

An aerial photograph of a coastal region. The top half shows a wide expanse of water with several small, green, marshy islands or peninsulas. The bottom half shows a closer view of a shoreline with a dense line of green trees and a small, light-colored pier or dock extending into the water. The sky is overcast with soft, grey clouds.

STATEMENT OF QUALIFICATIONS:

24-020 COASTAL ENGINEERING SERVICES
AS NEEDED PARISH WIDE

JULY 16, 2024

PRESENTED TO: JEFFERSON PARISH PURCHASING DEPARTMENT

SUBMITTED BY: ROYAL ENGINEERS & CONSULTANTS, LLC

JULY 16, 2024

COVER SHEET
Jefferson Parish
SOQ No. 24-020
Resolution No. 144205

STATEMENTS OF QUALIFICATIONS:

JEFFERSON PARISH TECHNICAL EVALUATION COMMITTEE (TEC) PROFESSIONAL SERVICES QUESTIONNAIRE

COASTAL ENGINEERING CONSULTING SERVICES AS NEEDED PARISH WIDE

Royal Engineers and Consultants, LLC
1501 Religious Street, Suite C
New Orleans, Louisiana 70130
504.283.9400 (O) 504.283.9001 (F)

Primary Contact
Michael Pugh, P. E.
President
mpugh@royalengineering.net

Table of **CONTENTS**

PRIME TEC FORM

ROYAL ENGINEERS AND CONSULTANTS, LLC

SUB TEC FORM

T. BAKER SMITH

GEOENGINEERS

THOMPSON

EMERGENT METHOD

ELOS ENVIRONMENTAL



TEC FORM

ROYAL ENGINEERS AND CONSULTANTS, LLC

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-020 Coastal Engineering Consulting Services as needed Parish Wide
Resolution 144205 Jefferson Parish Department of Ecosystem and Coastal Management

B. Firm Name & Address:

Royal Engineers and Consultants, LLC
1501 Religious Street
New Orleans, Louisiana 70130

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



Michael L. Pugh, P.E. (Fulfills minimum requirement #1)
President, Principal
504-283-9400
mpugh@royalengineering.net

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.



T. Mitchell Andrus, Ph.D., P.E. (Fulfills minimum requirements #2 & #3)
Executive Vice President, Principal
337-456-5351
mandrus@royalengineering.net

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

11	Administrative	0	Estimators	0	Specification Writers
3	Architects (Licensed)	0	Geologists	2	Structural Engineers
0	Chemical Engineers	0	Geotechnical Engineers	0	Graduate Engineers
5	Civil Engineers	0	Interior Designers	14	Project Managers
11	Construction Inspectors	0	Landscape Architects	10	Clerical
0	Ecologists	0	Land Surveyor	4	Grant/Funding Specialist
0	Electrical Engineers	0	Mechanical Engineers	0	Sanitary Engineers
5	Engineer Intern	1	Environmental Engineers	27	Other
0	Professional Land Surveyors			83	TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. T. Baker Smith, LLC 17534 Old Jefferson Highway, Suite D-1 Prairieville, LA 70769	Surveying Services; Structural Engineering	Yes
2. GeoEngineers, Inc. 11955 Lakeland Park Blvd. Suite 100 Baton Rouge, LA 70809	Geotechnical Engineering	Yes
3. Thompson Engineering, Inc., of Louisiana 14635 S. Harrell's Ferry Rd. Suite4-A Baton Rouge, LA 70816	Geotechnical and Structural Engineering	Yes
4. Emergent Method, LLC 200 Laurel St. Suite 200 Baton Rouge, LA 70801	Outreach and Engagement	Yes
5. ELOS 607 W. Morris Street Hammond, LA 70403	Environmental	Yes

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

43

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.

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:		
Name & Title:		
T. Mitchell Andrus, Ph.D., P.E. Executive Vice President, Principal		
Project Assignment:		
Professional In Charge		
Name of Firm with which associated:		
Royal Engineers and Consultants, LLC		
Years' experience with this Firm:		
16		
Education: Degree(s)/Year/Specialization:		
PhD	2020	Geology and Geophysics
MS	2007	Oceanography and Coastal Science
BS	1997	Major- Civil Engineering, Minor- Environmental Engineering
Active registration: Year first registered/discipline:		
Professional Engineer	2002	Discipline: Civil
Other experience and qualifications relevant to the proposed Project:		
<p>Dr. Mitch Andrus is uniquely qualified to lead coastal engineering projects for Jefferson Parish. Coastal engineering planning and design projects are often more complex in design, and typically require a more significant bench of expertise in coastal science disciplines. Dr. Andrus is the rare resource that understands and has practical experience in both worlds. He possesses formal education in civil and environmental engineering and advanced education in coastal science disciplines. Additionally, Dr. Andrus has the practical background in managing complex coastal projects over the last 20 years.</p> <p>Dr. Andrus' base of knowledge and practical experience includes a variety of engineering, regulatory, and environmental federal and state agencies, including the USACE, NMFS, NRCS, EPA, FWS, LDNR as well as many local governmental entities. Dr. Andrus has an extensive background in scientific research, field investigations, project design and management, permit coordination, feasibility studies, and technical writing. Coursework completed through his doctorate included coastal engineering, physical oceanography, geological oceanography, deltaic geology, estuarine ecology, satellite oceanography, and sediment radiochemistry.</p> <p>Over the course of his coastal career, he has analyzed sediment movement and accumulation with respect to wave climate, forecasted deltaic growth curves, performed hydraulic calculations on freshwater and sediment diversions, articulated results of storm surge models, quantified sand volumes based on geophysical and geotechnical data, specified shoreline protection measures, estimated dredging costs for a variety of methods and environments, and projected habitat benefits associated with most of these efforts.</p>		

TEC Professional Services Questionnaire

Principal, Bayou Lafourche Fresh Water Introduction

Oversaw a team assisting the Bayou Lafourche Fresh Water District (BLFWD) with an environmental benefits assessment of a freshwater diversion from the Mississippi River into Bayou Lafourche at Donaldsonville, Louisiana. Provided advisory and governance oversight for the study, which included a modeling simulation plan and budget to assess long-term landscape changes in vegetation and wetland morphology due to the proposed freshwater reintroduction. The project utilized the RMA modeling suite (RMA2, RMA11) to calculate 1D/2D hydrodynamics, including salinity and temperature transport. The highly refined spatial and temporal scales of hydrodynamics were used to drive offline Vegetation Change and Wetland Morphology models.

Senior Engineer, CPRA Outcome Based Performance Contracting Findings and Recommendations and Phase II

Provided principal oversight for engineering analyses and cost estimates for the Coastal Protection and Restoration Agency (CPRA) for the Outcome Based Performance Contracting (OBPC) initiative. Offered technical guidance on developing performance criteria to measure OBPC projects, created a payment schedule based on project milestone completion, and incentivized project performance. Conducted independent cost estimates using traditional design-bid-build methodology, employing both top-down methods (historical bids used to develop unit costs) and bottom-up methods (estimations based on actual costs, production rates, overhead, profit, etc.). Delivered cost estimates for each proposal to CPRA for comparison.

Principal, 2022 LMRMP Program and Cost Management Support

Provided programmatic support to CPRA for managing the Lowermost Mississippi River Management Program (LMRMP), funded through a \$9.3 million RESTORE Act grant. Reviewed and provided feedback on technical reports generated by The Water Institute and offered strategic guidance to CPRA on developing Mississippi management alternatives and a modeling framework. Additionally, Mr. Andrus led the development of potential sand resource management alternatives and estimation of costs for moving sand from the Mississippi River to barrier islands along the Louisiana coast spanning from the Caminada Headlands to Sandy Point. Royal's work included development of sand transport and stockpile alternatives, evaluation of the developed alternatives, and development of 50-year project costs for each alternative.

Senior Engineer, SBPG East Bank Sediment Transport Corridor Final E&D

Oversaw the development of feasible alternatives for long-distance sediment transport delivery from the Mississippi River. The project, jointly funded by CPRA and the St. Bernard Parish Government, aimed to restore eroded marshlands within the 300,000+ acre Breton Sound Basin by installing a permanent transport corridor to reduce costs for subsequent restoration projects and provide a long-term restoration plan. Responsible for designing the corridor, Royal's tasks included delineating potential borrow areas within the Mississippi River without affecting the mandated navigation channel, identifying priority areas for marsh creation and restoration, evaluation of alternatives for the corridor's location and configuration, and development of preliminary and final design documents including plans and specifications.

Principal, Iberia Parish Water Control Structures

Served as Principal for designing water control structures near the downstream terminations of six drainage canals crossing the Iberia Parish Levee, Hurricane, and Conservation District Coastal Protection Master Plan levee alignment to combat high tide events and reintroduce rainfall runoff storage capacity. As the prime designer, Royal's tasks included site assessment via in-field data collection, hydrologic and hydraulic modeling of the watershed area and drainage system, selection, design, and permitting of the water control structure, construction management, and general project management. Reviewed HEC-HMS hydrologic and HEC-RAS hydraulic models to assess multiple tide and rainfall scenarios and oversaw coastal processes modeling to determine project impacts on adjacent marshlands and port infrastructure.

Senior Engineer, Iberia Parish Master Plan Enhancements

Updated a comprehensive Master Plan to provide Iberia Parish with necessary flood and hurricane protection, including a Phasing Plan for the 26-mile earthen levee project and a preliminary implementation schedule considering funding sources, geography, and related work. Ensured consistency with CPRA South Central Study and other relevant studies. Initiated preliminary permitting work for priority phases and reviewed funding sources, including BP Oil Spill, CDBG, and the Gulf of Mexico Energy Security Act. Led Hydrologic & Hydraulic analyses to determine the necessary design parameters for the levee within the Master Plan.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:		
Name & Title:		
Kirk Rhinehart Executive Vice President, Principal		
Project Assignment:		
Environmental and Permitting Services		
Name of Firm with which associated:		
Royal Engineers and Consultants, LLC		
Years' experience with this Firm:		
11		
Education: Degree(s)/Year/Specialization:		
MS	1994	Oceanography and Coastal Sciences
BS	1989	Ecology
Active registration: Year first registered/discipline:		
N/A		
Other experience and qualifications relevant to the proposed Project:		
<p>Mr. Rhinehart is a seasoned scientist, planner, and program director with a 34-year career focused on Louisiana's coastal issues. With a background in Biology and Oceanography, he has led pivotal initiatives integrating science into decision-making, including the \$50billion 2012 Louisiana Coastal Master Plan. His leadership extends to board roles such as the Oyster Lease Damage Evaluation Board and legislative contributions like Act 425, establishing the Oyster Lease Acquisition and Compensation Program. Recognized for his contributions with awards like the Louisiana Professional Conservationist of the Year, Mr. Rhinehart's work combines scientific expertise with policy acumen to advance ecosystem restoration and sustainable coastal management strategies.</p> <p>Principal, CPRA Outcome Based Performance Contracting</p> <p>Project Principal responsible for assisting CPRA with the development of a large-scale marsh creation project using the OBPC procurement methodology passed by the Louisiana Legislature (R.S. 49:214). The intent of OBPC was to leverage the capacity of private entities to finance projects up front, with payment for successful project delivery to come in the medium term from funds that will become available later, such as the Deepwater Horizon Natural Resource Damages Fund.</p> <p>Mr. Rhinehart led CPRA's OBPC process through developing a RFP and coordinating the review of proposals by the LA TIG Small Screening Team and CPRA Technical Review Committee, which ultimately resulted in a consensus proposer decision. Mr Rhinehart also guided the completion of cost analyses and Value for Money (VFM) assessments for each of the proposed projects and was a critical leader in subsequent meetings with proposers, bankers, and stakeholders to understand the drivers of the high project costs received.</p>		

TEC Professional Services Questionnaire

Senior Planner, Iberia Parish Master Plan Enhancements

Senior Planner responsible for updating the Iberia Parish Comprehensive Master Plan to provide the Parish necessary flood and hurricane protection. The update included a Phasing Plan for the 26-mile earthen levee project, as well as a preliminary implementation schedule which considered funding sources, geography, and related work. The Phasing Plan ensured consistency with the CPRA Coastal Master Plan and the South-Central Study. Preliminary permitting work was also initiated for project phases. The funding analysis evaluated BP Oil Spill, CDBG, Gulf of Mexico Energy Security Act, and local taxes as potential sources.

Principal, Oyster Activities and Restoration Initiative

Principal on team responsible for project management and delivery and as the primary point of contact with CPRA and Louisiana Department of Wildlife and Fisheries (LDWF). Mr. Rhinehart was responsible for project management and delivery of the Oyster Activities and Restoration Initiative and served as the primary point of contact with CPRA and LDWF throughout the project span. Under his leadership, the team successfully identified and compiled oyster resource suitability which was then utilized by decision makers to better identify, mitigate, and resolve potential conflicts between Louisiana's coastal user groups. The outcome of this effort is a foundational component of the decision support tool underlying CPRA Master Planning efforts and LDWF's Oyster Strategic Plan.

Principal, Lafourche Parish Government Accelerated Restoration

Principal on team collaborating with LPG staff and stakeholders to identify and prioritize coastal restoration projects. Priority projects were consistent with the State's Coastal Master Plan and other local, state, and federal planning processes. Following project identification, preliminary engineering and design has been initiated to produce design drawings for initial permitting. In parallel, the projects will be discussed with potential funders to identify opportunities for full design and construction funding.

Principal, LA TIG Restoration Plan/Environmental Assessment

Principal in charge of consulting team (CEC, Lynker) working with CPRA and the LA Trustee Implementation Group (TIG) to develop and complete Restoration Plan and Environmental Assessment #7: Restore Wetlands, Coastal, Nearshore Habitats, and Birds in coastal Louisiana. The Restoration Plan (RP) / Environmental Assessment (EA) helped to restore and conserve habitat injured in the State of Louisiana as a result of the Deepwater Horizon oil spill that occurred in 2010.

Senior Planner, SBPG East Bank Sediment Pipeline

Senior Planner on the design team responsible for full design of the sediment pipeline corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound and the Pontchartrain Basin. Elements of the project included data collection from existing sources such as CPRA, USACE, CRMS, LDWF, etc. and project area conditions such as available borrow quantities within the river, tidal datums, forecasted land loss, oyster leases, active oil and gas pipeline and wells, wetland and vegetation classifications, wildlife habitat, threatened species, social vulnerability, and critical infrastructure of note. Mr. Rhinehart provided input on all alternative corridor alignments and configurations, and acted as liaison between entities including landowners, governing agencies and commercial dredgers.

Principal, St. Bernard Parish Government Coastal Master Planning

Led development of a detailed Master Plan and Implementation Strategy for restoration projects within the Parish. This included engaging CPRA and USACE to understand State and Federal priorities and opportunities to leverage funding. All projects were developed based on consistency with the CPRA Master Plan and prioritized based on feedback from St. Bernard Parish Government and other metrics.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael L Pugh, PE President, Principal
Project Assignment:
Professional Engineer (Civil), Construction Management Subject Matter Expert
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
19
Education: Degree(s)/Year/Specialization:
BS 1997 Civil Engineering
Active registration: Year first registered/discipline:
2003 Professional Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Pugh has 27 years of experience in Engineering and Construction Management and is one of the foremost experts in construction management standards, processes and outcomes in overseeing the successful implementation of infrastructure projects on the Gulf Coast, in water, sewer, roadway, and coastal infrastructure.</p> <p>Principal, Iberia Parish Master Plan Enhancements</p> <p>Principal responsible for updating the Iberia Parish Comprehensive Master Plan to provide the Parish necessary flood and hurricane protection. The update included a Phasing Plan for the 26-mile earthen levee project, as well as a preliminary implementation schedule which considered funding sources, geography, and related work. The Phasing Plan ensured consistency with the CPRA Coastal Master Plan and the South-Central Study. Preliminary permitting work was also initiated for project phases. The funding analysis evaluated BP Oil Spill, CDBG, Gulf of Mexico Energy Security Act, and local taxes as potential sources.</p> <p>Principal, SBPG East Bank Sediment Pipeline</p> <p>Principal responsible for the design and construction of the sediment pipeline corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound and the Pontchartrain Basin. Elements of the project included data collection from existing sources such as CPRA, USACE, CRMS, LDWF, etc. and project area conditions such as available borrow quantities within the river, tidal datums, forecasted land loss, oyster leases, active oil and gas pipeline and wells, wetland and vegetation classifications, wildlife habitat, threatened species, social vulnerability, and critical infrastructure of note. Mr. Pugh provided input on all alternative corridor alignments and configurations, and acted as liaison between entities including landowners, governing agencies and commercial dredgers.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:		
Name & Title:		
Beau J. Tate, PE Senior Engineer		
Project Assignment:		
Senior Engineer		
Name of Firm with which associated:		
Royal Engineers and Consultants, LLC		
Years' experience with this Firm:		
16		
Education: Degree(s)/Year/Specialization:		
BS 1998 Major- Environmental Engineering, Minor- Civil Engineering		
Active registration: Year first registered/discipline:		
2004 Professional Engineer		
Other experience and qualifications relevant to the proposed Project:		
<p>Mr. Tate is a highly skilled and experienced Senior Design Engineer with a robust background in coastal, environmental and civil engineering. With a focus on coastal restoration, habitat enhancement, and flood protection, he has successfully led and contributed to numerous high-impact projects. Mr. Tate's expertise encompasses data analysis, hydraulic and hydrologic modeling, design engineering, and quality assurance/quality control (QA/QC) services. Certifications include: USACE Construction Quality Management for Contractors and National Highways Institute – NEPA and Transportation Decision Making. Memberships include: American Society of Civil Engineers (ASCE) President – State Board and Coasts, Oceans, Ports & Rivers (COPRI).</p> <p>Senior Engineer, MRGO Closure Structure Modification</p> <p>Served as the Senior Engineer assisting St. Bernard Parish Government with the analysis of modifying the existing MRGO closure structure. The modification aimed to allow passage of recreational and shallow-draft commercial vessels while alleviating the dead zone adjacent to the structure, maintaining desired habitat conditions, and not increasing storm surge. Responsibilities included preparing a data gap analysis report, developing a modeling work plan, and overseeing the development of permit drawings to satisfy Coastal Use Permit requirements.</p> <p>Senior Engineer, LDWF Bird Island/Marsh Island</p> <p>Served as the Senior Engineer for a project providing professional engineering services for an analysis of three potential bird nesting sites on the Marsh Island Refuge. Supervised analysis and work, including settlement for a 20-year design life, subsidence, depth of fill, quantity calculations, borrow area identification, cost estimates, and the review of permit drawings.</p>		

TEC Professional Services Questionnaire

Senior Engineer, Iberia Parish Water Control Structures

Served as the Senior Engineer for a project involving regional flood protection for Iberia Parish associated with multiple tidally influenced drainage canals. Responsibilities included overseeing hydraulic/hydrologic modeling to determine flow characteristics, designing flood control gates to prevent upstream flooding, and ensuring still water elevations within the channels do not increase. Conducted technical reviews on deliverables, including hydrologic & hydraulic (H&H) modeling, permit documents, civil engineering design, quantity takeoffs, construction cost estimates, design documentation, and preparation of plans and specifications.

Senior Engineer, Fourchon Island Sediment Availability Analysis

Served as a Senior Engineer responsible for QA/QC in the analysis of sediment availability for the Greater Lafourche Port Commission (GLPC) for the Fourchon Island Expansion Project. Analyzed the proposed site elevation to resist storm surge flooding, assessed the suitability of underlying soils, and estimated required sediment volumes for project construction. Conducted settlement range estimations, georectified plans, and created storm surge estimates based on numerical models and digital elevation models.

Senior Engineer, SBPG East Bank Sediment Pipeline.

Served as Senior Engineer overseeing the design of a sediment delivery corridor through Plaquemines and St. Bernard Parishes, intended to deliver dredged sediment from the Mississippi River to marsh creation areas in the Breton Sound and Pontchartrain Basin. Responsibilities include QA/QC services for data gathering, alternatives evaluations, contract scoping, cost estimating, preliminary design drawings, and production of a preliminary design report.

Senior Engineer, Lake Lery Phase 3 Marsh Creation ITR

Served as a Senior Engineer providing Independent Technical Review (ITR) services for the Lake Lery Marsh Creation and Rim Restoration - Phase III project for St. Bernard Parish Government (SBPG). Responsibilities included developing the Scope of Services to assist SBPG in soliciting proposals for design and engineering, coordinating with the client and engineering team, and reviewing deliverables and providing recommendations.

Senior Engineer, Line 7 Replacement - Preliminary Design

Served as a Senior Engineer for the preliminary engineering and permitting of the restoration of emergent intertidal marsh damaged by the replacement of Colonial Pipeline's Line 7 pipeline. The project aimed to restore approximately six acres of intertidal marsh by hydraulically dredging fill material from adjacent lakes. Responsibilities included managing the preliminary engineering and design, as well as overseeing all aspects of the permitting process.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Mandy Green, Ph.D. Senior Scientist
Project Assignment:
Senior Scientist, Environmental and Permitting Services
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
PhD 2012 Geography
MS 2004 Environmental Studies
BS 2002 Sustainable Agriculture
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Dr. Green is a Senior Scientist and planner experienced in integrated coastal restoration and risk reduction planning, ecosystem and risk assessment model development and application, flood risk and resilience planning, and coastal adaptation. Dr. Green spent 14 years at CPRA where she worked collaboratively with scientists, engineers, planners, and other technical professionals on a variety of projects including the 2012 and 2017 Coastal Master Plans, the Flood Risk and Resilience Program, and Landscape and Flood Risk Modeling Project. Dr. Green is responsible for providing coastal science and planning subject matter expertise to local, state, and federal agencies/programs operating within Louisiana. Dr. Green's expertise is in developing science-based performance criteria, monitoring, and measurement protocols for sediment diversion, marsh creation, and ridge restoration projects. Dr. Green has practical experience developing restoration planning documents as required by OPA/NRDA, and in leading the development of federal, state, and local coastal master planning efforts for restoration and flood risk reduction.</p> <p>Project Manager, MRGO Closure Structure Modification</p> <p>Assisted St. Bernard Parish Government with analysis regarding modifying the existing Mississippi River Gulf Outlet closure structure to allow passage of recreational and shallow-draft commercial vessels and alleviate the dead zone adjacent to the structure, while also maintaining desired habitat conditions and not increasing storm surge in the affected area. Tasks included preparation of a data gap analysis report and a modeling workplan to address engineering and environmental concerns that have arisen as part of the regulatory process. These documents were informed by coordination with federal and state agency stakeholders as well as public entities. Consultation with the USACE and the LA DNR OCM will continue throughout the regulatory process.</p>

TEC Professional Services Questionnaire

Senior Scientist, Atchafalaya Basin Master Plan Development

Senior Scientist responsible for team providing support to CPRA in updating the Master Plan to address issues related to recreational access, navigation, sedimentation, hydrologic changes, and recreational and commercial fisheries. Responsibilities include program management, boundary determination, data gap analysis, decision framework development, project development, tool development (modeling and project prioritization), data management, and outreach and engagement.

Senior Scientist, Atchafalaya Master Plan Development

Senior Scientist responsible for team providing support to CPRA in updating the Master Plan to address issues related to recreational access, navigation, sedimentation, hydrologic changes, and recreational and commercial fisheries. Responsibilities include program management, boundary determination, data gap analysis, decision framework development, project development, tool development (modeling and project prioritization), data management, and outreach and engagement.

