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-7515 fliang@deii.net</p>	<p>As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. The topographic survey involved the route along River Road from the common boundary line between Jefferson Parish and St. Charles Parish easterly along River Road to 200 feet east of its intersection with Rivet Boulevard on the west bank of Jefferson Parish. The survey extended from right of way to right of way along River Road.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2012	N/A	\$43,211 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Iris Avenue Water Line Replacement, Jefferson Parish, Louisiana</p> <p>Lambert Engineers, LLC 650 Poydras Street, Suite 2025 New Orleans LA 70130</p> <p>Dennis Lambert, P.E., 504-529-7687</p>	<p>BFM Corporation provided topographic surveying services for the Iris Avenue Water Line Replacement. This included the area of Iris Avenue from River Road to Jefferson Highway, on Lance Street and Jeanette Streets from Iris A venue to Brooklyn A venue. As executed, the surveys extended from right of way to right of way.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2011	N/A	\$18,493 (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: 5px; margin: 10px auto; width: 80%;"> <p style="text-align: center;"><i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i></p> </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 RELEVANT PROJECT 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 and LiDAR**
- **Bathymetric / Hydrographic Surveys**
- **Property, Boundary, and Right-of-Way Surveys**
- **Maps, Cross-Sections, and Data Sets**
- **3D Laser Scanning**

TEC Professional Services Questionnaire

N. continued.

- **Benchmarks**
- **Construction-Related Surveying**
- **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 in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM). This allows 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 the projects presented in Item L of this form as well as our personnel bios for an overview of relevant project work executed by BFM Corporation.

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 OF NEWLY-ASSIGNED WORK

BFM Corporation has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. It is our continual 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**, 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.

BFM's **Chad M. Poché, P.E.** 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 throughout his career.

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 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 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 nearly 40 years with BFM. He has provided professional surveying services for **thousands of projects for and throughout Jefferson Parish**. Additional information beyond the scope of this RFQ response is available upon request.

CRITERIA 5 • LOCATION OF 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 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 7 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

For nearly 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)

Khalid L. Saleh, PhD, Capital Program Administrator, City of New Orleans Dept. of Public Works

(504-658-8000 | khsaleh@nola.gov)

Ben Lapine, Acting Director, Department of Sewerage, Jefferson Parish

(504-736-6661 | JPSewerage@jeffparish.net)

Greg Cromer, Mayor, City of Slidell

(985-646-4333 | gcromer@cityofslidell.org)

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: _____

April 21, 2023

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	09/30/2023	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329 - 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	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	03/31/2024
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 10/12/2022 to 10/12/2023 .

Certification No. 9551

Stephanie Hartman,
Director, Small Business Services

**Jefferson Parish TEC
Professional Services Questionnaire**

For

Gulf South Engineering and Testing, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services for the Grand Isle Waterline Lowering Project

SOQ 23-008 | Resolution No. 141453

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard

Kenner LA 70062

C. Name, title, & 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., Principal/Vice President

telephone 504-305-4401 • cpoche@gulfsoutheng.com

Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

D. Name, title, & 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., Principal/Vice President

telephone 504-305-4401 • cpoche@gulfsoutheng.com

Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

6	Administrative	-	Geologists	1	Graduate Engineers (EI)
-	Architects (Licensed)	1	Geotechnical Engineers	-	Project Managers
-	Chemical Engineers	-	Interior Designers	-	Clerical (<i>see Administrative</i>)
-	Civil Engineers	-	Landscape Architects	-	Grant/Funding Specialist
15	Construction Inspectors	-	Land Surveyor (<i>*see PLS</i>)	-	Sanitary Engineers
-	Ecologists	-	Mechanical Engineers	1	Construction Svcs Managers
-	Electrical Engineers	-	Environmental Engineers	1	CMT Supervisors
-	Engineer Intern	-	Specification Writers	3	CMT Project Managers
1	Professional Land Surveyors	-	Structural Engineers	1	Field Engineer
-	Estimators			2	Laboratory Manager
				2	Laboratory Technician
				1	Soil Boring Driller
				1	Soil Boring Driller Apprentice
				36	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 a 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 Prime 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 this Project:

36 (all personnel will be available to the project; individuals to be assigned)

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 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.
Vice-President

Project Assignment:

Engineering Manager; Geotechnical Engineer

Name of Firm with which associated:



Years experience with this Firm:

12 years with this firm (2011); 30 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
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 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 relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, LA. Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2014)

Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2021)

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)

Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)

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)

Water Main Improvements (5 Sites), LaPalace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. (\$15,500 (fee); ongoing)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joseph H. "Trey" Binder, III
Laboratory Manager

Project Assignment:

Laboratory Manager; Laboratory Technician

Name of Firm with which associated:**Years experience with this Firm:**

12 years with this firm (2011); 17 years total (2006)
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 2006 to 2007

Education: Degree(s)/Year/Specialization:

A.D., 2011, General Studies, Nunez Community College

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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.