Senior Scientist, LPG Accelerated Restoration

As Senior Scientist, Dr. Green collaborated with LPG staff and stakeholders to identify priority coastal restoration projects for their value, consistency, and alignment with the State's Coastal Master Plan and other local, state, and federal planning requirements. Following the project identification phase, consulted with preliminary engineering and design teams to aide in initiation and review of design drawings for initial permitting.

Project Manager, CPRA Bayou Terrebonne EID and BE

As Project Manager, Dr. Green was responsible for overall planning and was the lead scientist for development and finalization of the LA TIG Environmental Information Document (EID) and Biological Evaluation (BE) for the Terrebonne Basin Ridge and Marsh Creation Project: Bayou Terrebonne Increment. Responsibilities included development of draft and final versions of the EID and BE, incorporation of comments from the LA TIG, regular coordination with CPRA staff from the Executive, Planning, and Project Management Divisions, and project coordination, management, and delivery.

Project Manager, 2022 LMRMP Program and Cost Management Support

The LMRMP Program is funded through a \$9.3 million grant from the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act. Dr. Green provides programmatic support to CPRA for management of the LMRMP. This includes development of a program schedule, technical overviews of programmatic tasks, and a communications plan. Dr. Green also leads tracking team and task progress via regularly occurring calls and written correspondence and provides technical support and guidance on tasks as requested.

Project Manager, LaNERR Site Selection & Nomination

As Project Manager, Dr. Green provides overall programmatic support to Louisiana Sea Grant and CPRA to facilitate the selection of a National Estuarine Research Reserve (NERR) in Louisiana. Responsibilities include providing strategic advice and guidance on planning and execution of the site designation process required by NOAA for NERR Site Selection and Nomination, assisting with development of a programmatic schedule and workplan for engagement with the 80-member Site Development Committee, providing support for the public outreach and education component of this effort, providing feedback on written materials as requested by the client, developing a draft and final Environmental Impact Statement, and developing a draft and final Management Plan for the NERR.

Project Manager and Senior Planner, OCD Watershed Initiative Program Mgmt

Dr. Green provided consulting services related to implementation of recommendations for the Louisiana Watershed Initiative Operational Guidance for State Agencies (OGSA) and provided support for Round 2 of the Local and Regional Projects Program. The purpose of the OGSA is to increase policy and programmatic alignment among state agencies in advance of the State Watershed Plan and to demonstrate leadership in carrying out the LWI vision. Tasks have included development of a list of common data to be collected for every nonstructural elevation and acquisition project funded through state agencies and development of a consolidated list of potential funding sources for flood risk reduction projects. Round 2 tasks have included development of the pre-application survey, including questions related to the funding and feedback initiative, development of associated processes and timelines, and screening applications for eligibility.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Carter O'Brien, P.E. Project Manager Manager
Project Assignment:
Construction Management Lead
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
BS 2013 Civil Engineering
Active registration: Year first registered/discipline:
2019 Professional Engineer, Civil
Other experience and qualifications relevant to the proposed Project:
<p>Mr. O'Brien is an experienced Construction Project Manager with a proven track record in managing and delivering high-profile infrastructure projects. With a strong background in construction administration, quality assurance, and project management, he has successfully led numerous projects to completion, ensuring adherence to timelines, budgets, and quality standards. Certifications include: Pervious Concrete Technician; OSHA 10 and Trenching and Shoring; and LA Specific Traffic Control Technician.</p> <p>Construction Project Manager, Mid Barataria Sediment Diversion Quality Assurance Services</p> <p>Led the construction administration and quality assurance team in support of the Mid-Barataria Sediment Diversion Project (BA-0153), which is being constructed to reconnect and re-establish the natural deltaic sediment deposition process between the Mississippi River and the Barataria Basin to build, sustain, and maintain land. Developed and delivered QA plan, provided daily QA activity reports, and performed and provided submittal review comments.</p> <p>Construction Project Manager, Bayou Terre Aux Boeufs</p> <p>Led the construction management team for the Bayou Terre Aux Boeufs project, overseeing all phases from planning to execution. Responsibilities included coordinating with subcontractors, ensuring compliance with safety regulations, managing project timelines, and monitoring budget adherence. Provided technical guidance and resolved on-site issues to ensure successful project completion.</p> <p>Project Manager, Poland Avenue Fender Repair</p> <p>Managed the construction and inspection of the Poland Avenue Wharf. Responsibilities included pile removal, timber curb removal and replacement, and fender installation to replace existing timber chocking and concrete-filled steel pipe piles. Ensured project milestones were met on time and within budget while maintaining high-quality standards.</p>

TEC Professional Services Questionnaire

Project Manager, PONO CM-Est Nashville Wharf Phase II

Managed construction management services for the repair of the Nashville Wharf "A" facility on the Mississippi River. Responsibilities included cost estimating, constructability reviews, document control, field representation, and project closeout support. The project involved repairing the substructure of a 2,400 linear feet long and 214 feet wide wharf supported by approximately 5,371 steel piles.

Project Manager, PONO Jourdan Road Wharf Substructure CMS

Managed construction management services for the repair of the wharf substructure at the Jourdan Road Terminal on the Gulf Intracoastal Waterway. Responsibilities included constructability reviews, document control, field representation, and project closeout support. The existing wharf measures 1,400 linear feet long by 265 feet wide, consisting of pre-cast and cast-in-place deck elements supported by 2,000 open-ended steel pipe piles.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
William Fontenot, P.E. Senior Engineer
Project Assignment:
Structural Engineer
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
BS 2012 Civil Engineering
Active registration: Year first registered/discipline:
2016 Professional Engineer, Civil
Other experience and qualifications relevant to the proposed Project:
<p>Senior Program Manager, Ironton Mitigation Planning and Program</p> <p>Senior program manager responsible for assisting CPRA in establishing a construction program which would provide elevated foundations for manufactured home construction. Directed a team responsible for public outreach and engagement, developing program scope and standards, participating in community meetings, performing inspections, developing RFPs for construction, acting as a subject matter expert in construction.</p> <p>Senior Engineer (Structural SME), SBPG East Bank Sediment Transport Corridor</p> <p>Senior Structural engineer and SME for design of sheetpile bulk heads, bank stability of canal crossings, structural design of pipe culverts crossing below a major highway, and general QAQC of final design drawing package.</p> <p>Senior Engineer (Structural SME), Jefferson Canal Flood Control Structure</p> <p>Senior Structural engineer and SME responsible for the oversight of the structural team's design of a concrete water control structure including deep pile foundation design and capacity, construction feasibility, cast-in-place concrete design, and general QAQC of final design drawing package.</p> <p>Senior Engineer (Structural SME), Rodere Canal Flood Control Structure</p> <p>Senior Structural engineer and SME responsible for the oversight of the structural team's design of a concrete Sheet Pile water control structure, including deep pile foundation design and capacity, construction feasibility, cast-in-place concrete design, and general QAQC of final design drawing package.</p> <p>Senior Engineer (Structural SME), Construction Management Services to Demopolis Lock</p> <p>Serves as a Senior Structural Engineering expert for the Construction Management Services provided to Demopolis Lock. Participated in the underwater concrete testing and repairs to a major lock and dam structure on the Black Water River.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:				
Name & Title:				
Zachary J. Romaine, P.E. Lead Engineer				
Project Assignment:				
General Engineering / Coastal and Hydraulics Engineering				
Name of Firm with which associated:				
Royal Engineers and Consultants, LLC				
Years' experience with this Firm:				
7				
Education: Degree(s)/Year/Specialization:				
MS	2016	Coastal and Ecological Engineering		
BS	2014	Environmental Engineering		
Active registration: Year first registered/discipline:				
2020	Professional Engineer, Environmental			
Other experience and qualifications relevant to the proposed Project:				
<p>Mr. Romaine has a robust background and extensive experience in civil, environmental, and coastal engineering, especially within Louisiana's context. His expertise in geotechnical analyses, hydrology, and coastal structures, particularly focusing on marsh creation and shoreline protection, seems quite specialized and valuable. His role on the Royal Team, managing project technical aspects, design, and permitting activities, showcases his leadership in engineering and project management. His proficiency in GIS/CADD software like QGIS Desktop and AutoCAD Civil 3D also underscores his capability in data visualization and design.</p>				
Lead Engineer, LPG Accelerated Restoration				
<p>As Lead Engineer, collaborated with LPG staff and stakeholders to identify priority coastal restoration projects for their value, consistency and alignment with the State's Coastal Master Plan and other local, state, and federal planning requirements. Following the project identification phase, led the preliminary engineering and design tasks to develop design drawings for initial permitting.</p>				
Engineer, SBPG East Bank Sediment Pipeline				
<p>Assisted in designing a sediment delivery corridor from the Mississippi River to marsh creation areas in Plaquemines and St. Bernard Parishes. Contributed to baseline condition assessments, corridor layout evaluations, and preliminary cost estimates for sediment delivery methods.</p>				

TEC Professional Services Questionnaire

Engineer, CPRA Outcome-Based Performance Contracting

Assisted in developing performance metrics and cost analysis for CPRA's Outcome-Based Performance Contracting initiative. Analyzed traditional vs. OBPC delivery methods for marsh creation projects using historic bid data and cost escalation to 2019 dollars.

Project Manager, Rockefeller Refuge (ME-18) Construction

Managed construction management and resident inspection services for the ME-0018 shoreline stabilization project. Oversaw daily inspections, material management, construction activities, surveys, and documentation for approximately four miles of shoreline protection along the Gulf of Mexico.

Project Manager, Iberia Parish Water Control Structures

Led engineering efforts for six water control structures throughout Iberia Parish. Responsibilities included surveying, hydraulic modeling, design, cost estimation, permitting with USACE and the Office of Coastal Management, and overseeing construction starting in Q3 2021.

Project Manager, Cypremort State Park Wave Attenuators

Managed engineering services for shoreline protection at Cypremort Point State Park. Designed breakwater systems, analyzed geotechnical borings, prepared cost estimates, and managed construction tasks and contractor coordination.

Project Manager, Lake Lery Phase 3 Marsh Creation ITR

Oversaw independent technical review services for SBPG's Lake Lery Phase III Marsh Creation project. Responsibilities include scope development, client coordination, and review of project deliverables such as design, plans, specifications, and permits.

Project Scientist, 2022 LMRMP Program and Cost Management

Served as a Project Scientist for the 2022 LMRMP Program, involved in developing project alternatives, assisting in cost estimation, and preparing technical memos summarizing project work.

Engineer Intern, CPRA Large Scale Marsh Creation - Spanish Pass

Provided engineering support for the CPRA Large Scale Marsh Creation project at Spanish Pass. Responsibilities included gathering and reviewing coastal process data, designing sediment conveyance corridors, developing preliminary construction cost estimates, and contributing to the design of approximately 120 acres of ridge and 1,134 acres of marsh habitat.

Engineer Intern, Port Fourchon LNG Station - Landside Office

Assisted in developing a dredged material management plan for a proposed LNG processing facility. Responsibilities included quantity calculations, geotechnical analysis, tidal datum calculations, fill quantity assessments, and future maintenance analysis using Delft3D.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Caitlin Vines Lead Scientist
Project Assignment:
Scientist, Environmental and Permitting Services
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
MS 2017 Forestry
BS 2014 Natural Resource Ecology & Management
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Vines is a project scientist with experience developing environmental reports, assessments, biological evaluations, and management plans. She has led permitting and environmental activities for several regional disaster recovery projects and has significant knowledge of Louisiana ecology, natural resources, conservation challenges, and the regulatory environment. Ms. Vines coordinated environmental compliance and has provided technical review and development of 17 coastal restoration projects, spanning seven restoration plans and environmental assessments. Certifications include: Wetland Delineation</p> <p>Environmental Planner, JDEC - EHP Transmission</p> <p>Serves as an Environmental Scientist for FEMA Environmental and Historic Preservation related activities associated with the Jefferson Davis Electric Cooperative's (JDEC) Hurricane Laura recovery efforts. Ms. Vines was responsible for supporting project managers in the development of the Programmatic Environmental Assessment (PEA) for the Hurricane Laura Repair, Replacement, and Restoration Program which established the National Environmental Policy Act (NEPA) compliance framework for JDEC's \$300+M transmission and infrastructure repair work and involved extensive coordination with FEMA, GOHSEP, NOAA, USFWS, USACE, and related state agencies. Project responsibilities included in depth review of natural resources, obtaining all required federal, state, and local permits and authorizations, anticipating regulatory requirements, applying for necessary project permits on behalf of the client, and working collaboratively to draft environmental assessments.</p> <p>Environmental Scientist, COPA Hurricane Harvey CDBG-DR Recovery Program</p> <p>Serves as an Environmental Scientist for HUD's Community Development Block Grant Disaster Recovery (CDBG-DR) environmental activities related to the City of Port Aransas's (COPA) Hurricane Harvey recovery. Supports project managers</p>

TEC Professional Services Questionnaire

in ensuring infrastructure improvements comply with NEPA and local regulations. Coordinates with federal agencies such as HUD, DOI, NOAA, USACE, and EPA to develop Environmental Assessments for drainage infrastructure projects. Conducts detailed desktop reviews of natural resources, anticipating regulatory requirements, and collaborates on the drafting of environmental assessments to facilitate stormwater conveyance improvements and mitigate future flooding impacts in Port Aransas.

Coastal Resources Scientist Supervisor, Louisiana Coastal Protection and Restoration Authority

Oversaw and trained a team of scientists, organized workloads, and established operational procedures to ensure consistent and accurate results. Led efforts to promulgate complex regulations and standards in collaboration with state and federal agencies. Evaluated projects with significant environmental and legal implications, providing crucial recommendations to CPRA officials to guide decision-making.

Coastal Resources Scientist, Louisiana Coastal Protection and Restoration Authority

Coordinated environmental compliance for Deepwater Horizon Natural Resource Damage Assessment (NRDA) coastal restoration projects throughout Louisiana. Navigated diverse environmental policies and collaborated closely with state and federal agencies to assess project impacts, negotiate mitigation measures, and oversee consultation processes. Contributed to the development and review of comprehensive restoration plans, environmental assessments, monitoring plans, and biological evaluation forms. Her expertise supported the technical review and development of 17 coastal restoration projects across multiple restoration plans.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Levi LeBourgeois, PMP Senior Project Manager
Project Assignment:
Senior Project Manager
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
14
Education: Degree(s)/Year/Specialization:
MS 2023 Business Administration Graduate Certificate 2010 Geographical Information Systems BS 2004 Finance
Active registration: Year first registered/discipline:
2016 Project Management Professional
Other experience and qualifications relevant to the proposed Project:
<p>Mr. LeBourgeois is a certified Project Management Professional (PMP) with 17 years of experience specializing in civil and coastal engineering and construction projects for federal, state, municipal, and private clients. His current role focuses on Primavera P6 detailed schedule management, progress monitoring, resource management, issue resolution, budget compliance, contract administration, and project closeout for diverse stakeholders. Previously, Mr. LeBourgeois has managed schedules for projects involving USACE, city and parish governments, state agencies like CPRA, and private sector clients. He also serves as a subject matter expert at Royal, leveraging extensive technical proficiency in GIS applications, AutoCAD drafting, and database development. His expertise spans software tools such as ArcGIS Desktop, AutoCAD Civil 3D, AutoCAD Map, ERDAS, QGIS, and Global Mapper, along with database systems including Microsoft Access, Oracle, and Trendstar. Additionally, he possesses competence in drone flight planning using DJI Terra and drone image processing with Pix4d Reach and Pix4d Mapper.</p> <p>Project Manager, Rabbit Island Restoration</p> <p>Led efforts to restore bird nesting habitats lost due to the inundation and conversion of the island to open water. During the engineering and design phase, he was responsible for developing and maintaining task budgets, creating and updating itemized task schedules in P6, and scoping the work for all sub-consultants while administering their tasks. Ensured accurate project data was maintained and provided, kept meticulous project records in a management system, and conducted and documented all project meetings. In the construction phase, led the Construction Administration and Oversight Services, closely monitoring and documenting construction milestones to ensure the project was completed before the next bird nesting season.</p>

TEC Professional Services Questionnaire

Project Manager, CPRA Outcome Based Performance Contracting - CPRA (Ph. II)

Led project management efforts for the Coastal Protection and Restoration Authority's Outcome-Based Performance Contracting initiative. Developed and maintained detailed project delivery schedules using P6 Primavera. Collaborated closely with state and federal stakeholders to ensure schedule alignment and project progress tracking. Conducted weekly updates and comparisons against baselines to inform stakeholders and drive project success.

Project Manager, Line 7 (MP 13-21) Replacement - Final Design/Construction Management

Managed preliminary engineering and permitting for the restoration of six acres of intertidal marsh on Lake Lery and Lake Borgne, impacted by Colonial Pipeline's Line 7 replacement. Oversaw all aspects of preliminary engineering, design, and permitting processes to ensure environmental compliance and project feasibility.

GIS Specialist, Iberia Parish MP Enhancements - Basic Services

Supported the update of Iberia Parish's comprehensive Master Plan for flood and hurricane protection. Procured and analyzed geographic data using ArcMap and AutoCAD Civil 3D. Managed GPS devices for field data collection and created three-dimensional models of proposed levees. Calculated material quantities and assisted in project planning and implementation.

Project Manager, PhIII Runway 11-29 EMAS Design Review

Led the Lafayette Regional Airport Phase III Runway 11-29 Safety Area Improvements project. Managed resident inspection services for EMAS installation, including earthwork, stormwater drainage, and electrical improvements. Monitored construction schedule, reviewed project progress, and ensured compliance with specifications and regulatory requirements.

Project Manager, Line 7 Replacement - Preliminary Design

Directed preliminary engineering and permitting efforts for the restoration of intertidal marsh affected by Colonial Pipeline's Line 7 replacement. Managed project lifecycle from design through permitting, ensuring environmental compliance and project feasibility.

Project Manager, FLNG - Marsh Creation

Oversaw engineering services for a marsh creation project as part of the FERC application process for the proposed Fourchon FLNG export facility. Managed engineering analyses, cost estimates, and permit drawings. Coordinated with regulatory agencies and stakeholders to develop mitigation plans and conducted data collection efforts for preliminary design.

Senior Project Manager, JDEC Hurricane Laura Recovery - Hurricane Response

Served as Senior Project Manager for JDEC's Hurricane Laura and Delta recovery efforts. Mobilized emergency response operations, conducted damage assessments, and managed debris removal and monitoring activities. Developed cost estimates, tracked contractor activities, and supported permitting efforts with mobile GIS applications and regulatory compliance.

Project Manager, Jensen Shoreline Protection

Managed preliminary design and permitting for the Jensen Shoreline Protection Project on Lake Pontchartrain. Procured Section 10/404 permits and various state permits. Led project planning and coordination efforts with regulatory agencies to ensure compliance and successful project execution.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Philip S. Mestayer, PMP Senior Platform Consultant
Project Assignment:
Project Systems Administrator
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
16
Education: Degree(s)/Year/Specialization:
BS Construction Management
Active registration: Year first registered/discipline:
2012 Project Management Professional
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Mestayer is responsible for planning, mobilizing, coordinating, and directing field services throughout construction. This includes project monitoring; establishing and leading QA/QC; resource management; data management; and completion of administrative records. As director of field services, Mr. Mestayer supervises teams ranging from 5 to 50 inspection, administrative, and QA/QC staff and tracks, manages, and reports on all observations and data collected.</p> <p>Certifications include: Project Management Professional, Project Management Institute.</p> <p>Rabbit Island Restoration (CS-0080), Cameron Parish, LA</p> <p>Mr. Mestayer is responsible with developing the architecture of the digital inspection platform that will be used to track daily progress of the restoration of Rabbit Island in real time. Information to be tracked and housed on the inspection platform includes quantities, costs, daily observations and photographs, contractor pay applications, change orders and drone aerial imagery/videos.</p> <p>Rockefeller Refuge (ME-18) Construction Oversight, New Orleans, LA</p> <p>Project Manager, Mr. Mestayer administered the architecture of a database that was utilized in the installation of 4 miles of an encapsulated lightweight core rock shoreline protection system.</p> <p>Non-Rock Alternative to Shoreline Protection Demonstration (LA-16), Iberia Parish, LA</p> <p>Construction Manager responsible for construction administration and quality assurance during construction of the 500 foot of pile-supported breakwater panels at Shark Island, Louisiana. Installation included 20 sets of wall panels at 25 feet long each made of marine-grade ultra-high molecular weight polyethylene (UHMW-PE) and encased within pre-fabricated steel jackets for connection to circular steel pile supports. Steel components are coated with marine-grade polymer coating for corrosion and UV resistance.</p>

TEC Professional Services Questionnaire

South Lake Lery Shoreline and Marsh Restoration (BS-16), Plaquemines Parish, LA

Construction Manager supporting Colonial Pipeline and NRCS, responsible for construction administration and quality assurance during hydraulic dredging operations to create 35 acres of marsh to a plus 3' elevation, mechanical excavation to construct 2,500 linear feet of lake rim embankment and 4,500 linear feet of containment dikes. Mr. Mestayer is overseeing all construction activities including management of field inspectors.

Highway 384 Hydrologic Restoration Project (CS-21), Cameron Parish, LA

Construction Manager supporting Louisiana Coastal Protection and Restoration Authority to perform professional surveying, permitting, engineering design, construction administration, construction inspection and continuous monitoring for this project. Tasks performed included cleaning out the existing structures, dredging the access channel and capping the existing levee where degradation occurred which was necessary to enhance and improve wetland habitat conditions while providing the least impact possible to wildlife and fishery resources. Mr. Mestayer assisted with the compilation of contract documents and performed construction administration.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Maxwell Kretschmer, GIS Specialist
Project Assignment:
GIS Specialist
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
1
Education: Degree(s)/Year/Specialization:
BA 2023 Major- Geography (GIS Tract), Minor- Computer Science
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Maxwell Kretschmer earned his bachelor's degree in geography – geographic information systems with a minor in computer science from the University of Texas at Austin. He is skilled in using QGIS and ArcMap applications and in Python, JavaScript, and other programming languages. While at UT-Austin, his research included the identification of pollution sources using flow analysis, focused on nutrients resulting in algal blooms, and development of suitability indices to compare actual human population density to more suitable living areas, based on risks (e.g., fire hazard) and services (e.g., emergency services). He is skilled in Python, Javascript, HTML5 and CSS, PHP, React, Intermediate Swift iOS, C# and XAML, Java, SQL, and MongoDB, Google Earth Engine, QGIS, and ArcMap Pro.</p> <p>GIS Specialist, Atchafalaya Master Plan Development</p> <p>Mr. Kretschmer contributes as GIS Specialist to the Lower Mississippi River Management Program (LMRMP), focusing on developing an integrated, science-based management strategy for the Atchafalaya Master Plan. His role supports sustaining and restoring wetlands affected by current navigation and flood control systems, thereby ensuring the ecosystem's resilience and the sustainable operation of LMR navigation and flood control systems.</p> <p>GIS Specialist, 2022 LMRMP Program and Cost Management Support</p> <p>Serving as GIS Specialist for the Lower Mississippi River Management Program (LMRMP), Mr. Kretschmer aids in implementing an integrated, science-based management strategy aimed at sustaining and restoring wetlands within the ecosystem impacted by navigation and flood control systems. His responsibilities include program and cost management support to ensure effective project delivery aligned with environmental goals.</p>

TEC Professional Services Questionnaire

GIS Specialist, JDEC Hurricane Laura Recovery - Hurricane Response

Mr. Kretschmer acts as GIS Specialist for FEMA-funded initiatives under Jefferson Davis Electric Cooperative's (JDEC) Hurricane Laura recovery efforts. He supports project managers in developing the Programmatic Environmental Assessment (PEA) for over \$300 million in transmission and infrastructure repair, ensuring compliance with the National Environmental Policy Act (NEPA) through extensive coordination with FEMA, GOHSEP, NOAA, USFWS, USACE, and state/federal agencies.