- HAZMAT Awareness
- HAZMAT Operations Training
- ACI Aggregate Base Testing Technician
- ACI Concrete Strength Testing Technician

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)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Joseph H. Binder, III (continued)

Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)

Water Main Improvements (5 Sites), LaPalace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. (\$15,500 (fee); ongoing)

Williams Boulevard Street Lighting (32nd St. to Vintage Dr.), City of Kenner, LA. Geotechnical investigation for construction of street lighting on Williams Boulevard, between 32nd Street to Vintage Drive. Gulf South's scope includes drilling four soil borings each to a depth of 50 feet, lab testing (strength and classification), and geotechnical engineering analysis including allowable pile load capacities, estimates of settlement, and general construction recommendations. (\$12,000 (fee); 2016)

S. Claiborne Avenue Drainage Improvements (TRS System), Sewerage & Water Board of New Orleans, LA. Geotechnical engineering services for the drainage improvements along S. Claiborne Avenue from Ben Weiner Drive to Jefferson Avenue in Orleans Parish, which involved a temporary retaining system (TRS; a sheetpile wall for excavation). Gulf South's scope includes drilling six undisturbed soil borings to depths of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$11,000 (fee); 2021)

Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, LA. Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations. (\$9,900 (fee); 2018)

Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2021)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryson S. Beard, E.I.

Associate Geotechnical Engineer/Field Engineer

Project Assignment:

Associate Geotechnical Engineer/Field Engineer

Name of Firm with which associated:

ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

1 year with this firm (2022); 2 years total (2021)

Gulf South Engineering and Testing, Inc. | 2022 to present

TetraTech, Inc. | 2021 to 2022

Education: Degree(s)/Year/Specialization:

B.S., 2021, Geological Engineering, University of Southern Mississippi

Active registration: Year first registered/discipline:

Georgia, Engineering Intern (No. EIT029180, 2022)

Louisiana P.E. License In Process

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, E.I., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. Experience includes geotechnical engineering analyses consisting of shallow & deep foundations, slope stability, 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. This experience also includes core logging & oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. Further, Mr. Beard is a START V Region 4 Responder, and can be used whenever there is a large spill/release of harmful chemical or substance.

- 40-hour HAZWOPER (Hazardous Materials Field Work), since 2021
- Fundamentals of Engineering Exam, NCEES, 2022
- ACI Concrete Field Testing Technician - Grade I (No. 02206940)

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, E.I. (continued)

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)

Water Main Improvements (5 Sites), LaPalace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. (\$15,500 (fee); ongoing)

Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the expansion of the existing Membrane WTP project in LaPlace, LA. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$26,795 (fee); ongoing)

Wastewater Treatment Plant Improvements, Eden Isle Subdivision, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevated storage building housing six blower units and slab-on-grade supported water storage, concrete tank within the wastewater treatment plan off Lakeview Drive in Slidell, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 40 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services 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. (\$7,500 (fee); 2022)

Sewer Lift Station No. F6-2 (W. Napoleon Blvd.), Metairie, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for upgrading an existing below grade sewer lift station (No. F6-2) off West Napoleon Boulevard in Metairie, LA. Gulf South's scope includes drilling a single boring to a depth of 60 feet below the ground surface, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations. (\$5,000 (fee); 2022)

Brewster Road/LA 1077 Drainage Improvements, Madisonville, St. Tammany Parish, LA. Geotechnical engineering services for drainage improvements at the existing parish canal off LA-1077 and Galatas Road in Madisonville, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet (2 locations) and 30 feet (3 locations) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$20,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Evan O. Poché
Engineering Technician

Project Assignment:

Engineering Technician

Name of Firm with which associated:**Years experience with this Firm:**

7 years with this firm (2016); 7 years total (2016)
Gulf South Engineering and Testing, Inc. | 2016 to present
BFM Corporation, LLC | 2019 to 2020

Education: Degree(s)/Year/Specialization:

B.A., Political Science (2021; Millsaps College)
Degree Program, Criminal Justice (2016 - 2019; Mississippi College)
High School Diploma (2016; Jesuit HS; Cum Laude with Honors)

Active registration: Year first registered/discipline:**Other experience and qualifications relevant to the proposed Project:**

Since joining Gulf South, Evan Poché has served as an engineering technician with the soil boring drill crew, within the soils' laboratory, and on construction projects as needed. His duties and responsibilities have included leading a drill crew, staking boring sites, supervising clearing contractors, data entry, testing soil for engineering properties of strength and classification, soil boring logging, vibration monitoring, and concrete testing and inspection. Laboratory tests performed include unconfined shear tests, moisture content tests, density tests, Atterberg limits tests, grain size sieve analyses, organic content tests and concrete strength breaks.