GIS Specialist, 2022 Support for Atchafalaya NERR Designation

As GIS Specialist within the Lower Mississippi River Management Program (LMRMP), Mr. Kretschmer contributes to establishing an integrated, science-based management approach aimed at sustaining and restoring wetlands impacted by navigation and flood control systems. His role supports efforts for the Atchafalaya National Estuarine Research Reserve (NERR) designation, focusing on ecosystem restoration and preservation.

GIS Specialist, Atchafalaya Basin Master Plan Development

Mr. Kretschmer serves as GIS Specialist for the Lower Mississippi River Management Program (LMRMP), contributing to the development of the Atchafalaya Basin Master Plan. His role focuses on implementing a science-based management strategy to sustain and restore wetlands affected by navigation and flood control systems, thereby ensuring the longevity and effectiveness of LMR navigation and flood control operations.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Austin Michael Lipari, EI Engineer Intern	
Project Assignment:	
General Engineering	
Name of Firm with which associated:	
Royal Engineers and Consultants, LLC	
Years' experience with this Firm:	
2	
Education: Degree(s)/Year/Specialization:	
MS	Coastal Engineering (In Progress)
BS	
Active registration: Year first registered/discipline:	
2022 Engineer Intern	
Other experience and qualifications relevant to the proposed project	
<p>Mr. Lipari is a dedicated and detail-oriented Engineer Intern with comprehensive experience in various engineering projects, focusing on environmental modeling. With a strong foundation in data collection, modeling, and project support, he has contributed significantly to several high-impact coastal and environmental projects.</p> <p>Engineer Intern, Tchefuncte Breakwater Modeling</p> <p>Gathered technical resources for the Tchefuncte River breakwater structure on Lake Pontchartrain, aimed at reducing erosion impacts on the Tchefuncte River shoreline. Built a model using Delft-3D to simulate existing conditions based on gathered elevation, tide, riverine, and wind data for the Lake Pontchartrain/Tchefuncte River area.</p> <p>Engineer Intern, 2022 LMRMP Program and Cost Management Support</p> <p>Assisted in cost estimation, constructability logistics, and report writing for the Lowermost Mississippi River Management Program.</p> <p>Engineer Intern, Rockefeller Refuge (ME-18) Construction</p> <p>Assisted with construction management and resident inspection services for the ME-18 shoreline stabilization project. The project involved installing encapsulated lightweight aggregate, bedding stone, armor stone, geotextile fabric, geogrid, settlement plates, and warning signs to construct approximately four miles of graded riprap shoreline protection along the Gulf of Mexico.</p>	

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ronald DeWain Butler, Lead CAD Draftsman
Project Assignment:
CAD Draftsman
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>CAD Draftsman, SBPG East Bank Sediment Transport Corridor – Hwy 15 Road Reconstruction and Canal Crossings</p> <p>Drafted construction drawings for roadway horizontal alignment, canal crossing structures and sheetpile bulkhead systems, and design of roadway regrading and reconstruction to facilitate installation of a permanent pipeline casing adjacent to the Mississippi River Levee.</p> <p>CAD Draftsman, Louisiana Coastal Engineering & Permitting</p> <p>Prepared geotechnical plans and profiles, USACE permit maps; civil plans and profiles; civil sections; right-of-way maps; soil boring and CPT location maps; soil classification maps and wetland determination maps; potentiometric maps; land use maps; and cross sections.</p> <p>CAD Draftsman, Odessy House Parking Lot Design</p> <p>Drafted construction drawings for the Odessy House Louisiana, Inc. Parking Lot Design Project, involving the development of an approximately 7854 square foot lot for the construction of an accessory parking lot. Responsibilities included developing title sheet, general notes, existing and proposed site plans, grading and drainage plans, and construction details.</p> <p>CAD Draftsman, NAVFAC P526U Visitor Control Center and Inspection Facility A/E</p> <p>Drafted construction drawings for the NAVFAC P526U Visitor Control Center and Commercial Inspection Facility project, creating a design-build set of drawings using all required UFC codes. Designed components such as a new visitor control center building, commercial vehicle safety office, duress alarm system, overhead canopy for commercial vehicle inspection, signage, LED lane control signal lights, elevated access control lane islands, permanent passive barriers, traffic control arms, traffic signalization, and utilities. Responsibilities included designing drawings for 30/50% submittal and ensuring compliance with project requirements.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Saul Prejean, Senior Construction Manager
Project Assignment:
Construction Administration and Inspection
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
BS 2002 Construction Management
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Prejean has extensive experience overseeing the building of shorelines, construction of levees, cost estimating, inspection of construction sites, and monitoring the progress of the construction activities to ensure on- time and within budget project completion.</p> <p>Senior Construction Manager, CPRA Outcome-Based Performance Contracting</p> <p>Led as Royal's senior construction manager for the Coastal Protection and Restoration Authority (CPRA), supporting the Outcome-Based Performance Contracting initiative. Assisted staff engineers in preparing cost estimates using top-down and bottom-up methodologies, leveraging historical bid data and contractor estimating practices. Facilitated comparison metrics for contracting party proposals based on financial analysis.</p> <p>Construction Manager, SBPG East Bank Sediment Transport Corridor</p> <p>Managed construction activities and assisted in the preliminary design of a sediment transport corridor across Plaquemines and St. Bernard Parishes. Reviewed preliminary alternative corridor alignments and configurations, and generated preliminary cost estimates based on CPRA project costs and industry experience. Provided project assistance in design, construction, and maintenance logistics.</p> <p>Construction Manager, Rabbit Island Restoration - CA & Oversight</p> <p>Serves as Royal's Construction Manager for the Rabbit Island Restoration Project (CS-0080), focusing on restoring bird habitats affected by island inundation. Responsible for developing cost estimates, conducting constructability reviews, and providing general project assistance in design and construction logistics.</p>

TEC Professional Services Questionnaire

Construction Inspector, Rockefeller Refuge (ME-18) Construction

Acted as lead construction inspector for the ME-0018 shoreline stabilization project, overseeing installation activities including encapsulated lightweight aggregate, bedding stone, armor stone, geotextile fabric, geogrid, settlement plates, and warning signs along the Gulf of Mexico shoreline. Conducted daily inspections, material surveys, and documented construction progress.

Construction Manager, FLNG - Marsh Creation

Led construction management for the marsh creation project associated with the FLNG facility, providing expertise in construction processes and feasibility. Managed construction sequencing, equipment selection, cost estimating, contractor coordination, and addressed logistical and construction challenges during design and implementation.

Construction Manager, Jefferson Canal Flood Control Structure

Managed the design and construction of water control structures near the downstream terminations of canals in Iberia Parish, enhancing flood control capabilities and reintroducing rainfall runoff storage capacity. Responsible for site assessment, hydrologic/hydraulic modeling, structure design, permitting, and overall construction management.

Construction Inspector, Little Valley Bayou Flood Control Structure

Provided expertise as a construction inspector for water control structures designed to mitigate high tide events and enhance flood management in Iberia Parish canals. Assisted in site assessment, hydrologic/hydraulic modeling, structure design, and construction management tasks.

Construction Manager, George Lancon Flood Control Structure

Oversaw the design and construction of flood control structures to improve water management in Iberia Parish canals. Managed site assessment, modeling, design, permitting, and construction activities as part of a larger levee system enhancement project.

Construction Manager, Rutten Rill Road Flood Control Structure

Directed construction activities for water control structures aimed at managing high tide events and enhancing water storage in Iberia Parish canals. Managed site assessment, modeling, design, permitting, and construction as part of comprehensive flood control efforts.

Senior Project Manager, JDEC Laura - Hurricane Response

Served as Senior Project Manager for JDEC's Hurricane Laura and Delta recovery efforts. Mobilized emergency response operations, managed damage assessments, debris removal, and monitoring activities. Established emergency protocols, coordinated base camp operations, and led field operations and procurement efforts. Continues to lead construction operations, reporting, and administration in ongoing recovery phases.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bryon Richard Lead Inspector
Project Assignment:
Construction Administration and Inspection
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>With 21 years of experience in planning, scheduling, construction monitoring, inspection, and project management, Mr. Richard is a leader in both horizontal and vertical construction projects. He excels in documentation, cost control, and general oversight. Mr. Richard has collaborated with state and federal agencies, including FEMA, GOHSEP, USACE, LDNR, LDEQ, LDWF, and U.S. Fish and Wildlife Service. His expertise includes post-hurricane projects involving public buildings, roads, water control structures, water supply systems, drainage systems, and erosion control methods. Known for his dedication and organization, he thrives in team-oriented programs and is committed to a continued contribution to more sustainable communities along the coast. Certifications include Project Management in Primavera, USACE Construction Quality Management Certification, Asbestos Contractor/Supervisor, Accreditation #3S180843, Valid 3/5/2012 – 1/19/2013, AI #180843, Asbestos Abatement Supervisor Training, License No.: SR-1014299.</p> <p>Construction Inspector, Rockefeller-Levee Refurbishment</p> <p>Coordinated with contractors and Rockefeller Refuge personnel during the construction of a 17-mile earthen levee at the Rockefeller Wildlife Refuge. Oversaw daily construction progress, reviewed construction reports, and ensured adherence to detailed engineered drawings. Facilitated meetings and site visits and monitored contractor adherence to the construction schedule. Provided survey, GIS, and CADD input during the design phase to complete the final design</p> <p>Resident Project Representative, Rabbit Island Restoration</p> <p>Participated in bi-weekly update meetings to ensure project coordination and alignment with stakeholders. Completed detailed project reports to track milestones and deliverables, providing comprehensive updates on project status. Coordinating closely with contractors, managed paperwork and maintained up-to-date project documentation, ensuring compliance with contractual obligations. Developed and implemented inspection strategies, analyzing reports and tracking methods to enhance inspection efficiency. Reviewed and updated project submittals, maintaining organized files and ensuring adherence to project standards. Conducting site visits, monitored project progress and verified compliance with</p>

TEC Professional Services Questionnaire

plans and specifications, while facilitating smooth submittal reviews through effective coordination with contractors.

Construction Inspector, LA 16 Non-Rock Alternative

Handled coordination with contractors and NRCS personnel during the construction and installation of a design/build structure. Managed the entire construction and installation processes, including daily progress coordination, review of construction reports, and adherence to detailed engineered drawings. Conducted daily onsite inspections, facilitated meetings and site visits, and ensured contractor adherence to the construction schedule. Participated in onsite survey, GIS, and redline drawing input throughout the project.

Construction Inspector, Hwy 384 Hydrologic Restoration (CS-21)

Managed coordination with contractors and CPRA personnel during the hydrologic restoration of Hwy 384. The project included restoring drainage laterals, rebuilding the monitoring station walkway, and restoring the levee. Responsibilities included overseeing daily construction progress, reviewing construction reports, ensuring adherence to detailed engineered drawings, and facilitating meetings and site visits. Also provided survey, GIS, and CADD input throughout the project.

Construction Inspector, Post Hurricane Repair of Water Control Structures

Oversaw construction repairs to the Hog Island Gully, Headquarters Canal, and West Cove Canal structures on the Sabine National Wildlife Refuge. Coordinated all aspects of construction with the OCPR field office, directed field personnel overseeing daily construction activities, and ensured construction coincided with plans and specifications. Participated in pre-bid and pre-construction meetings, conducted site visits, and prepared QA/QC reports. Involved in project and program scheduling.

Construction Inspector, Lake Chapeau Water Control Structure Demolition (TE-26)

Served as lead inspector, supervising pre-design topographic and hydrographic surveys. Attended pre-bid and pre-construction conferences, reviewed and approved submittals, invoices, change orders, and interpreted contract documents. Responsible for construction oversight, daily reporting, and preparing financial reports. Ensured project compliance and adapted oversight as needed during construction.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ryan M. Schellhaas, Lead Project Manager
Project Assignment:
Project Manager, Construction Management
Name of Firm with which associated:
Royal Engineers and Consultants, LLC
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
Graduate Certificate 2024 Construction Management
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed project
<p>Mr. Schellhaas will serve as a Project Manager on this contract. His capabilities in developing and maintaining productive relationships with clients, developers, architects, engineers, contractors, government officials, and project personnel have proven key to successful project execution. Survey work has included levee and lagoon systems. Inspection and management experience include construction operations of catch basin cleaning, asphalt and pavement patching, ADA compliance, street light management and water and sewer line repairs.</p> <p>Construction Manager, Bayou Terre Aux Bouefs Ridge Restoration</p> <p>Coordinated payable quantities to the project construction manager, ensured that the contractor remained within the project limits with all machinery and that containment area did not fail. Quantified all aspects of construction, including the construction of containment levees, hydraulic dredging of designated borrow area, and surveying of the containment area. Worked closely with the contractor Coastal Dredging and attended progress meetings with subconsultants, and the client, Colonial Pipeline.</p> <p>Construction Inspector, Colonial Pipeline Co. S. Lake Lery Construction Management</p> <p>Mr. Schellhaas served as a Resident Inspector supporting Colonial Pipeline and NRCS, responsible for coordinating payable quantities to the project construction manager. Mr. Schellhaas ensured that the contractor remained within the project limits with all machinery and that containment area did not fail. He quantified all aspects of construction, including the construction of containment levees, hydraulic dredging of designated borrow area, and surveying of the containment area. He also worked closely with the contractor Coastal Dredging and attended progress meetings with subconsultants, and the client, Colonial Pipeline.</p>

TEC Professional Services Questionnaire

Resident Inspector, South Lake Lery Shoreline and Marsh Restoration (BS-16), Plaquemines Parish, LA

Resident Inspector supporting Colonial Pipeline and NRCS, responsible for coordinating payable quantities to the project construction manager. Mr. Schellhaas ensured that the contractor remained within the project limits with all machinery and that containment area did not fail. He quantified all aspects of construction, including the construction of containment levees, hydraulic dredging of designated borrow area, and surveying of the containment area. He also worked closely with the contractor Coastal Dredging and attended progress meetings with subconsultants, and the client, Colonial Pipeline.

Resident Inspector, Lake Lery Piling Removal, St. Bernard Parish, LA

As lead inspector, Mr. Schellhaas was responsible for supervising the containment dike levee construction as well as the hydraulic dredging of material from the lake bottom. Royal was contracted to provide assistance with the FEMA funded project involving the replacement of navigational markers in Lake Lery and Hopedale Lagoon. The project involved locating and replacing approximately 100 40-ft x 10-in diameter timber pilings and two stationary beacon lights, which were damaged or destroyed in 2005 during Hurricane Katrina.



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.

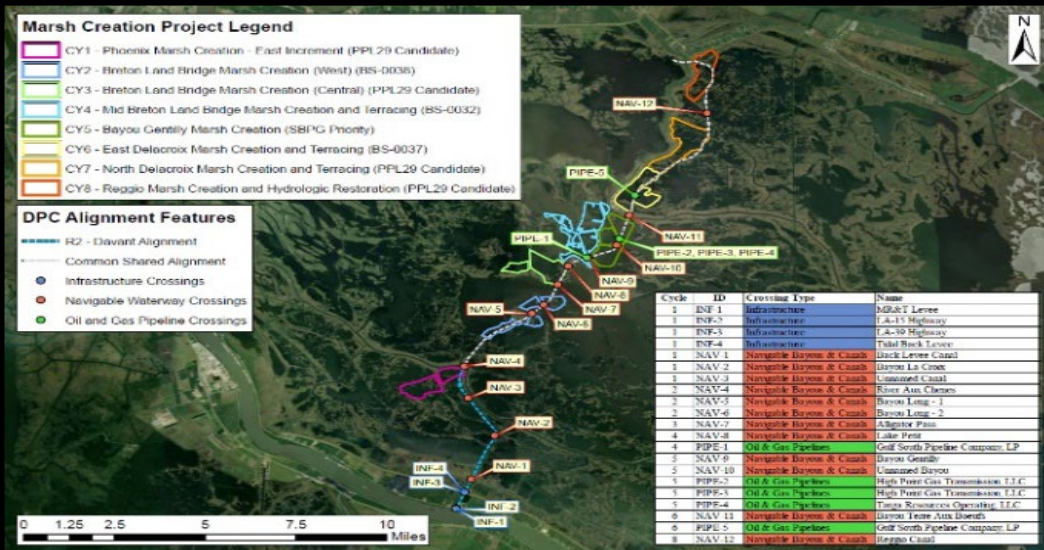
PROJECT NO. 1

Project Name, Location and Owner's contact information:

SBPG East Bank Sediment Transport Corrid, St. Bernard and Plaquemines
Parish, LA

CPRA, 150 Terrace Avenue, Baton Rouge, LA, 70802

Andrew Beall, 225.342.4450



This ongoing project aims to design a sediment transport pipeline corridor (STC) extending from the Mississippi River eastward to provide sediment for large-scale marsh creation projects in St. Bernard and Plaquemines parishes.

Initially, a data gap analysis assessed parameters such as tidal, vegetation, and subsidence data, water bottom elevations, infrastructure crossings, and sediment borrow areas. Several STC alternatives were evaluated, including different alignments and sediment delivery methods. The selected alignment starts near Davant to minimize impacts on existing pipelines, infrastructure, and landowners.

Engineering and design tasks included delineating borrow and marsh creation areas, conducting topo-bathymetric and geophysical surveys, and performing geotechnical investigations. Tasks also involved predicting long-term settlement of dredge fill, designing the STC system for subsidence and sea-level rise, and assessing slope stability of the adjacent Mississippi River levee system. Construction cost and time estimates were developed, and risks were identified and mitigated.

GeoEngineers conducted soil borings and cone penetration tests along the proposed corridor, with laboratory tests conducted per ASTM standards. Their geotechnical engineering report provided design recommendations based on test results to support the project's design phase.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/30/2024 (Est.)	\$60,000,000	\$1,300,000

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. 2

Project Name, Location and Owner's contact information:

Rockefeller Levee Repairs, Grand Chenier, LA
State of Louisiana Facility Planning and Control, 1201 N 3rd St, Baton Rouge, LA 70802
John Davis, 225.342.0820



Royal provided engineering services for repairing 58 miles of earthen levees at the Rockefeller Wildlife Refuge, owned by the Louisiana Department of Wildlife and Fisheries. The levee system protects freshwater areas from saltwater intrusion. Hurricane Rita caused severe scouring, and approximately 20 miles of the levee were restored under this FEMA project (PW3872).

Around 2,000,000 cubic yards of soil were washed away and needed replacement. Damaged levee sections were rebuilt using soil dredged from the adjacent canal, shaped to a settled elevation of +7.5' NAVD 88. Royal obtained survey data to determine fill quantities, designed borrow areas, and quantified wetlands impacts during construction. The project was self-mitigating, as coordinated with the USACE. Access routes were identified, and cost estimates were calculated. Plans, specifications, and permit drawings were prepared, including bidding documents.

Approximately 5 miles were initially constructed as a test section, with the remaining 15 miles recently completed. Royal assisted with the bidding process, conducted the pre-bid meeting, prepared bid tabs, and recommended contract awards. They also provided construction contract administration and management services, including contractor oversight and inspection for compliance with contract drawings and specifications.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

10/4/2023

\$9,500,000

\$750,000

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. 3

Project Name, Location and Owner's contact information:

Rabbit Island Restoration - SP 2022, Cameron Parish, LA
CPRA, 635 Cajundome Blvd. Lafayette LA 70596
Jody Roger-White, P.E., 337.482.0681



As part of Louisiana's NRDA Restoration Plan, Rabbit Island, which is a crucial pelican nesting habitat, was selected for restoration. CPRA contracted Royal to perform engineering and design for the island's restoration via dredge and fill operations.

Royal conducted data gap analyses and directed data collection activities, including bathymetric, topographic, magnetometer, and geotechnical surveys. They developed and evaluated project alternatives, focusing on fill templates, borrow sites, and shoreline protection options. Ultimately, onshore and detached breakwater systems were excluded in favor of cost-effective marsh creation. The fill areas were designed with bird habitat elevations in mind, ensuring resilience against subsidence, sea-level rise, and wave impacts.

Wave gage data, hindcasting techniques, and wind data were analyzed to predict wave run-up and ensure project robustness. Royal conducted a geophysical investigation of the borrow area, identifying an ideal sand deposit in the Calcasieu Ship Channel and marking no-work zones around obstructions and pipelines. A Biological Oyster Assessment was performed to delineate access routes and dredge pipeline corridors, adhering to Oyster Lease Acquisition and Compensation Program and LDWF protocols. Royal assisted CPRA with permit acquisition and related actions.

After completing the final design report, construction drawings, specifications, and cost estimates Royal provided bidding phase assistance, construction management, and resident inspection. They used their RoyalVUE platform to track quantities and project status, storing essential data.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

4/11/2024

\$7,200,000

\$700,000

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. 4

Project Name, Location and Owner's contact information:

SBPG Bayou Terre Aux Boeufs CM Services, St. Bernard Parish, LA
St. Bernard Parish Government, 8201 West Judge Perez Dr., Chalmette, LA 70043
Mr. John Lane, 504.278.4200



As noted in the 2012 St. Bernard Master Plan, Delacroix Island is vital to St. Bernard Parish Government (SBPG) but faces severe land loss due to erosion, subsidence, sea-level rise, and lack of sediment replenishment. To protect the Bayou Terre Aux Boeufs ridge system, SBPG hired Royal to perform engineering work and analysis for armoring and protecting the ridges.

Royal began with a data gap analysis, reviewing historical, technical, and scientific literature from SBPG, CPRA, and other sources. This included topographic and bathymetric surveys, tide and current data, and geotechnical information. Royal then directed the collection of additional surveys and incorporated them into the armoring template design.

The design phase included determining the design still-water elevation, analyzing vessel-generated, wind-generated, and tidal waves/currents, assessing toe scour and run-up, and selecting suitable armor stone size. Royal developed an armoring scheme template and a phasing plan in line with SBPG guidance. They also obtained necessary permits from LDNR OCM, USACE, and the State of Louisiana.

After completing the design, Royal submitted a final design report, plan set, construction specifications, and cost estimate to SBPG. Royal assisted SBPG in securing funding for all construction phases, which cost \$5.2million. Royal provided bid phase services, resident inspection, and construction management.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

3/1/2024

\$5,200,000

\$304,000

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. 5

Project Name, Location and Owner's contact information:

Lake Pontchartrain Shoreline Protection, St. John the Baptist Parish, LA
St. John the Baptist Parish (sub to HDR), 1811 W. Airline Highway, Laplace, LA 70068
Erin Rooney (HDR), 504.218.1231



The Lake Pontchartrain Shoreline Protection project was initiated to maintain the existing land between Lake Pontchartrain and Laplace as a storm surge buffer. At the initiation of the project, two (2) specific locations within the Parish boundaries, termed the North Reach and the South Reach, have been preliminarily identified as Parish priorities.

As a subconsultant to HDR, Royal first performed a data gap report to determine the extent of future data gathering activities and to determine if any existing conditions would cause either of the reaches to be infeasible for construction. As part of this analysis, datasets including, but not limited to, tide levels, wind records, topographic and bathymetric digital elevation models, permits, infrastructure assets, submerged oil and gas pipelines, cultural resources, threatened and endangered species, existing studies and models, and congruency with proposed Coastal Master Plan projects were identified and evaluated to determine required design parameters and revised project locations.

Secondly, Royal performed a wave modeling task regarding modeling the effectiveness of a wave attenuation system to reduce wave energy. The Delft3D-Wave module of the open source Delft3D modeling program, using the third-generation Simulating Waves Nearshore (SWAN) spectral model, was utilized to simulate the evolution of wind-generated waves. This information will be utilized by the design team during subsequent design phases to determine the appropriate shoreline protection features and design configurations.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

11/1/2024 (Est.)

\$24,000,000

\$375,000

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. 6

Project Name, Location and Owner's contact information:

CPRA Large Scale Marsh Creation - Spanish Pass, Plaquemines Parish, LA
CPRA (Sub to Baird), 150 Terrace Avenue, Baton Rouge, LA, 70802
Jason Curole, Ph.D., PMP, 225.342.4525

Royal served as a subcontractor to Baird on the CPRA Barataria Basin Ridge and Marsh Creation Project – Spanish Pass Increment (BA-0203), funded by NRDA from the Deepwater Horizon settlement. The project aimed to restore approximately 1,134 acres of marsh and 120 acres of ridge habitat near Venice.

Royal conducted an extensive data review and gap analysis, contributing to the design of the sediment conveyance corridor and providing engineering support for marsh and ridge fill area design. They also developed construction cost estimates and ensured quality assurance throughout the project.

Key tasks included reviewing historical and scientific literature for potential sediment conveyance corridors from three Mississippi River borrow areas. Field investigations included soil sampling for radiochemical analysis to measure local subsidence rates, which were found to be lower than those used in the 2017 Coastal Master Plan. These findings informed adjustments to long-term settlement curves, reducing fill volumes and costs.

Royal designed the conveyance corridor, addressing layout in the Mississippi River and Grand Pass, pipeline crossings, navigation channel crossings, booster pump locations, land access points, and Tide Water Road crossings. They also provided a detailed opinion of probable construction costs based on site logistics, soil properties, dredging parameters, production rates, and market factors.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

4/24/2020

\$76,000,000

\$330,000

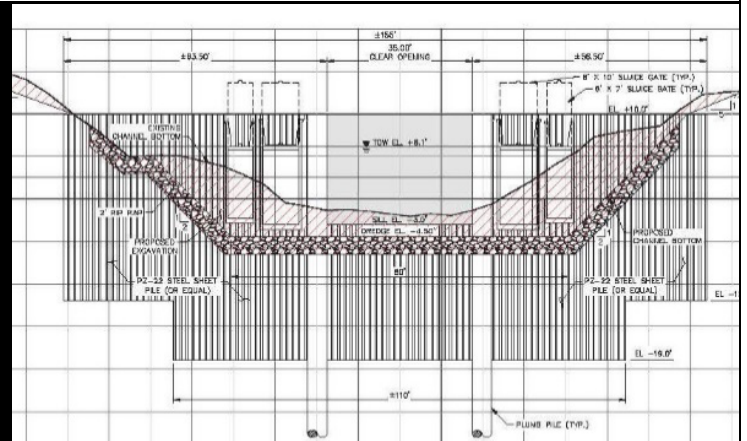
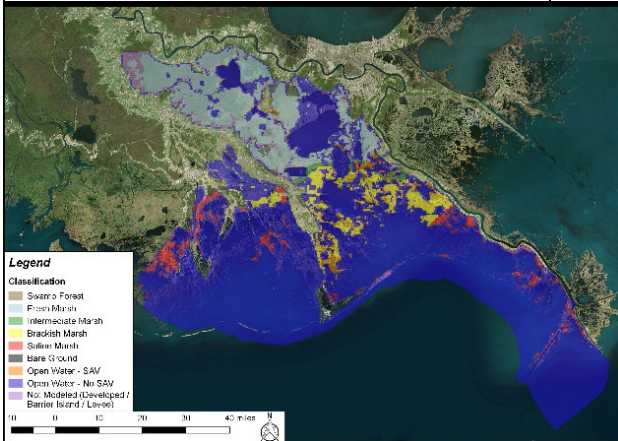
TEC Professional Services Questionnaire

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. 7

Project Name, Location and Owner's contact information:

Bayou Lafourche FW Intro, Barataria and Terrebonne Basins, LA
Bayou Lafourche Fresh Water District, 1016 St. Mary Street, Thibodaux, LA, 70301
Benjamin Malbrough, P.E. 985.447.7155



The Bayou Lafourche Fresh Water District (BLFWD) hired Royal to provide feasibility-level numerical modeling and detailed engineering design services for a freshwater diversion project from the Mississippi River into Bayou Lafourche at Donaldsonville, LA. The 1,000 cfs project aimed to improve water quality and ecology in the bayou and provide a larger freshwater supply for municipal and industrial users.

Key project features included an emergency control structure to protect water supplies during pump station shutdowns and the removal of a concrete weir at Thibodaux, LA to increase flow capacity. Royal assessed the diversion's environmental benefits using Louisiana's Comprehensive Master Plan for a Sustainable Coast, projecting impacts over 20 years with RMA modeling suite simulations.

Royal also evaluated the feasibility of removing the Thibodaux Weir, which currently provides upstream water storage for users from Thibodaux to Donaldsonville. The increased freshwater flow from the MRRBL effort was expected to offset the need for this storage. An initial numerical modeling study assessed the risk of water demand exceeding supply with the weir removed, comparing municipal freshwater intakes' elevations against projected water surface profiles over the next 20 years. The study also evaluated an alternative water control structure near Napoleonville, LA.

Upon completing operational modeling for the BLFWD emergency control structure, the project moved to permitting and final design stages. Final engineering involved evaluating design loads on structural members for various conditions to determine the most cost-effective sizing and configuration.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

11/30/2017

\$650,000

\$207,000

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. 8

Project Name, Location and Owner's contact information:

CPRA Outcome-Based Performance Contracting, Barataria Basin, LA
 CPRA, 150 Terrace Avenue, Baton Rouge, LA, 70802
 Bevin Barringer, 225.342.7308



CPRA engaged Royal to explore alternative delivery methods for marsh creation projects in the Barataria Basin, moving beyond traditional Design Bid Build (DBB) approaches. Royal led the development of an Outcome-Based Performance Contracting (OBPC) Request for Proposals (RFP), drawing on extensive experience with alternative delivery methods like Construction Manager at Risk (CMAR) and Design Build.

The OBPC RFP included a comprehensive review of similar solicitations from other agencies nationwide, defining performance metrics, payment structures, evaluation criteria, and contract terms. Royal managed an aggressive schedule, facilitated meetings, and developed engineering and cost models for potential projects, ensuring compliance with Natural Resources Damage (NRD) fund requirements administered by the Louisiana Trustee Implementation Group (LA TIG).

Following RFP issuance, Royal supported CPRA by organizing a pre-proposal conference, addressing proposer inquiries, and conducting administrative reviews of proposals. They also conducted an independent cost estimate exercise to compare OBPC proposals with traditional DBB costs, using historical bid data and contractor estimation methods. Additionally, Royal performed an affordability and financing capacity analysis, developing a cashflow model to assess CPRA's baseline NRD revenue projections and funding needs. Sensitivity analyses evaluated various financing structures against project schedules to determine investment affordability thresholds under different timelines.

The cashflow model confirmed CPRA's ability to fund immediate large-scale projects and access capital markets for gap financing when needed, laying the foundation for efficient project delivery and maximizing value for money through alternative delivery methods.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

5/31/2019

\$95,000

\$95,000

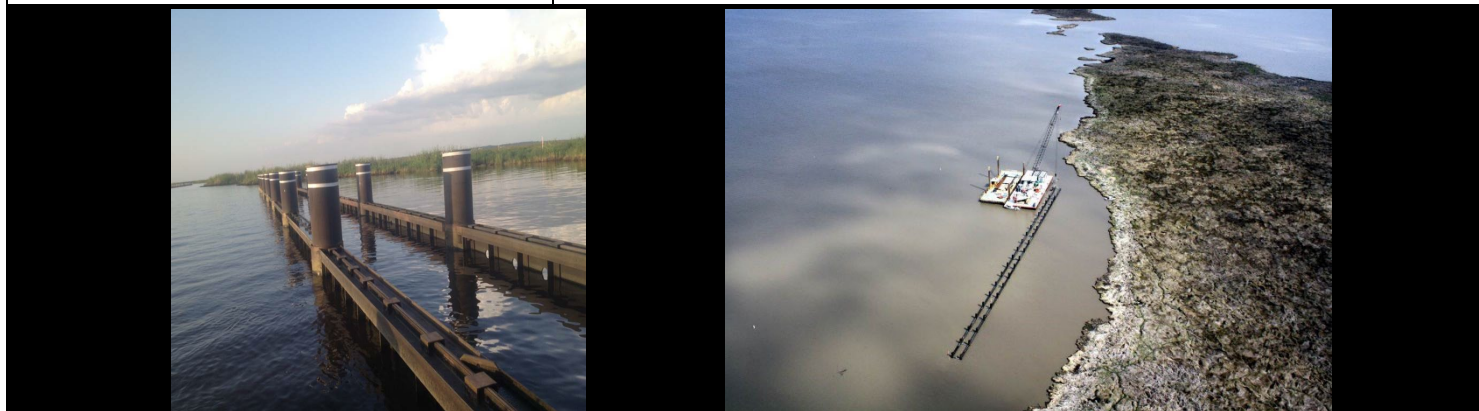
TEC Professional Services Questionnaire

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. 9

Project Name, Location and Owner's contact information:

LA 16 Non Rock Alternative to Shoreline Protection, Iberia Parish, LA
Natural Resources Conservation Service, 3737 Government St., Alexandria, LA 71302
Vicki Supler 318.473.7645



Royal conducted design-build services for a shoreline protection project funded by the Natural Resources Conservation Service (NRCS), resulting in the construction of 500 linear feet of protection at Shark Island, Vermilion Bay, Louisiana. The project aimed to test a non-rock alternative that could withstand low bearing capacity soils and reduce shoreline erosion over a twenty-year design life.

To meet NRCS objectives, Royal developed a concept using pile-supported panel structures as non-rock breakwaters. These perforated panels allow tidal exchange while attenuating wave energy. Royal utilized site-specific three-dimensional modeling with Flow3D software to assess wave energy transmission, total wave force, and estimated scour depths around the piles. Optimization of panel porosity, wall spacing, and submergence depth was key in the numerical model.

Structural engineering by Royal ensured the panels, connections, and supports were both robust and easy to construct. Panels were made of marine-grade ultra-high molecular weight polyethylene (UHMW-PE) encased in prefabricated steel jackets for connection to circular steel pile supports, all coated with marine-grade polymer for durability.

During construction, Royal managed surveys, directed pile and structure placement, inspected field connections, and ensured compliance with specifications. Management duties included regular progress reporting, meetings with NRCS, submittal review, and project closeout activities.

The installation, monitored from May 2014 to April 2017 under CWPPRA, outperformed other designs and a reference site in soil volume change rate, shoreline change rate, and wave attenuation.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

9/17/2017

\$1,000,000

\$126,000

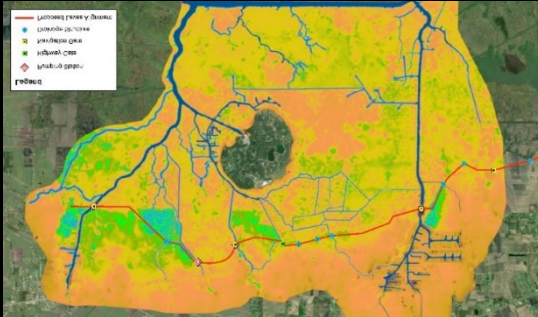
TEC Professional Services Questionnaire

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. 10

Project Name, Location and Owner's contact information:

Iberia Parish Master Plan Enhancements, Iberia Parish, LA
Iberia Parish Levee District, 300 Iberia Street, Suite 410, New Iberia, LA 70560
Ray Fremin, Jr. , 337.365.8246



Royal played a pivotal role in the completion of the Iberia Parish Levee, Hurricane, and Conservation District Master Plan (MP), aimed at enhancing flood and hurricane protection for businesses, residences, and roadways in Iberia Parish. The updated MP, developed in less than 18 months, provided a strategic framework outlining protection projects, implementation phases, and funding strategies to mitigate rainfall-induced flooding exacerbated by high tide events.

With a focus on addressing complex flooding issues while aligning with state restoration goals and stakeholder interests, Royal revised outdated project concepts and proposed a new alignment for a 26-mile earthen levee. Understanding funding constraints, Royal devised a phased approach for project implementation, defining scopes, estimating costs, and sequencing construction phases based on geographic considerations and available funding sources.

To facilitate implementation, Royal researched funding eligibility, identified permitting requirements, and coordinated with federal, state, and local agencies to ensure alignment with broader regional plans. Public engagement was prioritized through meetings and technical information dissemination, integrating public feedback into the final MP.

Recognizing the need for immediate action, Iberia Parish awarded Royal subsequent phases, including the design of seven water control structures. These structures, integral to the larger protection system, enhance storage capacity and manage rainfall runoff during high tide events. Utilizing advanced hydrologic and hydraulic models, Royal provided technical insights to optimize design and ensure alignment with parish objectives.

Throughout the process, Royal's technical expertise, problem-solving capabilities, and collaborative approach have been instrumental. Construction of one structure is complete, two are underway, and four are in the design phase, underscoring Royal's commitment to delivering comprehensive services from planning and design to construction management.

Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

6/1/2016

\$320,000

\$320,000

TEC Professional Services Questionnaire

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

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



TEC Professional Services Questionnaire

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

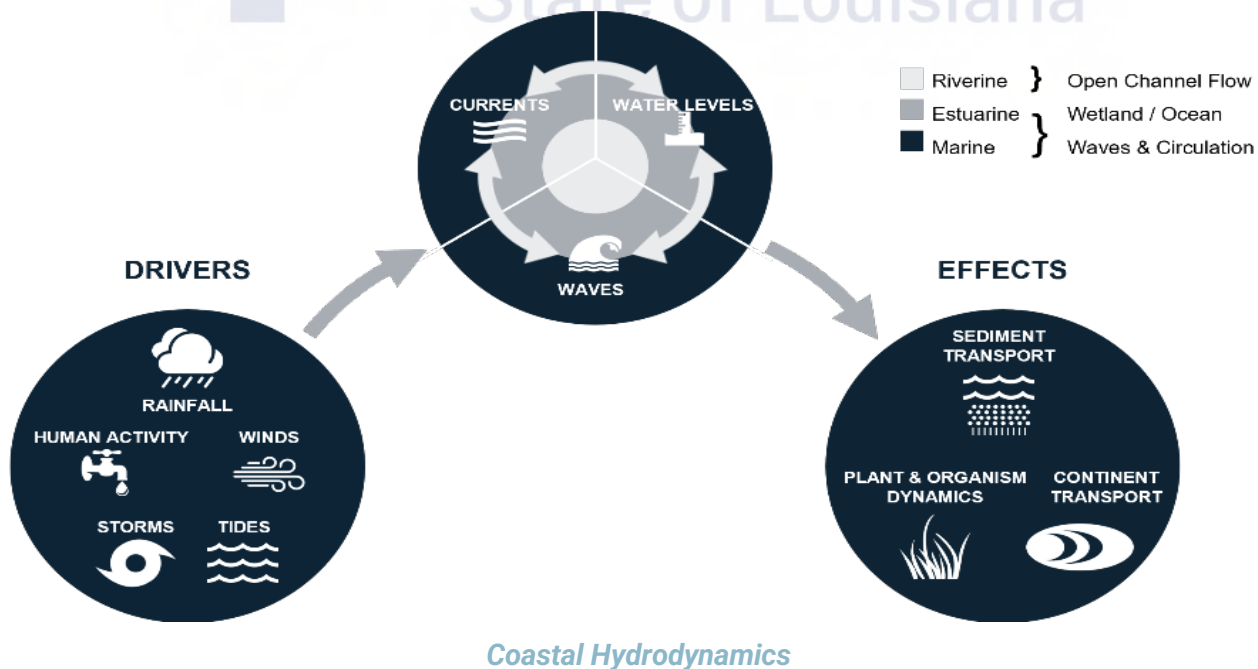
Introduction

The Royal team offers Jefferson Parish Department of Ecosystem and Coastal Management a deep bench of resources to meet any needs in Coastal Engineering Analysis, Project Evaluation and Selection, Project Design, Implementation, and Construction Management for any challenging coastal issue presented locally. The breadth of the Royal team's experience also offers Jefferson Parish the ability to get consulting on a variety of related environmental issues and challenges, because our talent includes team members who have been involved in almost every major coastal and environmental initiative at the state level. The information below describes the Royal Team's experience with all elements of coastal engineering consulting and design, including civil, hydraulic, hydrologic, environmental, mapping, CAD support, planning, permitting, design, bidding and construction administration and related supplemental services.

We have a broad and deep understanding of strategies and tactics for the evaluation, design, and construction administration of projects that involve marsh and ridge restoration, shoreline stabilization and protection, beneficial use of dredge material, living shoreline design, hydrologic and hydraulic modeling, design analysis and reports, biological and environmental assessments of wetlands, technical evaluations, cost estimates, opinions of probable construction cost and field investigations. In addition to technical services, the scope includes coastal grant writing, outreach and educational support and development of associated marketing materials.

Areas of Expertise:

Hydraulics and Hydrology Engineering. The Royal Team has decades of experience in successfully engineering hydraulic and hydrologic structures in challenging coastal environments. Whether the goal is freshwater diversion, salinity control, sediment capture, shoreline protection, or emergency flood relief, our Team has a proven track record of developing exceptional design solutions uniquely tailored to project specific constraints and informed by state-of-the-art scientific and numerical analyses. We can assist in a wide variety of coastal structures including weirs, culverts, water control structures, inlet and conveyance channels, and pump stations. Our Team will perform a detailed engineering analysis for the proposed project features. We will evaluate discharge rates, head losses, water velocities, water storage, drainage times, circulation patterns, and/or wave attenuation associated with the hydraulic/hydrologic features. Our Team has deep understanding of riverine, estuarine, and/or marine processes.



Coastal Hydrodynamics

Coastal Engineering. The Royal Team offers clients a professional and knowledgeable staff who are experts in solving the complex issues that are present in coastal and estuarine systems. We are extremely familiar with unique issues relevant to design and construction in the coastal zone including risk analysis, proper selection of materials, constructability issues, cost implications, and environmental impacts. Public officials continually strive to develop a synergistic coastal protection and restoration program, and our team offers expertise in the coordination and execution of all permitting, design, and construction services to support those efforts. We have a long-standing relationships with governmental decision-makers and are proud to play an active role in advocating these longterm strategic plans to enhance the sustainability of our home region.

Royal has design experience with beach restoration and nourishment, marsh creation, shoreline protection, freshwater introduction, terrace design, and ridge restoration. We have experience defining wave and tidal coastal processes, modeling of wave and sediment transport, and identification of sediment sources using remote sensing equipment, side scan sonar, seismic surveys, and geotechnical investigations. From these design criteria, the Royal Team has developed plans and specifications to construct a multitude of coastal restoration projects. Our engineers are capable of investigating a myriad of different coastal protection alternatives depending on regional environments and erosion causing factors.

Dredge Engineering. The Royal Team is fully qualified to design engineering plans in large scale projects that require dredging. This experience includes the scoping and collection of data associated with designing and clearing borrow and fill sites including topographic, bathymetric, geotechnical, magnetometer, and cultural resource surveys following the review of existing databases such as CIMS and SONRIS. Having worked on dredging projects utilizing riverine, inland, and offshore site locations, our team recognizes the intricacies that different dredging environments present and therefore has the ability to produce specifications and contract language specific to the environment at hand. The Royal Team has the technical expertise to analyze the data once collected in order to accomplish tasks such as estimating the quality of sediment within proposed borrow areas and predicting fill elevations after accounting for settlement and consolidation. Regarding transport, the Royal Team has personnel well-versed in designing and permitting conveyance corridors and booster pump locations.

Geophysical and Geological Investigations. Royal staff have been involved with multi-sensory geophysical and geotechnical investigations supporting numerous sand search efforts for beach nourishment and island restoration projects at various coastal sites including the Louisiana barrier islands of Timbalier, Racoon Island, Pass Chand, Caminada Headland, Whiskey Island, Scofield Island, and Rabbit Island. Our sand search experience includes projects with dual objectives of locating both mixed sediments for marsh creation and sand as a dune restoration material. For all of these efforts our engineers have worked closely with geologists, geophysicists, marine archaeologists, and vessel captains to devise investigation plans in high probability areas, efficiently evaluate preliminary results to recommend in-field adjustments, and use final results to effectively permit and design borrow area dredging extents.

Structural Engineering. For coastal protection and restoration projects, common performance goals usually include wave attenuation, erosion prevention, storm protection, and habitat restoration. With those end goals in mind, it is also the engineer's responsibility to design a project that maintains structural integrity over the project life cycle. This usually includes close coordination with coastal engineers to properly quantify forces resulting from coastal or hydrodynamic process acting on structures in the coastal zone. These forces must then also be transmitted into in-situ soils with varying strength properties characterized by geotechnical engineers. This multi-disciplined collaboration is essential to sound structural engineering which entails material selection, member sizing, connection details, and construction sequencing. The Royal Team has been responsible for the design of various shoreline protection features, hurricane protection levees, T-walls, I-walls, floodgates, retaining walls, sheet piles, pump station sump structures, wet wells, pipe supports, bridges, sluice gates, and shallow and deep pile foundations all within the coastal environment.

Geotechnical Engineering. With team members who have designed and managed projects in the Louisiana coastal zone for more than 20 years, Royal understands the important role of geotechnical properties in coastal restoration and protection. Geologically speaking, Louisiana's coastal zone is the one of the most diverse in the world, with varying soil types, associated properties and strengths, and complex stratigraphy. These factors weigh heavily in foundation stabilities for protection projects such as levees and breakwaters, water control structure and sediment diversion designs, and performance criteria for marsh creation projects which depend upon critical habitat elevations affected by the properties of both dredged sediments and underlying soils. We also understand the significance of long-term subsidence rates and

TEC Professional Services Questionnaire

the degree of variability across the coast.

Our engineers understand the necessity of writing detailed scopes to our geotechnical subconsultants that are specifically tailored to the geographic vicinity of the project as well as the type of project being implemented. We always start this process by consulting the CPRA Geotechnical Standards for Coastal Restoration Projects to determine minimum criteria for field investigation plans and laboratory testing procedures and then prescribe more rigorous requirements if site-specific conditions dictate such.