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)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Evan O. Poché (continued)

Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA. Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations. (\$68,000 (fee); ongoing)

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling in St. Charles Parish, LA. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Lift Station No. 4330 Upgrade (New Wet Well), City of Kenner, LA. Geotechnical investigation related to the upgrades (below grade wet well and valve vault structures) of the existing below-grade Sewer Lift Station No. 4330 at 131 W. Esplanade Ave. in Kenner, LA. Scope involved drilling two undisturbed soil borings to depths of 70 feet (1 boring for wet well) and 15 feet (1 boring for valve pit) below the existing ground surface. Geotechnical laboratory testing was performed in accordance with the appropriate ASTM standards, this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Geotechnical evaluations (necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses) included allowable pile load capacities, estimates of settlement, below-grade foundations (as appropriate), bedding and backfill recommendations, and general construction procedures and recommendations. (\$8,500 (fee); 2022)

Dellwood Drainage Pump Station Improvement (Sun Valley Drive & Front Street), City of Slidell, LA. Geotechnical engineering services for construction improvements to the existing drainage pump station at the end of Sun Valley Drive and Front Street in Slidell, LA. Gulf South's scope of services includes drilling a single boring to a depth of 50 feet below the ground surface, laboratory testing, engineering analyses (bearing values, settlement, pile and shaft capacities) and general construction procedures and recommendations. (\$4,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ian Kerner Poché
Assistant Laboratory Supervisor

Project Assignment:

Assistant Laboratory Supervisor

Name of Firm with which associated:**Years experience with this Firm:**

6 years with this firm (2017); 6 years total (2017)
Gulf South Engineering and Testing, Inc. | 2017 to present

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:**Other experience and qualifications relevant to the proposed Project:**

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.

Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA. Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations. (\$68,000 (fee); ongoing)

Geotechnical Exploration Proposal for the Lafreniere Park Healthtrack, Metairie, Jefferson Parish, LA. Gulf South was selected to provide a Geotechnical Exploration for the project site which consists of the reconstruction of the existing exercise walkway and the addition of approximately 1,000 feet of new walkway at Lafreniere Park in Metairie, LA. The existing walkway is approximately 2.5 miles long and will consist of the removal and reconstruction of the pavement and base using an asphalt paved section.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Ian Kerner Poché (continued)

The new section will consist of a concrete paved walkway. Gulf South's scope of work includes subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon outlined project requirements. (\$12,000 (fee); 2022)

Lift Station No. 4330 Upgrade (New Wet Well), City of Kenner, LA. Geotechnical investigation related to the upgrades (below grade wet well and valve vault structures) of the existing below-grade Sewer Lift Station No. 4330 at 131 W. Esplanade Ave. in Kenner, LA. Scope involved drilling two undisturbed soil borings to depths of 70 feet (1 boring for wet well) and 15 feet (1 boring for valve pit) below the existing ground surface. Geotechnical laboratory testing was performed in accordance with the appropriate ASTM standards, this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Geotechnical evaluations (necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses) included allowable pile load capacities, estimates of settlement, below-grade foundations (as appropriate), bedding and backfill recommendations, and general construction procedures and recommendations. (\$8,500 (fee); 2022)

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling in St. Charles Parish, LA. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

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)

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)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cody Barrois
Soil Boring Driller

Project Assignment:

Soil Boring Driller

Name of Firm with which associated:**Years experience with this Firm:**

1 year with this firm (2022); 2 years total (2021)
Gulf South Engineering and Testing, Inc. | 2022 to present
Ardaman and Associates | 2020 to 2022

Education: Degree(s)/Year/Specialization:

High School Diploma, 2012 (Central Lafourche HS)

Active registration: Year first registered/discipline:**Other experience and qualifications relevant to the proposed Project:**

Cody Barrois is a soil boring driller with experience as a soil boring driller and driller's helper, and has operated truck, track, and ATV mounted drilling rigs. In addition, he has performed soil borings over water on a barge and using barge drilling equipment. Mr. Barrois is very familiar with the soils of Southeastern Louisiana.