General Engineering. The Royal Team has a reputable history of delivering professional engineering services to public, private, and governmental sectors. Our Team offers clients a professional and knowledgeable staff of engineers, planners, GIS/CAD specialists, and support staff who are well versed in providing planning, design, and construction services. We provide our clients with the confidence that the design of all engineering projects will be scoped in a professional and efficient manner. Data gathering and analysis, technical report review and preparation, technical presentation to project stakeholders, and preparation of plans, specifications, and opinions of probable construction costs are all appropriately and efficiently completed in a manner that lends to successful bidding and construction while remaining on schedule and within budget.

Project Management. Through years of collaboration and past history of working on protection and restoration projects, our Team is familiar with managing complex capital projects and has developed an organized and systematic approach to ensure successful completion. We assist our clients in their pursuit to achieve a high degree of success with their programs by diligently creating and implementing effective project planning, scheduling and management measures. We tailor our approach based on the particular program and support our clients throughout the implementation process. We know that proper planning and scheduling, detailed document and records management, extensive financial planning, effective communication and permitting experience are critical to taking projects from the initial concept to close out and completion.

Surveying Services. Royal's coastal engineers are also well-versed in directing survey teams to collect pertinent topographic, bathymetric, geophysical, biological, and hydrodynamic data collection surveys on coastal projects. We understand the importance of horizontal and vertical control, establishment and use of primary and secondary benchmarks, datum and geoid conversions, survey spacing, and compensation for varying field conditions such as waves, tides, and "fluffy" bottom sediments. Our understanding of equipment capabilities allows us to interact with surveying professionals to identify the best match for project data needs.

Environmental and Permitting Services. Projects in the Coastal Zone require interagency coordination to secure the numerous permits and authorizations from federal, state, and local regulators before construction of any project can commence. Mitigation measures agreed to during the National Environmental Policy Act (NEPA) review and decision-making process may also require monitoring of construction activities to ensure that all work is compliant with established commitments to protect relevant resources. The Royal Team has extensive experience in both permitting and environmental mitigation planning and compliance. Our staff is cross-trained in all disciplines related to impact analysis, mitigation planning, cultural resources, wetlands delineations, preparation of requests for jurisdictional determinations and permit applications, interagency coordination, and field monitoring surveys. The Royal Team has experience in securing permits for activities in the coastal zone including hurricane storm damage protection measures, levee and drainage improvements, wetlands mitigation banks, disposal sites for dredged or fill material, pump stations, roadways, pipelines, and residential and commercial development.

Construction Administration and Inspection. The Royal Team offers construction management and inspection services with the intent to provide a cost-effective, quality-controlled method of operations. Serving as the single point of responsibility, our Team manages the construction process from project conception to preconstruction services to offer value engineering which routinely results in lower project cost and higher schedule efficiency. Our construction managers are experienced in a multitude of disciplines which include heavy civil, environmental, transportation systems, coastal restoration, and general building.











Capacity of Firm

Royal and our sub-consultants have more than sufficient capacity to provide the services necessary for successfully delivering multiple projects across Louisiana concurrently, including the resources to expedite the projects and manage multiple tasks simultaneously.

TEC Professional Services Questionnaire

Demonstrated Performance History in Jefferson Parish

In addition to experience in coastal engineering, the Royal Team has significant experience working on projects located in Jefferson Parish. The below table provides a summary of our collective experience in Jefferson Parish:

Firm	Project Name	Project Owner	Nature of Firm's Responsibility	Completion Date
	W. Metairie Avenue Over S. Suburban Canal Bridge	LaDOTD	Engineering design services	8/14/2024
	Labranche Wetland Assimilation Project	Meyer Engineers	Hydrodynamic modeling	5/2013
	Cultural Resources Investigations of the Mid-Barataria Sediment Diversion	CPRA	Terrestrial cultural resources investigations of the Mid-Barataria Sediment Diversion Construction Impacts and Operations Impacts	7/2020
	Barataria Basin Performance Assessment: Phase I Data Inventory	CPRA	Improve understanding of the effectiveness of restoration at the project and basin level to enhance the outcomes of restoration projects.	4/2019
	LA TIG Restoration Plan/ Environmental Assessment #7	CPRA	Development of restoration plan and environmental assessment to restore wetlands, coastal, and nearshore habitats and birds.	10/2016
	Jefferson Parish Landfill Lab Testing	Marine Magnetics SeaSPY Magnetometers	GeoEngineers provided laboratory testing services for the Landfill project.	10/2016
	LDNR - OCPR Jefferson Parish Levee Fill Sampling	Odom Echotrac MK III Echo sounder	GeoEngineers provided geotechnical services and testing levee material in the West Bank of Jefferson Parish	10/2016
	Clearview City Center	Odom Echotrac CV2000 Echo sounder	On-going public relations and media relations support for project/site expansion.	Ongoing
	Mid-Basin Sediment Diversion Program - Outreach & Engagement	Odom Hydrotrac Echo sounder	Outreach & Engagement team lead responsible for all communication, public relations, graphic design/branding, community outreach, and public engagement.	Ongoing
	Shoreline Protection at Jean Lafitte Park and Preserve	Stantech	Geotechnical drilling, sampling and laboratory testing	12/2019

TEC Professional Services Questionnaire

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

Signature:  Print Name: Michael Pugh, P.E.

Title: President Date: 07/16/2024



**Jefferson
Parish**
State of Louisiana



R. Kyle Ardoin

SECRETARY OF STATE

As Secretary of State of the State of Louisiana, I do hereby Certify that

ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

A limited liability company domiciled in NEW ORLEANS, LOUISIANA,

Filed charter and qualified to do business in this State on September 12, 2005,

I further certify that the records of this Office indicate the company has paid all fees due the Secretary of State, and so far as the Office of the Secretary of State is concerned, is in good standing and is authorized to do business in this State.

I further certify that this certificate is not intended to reflect the financial condition of this company since this information is not available from the records of this Office.

In testimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Baton Rouge on,

May 13, 2020

Secretary of State

Web 36013193K



Certificate ID: 11207438#ARK73

To validate this certificate, visit the following web site, go to **Business Services, Search for Louisiana Business Filings, Validate a Certificate**, then follow the instructions displayed.
www.sos.la.gov


Louisiana Professional Engineering and Land Surveying Board


Hereby Certifies that
Royal Engineers and Consultants, L.L.C.

*has complied with the regulations of this Board and is authorized to
provide or to offer to provide Engineering services in the State of
Louisiana contingent upon payment of the annual renewal fee.*

Baton Rouge, Louisiana • 09/21/2005




Chairman


Secretary

License Number 3328



State Licensing Board for Contractors

This is to Certify that: ROYAL ENGINEERS AND CONSULTANTS LLC
4298 Elysian Fields Ave Suite B
New Orleans, LA 70122

is duly licensed and entitled to practice the following classifications

BUILDING CONSTRUCTION; HEAVY CONSTRUCTION; HIGHWAY, STREET AND BRIDGE CONSTRUCTION;
MUNICIPAL AND PUBLIC WORKS CONSTRUCTION



Expiration Date: July 19, 2025

License No: 47048

This License Is Not Transferrable

Witness our hand and seal of the Board dated,
Baton Rouge, LA 20th day of July 2022

Will B. Mott
Director

Lee Mallett
Chairman

Andre Dumas
Treasurer



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Treasurer

An aerial photograph of a coastal wetland area. The image shows a large body of water in the foreground and middle ground, with several small, irregularly shaped islands or peninsulas. These landmasses are covered in dense green vegetation, likely marsh grasses or trees. The water appears calm, reflecting the light from the sky. In the background, the horizon is visible under a pale, overcast sky. A dark blue vertical bar is on the right side of the image.

TEC FORM

T. BAKER SMITH

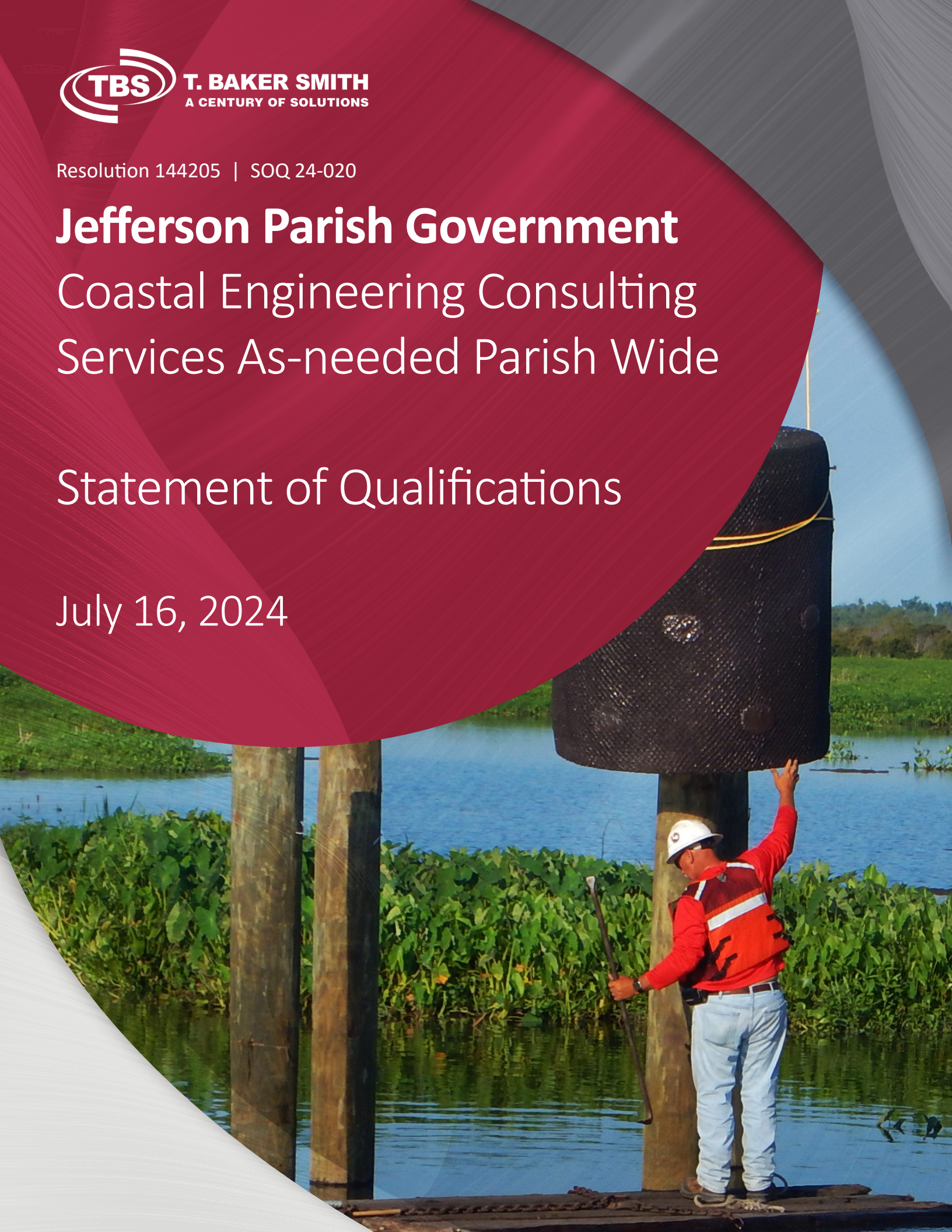


Resolution 144205 | SOQ 24-020

Jefferson Parish Government Coastal Engineering Consulting Services As-needed Parish Wide

Statement of Qualifications

July 16, 2024



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

COASTAL ENGINEERING CONSULTING SERVICES AS-NEEDED PARISH WIDE

SOQ #24-020 | Resolution 144205

B. Firm Name & Address:

T. Baker Smith, LLC
6660 Riverside Drive, Suite 101
Metairie, LA 70003



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:

Kenneth Wm. Smith, PE, PLS, FACEC
Chief Executive Officer
985.223.9248
Kenneth.Smith@tbsmith.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.

Jason Chauvin, PE
Lead Professional, Coastal Engineering
985.223.9265
jason.chauvin@tbsmith.com

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

<u>49</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u>1</u> Structural Engineers
<u>1</u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u>8</u> Graduate Engineers
<u>27</u> Civil Engineers	<u> </u> Interior Designers	<u>20</u> Project Managers
<u>4</u> Construction Inspectors	<u>1</u> Landscape Architects	<u>2</u> Clerical
<u>10</u> Ecologists	<u>29</u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u>2</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>5</u> Engineer Intern	<u>2</u> Environmental Engineers	<u>117</u> Other
<u>14</u> Professional Land Surveyors		<u>292</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

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


N/A

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

YES _____ NO _____

N/A

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
		

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

292 (All personnel, primary and support, will be available to work 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. 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:

Jason Chauvin, PE

Lead Professional, Coastal Engineering

Project Assignment:

Professional in Charge of Project

Name of Firm with which associated:



Years' experience with this Firm:

13 with this firm | 0 with other firms

Education: Degree(s)/Year/Specialization:

Master of Science/2018/Coastal and Ecological Engineering

Bachelor of Science/2011/Civil Engineering

Active registration: Year first registered/discipline:

LA PE 39979/2015/Civil Engineering

Other experience and qualifications relevant to the proposed Project:

Jason is the lead professional of engineering and coastal practice with experience in surveying, civil, maritime, and coastal engineering projects. He is primarily responsible for providing leadership, project management, and advanced technical support in the development, design and implementation of engineering projects. He is capable of successfully administering projects through planning, data collection, design, bidding, construction administration, and monitoring phases. Project experience includes topographic, hydrographic, and geophysical surveying; land development; pipeline; roadway; structural; barrier island and headland restoration; beach and dune nourishment; marsh creation and nourishment; living shorelines, shoreline protection; wetland mitigation; beneficial use of dredged material; dredging; gravity and forced drainage; and flood protection.

Project Experience

Mid-Barataria Sediment Diversion Project (BA-153); CPRA; Plaquemine Parish, LA – Project Manager, Engineer of Record. Captain of the design team for the monitoring plan and beneficial use of dredged material design. Jason was tasked with coordinating the development and executing the sediment monitoring plan, utilities coordination, marsh creation design utilizing beneficial use of dredged material, design of the outfall transition from the conveyance channel into the basin, design of the Horizontal Directional Drill (HDD) 20" water main relocation, and structural design of wing walls at the intake and back gate structures.

Terrebonne Parish Oyster Bed Surge Protection System; Terrebonne Parish Consolidated Gov.; Terrebonne Parish, LA – Project Manager, Engineer of Record. Jason oversaw the engineering and design of 3.4 miles of a living shoreline protection system in northern Terrebonne Bay.

Barataria Marsh Creation Project; Lafourche Parish Government; Lafourche Parish, LA – Design Engineer, Engineer of Record. Jason was responsible for coordinating internal meetings; engineering drawings; pipeline investigations, project review, feasibility reporting; and QA/QC of deliverables. He was responsible for a data gap analysis, scope, budget and landowner/parcel data, and agency coordination with Lafourche Parish and the CPRA.

Bayou Dularge Marsh, Ridge, & Hydrologic Restoration; CPRA; Terrebonne Parish, LA – Project Engineer, Engineer of Record. Jason was directly involved with the hydrodynamic monitoring and the engineer of record for the hydrodynamic data collection report. He was responsible for crew coordination, as well as data collection and processing. Jason put together specifications and drawings for the client. He provided QA/QC for all deliverables to the client.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Denton Graham, PE
Project Manager

Project Assignment:

Coastal Engineer

Name of Firm with which associated:



Years' experience with this Firm:

4 with this firm | 1 with other firms

Education: Degree(s)/Year/Specialization:

Master of Science/2021/Coastal and Ecological Engineering
Bachelor of Science/2016/Biological Engineering

Active registration: Year first registered/discipline:

LA PE 46385/2017/Civil Engineer

Other experience and qualifications relevant to the proposed Project:

Denton is a Project Manager with experience in physical modeling, hydrologic and hydraulic instrumentation and monitoring, laboratory testing management, cost estimating, report drafting, and plan drawing experience in both laboratory and professional settings. He is primarily responsible for providing technical support in the development, design and implementation of engineering projects. Project experience includes river diversion modeling and design, marsh creation and nourishment, shoreline protection, wetland mitigation, dredging, flood protection, and civil site design.

Project Experience

Mid-Barataria Sediment Diversion; CPRA; Plaquemines Parish, LA- Project Engineer. Denton has been involved in numerous phases throughout the project including designing dredged material placement areas (DMPAs), utility coordination, and development of the project monitoring plan. For the DMPA design, he produced a Data Collection Plan, placement area design, and volume calculations.

Bayou De Cade Restoration CE&I; CPRA; Terrebonne Parish, LA – Project Engineer. Denton's duties included reviewing construction progress deliverables, as-built deliverables, reviewing change orders and RFIs, and serving as an owner's project representative. As a project representative he is also documenting daily progress, generating daily and weekly reports, and attending bi-weekly progress meetings.

Mid-Barataria Sediment Diversion, River Monitoring Phase; CPRA; Plaquemines Parish, LA- Engineering Intern. Denton aided in the collection and data processing of numerous isokinetic, bed grab, CTD, and ADCP samples in support of the Mid-Barataria Sediment Diversion. He collaborated in designing the necessary means of sample processing and performed QA/QC on processed sample results.

Reach I Levee Enlargement Phase I; Terrebonne Levee & Conservation District; Chauvin, LA – Engineer of Record. Primarily responsible for preparing the Engineering Design, Plans and Specifications for the construction of the Morganza to the Gulf of Mexico, Hurricane Protection Project, Lower Reach I Levee Lift Phase I. Denton is also assisting the owner in coordinating the work, coordinating and/or prepare engineering reports and geotechnical investigations.

Lakeside Flood Control Structure and Bulkheads; St. Mary Parish Levee District; Morgan City, LA – Project Engineer. He assisted in the design and cost estimation of approximately 3,000 linear feet of rip-rap breakwater to aide in protecting the Lakeside Neighborhood from hurricane wind generated waves and storm surge. Numerous layouts and breakwater elevation scenarios were generated, and their results analyzed. Input from Lakeside residents was also taken into consideration to provide the optimal protection.

ATF Marsh Mitigation Assessment; Entergy; Lafourche Parish, LA - Engineering Intern. Denton is providing QA/QC on a previously performed marsh mitigation assessment for Entergy. He analyzes design documents, environmental permits, and cost estimates provided to Entergy for environmental impact mitigation. He runs QA/QC on these documents and assisted supervising Professional Engineers in drafting an alternate mitigation plan, design methodology, and accompanying cost estimate.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brian E. Moldaner, PE, MBA
Chief Growth Officer

Project Assignment:

Client Liaison

Name of Firm with which associated:



Years' experience with this Firm:

13 with this firm | 0 with other firms

Education: Degree(s)/Year/Specialization:

Master of Business Administration/2019
Bachelor of Science/2011/Civil Engineering

Active registration: Year first registered/discipline:

LA PE 40075/2015/Civil Engineer

Other experience and qualifications relevant to the proposed Project:

Brian is the Chief Growth Officer, formerly the Engineering Lead Professional and the Public Works Market Sector Leader. He has proven experience leading large, complex, multi-disciplined projects to successful outcomes. He performs various project management duties, including developing service fee proposals, creating project management plans, public outreach communication planning, coordinating sub-consultants, and coordinating survey and environmental field crews. Brian leverages his engineering, business, communication, and project management skills to engage with project stakeholders (internal and external), understand concerns, and develop solutions to benefit clients and the community. Brian is a lifelong resident of Jefferson Parish and takes pride in serving his community through his profession.

Project Experience

Lake Villa Pond Hydrologic Improvements; Jefferson Parish Government; Jefferson Parish, LA – Lead Professional. This project consists of hydrologic improvements to Lake Villa Pond including the reshaping, grading, and terracing of the existing Lake Villa Pond and establishing a hydraulic connection via a channel from the pond to adjacent pump station discharge channel. Surveying, environmental, and engineering design tasks are currently ongoing.

Bucktown Harbor Park Shoreline Zeta Assessment & Storm Mitigation Alternatives; Jefferson Parish Government; Jefferson Parish, LA – Lead Professional. TBS performed aerial LiDAR survey, topographic survey, bathymetric survey and engineering analysis to determine the volume/areas of land loss and assess the cost to repair the shoreline back to the pre-storm state.

Reach E Environmental Water Control Structures; Terrebonne Levee and Conservation District; Terrebonne Parish, LA – Engineering Design. Prepared the engineering design, plans and specifications for the construction of the Morganza to the Gulf Reach E- Environmental Water Control Structures which consists of two (2) 9-barrel 6-foot by 6-foot (6' x 6') concrete culvert water control structures to be built across Falgout Canal Marsh Road at two locations within the Terrebonne Parish Morganza to the Gulf Hurricane Protection System.

Lockport Co. Canal South Bank Levee; Lafourche Parish Government; Lafourche Parish, LA – Engineering Design. Prepared design drawings, bid coordination, construction administration, topographic surveying, environmental permitting, geotechnical engineering and periodic observation of construction for the elevation of 1630 linear feet of levee from the existing +6' elevation to +7.5' elevation through placement of suitable material, grading and shaping to ensure proper levee sustainability, and armoring of levee by placement of rip-rap along the flood side toe to prevent scouring and erosion from wave action caused by storm surge and high marine traffic.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Will Bane, PE

Lead Professional, Engineering

Project Assignment:

Project Manager

Name of Firm with which associated:



Years' experience with this Firm:

3 with this firm | 16 with other firms

Education: Degree(s)/Year/Specialization:

Master of Science/2005/Civil Engineering

Bachelor of Science/2003/Civil Engineering

Active registration: Year first registered/discipline:

LA PE 36709/2011/Civil Engineer

Other experience and qualifications relevant to the proposed Project:

Will has 19 years of experience in the design and construction of civil engineering projects and is a graduate of Tulane University and the University of Illinois Urbana-Champaign. He has a successful history as a project manager, having managed multifaceted projects, including regional drainage projects, green infrastructure, water main improvements and sewer collection system improvements, street construction, site development, and flood protection projects. He has been a designer for sewer, water, and drainage projects for individual lots up to the neighborhood scale. He has experience in design, construction estimates, scheduling, permitting, bidding, and construction administration. He has successfully executed many multifaceted projects, from problem identification to project completion. His experience includes large civil works for private developers and public municipalities.

Project Experience

Lake Villa Pond Hydrologic Improvements; Jefferson Parish Government; Jefferson Parish, LA – Project Manager. Providing engineering consulting services to improve the Lake Villa Pond. The project consist of hydrologic improvements to Lake Villa Pond. Proposed improvements will include the reshaping, grading, and terracing of the existing Lake Villa Pond and establishing a hydraulic connection via a channel from the pond to adjacent pump station discharge channel.

Jefferson Hwy. Waterline Replacement; Jefferson Parish Government; Jefferson Parish, LA – Project Manager. Responsible for the project management, sub-consultant management and design of waterline replacement project in Jefferson Parish. Project consists for replacement of roughly 9,500 ft of 12" waterline along Jefferson Highway as part of Parish's 20-year replacement program. Designed horizontal and vertical location of new waterline to provide continuous service and to minimize impacts to residents and traffic. Investigated and proposed alternative installation methods including pipe-bursting and directional drilling to provide cost efficient solutions. Site investigations performed to verify existing features and to avoid potential construction conflicts.