- OSHA Basic Training
- Entergy PowerSafe Training
- Transportation Worker Identification Card (TWIC)

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, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$100,000 (fee); ongoing)

Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)

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>Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 North Causeway Blvd, Suite 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2014	N/A	\$5,000 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, Louisiana</p> <p>Ardurra Group, Inc. 3012 26th Street Metairie LA 70002</p> <p>Joe Becker, P.E., 504-454-3866 jbecker@ardurra.com</p>	<p>Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$8,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, Louisiana</p> <p>Johnson McAdams 340 Poplar View Lane East, Suite 4 Collierville TN 38017</p> <p>Chip Johnson, P.E., 901-861-4200 chipjohnson@bellsouth.net</p>	<p>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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2012	N/A	\$3,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, Louisiana</p> <p>ECM Consultants, Inc. 1301 Clearview Parkway Suite 200 Metairie LA 70001</p> <p>Susina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$35,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, Louisiana</p> <p>Barowka & Bonura Engineers & Consultants LLC 209 Canal Street Metairie LA 70005</p> <p>Jeff Bonura, P.E., 504-828-0030 jbonura@bbecllc.com</p>	<p>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 (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
ONGOING	N/A	\$100,000 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Water Main Improvements (5 Sites), LaPalace, St. John the Baptist Parish, Louisiana</p> <p>Meyer Engineers, Ltd. 4937 Hearst Street Metairie LA 70001</p> <p>Eric Colwart, P.E., 504-885-9892 colwart@meyer-e-l.com</p>	<p>Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
ONGOING	N/A	\$15,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>S. Claiborne Avenue Drainage Improvements (Temporary Retaining System), Sewerage & Water Board of New Orleans, Louisiana</p> <p>Meyer Engineers, Ltd. 4937 Hearst Street, Suite 1B Metairie LA 70001</p> <p>Jitendra Shah, P.E., 504-885-9892 jshah@meyer-e-l.com</p>	<p>Geotechnical engineering services for the drainage improvements along S. Claiborne Avenue from Ben Weiner Drive to Jefferson Avenue in Orleans Parish, which involved a temporary retaining system (TRS; a sheetpile wall for excavation). Gulf South's scope includes drilling six undisturbed soil borings to depths of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2021	N/A	\$11,000 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, Louisiana</p> <p>City of Slidell Engineering Department Post Office Box 828 Slidell LA 70459</p> <p>Blaine Clancy, P.E., 985-646-6124 bclancy@cityofslidell.org</p>	<p>Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2018	N/A	\$9,900 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Williams Boulevard Street Lighting (32nd Street to Vintage Drive), City of Kenner, Louisiana</p> <p>Rahman & Associates, Inc. 3645 Williams Blvd. Ste. 208 Kenner LA 70065</p> <p>Tafoor Hameed, P.E., 504-469-0022 tafoor@bellsouth.net</p>	<p>Geotechnical investigation for construction of street lighting on Williams Boulevard, between 32nd Street to Vintage Drive. Gulf South's scope includes drilling four soil borings each to a depth of 50 feet, lab testing (strength and classification), and geotechnical engineering analysis including allowable pile load capacities, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	N/A	\$12,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, Louisiana</p> <p>Rahman & Associates, Inc. 3645 Williams Blvd Ste 208 Kenner LA 70065</p> <p>Tafoor Hameed, P.E., 504-469-0022 tafoor@bellsouth.net</p>	<p>Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2015	N/A	\$7,500 (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. N/A		
2.		
3.		
4.		

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



CRITERIA 1 • PROFESSIONAL TRAINING AND RELATED 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 over two 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 & Regional Transit Authority-recognized small business in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.

TEC Professional Services Questionnaire

N. continued.

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.

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. **Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.**

TEC Professional Services Questionnaire

N. continued.

Construction Materials Testing & Inspection

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

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

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

CRITERIA 2 • SIZE OF FIRM

At nearly three dozen 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 is able to readily meet the time and budget constraints for projects assigned to this contract. Our current work load is such that we can expeditiously complete projects for this contract.

CRITERIA 3 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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 Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana for since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

As evidenced in the provided projects & personnel résumés, key personnel past 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 are able to submit data in formats acceptable and customized to our clients' needs.

Further, Gulf South continues to expand its staff and mentor the next generation of geotechnical engineers and professionals. One of our newest employees, Sara E. Lockwood, is a recent UNO Civil Engineering graduate who is working with our seasoned professionals in the challenging field of geotechnical engineering in the State of Louisiana. She has already gained extensive experience working on projects since joining the firm in 2019 and will continue to expand her knowledge and skill set working with our firm.