Causeway Area Waterline Improvements; Jefferson Parish Government; Jefferson Parish, LA – Project Manager. Responsible for the project management, sub-consultant management and design of waterline replacement project in Jefferson Parish. Project consists for replacement of roughly 10,000 ft of 8" waterline in the Causeway area to the north and south of I-10. Coordinated with sub-consultant to produce topographic survey ensuring proper information was gathered. Designed horizontal and vertical location of new waterline to provide continuous service and to minimize impacts to residents, businesses, and traffic. Investigated and proposed alternative installation methods including pipe-bursting and directional drilling to provide cost efficient solutions. Site investigations performed to verify existing features and to avoid potential construction conflicts. Area includes tight corridors for utilities within the right-of-way as well as existing trees which are desired to be unimpacted.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert Karam, PE

Lead Professional, Engineering

Project Assignment:

Project Engineer

Name of Firm with which associated:



Years' experience with this Firm:

8 with this firm | 1 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2014/Civil Engineering

Active registration: Year first registered/discipline:

LA PE 43854/2019/Civil Engineering

Other experience and qualifications relevant to the proposed Project:

Robert is a project engineer for clients that are primarily in the public sector including local municipalities, drainage districts, levee districts, and state agencies. His design experience focuses heavily on stormwater management and includes drainage pump stations and food risk reduction projects along the gulf coast. He has been involved with design including concept planning, preliminary and final design, cost estimating, development of detailed technical specifications and contract documents for compliance with local bidding requirements, and engineering services during construction.

Project Experience

Houma Navigation Canal Lock Complex; APTIM; Terrebonne Parish, LA - Design Engineer. Robert helped design the civil components for the HNC Lock Complex, including the design for levee tie-ins, dredging, scour protection, and operations area.

Bayou Chene Flood Control Structure; APTIM; St. Mary Parish, LA - Design Engineer/Project Manager. Robert provided design for Dredging and Levee Tie Ins, plan and profile design, Tennessee Gas Pipeline Crossing Details, Shoreline Protection Plan view and cross-sections. Shoreline Protection Quantities, and calculations. He was responsible for creating and compiling ITR packets for the levee embankment, general excavation, temporary silt fence, and seeding & fertilizing, and addressing comments from various agencies, clearing and grubbing design. Robert revised plan set and quantities, and created plan and sections for additional levee fill, he calculated an estimated quantity for the 2' maintenance lift, and reviewed pre-construction survey submittal to ensure it follows specifications. Robert estimated avoided costs by performing the proposed additional dredging by determining an approximate quantity of dredge material it took to complete the first lift of disposal. He also revised the geo-textile technical specification to include reinforcement geo-textile for hauled in levee embankment installation.

Reach E - Environmental Water Control; Terrebonne Levee & Conservation District; Terrebonne Parish, LA - Project Representative. Robert Inspected construction of two fresh water diversion structures as part of the Reach E levee system in Terrebonne Parish.

Falgout Canal Wetlands Modeling; Terrebonne Parish Consolidated Government; Terrebonne Parish, LA – Project Representative. Robert provided on-site project representation, observed unloading of removed debris from structure removal. He went on site visits to observe Dupre Brothers Construction working on structures and M&N dredging channel. Robert was also responsible for observing dredging operations.

Morgan City Levee & Drainage Improvements; Drainage District No. 2 of St. Mary Parish; St. Mary Parish, LA – Project Engineer. Robert is providing engineering plans for a new 1600 CFS pump station which features the relocation and re-installation of 6-54" vertical pumps with diesel engines and 1-24" electric vertical pump, relocation and re-installation of existing fuel tank, 60" discharge pipes, concrete outfall protection flume, and intake channel improvements.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lauren Averill, PE
Coastal Planning & Development Lead

Project Assignment:

Public Outreach, Grant Development, and Marketing

Name of Firm with which associated:



Years' experience with this Firm:

>1 with this firm | 23 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2001/Civil Engineering

Active registration: Year first registered/discipline:

LA PE 37108/2012/Civil Engineering

Other experience and qualifications relevant to the proposed Project:

Lauren has over 23 years of experience in coastal, environmental, and civil engineering, and serves as the Coastal Planning and Development Lead. Her diverse skill set includes geotechnical engineering; water resources; water remediation; diversions; well sampling for environmental studies and analysis; marsh creations; hydrologic engineering, restoration, and field assessments; planning and permitting required for future road and building construction; utility relocation; geotechnical engineering; landfill engineering; and construction permits for stormwater and wastewater management. Additionally, she plays a pivotal role in securing funding for various initiatives, including coastal, recreational, and green infrastructure projects. Lauren actively engages in presentations to local, state, and technical society agencies, emphasizing the historical context, technical design, and overall significance of projects. Notably, she championed the creation of a living shoreline as a buffer, aligning with the Federal Hurricane Storm Risk Reduction System (HSDRRS). Lauren also collaborates on USACE 408 permits when projects intersect with the HSDRRS System. Her strong working relationships extend to various agencies, including Parish Public Work Departments, as well as local, state, and federal entities such as the Southeast Louisiana Flood Protection Authority East, Louisiana Coastal Protection Restoration Authority, Louisiana Department of Wildlife and Fisheries, Department of Transportation, USACE, and NOAA. She leverages various grant programs, including the RESTORE Act, GOMESA, and CWPRA. Lauren oversaw the Coastal Zone Management Program for Jefferson Parish, providing crucial support to residents, including services such as Coastal Use Permits, Parish PIER permits, Coastal Project Management, and Coastal Protection Management. Furthermore, Lauren spearheaded the Coastal 101 outreach event, designed to inform the public about coastal restoration, resiliency, and protection. Her tireless efforts have also secured over \$4 million in grants for designing and constructing coastal restoration projects in the Pontchartrain and Barataria Basins.

Project Experience

Jefferson Parish Coastal Strategic Action Plan; Jefferson Parish Government; Jefferson Parish, LA – Coastal Management Director. Lauren developed the first comprehensive planning strategy to review nearly one hundred projects accumulated through the years. She reviewed each project for overall feasibility, value engineering, and construction sustainability, narrowed the list down to 32 feasible projects, and grouped them by project budget for those ranging on the small end of \$1M to state size projects of \$100M. Due to the ever-changing coastal habitats due to climate change, extreme weather events, and man-made actions, projects are updated regularly because of the extremely dynamic morphology, subsidence and erosion in the Barataria Basin.

Western Closure Complex; USACE - New Orleans District; Plaquemines Parish, LA – Lauren managed the complicated utility relocations, for the Western Closure Complex, including a high pressure gas line directly under the footprint of this essential component of the HSDRRS west bank system. This included extensive environmental permitting and approvals through a federally authorized environmentally protected area. The project involved coordination with the National State Parks, pipeline companies, environmental reviews and a pipeline directional drill to prevent project delays.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rene Hebert, PLS, PMP

Lead Professional, Survey

Project Assignment:

Lead Professional, Survey

Name of Firm with which associated:



Years' experience with this Firm:

17 with this firm | 2 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2008/Geomatics

Active registration: Year first registered/discipline:

LA PLS 5070/2011/Land Surveyor

LA PMP 3150916/2021/Project Management Professional

Other experience and qualifications relevant to the proposed Project:

As a lead professional and project manager at TBS, Rene is directly involved in the oversight and execution of the technical aspect of surveying projects including producing and revising drawings, sketches, plans, etc. for contract documents and QA/QC of surveying services. He coordinates work among project technicians, field crew coordinator, field survey personnel, and other required professionals working on the project. For the past 15 years, Rene has gained valuable experience surveying the environment of south Louisiana including topographic, boundary and GPR surveys and underwater acoustic hydrographic surveys including multi-beam, single beam, side scan sonar, acoustical soundings, magnetometry and other bathymetric surveys for industrial, government and private clients.

Project Experience

Bayou Dularge Marsh, Ridge, & Hydrologic Restoration; CPRA; Terrebonne Parish, LA – Project Surveyor. The project will create 660 acres of marsh, 4+ miles of ridge and a partial closure of Grand Pass. Rene was responsible for hydrodynamic monitoring; topographic, bathymetric, magnetometer, and UAS surveys.

Barataria Marsh Creation Project; Lafourche Parish Government; Lafourche Parish, LA – Project Surveyor. This project utilized local RESTORE funds for performing a Cost Feasibility Study on borrow material versus fill sites for approximately 20,000 acres. Rene was responsible for all survey aspects of the project.

Mid-Barataria Sediment Diversion; CPRA; Plaquemines Parish, LA – Project Surveyor. As a coastal sub-consultant on the Mid-Barataria Sediment Diversion (MBSD) Project, TBS assisted with developing the Sediment Monitoring Plan and execution of the Plan, marsh creation design utilizing Beneficial Use of Material, design of the outfall transition from the conveyance channel into the basin, and structural design of wing walls at the intake and back gate structure.

DNR Contract No. 2503-10-10: Topographic and Bathymetric Surveys for Raccoon Island Shoreline Protection/ Marsh Creation (TE-48) Project; CPRA; Terrebonne Parish, LA – Survey Technician/Project Surveyor. Assisted with underwater acoustic hydrographic surveys, data processing and QA/QC of field survey data including single-beam bathymetric survey data & GPS topographic survey data for the shoreline protection project. Created a combined surface model of the survey data collected using bathymetric survey methods and topographic survey methods.

Colonial Club Pump Station; Jefferson Parish Government; Jefferson Parish, LA – Survey Lead Professional. Coordinated the collecting of all the required survey data, verified the collected data for accuracy, and produced the final survey deliverables.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Matt Stevens

Sr. Project Manager

Project Assignment:

Hydrographic Surveyor

Name of Firm with which associated:



Years' experience with this Firm:

19 with this firm | 0 with other firms

Education: Degree(s)/Year/Specialization:

Associate of Science/2005/Drafting and Design Technology

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Matt serves as senior project manager and party chief on both inshore and offshore vessels. He serves as the senior drafter for the marine survey group. He also possesses a thorough understanding of the Hypack® Survey software program, including all aspects of navigation and field collection. He has spearheaded the processing and drafting portion of many high profile projects at TBS. As a project manager at TBS, Matt is involved in a wide range of project management activities from pipeline inspections, bathymetric surveys, and hazard and archaeological surveys.

Project Experience

Biloxi Marsh Living Shoreline Project (PO-174); CPRA; St. Bernard Parish, LA – Senior Project Technician/Field Surveyor.

The primary goal of this project is to provide shoreline protection by using the living shoreline products to attenuate the wave energy that reaches the shore. TBS will provide survey data collection tasks and monitoring of near-shore waves at set locations near the different breakwater configurations.

Mid-Barataria Sediment Diversion; CPRA; Plaquemines Parish, LA – Senior Project Technician/Field Surveyor. This project includes engineering and design of beneficial use of excess material from the Mid Barataria Sediment Diversion Project, structural design of wing walls and flood walls, sediment monitoring in the Mississippi River and Barataria Basin.

Whiskey Island Monitoring Project (TE-0100); CPRA; Terrebonne Parish, LA – Hydrographic Surveyor. Performed bathymetric surveys of Whiskey Island and the surrounding area, which will serve as the first monitoring survey post-construction of the NRDA Caillou Lake Headlands Project (TE-100).

SWAMP Phase II - Chandeleur Sound & MRGO; CPRA; St. Bernard Parish, LA – Senior Project Technician/Field Surveyor. Phase II of the System Wide Assessment and Monitoring Program (SWAMP). Data collection for Bathymetric and Geophysical Data in conjunction with basic habitat classification collecting 1,225 nautical miles of transects located on the Chandeleur Sound and along the MRGO.

Bayou Dularge Marsh, Ridge, & Hydrologic Restoration; CPR-A; Terrebonne Parish, LA – Hydrographic Survey Manager. The project will create 660 acres of marsh, 4+ miles of ridge and a partial closure of Grand Pass. Responsible for hydrodynamic monitoring; topographic, bathymetric, magnetometer, and UAS surveys; oyster surveys; and coastal engineering support for the project.

Salvage Hydrographic Survey in the Mississippi River; Couvillion Group, LLC; Plaquemines Parish, LA – Hydrographic Surveyor. Performed a salvage survey to locate and identify a probable anchor in the Mississippi River. Acted as party chief in the field as well as handling all aspects of project management. The anchor was located, and its positioning was given to the client for removal.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kim Knight, PLS

Sr. Project Manager

Project Assignment:

Professional Land Surveyor

Name of Firm with which associated:



Years' experience with this Firm:

13 with this firm | 16 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2019/Geomatics

Associate of Science/1995/Drafting and Design

Active registration: Year first registered/discipline:

LA PLS 5249/2011/Land Surveyor

Other experience and qualifications relevant to the proposed Project:

Kim is a senior project manager at TBS and has worked in the industry his entire career. He coordinates work among the project team including project technicians, field crew coordinators, field survey personnel, and other required professionals working on the project and is also manages the transfer of field information from the field crews to survey technicians for preparation of final deliverables. He has experience in topographic, hydrographic, and magnetometer surveys, construction layout of projects, remediation projects, property boundary surveys, preparation of right of way plats and servitude agreements, ALTA/ACSM Land Title surveys, and surveys defining the volumes of containment levees, borrow areas, and fill areas, landowner coordination, access route surveys, and computations for all aspects of land surveying projects. Kim has extensive knowledge in the organizing, analyzing, and processing GPS data, post processing the static GPS data that requires both minimal and fully constrained adjustments. He also prepares project schedules and periodically trains both office and field personnel in the survey discipline.

Project Experience

Bay Raccourci Marsh Creation Project TE-0156/TE-0166; CPRA; Terrebonne Parish, LA – Project Manager. Provided planning and coordination of surveys, project oversight, data processing, and preparation of deliverables. TBS is providing professional services in support of topographic, bathymetric, magnetometer, and other professional land surveying surveys of Bay Raccourci Marsh Creation and Ridge Restoration Project.

Elevation Survey Update of CRMS Sites & Associated Secondary Monuments for the Thibodaux Regional Office; CPRA; Assumption, Terrebonne, Lafourche, St. Mary, St. Martin Parishes, LA – Project Manager. TBS is providing elevation survey updates of CRMS Sites & Associated Secondary Monuments for the Thibodaux Regional Office.

Biloxi Marsh Living Shoreline Project (PO-174); CPRA; St. Bernard Parish, LA – Survey Project Manager. Supervised and coordinated field and office personnel, logistics to and from project site, and field data collection obtained by conventional, hydrographic, and Unmanned Aerial Survey crews. QA/QC of field data by reviewing the datasets collected and used to aid in the design of Bank Stabilization. Assisted in the merging of datasets collected by field personnel for topographic, bathymetric, LiDAR and photogrammetry data, and project deliverables.

Island Road Marsh Creation and Nourishment Project (TE-117); CPRA; Terrebonne Parish, LA – Survey Manager. This project will hydraulically dredge sediment from a borrow area in Lake Felicity to the marsh creation area near Isle de Jean Charles. TBS provided topographic, infrastructure, bathymetric, hazard, magnetometer, and pipeline investigation surveys for the marsh creation area in support of the design of this project. Average healthy marsh elevation surveys were also performed.

Raccoon Island Shoreline Protection; CPRA; Terrebonne Parish, LA -- Project Surveyor. TBS performed topographic and bathymetric surveys as well as updated horizontal and vertical datum for the Raccoon Island Shoreline Protection/Marsh Creation Project for the Office of Coastal Protection and Restoration.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Deroche

UAS Group Leader

Project Assignment:

Lead- Unmanned Aerial Survey

Name of Firm with which associated:



Years' experience with this Firm:

22 with this firm | 0 with other firms

Education: Degree(s)/Year/Specialization:

Associate of Applied Science/2001/Drafting and Design

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Eric's responsibilities include developing and maintaining an efficient "Field to Finish" process catering to our clients' needs. He serves as the Group Leader of Unmanned Aerial Solutions (UAS) for TBS. With seven years of experience in this field, he offers our clients professional and reliable unmanned aerial system solutions. Eric's expertise in survey software, LiDAR equipment, UAV's, and project management enables him to conduct field surveys personally and process the data efficiently under the direction of a professional land surveyor.

Project Experience

Raccoon Island TE-48 Restoration Survey; CPRA; Terrebonne Parish, LA – UAS Project Manager. Oversaw aerial survey was completed to assist the conventional surveyors on the ground and to gather an abundance of data on the entire island to be used for erosion monitoring on an annual basis. TBS was hired to perform a post-restoration survey on the restored part of the island and the breakers. The UAS department acquired high resolution aerial imagery, as well as a high density/high accuracy point cloud to generate a surface model of the island.

Topographic, Bathymetric, and Magnetometer Surveys, Contract No. 2503-15-33, Survey Services for Coastal Restoration Projects (TE-117); CPRA; Coastal LA – UAS Project Manager. Managed project that included drone flight operations to capture aerial ortho images with high spatial resolution in order to quickly and accurately map the islands. TBS was tasked with mapping the existing marsh island inside a proposed marsh creation cell for CPRA.

Bayou Lafourche- Reintroduction Phase 2; Bayou Lafourche Fresh Water District; Lafourche Parish, LA – UAS Project Manager. TBS performed construction monitoring and administration which helped the project become ahead of schedule and be under budget. This assisted the Freshwater District office in obtaining four million additional dollars to continue the dredging project an extra 2.4 miles.

Houma Navigation Canal; APTIM; Terrebonne Parish, LA – Group Lead of Unmanned Aerial Solutions. Managed aerial LiDAR to aid in getting accurate locations of existing steel piles on the structure. Positioning had to be precise due to plans to set additional steel piles inside existing piles.

Bayou Dularge Ridge and Marsh Creation (TE-0170); CPRA; Lafourche Parish, LA – Survey Party Chief/Project Manager. Eric provided field surveys, processed LiDAR data, and reviewed data for accuracy checks for the purpose of creating marsh on the south side of Bayou Dularge; restoring the ridge along the southern bank line of Bayou Dularge; and reestablishing historic hydrologic and salinity conditions by installing a structure that reduces the cross section of Grand Pass and the intrusion of Gulf marine waters into the project area.

Bay Raccourci Marsh Creation TE-0156/TE-0166; CPRA; Terrebonne Parish, LA – Survey Party Chief/Project Manager. Eric reviewed the survey flight plan, field surveying, and helped to process data for restoration of marsh habitat in the open water and degraded marsh areas via marsh creation and to restore the forested ridged habitat along Bayou Decade.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ryan LeBoeuf

UAS Data Analyst

Project Assignment:

Unmanned Aerial Surveyor

Name of Firm with which associated:



Years' experience with this Firm:

17 with this firm | 0 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2015/Geomatics

Associate of Applied Science/2007/Drafting and Design Technology

Active registration: Year first registered/discipline:

FAA Licensed Remote Pilot, 4102978

FAA Licensed Private Pilot, 850941

Other experience and qualifications relevant to the proposed Project:

Ryan is an FAA licensed pilot and serves as chief pilot of unmanned aerial solutions (UAS) at TBS. With fifteen years of experience in this area, he adds extensive knowledge of FAA regulations to further enhance the commercial operations of our UAS solutions. Ryan provides UAS solutions in the field and analyzes the data in the office.

Project Experience

Bayou Dularge Marsh, Ridge, & Hydrologic Restoration; CPRA; Terrebonne Parish, LA – UAS Licensed Pilot. The project will create 660 acres of marsh, 4+ miles of ridge and a partial closure of Grand Pass. TBS is responsible for hydrodynamic monitoring; topographic, bathymetric, magnetometer, and UAS surveys; oyster surveys; and coastal engineering support for the project.

Biloxi Marsh Living Shoreline Project (PO-174)CPRA; St. Bernard Parish, LA – Chief Pilot/UAS Data Analyst. Directly involved in conducting and processing LIDAR surveys. The primary goal of this project is to provide shoreline protection by using the living shoreline products to attenuate the wave energy that reaches the shore. TBS will provide survey data collection tasks and monitoring of near-shore waves at set locations near the different breakwater configurations.

Terrebonne Parish Oyster Bed Surge Protection System; Terrebonne Parish Consolidated Government; Terrebonne Parish, LA – Chief Pilot/UAS Data Analyst. TBS is tasked with the engineering and design of 3.4 miles of a living shoreline protection system in northern Terrebonne Bay. This project will directly provide benefits to north shorelines of Lake Tambour and Chien by reducing marsh edge erosion. Ryan is tasked with providing UAS field surveys.

Raccoon Island TE-48 Restoration Survey; CPRA; Terrebonne Parish, LA – UAS Licensed Pilot. TBS was hired to perform a post-restoration survey on the restored part of the island and the breakers. The Unmanned Aerial Systems department acquired high resolution aerial imagery, as well as a high density/high accuracy point cloud to generate a surface model of the island. This aerial survey was completed in order to assist the conventional surveyors on the ground and to gather an abundance of data on the entire island to be used for erosion monitoring on an annual basis.

Island Road Marsh Creation (TE-117), Topographic, Bathymetric, and Magnetometer Surveys; CPRA; Terrebonne Parish, LA – UAS Licensed Pilot. TBS was tasked with mapping the existing marsh island inside a proposed marsh creation cell for CPRA. The UAS department conducted the necessary drone flight operations to capture aerial ortho images with high spatial resolution in order to quickly and accurately map the islands.

Marsh Impact Analysis due to Emergency Repairs of Damaged Distribution Electrical Lines due to Hurricane Gustav; Entergy Louisiana, LLC; St. Bernard, and Lafourche Parishes, LA – UAS Licensed Pilot. Provided pre and post repair aerial photography and marsh impact calculations using ArcGIS interpretation and classification methods.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brady Trahan, PWS

Lead Professional, Environmental

Project Assignment:

Environmental Lead Professional

Name of Firm with which associated:



Years' experience with this Firm:

19 with this firm | 5 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1998/Microbiology

Active registration: Year first registered/discipline:

Professional Wetland Scientist, #2722

Other experience and qualifications relevant to the proposed Project:

Brady serves as the firm's Lead Professional of environmental operations and is primarily involved in regulatory and ecological compliance for pipeline and utility corridor transmission activities, oil and gas exploration and production activities, land resource and wetland mitigation management, and commercial and large scale residential developments. He is a Professional Wetland Scientist with experience in wetland delineations and mitigation, Section 10/404 permitting, Coastal Zone Management permitting, oyster assessments, and environmental site assessments. Brady also has experience in coordinating the efforts of subcontractors, endangered species surveys, wildlife management plans, large-scale wetland and vegetation mapping projects, wading bird rookery surveys and general environmental permitting for oil and gas activities and commercial real estate development. He has been involved in several LNG projects along the Louisiana and Texas coast. Brady routinely provides clients with permitting assistance with the U.S. Department of the Army Corps of Engineers (USACE), U.S. Environmental Protection Agency, Federal Energy Regulatory Commission, U.S. Department of Interior Fish and Wildlife Service, Louisiana Department of Natural Resources, Louisiana Department of Wildlife and Fisheries, and other state and local agencies.

Project Experience

Mid-Barataria Sediment Diversion, BA-0153; CPRA; Plaquemines & Jefferson Parishes, LA – Lead Professional. TBS is assisting with developing the Sediment Monitoring Plan and execution of the Plan, marsh creation design utilizing Beneficial Use of Material, design of the outfall transition from the conveyance channel into the basin, and structural design of wing walls at the intake and back gate structure. The project has a proposed design flow capacity of 75,000 cfs and is expected to build and nourish up to 30,000 acres of wetlands over 50 years. The project will utilize the alternative delivery method Construction Management at Risk. TBS is tasked with developing and executing the sediment monitoring plan, marsh creation design utilizing beneficial use of dredged material, design of the outfall transition from the conveyance channel into the basin, and structural design of wing walls at the intake and back gate structures.

Bolivar Peninsula Tarpon Project; Hilcorp Energy Co.; Galveston Bay, TX – Project Manager. Wrote mitigation plan for the project. Coordinated with engineering group on design of mitigation area. This project will impact existing wetlands at the site, and as part of the Permute Responsible Mitigation (PRM) requirement from the USACE Galveston District, material generated from the access channel dredging will be used to create 9.4 acres of mitigation marsh. TBS is providing topographic, bathymetric, geophysical, and hazard surveys; conceptual design development; mitigation plan; permitting support; marsh inundation assessment; dredge/coastal engineering; ABM shoreline protection design; and construction plans & specifications.

Wetland Delineation and Regulatory Assistance for the Port Arthur LNG Terminal; Port Arthur LNG; Jefferson County, TX – Project Manager. Conducted wetland delineation, threatened and endangered species surveys, mitigation planning, and associated regulatory permitting for a proposed LNG facility near Port Arthur, TX.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cy Toups, PE

Lead Professional, Environmental

Project Assignment:

Environmental Professional

Name of Firm with which associated:



Years' experience with this Firm:

17 with this firm | 4 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2002/Environmental Engineering

Active registration: Year first registered/discipline:

LA PE 33966/2011/Environmental Engineer

Other experience and qualifications relevant to the proposed Project:

Cy is an environmental professional and a Louisiana licensed professional environmental engineer. His environmental experience includes over seven years NEPA experience as well as Section 404/10 permitting, Coastal Use Permitting, endangered species surveys, U.S. Environmental Protection Agency (EPA) compliance, regulatory compliance, Phase I ESA's, wetland delineations, Recognized Environmental Conditions (RECs), and preparing NEPA documents for a multitude of agencies including Federal Highway Administration (FHWA), the United States Army Corps of Engineers (USACE), Federal Emergency Management Agency (FEMA) and the Federal Aviation Administration (FAA). His environmental experience ranges from private developments to local, state and federal public works and transportation projects. Cy has led many of TBS' Categorical Exclusions (CE) and Environmental Assessment (EA) documents for various roadway and bridge projects.

Project Experience

Gulf Intracoastal Waterway (GIWW) Shoreline Protection; CPRA; LA – Environmental Engineer. Provided environmental permitting services. TBS designed this shoreline protection project using EcoBales, manufactured by Martin Ecosystems. This product is made up of recycled plastic is a green alternative to standard shoreline protection materials. It collects sediment and supports aquatic ecosystems, thus classified as a living shoreline alternative. TBS provided the following professional services for this project: topographic and bathymetric surveying, environmental permitting, engineering design, and bidding.

I-10/Loyola Interchange Improvement; LADOTD; Jefferson Parish, LA -- Environmental Professional. Prepared an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA), and other applicable laws for the proposed project. Evaluated the social, economic, and environmental consequences of the alternatives (including the no-build) and presented this information in the EA document. In addition to the formal EA document and Finding of No Significant Impact (FONSI), the Consultant was required to develop separate reports such as Wetland Delineations, Phase I Environmental Site Assessment, Phase I Cultural Resources Survey Reports, and Noise analysis.

Nine Mile to Barataria; Entergy; Jefferson Parish, LA -- Environmental Professional. Prepared an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA) of 1969, the President's Council on Environmental Quality regulations to implement NEPA (40 Code of Federal Regulations Parts 1500-1508), and the U.S. Department of the Interior (DOI) regulations implementing NEPA (43 CFR Part 46). Evaluated the social, economic, and environmental consequences of the alternatives (including the no build) and presented this information in the EA document. In addition to the formal EA document and Finding of No Significant Impact (FONSI), TBS was required to develop separate reports such as Wetland Statement of Findings and apply for the Special Use Permit through the DOI National Park Service.

Phase I Environmental Site Assessment; McDonough Marine; Terrebonne Parish, LA – Environmental Professional. Phase I Environmental Assessment of the four (4) tracts totaling +/-18 acres of heavy industrial property. The property had historically been utilized for marine barge and vessel repair, and maintenance operations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Michael Trahan, Jr.

Lead Professional, Environmental

Project Assignment:

Environmental Permitting

Name of Firm with which associated:



Years' experience with this Firm:

12 with this firm | 0 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2012/Environmental Biology

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Michael assists senior professionals and project managers in the development and coordination of public works projects. He collects environmental data, including environmental assessments, threatened and endangered species surveys, environmental research, and environmental monitoring studies. Additionally, he prepares reports and completes field work necessary to complete documentation for projects, including wetland delineations, noise and air modeling, wildlife identification, endangered species/habitat biological assessments and surveys, plant identification/tree surveys, and land use studies. Michael submits and coordinates approximately 50+ permit applications per year to the U.S. Army Corps of Engineers and Louisiana Department of Natural Resources. These applications range from public works capital improvement projects to private utility and infrastructure programs. Permits include Section 404, 10, and 408, Section 401 Water Quality Certifications, local levee board, CPRA, and DOTD. He coordinates with many different agencies including the Louisiana Department of Wildlife and Fisheries, Louisiana Office of State Lands, Louisiana Department of Environmental Quality, U.S. Fish and Wildlife Service, NOAA, and various other local, state, and federal agencies.

Project Experience

Bayou Verret & Napoleon Dredging; Lafourche Basin Levee District and St., James Parish Government; St. James Parish, Ascension, Assumption and St. James Parishes, LA - Permit Manager. Oversight of permit drawing preparation, prepared permit applications, submitted follow-up information, agency coordination and responses, and assisted with procurement of wetlands mitigation via mitigation bank to obtain agency permits (LADNR CUP, USACE Section 404 and Section 10, WQC- LDEQ) for the dredging of 97,000 cubic yards of material from Bayou Verret and Bayou Napoleon south of Donaldsonville, LA.

Bayou Lassene Dredging; St. James Parish Council; St. James Parish, LA - Permit Manager. Oversight of permit drawing preparation, prepared permit applications, submitted follow-up information, agency coordination, and responses to obtain agency permits (LADNR CUP, USACE Nationwide) for the dredging of 21,723 cubic yards of material from Bayou Lassene near Vacherie, LA.

Bayou Gardens Blvd. Extension (LA 660 to LA 316); Terrebonne Parish Consolidated Government; Terrebonne Parish, LA – Permit Manager. Prepared permit applications, agency coordination, responses, follow-up, and prepared revised wetland delineation report and wetland mitigation via mitigation bank to obtain agency permits (LADNR CUP, USACE Section 10/404, LDEQ WQC) for the 1.6 mile, 4-lane roadway extension including 180' bridge over St. Louis Bayou.

Morgan City Pump Station and Drainage Improvements, SPN TE-116; Consolidated Gravity Drainage District No. 2; St. Mary Parish, LA - Environmental Project Manager. Provided design services to St. Mary Levee District and Consolidated Gravity Drainage District No. 2 for the construction of a new pump station to replace two older pump stations in Morgan City, LA. The proposed pump station will have approximately 1,600 CFS capacity and will be relocated from the present location on the inside of the city to the outer limits of where the flood protection levees are located.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Adam Trahan

Environmental Professional

Project Assignment:

Oyster Biologist

Name of Firm with which associated:



Years' experience with this Firm:

3 with this firm | 14 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2008/Biology

Active registration: Year first registered/discipline:

US Coast Guard License 3403144/2012

LA DNR Certified Oyster Lease Damage Evaluation Board Oyster Biologist/2009

Other experience and qualifications relevant to the proposed Project:

Adam is an Environmental Professional with experience in estuarine data collection. Adam is knowledgeable in the operation, maintenance, and calibration of a vast array of hydrologic instrumentation. Adam provides scientific dive support for benthic organism collection for population density distribution calculations on identified benthic communities. Adam is the OLDEB oyster biologist of the oyster resource assessment team that works closely with oil and gas companies to evaluate oyster resources on public water bottoms and private leases. The surveys are performed according to protocols established by the Louisiana Department of Wildlife and Fisheries and the Department of Natural Resources Oyster Lease Damage Evaluation Board to define the bottom types according to protocol. Reports detailing the findings are filed with LDWF, CPRA, and the client. Adam has performed water bottom assessments in the Calcasieu/Sabine, Mermentau, Atchafalaya, Barataria, and Breton Sound basins. By being a part of an environmental team, Adam has assisted with wetland delineation efforts for multiple projects for local development, mitigation banks, and infrastructure developments. Adam has provided permitting assistance, wetland delineation assistance, GIS assistance, and culture resource assistance for many other projects.

Project Experience

Little Bayou Pierre and Lake Fortuna Oyster Cultch Project; St. Bernard Parish Government; St. Bernard Parish, LA

– Project Manager/Scientist. Provided permitting and oyster monitoring services for two oyster cultch projects in St. Bernard Parish. Served as the oyster scientist and provided monitoring services with the St. Bernard Parish Government to monitor the projects contractors and that all protocols and permit requirements were followed.

Oyster Reef Cores; The Texas A&M University System; St. Charles Bay Areas, TX - Project Manager and Environmental Professional. Provided professional services to collect vertical core samples through the center of artificial and natural bottom oyster reefs from selected locations within the St. Charles Bay areas of Texas. Mr. Trahan was tasked with project setup and field logistics, along with assisting in field operations and collections of the sample cores.

TNC-NRDA Restoration of Copano Bay Reef; The Nature Conservancy of Texas; Copano Bay, TX - Environmental Professional. Services were provided for the oyster and bay bottom substrate surveys conducted in Copano Bay, Aransas County, Texas. Adam was tasked with data review and comparison, as well as overall final reporting of survey data collected from field operations.

Texas Gas Transmission, LLC Pipeline Abandonment Biological Oyster Survey, Providence Engineering and Environmental Group, LLC– Scientist III/Scientific Sampling Diver. Served as the Oyster Lease Damage Evaluation Board (OLDEB) Certified Oyster Biologist and Scientific Sampling Diver for a 1500 ft. radius oyster assessment. Involved with all assessment activities, sampling methodologies, and insured the OLDEB protocols. M Oyster density and mortality calculations were derived from utilizing square meter sampling protocols. Water quality and bathymetric data was also collected and analyzed for the project area.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Philip Chauvin

Sr. Construction Manager

Project Assignment:

Bidding & Construction Administration Lead

Name of Firm with which associated:



Years' experience with this Firm:

18 with this firm | 11 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1995/Construction Management

Active registration: Year first registered/discipline:

LA CPRA/2023/Certified Levee Inspector

USACE/2019/Construction Quality Management for Contractors

Other experience and qualifications relevant to the proposed Project:

Philip is TBS' Sr. Construction Manager, he handles managing and inspecting construction phase projects for clients. Philip has focused his career on construction management and project representation experience, which includes coordinating and managing construction projects for public and private clients to ensure that they are built to specifications. He also leads and takes part in pre-bid construction activities. He has the overall responsibility for the quality assurance of construction projects for which TBS provides construction administration and representation. He supervises the TBS construction projects' inspectors and representatives and provides technical support to them.

Project Experience

Terrebonne Bay Shoreline Protection Demonstration Project TE-45; LDNR; Terrebonne Parish, LA – Construction Manager. The purpose of the Terrebonne Bay Shoreline Protection and Oyster Reef Demonstration project is to reduce shoreline erosion and promote oyster reef formation while testing the cost-effectiveness of several experimental techniques designed to protect shorelines in areas where unconsolidated, organic, and easily eroded soil types prevent the use of traditional rock dike structures. Three reaches were selected, and three techniques were chosen based on anticipated effectiveness and cost—gabion mats, concrete onshore armor units, and foreshore triangle units. TBS provided construction observation.

New Cut Dune and Marsh Restoration Project TE-37; Louisiana Department of Natural Resources; Terrebonne Parish, LA – The project created barrier island dunes and marsh habitat, and lengthened the structural integrity of the eastern Isles Dernieres by restoring the littoral drift and adding sediment into the near-shore system. TBS provided quality assurance and quality control during construction by providing construction administration and on-site project observation. TBS' scope of services included conducting the pre-construction meeting; reviewing shop drawings, submittals, and pay requests; and facilitating the pre-construction and bi-weekly site progress meetings during dredging activities. Supervised on-site project representatives daily.

Project Management, Contract Management and Construction Inspection for FEMA Hazard Mitigation Grant Program Funds to Elevate Repetitive Loss Structures; Terrebonne Parish Consolidated Government; Terrebonne Parish, LA – Philip served as construction project manager for this project in which TBS provided project management, contract management and construction inspection for the purpose of reducing or eliminating the long-term risk of flood damage to residential structures insured under the National Flood Insurance Program (NFIP) by elevating the structures above the FEMA base flood elevation.

Gulf Intracoastal Waterway (GIWW) Bank Restoration of Critical Areas (EB-10); CPRA; Terrebonne Parish, LA – Construction Project Manager. The goal of the project was to restore critical lengths of deteriorated channel banks with hard shorelines through stabilization/armoring. TBS acted as the on-site representative throughout construction. TBS' scope of services included conducting the pre-construction meeting; reviewing shop drawings, submittals, and pay requests; and facilitating the pre-construction and bi-weekly site progress meetings during dredging activities and stone armament.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert Chauvin

Sr. Project Representative

Project Assignment:

Resident Inspector

Name of Firm with which associated:



Years' experience with this Firm:

4 with this firm | 27 with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1989/Business Administration

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Robert has more than 31 years of inspection experience, during which he has served as a fire marshal and construction inspector. He has performed construction inspection services for marsh creation and restoration projects as well as pump station construction and roadway improvement projects. His duties have included monitoring construction activities, submitting daily work reports, quality assurance inspection of installed work items, measuring and calculating quantities for pay, monitoring contractor's work schedules, and monitoring contractor's adherence to quality control plans and schedules. He also participates in pre-construction meetings, conducts preparation meetings for work activity transitions, and construction progress meetings.

Project Experience

Bayou Chene Flood Control, St. Mary Parish, LA – Served as a Construction Project Representative on this project to build a large flood control structure for the Coastal Protection Restoration Authority in St Mary Parish, LA. In this role, he provided construction monitoring and inspection services for the owner. He recorded daily reports, took photographs, and monitored construction activities and schedules. He conducted quality assurance inspection of installed work items, measured and calculated quantities for pay, and monitoring contractor's adherence to quality control plans and schedules. He also participated in pre-construction meetings, conducted preparation meetings for work activity transitions, and attended construction progress meetings.

Houma Navigation Canal Lock Complex, Terrebonne Parish, LA – Served as a Construction Project Representative on this project to build a new lock system on the Houma Navigation Canal in Terrebonne Parish, LA. In this role, he provided construction monitoring and inspection services for the owner. He recorded daily reports, took photographs, and monitored construction activities and schedules. He conducted quality assurance inspection of installed work items, measured and calculated quantities for pay, and monitoring contractor's adherence to quality control plans and schedules. He also participated in pre-construction meetings, conducted preparation meetings for work activity transitions, and attended construction progress meetings.


Amelia 2/2A Drainage Improvements, Terrebonne Parish, LA – Served as a Construction Project Representative on this project to build a new pump station and enhance stormwater drainage in Amelia, LA. Provided construction monitoring and inspection services for the owner. Conducted site visits to monitor test pile loading and contractor mobilization. Recorded daily reports, took photographs, monitored construction activities and schedules. Conducted quality assurance inspection of installed work items, measured and calculated quantities for pay, and monitoring contractor's adherence to quality control plans and schedules. He also participated in pre-construction meetings, conducted preparation meetings for work activity transitions, and attended construction progress meetings.

Morgan City Pump Station and Drainage Improvements, St. Mary Parish, LA – Served as a Construction Project Representative on this project to build a new pump station and enhance stormwater drainage in Morgan City, LA. Provided construction monitoring and inspection services for the owner. Conducted site visits to monitor test pile loading and contractor mobilization. Recorded daily reports, took photographs, monitored construction activities and schedules.

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.


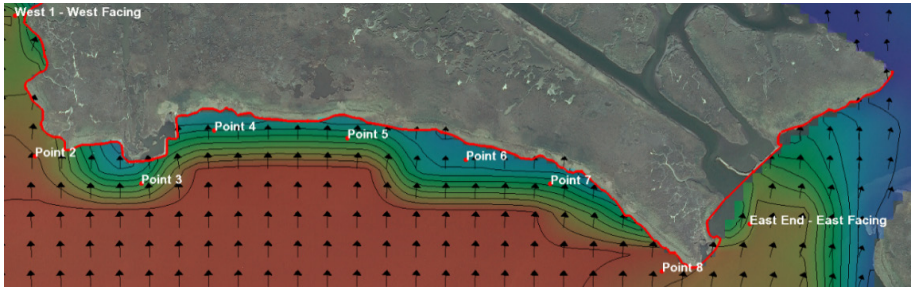

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mid-Barataria Sediment Diversion Project (BA-153) Plaquemines Parish, LA</p> <p>Coastal Protection and Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804 Brad Barth 225.342.7308</p>	<p>The Mid-Barataria Sediment Diversion Project (BA-153) has been identified as a large-scale, long-term restoration project recommended for implementation in Louisiana's Comprehensive Master Plan for a Sustainable Coast. The Project is the largest proposed sediment diversion that will reconnect the Mississippi River to the Barataria Basin. Sediment and freshwater will be transported into the nutrient-starved basin while maintaining the current level of flood protection in the area. The project proposes to have a design flow capacity of 75,000 CFS while maximizing the sediment-to-water ratio. The project aims to reestablish deltaic processes to build, sustain, and maintain land.</p> <p>As a major sub-consultant, TBS provided engineering design services, including the design of the beneficial use of excess material, Mississippi River levee tie-in flood walls, NOV Levee tie-ins, highway LA-23 flood walls, intake wing walls, and outfall channel. TBS also is performing utility relocation coordination and developing the MBSD monitoring plan. Regarding data collection, TBS performed magnetometer survey services and Mississippi River sediment monitoring surveys.</p> <p>The project will utilize an alternative delivery method called Construction Management at Risk (CMAR). The Design Team will work with the CMAR contractor to incorporate constructability into the project's design. TBS has submitted the construction plans and construction has begun.</p> <p>TBS provided the following services:</p> <ul style="list-style-type: none"> Magnetometer Surveys Mississippi River Sediment Monitoring Surveys Mississippi River Levee Tie in Flood walls NOV Levee Tie in LA 23 Flood walls Wing Wall Design (Intake) Outfall Channel Design Utility Relocation Coordination Beneficial Use of Excavated Materials MBSD Monitoring Plan 	
 <p style="text-align: center;">Mid-Barataria Rendering</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2027 (estimated)	\$2,920,000,000	\$3,000,000 (fees)

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. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Terrebonne Oyster Bed Surge Protection System Terrebonne Parish, LA</p> <p>Terrebonne Parish Consolidated Government P.O. Box 6097 Houma, LA 70361 Jennifer Gerbasi 985.873.6433</p>	<p>TBS was selected by TPCG to provide coastal engineering services for the design and permitting of the Terrebonne Oyster Bed Surge Protection System Project. TBS provided surveying, environmental, and habitat data along the 3.5 miles' of shoreline of the Project. Shoreline protection for the Project is located at two sites. Site 1 is approximately 1-mile-long across the north bank of Lake Chien, and Site 2 is approximately 2.5 miles along the northern bank of Lake Tambour. TBS will use this data to analyze coastal processes, prepare engineering plans, and provide supporting environmental documents and permit applications for the Project.</p> <p>TBS is providing the following services:</p> <ol style="list-style-type: none"> 1. Data Collection Services <ul style="list-style-type: none"> • Existing Gap Analysis • Data Collection Plan • Topographic, Bathymetric, Magnetometer and UAS Survey • Geotechnical Investigation 2. Basis of Design (BOD) Phase <ul style="list-style-type: none"> • TE-45 Project Review • Coastal Analysis / Numerical Modeling • BOD Report 3. Engineering Design Services <ul style="list-style-type: none"> • 30 Percent Design and Plans • 95 Percent Design and Plans • 100% Construction Documents 4. Environmental Services <ul style="list-style-type: none"> • Environmental Surveys • Permitting <p>TBS has completed all tasks through the 95% design milestone. Construction is estimated to begin in the 4th quarter of 2024.</p>	
		
	<p>Terrebonne Oyster Bed Project Site</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2025 (estimated)	\$5,200,000 (estimated)	\$5,200,000 (estimated)

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. 3

Project Name, Location and Owner's contact information:

**Barataria Marsh Creation & Ridge Restoration Project
(Lafourche Parish RESTORE)**

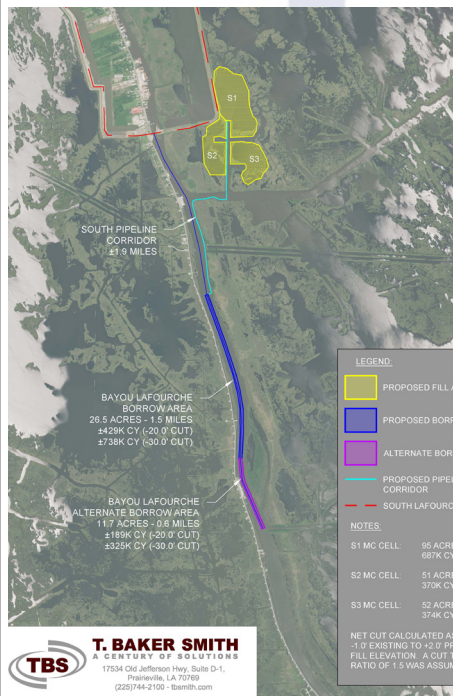
Lafourche Parish, LA

Lafourche Parish Government
P.O. Drawer 5548
Thibodaux, LA 70301
Amanda Voisin
985.493.6616

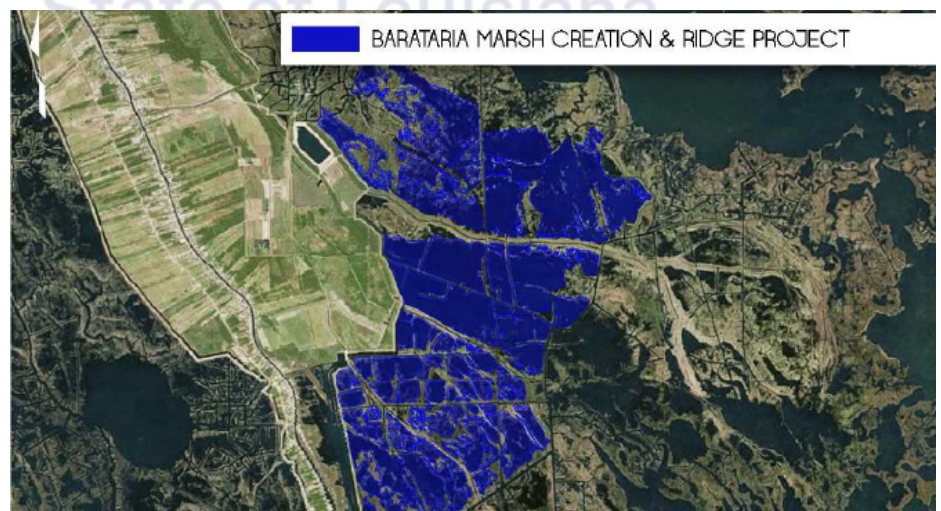
Nature of Firm's Responsibility:

The Lafourche Parish Government (LPG) utilized their "local" RESTORE funds in support of the Barataria Marsh Creation and Ridge Restoration Project. The area targeted for marsh creation was experiencing some of the most catastrophic land loss in Louisiana and was in need of a plan to restore the area. As part of initial scope of work, TBS was tasked with a Feasibility Study to identify various marsh creation projects and borrow sites within the 23,000-acre study area. The four (4) borrow areas consisted of two (2) long distance sediment pipelines utilizing both the Mississippi River and Port Fourchon and two (2) local sediment sources using nearby material from Little Lake and Bayou Lafourche. Each alternative was evaluated based on the size of the project and the cost per acre. Due to the extreme distances for the long-distance sediment pipelines, the two local sediment sources were the most economical and the Bayou Lafourche Marsh Creation Project was recommended for advancement due to its location being within the 2017 Master Plan.