TEC Professional Services Questionnaire

N. continued.

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. This would include, **but not be limited to**, the following:

- *N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA*
- *Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Westgate Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*
- *Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA*
- *Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA*
- *Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA*
- *Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA*
- *David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA*
- *Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA*
- *Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, Jefferson Parish, LA*
- *Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA*
- *Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA*
- *New Building and Paved Areas, Jefferson Parish Transit Facility, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Training Facility - New Airnasium and Paved Areas, Jefferson Parish Fire Dept., Bridge City, Jefferson Parish, LA*
- *New Library Building (US90 & Avondale Garden Road), Avondale, Jefferson Parish, LA*
- *Jefferson Parish Fire Fleet Maintenance Facility - New Paved Areas, Jefferson Parish, LA*
- *Harvey Volunteer Fire Department New Truck Maintenance Facility (Rochelle Ave), Harvey, Jefferson Parish, LA*
- *New Charter School – Behrman Highway, Terrytown, Jefferson Parish, LA*
- *Jefferson Parish Department of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA*
- *Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA*
- *Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA*
- *West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA*
- *Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA*
- *Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA*
- *Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA*
- *New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA*
- *St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA*
- *Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA*
- *Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA*

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.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 • LOCATION OF PRINCIPAL OFFICE

Gulf South is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner, Louisiana.

CRITERIA 6 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

See *Item M*; Gulf South has not been involved in litigation with Jefferson Parish.

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. We are proud that a majority of its work is from repeat clients –we complete our projects on-time and within budget. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).**

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)

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

Khalid L. Saleh, PhD, Capital Program Administrator, Public Works Dept., City of New Orleans
(504-658-8000 | khsaleh@nola.gov)

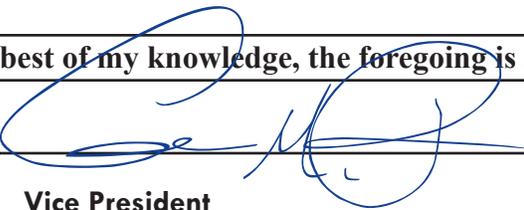
Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stpgov.org)

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: _____

Vice President

Date: _____

April 19, 2023

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 1/26/2023 to 1/26/2024 .

Certification No. 11011

A handwritten signature in black ink, reading "Stephanie Hartman", is written over a horizontal line.

Stephanie Hartman,
Director, Entrepreneurial Services





Regional Transit Authority

July 28, 2022

Cassandra Poche
Gulf South Engineering and Testing Inc
15 Veterans Memorial Blvd
Kenner, LA 70062

Dear Ms. Poche:

The Regional Transit Authority (RTA) have received your firm's Small Business Enterprise (SBE) annual affidavit. Based on the information, which you provided, it has been confirmed that your firm continues to meet the eligibility requirements of our program.

Your firm remains certified in the SBE Program until there are any changes to your company or to your personal net worth that exceed the SBE eligibility criteria. Please note that you must notify our office immediately regarding any changes which affect the economic disadvantage, size, ownership or control of your firm.

In order to main eligibility, you are required to submit an annual affidavit stating that your firm continues to meet the eligibility requirements of the program. If you are both DBE and SBE certified, you will receive a Disadvantaged Business Enterprise Annual Affidavit approximately 4 weeks prior to your DBE Certification anniversary date. The annual affidavit for the DBE program will automatically apply to your SBE certification. If you are SBE certified only, you will receive a Small Business Enterprise Annual Affidavit approximately 4 weeks prior to your SBE Certification anniversary date.

We reserve the right to withdraw this certification if at any time it is determined that SBE certification knowingly obtained by the submission of false, misleading, or incorrect information. We further reserve the right to request additional information and/or conduct an on-site visit at any time during your certification period.

If we can be of further assistance, please contact the Office of Small Business Development at (504) 827-8301.

Sincerely,

A handwritten signature in purple ink that reads "Adonis C. Expose".

Adonis C. Expose
DBE/SBE Liaison Officer III





CERTIFICATE OF ACCREDITATION



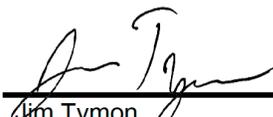
Gulf South Engineering and Testing, Inc.

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 01/16/2023 at 1:03 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory





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:

09 SEP 2022 AT 11:51 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 04/12/2024

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

A handwritten signature in black ink, appearing to read "Chad A. Gartrell", is written over a horizontal line.

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