In the second phase of the project, TBS was tasked with data collection services and preliminary design of a 197-acre marsh creation project within three cells just south of the Larose to Golden Meadow Hurricane Protection System. The project consisted of dredging approximately 1.4 million cubic yards of material from Bayou Lafourche and hydraulically pump the sediment to the fill locations. This project was studied and preliminarily designed for application into the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) program.



Barataria Project Map



Barataria Project Area

Completion Date
(Actual or estimated):

2019 (actual)

Estimated Cost:

Entire Project:


N/A

Work for which Firm was Responsible:

\$434,760 (fees)

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. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Gulf Intracoastal Waterway (GIWW) Shoreline Protection Terrebonne Parish, LA</p> <p>Coastal Protection and Restoration Authority 1440 Tiger Dr., Suite B Thibodaux, LA 70301 Brian Babin 985.447.0956</p>	<p>Increased Atchafalaya River flow and marine traffic through the Gulf Intracoastal Waterway (GIWW) has resulted in breaches along the shoreline bank and subsequent scouring of the interior marshes. The project intends to address these causes of land loss by stabilizing the most severely degraded areas of the bank. Due to very poor soil conditions in this area, a large portion of the originally constructed dike has experienced significant settlement in several areas. Several areas of concern have been identified that could potentially create conditions that would allow for floating marsh behind the structure to move into the GIWW in addition to increased erosion. The intent of this maintenance event is to provide a structure that is approximately 300 linear feet in length that would protect these areas and prevent further erosion.</p> <p>Due to the poor soil conditions, recapping the existing structure with additional rip-rap was ruled out and a unique solution was required. TBS designed this shoreline protection project using EcoBales, manufactured by Martin Ecosystems. This product is made up of recycled plastic is a green alternative to standard shoreline protection materials. It collects sediment and supports aquatic ecosystems, thus classified as a living shoreline alternative.</p> <p>TBS provided the following services:</p> <ul style="list-style-type: none"> Topographic and Bathymetric Surveying Environmental Permitting Engineering Design Bidding <p>This project was studied and preliminarily designed for application into the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) program.</p> <div style="text-align: center;">  <p>GIWW</p> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021 (actual)	\$500,000	\$500,000

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. 5


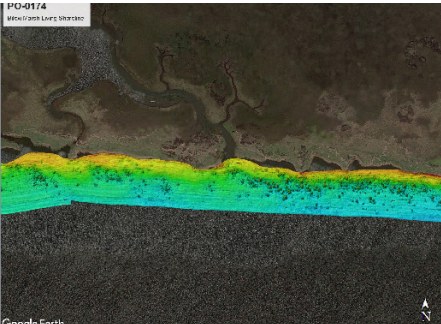
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bayou Dularge Marsh, Ridge & Hydrologic Restoration Project Terrebonne Parish, LA</p> <p>Natural Resources Conservation Service 3737 Government St. Alexandria, LA 71302 Brandon Samson 318.473.7751</p>	<p>The major objective of this restoration project is to use borrow material from Lake Mechant to create and nourish marsh on the south side of Bayou Dularge; restore the ridge along the southern bank line of Bayou Dularge; and reestablish historic hydrologic and salinity conditions by installing a structure that reduces the cross section of Grand Pass and the intrusion of Gulf marine waters into the project area. Sediments will be hydraulically excavated from Lake Mechant and placed to create marsh habitat in current open water and to nourish existing fragmented marsh. The marsh creation areas will utilize earthen containment dikes, existing marsh and/or partial containment features to control hydraulically excavated material. A project map showing preliminary marsh creation / nourishment areas, preliminary borrow area, structure location, and ridge restoration area can be found in the government furnished information. This preliminary layout avoids known cultural resource sites, avoids oyster seed grounds, and minimizes disturbance to oyster leases, and attempts to reduce conflicts with known pipelines.</p> <p>Preliminary features are as follows:</p> <ul style="list-style-type: none"> Ridge Restoration- Approximately 33,208 feet in length. Marsh Creation- create/nourish 661 acres. Water Control Structure- Reduce Grand Pass from 45 feet deep and 900 feet wide to 15 feet deep and 125 feet wide. <p>TBS services included topographic, hydrographic, geophysical, hazard investigation, and LiDAR surveying services across the project area. In addition, TBS is providing coastal engineering support, hydrodynamic monitoring, and oyster surveys on the project.</p> <p>TBS provided the following services:</p> <ul style="list-style-type: none"> Topographic Survey Hydrographic Survey Geophysical Hazard Investigation LiDAR Survey Coastal Engineering Support Hydrodynamic Monitoring Oyster Surveys 	
	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2026 (estimated)	\$60,000,000 (estimated)	\$537,700 (fees)

Bayou Dularge Project Site

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.

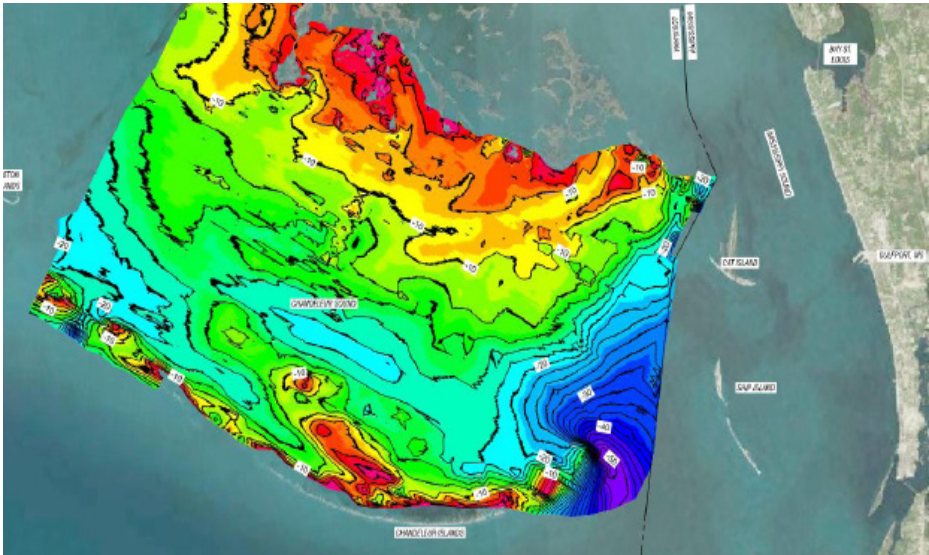
PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Biloxi Marsh Living Shoreline Project (PO-174) St. Bernard Parish, LA</p> <p>Coastal Protection and Restoration Authority 150 Terrace Avenue Baton Rouge, LA 70802 Micaela Coner 225.342.6307</p>  <p>Biloxi Marsh Living Shoreline Project Site</p>  <p>Biloxi Marsh Living Shoreline LiDAR Map</p>	<p>The Biloxi Marsh Living Shoreline Project is located along the eastern shore of Biloxi Marsh, off the shoreline of Eloi Bay and Eloi Point, near the mouth of Bayou la Loutre in St. Bernard Parish, Louisiana. The goals of this project were to reduce shoreline erosion due to natural waves and enhance local oyster production through the implementation of marsh-fringing, bio-engineered oyster reefs to promote the formation of self-sustaining living shoreline protection structures. This project created approximately thirteen miles of oyster barrier reef. PO-0174 was sponsored by the Coastal Protection and Restoration Authority and is funded by the Resources and Ecosystems Sustainability, Tourist Opportunities and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act). The project considered the results, performance, and cost of the adjacent Biloxi Marsh Living Shoreline Demonstration Project (PO-0148) which finished construction in the fall of 2016.</p> <p>TBS provided project control, topographic, bathymetric, hydrographic, magnetometer, and underwater obstruction surveying services for this project along with magnetic anomaly probing investigations. TBS was a sub-consultant to Mott McDonald and provided data collection tasks in support of the design of this project. TBS also provided surveying services for the design of PO-0148, which was the original project. TBS collected wave and WSEL data. TBS deployed wave gages on the protected and unprotected sides of the different types of oyster breakwater structures constructed for the PO-0148 project. These gages collect raw wave data that is processed to determine water period. TBS deployed additional gages to collect WSEL data for the project. Several innovative surveying techniques were utilized on this project to support the design process. The project area had multiple sunken stumps that were difficult to identify using standard surveying techniques. The multi-beam echo sound survey was able to clearly define these underwater obstructions. This project was flown using unmanned aerial vehicles (UAV). The UAV's are capable of collecting high quality aerial videos, aerial infrared images, and LIDAR data.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 (actual)	\$67,000,000	\$550,000 (fees)

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.

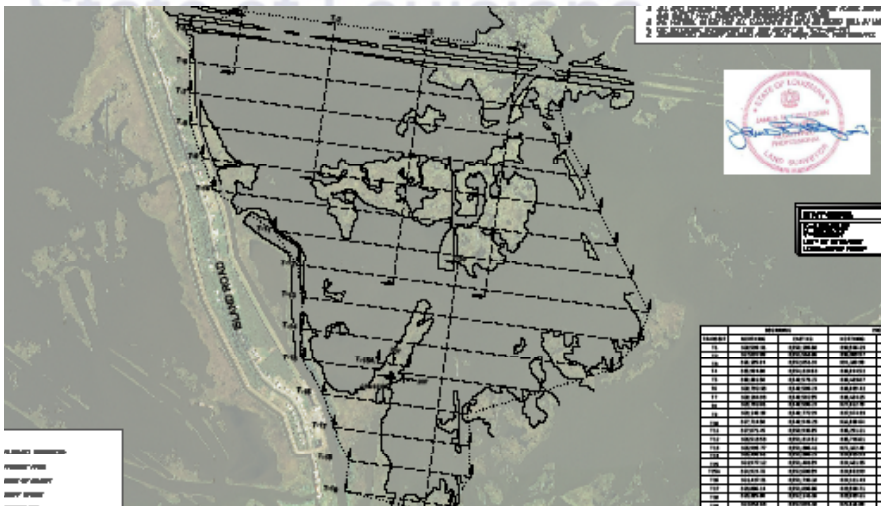
PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>System Wide Assessment and Monitoring Program (SWAMP) Phase II</p> <p>Orleans & St. Bernard Parishes, LA</p> <p>Coastal Protection and Restoration Authority</p> <p>P.O. Box 44027</p> <p>Baton Rouge, LA 70804</p> <p>Dona Weifenbach</p> <p>225.342.6307</p>	<p>TBS was selected to perform bathymetric and geophysical data collection along with basic habitat classification along 1,225 nautical miles of transects located in Chandeleur Sound and the Mississippi River Gulf Outlet. Data collection tasks included establishment of project control, bathymetric surveys, magnetometer surveys, and oyster resource surveys using a combination of side scan sonar and manual ground truthing.</p> <p>The remote location of this project required unique data collection methods. Much of the project area is in remote areas where typical RTK GPS and cell phone (C4Gnet) communication methods could not be used. For these areas, RTK GPS was used with a Broadband Global Area Network (BGAN) satellite communications system paired with Trimble Pivot Real-Time Networks Software on the hydro vessels to receive RTK data coverage across the project area. Where the BGAN satellite communications system was not applicable, Post-Processed Kinematic (PPK) survey methods were used.</p> <p>TBS provided the following services:</p> <ul style="list-style-type: none"> Fathometer Surveys (bathy) Magnetometer Surveys (geophysical) Side Scan Sonar (geophysical) Oyster Resource (geophysical) 	
	 <p>SWAMP Project Map</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 (actual)	N/A	\$537,000 (fees)

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. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Island Road Marsh Creation and Nourishment (TE-0117) Terrebonne Parish, LA</p> <p>Coastal Protection and Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804 Jason Curole 225.342.6307</p>	<p>TBS was selected to perform topographic, bathymetric, and magnetometer surveying services to support the design of 364 acres of marsh creation and 19 acres of marsh nourishment. Specific surveying tasks included installation of a staff gauge, transects of the marsh fill and nourishment areas, hazard/magnetometer transects, pipeline location surveys, surface features and infrastructure surveys, and healthy marsh elevation surveys.</p> <p>TBS utilized innovated survey technology with in-house aerial drones to assist the CPRA project team with planning and developing locations to perform the healthy marsh elevation survey. Both video photography and infrared aeriels were collected and used in analyzing healthy marsh and detailing the containment dike alignment. Marsh bank lines were derived from the infrared data with accurate horizontal positioning. The bank line data was utilized in creating a 3D surface model for performing volumetric calculations of the fill area.</p> <p>TBS provided the following services:</p> <ul style="list-style-type: none"> Surveying services provided: Marsh Creation and Nourishment Surveys (topo & bathy) Hazard/Magnetometer Surveys (geophysical) Pipeline Location Surveys (geophysical) Infrastructure Surveys (topo) Marsh Elevation Surveys (topo) <div style="text-align: center;">  <p>Island Road Marsh Creation Project Map</p> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016 (actual)	N/A	\$145,000 (fees)

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. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bayou Dupont Sediment Delivery – Marsh Creation Phase III (BA-154)</p> <p>Lafourche Parish, LA</p> <p>Coastal Protection and Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804 Cathrine Ricks 225.342.6307</p>	<p>TBS provided the required surveying services, including topographic, bathymetric, and magnetometer surveys, to support the design of three (3) marsh creation cells which total approximately 415 acres in Plaquemines Parish and Jefferson Parish. The project is adjacent to the CPRA Mississippi River Sediment Delivery System – Bayou Dupont (BA-39) project, a project for which TBS also provided surveying services.</p> <p>Within the western most marsh creation area, TBS analyzed existing data collected during the Mississippi River Long Distance Sediment Pipeline Project (BA-43EB) surveyed in 2011 and compared the elevations within this area to the data collected as a part of BA-164. Since survey transects differ in location between these two projects, TBS created a 3D surface model of the BA-43EB project and cut cross sections from this model along the proposed transects being surveyed for BA-164.</p> <p>TBS performed hazard/magnetometer surveys. All anomalies were investigated using a magnetic gradiometer and probing techniques to determine if metallic objects were present. All findings were listed in table format in the plans showing point number, northing, easting, latitude, longitude, top elevation, and material that are found as well as described in the survey report as a part of the final deliverable.</p> <p>TBS provided the following services:</p> <ul style="list-style-type: none"> • Right of Entry • Marsh Creation Surveys (topo & bathy) • Hazard/Magnetometer Surveys (geophysical) • Access Route Surveys (topo & bathy) • Marsh Elevation Surveys (topo) <div data-bbox="602 1432 1458 1766" data-label="Figure"> </div> <p style="text-align: center;">Bayou Dupont Project Map</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 (actual)	N/A	\$168,000 (fees)

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. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Villa Pond Jefferson Parish, LA</p> <p>Jefferson Parish Government 9243 Gulf Beach Hwy. Cameron, LA 70631 Catherine Mayhew 713.375.5417</p>	<p>TBS has performed consulting services and construction plan design to improve the Lake Villa Pond ecosystem and to also provide recreational enhancements to the site. In the conceptual design stage of the project, TBS prepared options for the site and provided identifying features, a conceptual rendering of the site options, and a conceptual construction cost of each site option. Goals of the project include restoration of the pond and marsh, water quality improvement, recreational site improvements and general site improvements.</p> <p>The project was split into a hydraulic connectivity project and a recreational improvement project to allow a staged construction and implementation of the improvements. The hydraulic design included a model of the pond in the existing state and with options for connectivity design to maximize water quality improvements. The model included tidal, wind, and rainfall variables that predicts dissolved oxygen over a month-long study period. Based on the results, a connection channel was designed to maximize environmental improvement while limiting the future maintenance and costs. TBS performed the construction drawing preparation and design and is assisting with the permitting. The proposed project will more than double the volume of the ponds, create a 10 foot wide connection to Lake Pontchartrain, establish new wetlands, and protect existing vegetation.</p> <p>The recreational improvements are aimed at creating a destination for interaction and education with the wetlands and lakeside environment. A new trail is proposed around the redesigned pond with two educational pavilions. A pedestrian bridge crosses over the new lake connection channel to improve accessibility. Additional trees and landscaping will improve the aesthetics of the site, increase the shaded areas, and reduce the maintenance burden by specifying native plant species.</p> <p>TBS' conceptual design deliverables were leveraged to identify and secure funding from the Flood Protection Authority and the Environmental Protection Agency Pontchartrain Restoration Program. TBS also performed the topographic and hydrographic surveying of the site for plan production and hydraulic model creation.</p> <p><i>This project is in the final design stage and will be bid when total construction funding has been secured.</i></p>	
	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2025 (estimated)	\$1,095,700 (estimated)	\$1,095,700 (estimated)

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:	
Jefferson Parish Government	Swift Energy Operating, LLC; Double Eagle Marine, LLC; Tommie Vizier and Sons Towing Co, LLC; Premier Tugs, LLC; Daigle Towing Service, LLC; T. Baker Smith, LLC	Because TBS held a portion of the liability, Jefferson Parish offered a settlement, which we negotiated with them and which was approved by Jefferson Parish Council on April 30, 2014. Jefferson Parish prevailed in this litigation, which was settled out of court.

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

FIRM HISTORY

T. Baker Smith, LLC (TBS), an *Engineering News Record* Top 500 Design Firm, has provided professional engineering, environmental, surveying, and construction management services in Louisiana for over a century. TBS was founded in Houma, LA in 1913 and has since expanded to additional offices throughout the state of Louisiana as well as Texas and Mississippi. In 1936, our founder, T. Baker Smith, engineered the first paved road in Houma, LA. In the decades since then, the mission of "turning ideas into reality" for clients continues to challenge TBS' professionals to remain on the cutting edge of technology, so that we can provide the most economically viable solutions to our clients.

TBS is dedicated to providing innovative civil engineering and design services for our clients. Our experience covers a broad range of public works, land development, industrial, pipeline, and facility projects. Our civil engineering and design services include flood protection and drainage systems, pump stations, hydraulic and hydrologic studies, water and sanitary sewer design, treatment facilities, earthwork and site developments, erosion control structures, and earthen levees.

PROFESSIONAL TRAINING AND EXPERIENCE

Our Training. Our professionals hold degrees in civil, mechanical, structural, environmental, and coastal engineering; landscape architecture; mechanical engineering technology; geomatics; industrial technology; drafting and design technology, etc. All of our professionals have proper state licenses, registrations, and certifications to provide professional services for our clients. The resumes in Section K of this TEC Professional Services Questionnaire include the professional training and experience of our carefully curated team selected for this contract.

Our Experience. For over a century, TBS has provided engineering, surveying, and environmental consulting services along the Gulf Coast. Headquartered in south Louisiana, TBS is dedicated to protecting and restoring our coast. TBS has provided consulting services on coastal projects in Louisiana for over three decades. The critical synergy between flood protection and coastal restoration is our solution for survival. With nine offices and over 290 associates living in our coastal Louisiana parishes, TBS brings a sense of urgency to these efforts with integrated project plans utilizing top-of-the-line technology. Our staff has been working closely with federal, state, and local stakeholders on state and local projects that enhance our coast and protect our communities. TBS has the experience, resources, local knowledge, and perhaps most importantly, the passion and sense of urgency to preserve our communities and to provide Jefferson Parish with solutions to protecting and restoring our coast.



Jason Chauvin, PE | Coastal Engineering Lead Professional

Jason will provide expertise for marsh and ridge restoration, shoreline stabilization and protection, beneficial use of dredge material, living shoreline design, design analysis and reports. Jason has 13 years of experience with maritime and coastal engineering projects, as well as surveying and civil projects. He oversees projects through planning, data collection, design, bidding, construction administration, and monitoring phases.



TEC Professional Services Questionnaire

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



Brady Trahan, PWS | Professional Wetland Scientist

Brady will provide expertise for biological and environmental assessments of wetlands, technical evaluations, cost estimates, opinions of probable construction cost and field investigations. He is primarily involved in regulatory and ecological compliance for pipeline and utility corridor transmission activities, oil and gas exploration and production activities, land resource and wetland mitigation management, and commercial and large scale residential developments. Brady has fourteen years of experience in wetland delineations and mitigation, Section 10/404 permitting, Coastal Zone Management permitting, oyster assessments, and environmental site assessments.



Lauren Averill, PE | Coastal Planning & Development Lead

Lauren will provide coastal grant writing, outreach and educational support and development of associated marketing materials. She is experienced with coastal government funding strategies, project development, and has a proven track record in grant awards. She was previously an in-house contractor for the New Orleans District Corps of Engineers, including coastal restoration and hurricane restoration projects.

FIRM SIZE

In addition to your dedicated project team, TBS has over 290 staff members firm-wide including civil, structural, and environmental engineers, land surveyors, planners, landscape architecture, environmental scientists, biologists, construction administrators and project representatives. TBS has the quality and quantity of professionals to meet all of your needs, including delivering a high quality project in a compressed time period.

CAPACITY FOR TIMELY COMPLETION OF PROJECTS

TBS is committed to continuously improving project completion time and schedules. With over 290 associates and nine office locations firm-wide, we have sufficient staff and resources to handle the tasks associated with this project. Our associates range from discipline leaders and lead professionals overseeing the quality of work to project managers managing the project's progress to project technicians and assistants providing advanced technical support to get the job done. Our integral approach to projects allows us to communicate, manage, and use resources from various office locations daily. Additionally, TBS continues to recruit and employ highly qualified professionals to ensure the continued growth of the quality services we provide to our communities.

PAST PERFORMANCE

Since establishing our office in Metairie, LA, in 2015, ***TBS has successfully completed 38 projects for the Jefferson Parish Government, including engineering, surveying, and environmental tasks.*** TBS has successfully completed a significant number of coastal projects in the parishes of South Louisiana, including barrier island and headland restoration, beach and dune nourishment, marsh creation and nourishment, ridge restoration, living shorelines, shoreline protection, wetland mitigation, dredging, beneficial use of dredged materials, and flood protection projects including levees, flood walls, and gravity and forced drainage projects. The key TBS personnel listed in section K possess decades of experience in the preliminary planning, design, permitting, bidding, construction administration, and monitoring of coastal restoration and protection projects.

LOCATION OF THE PRINCIPAL OFFICE

TBS will manage and execute projects resulting from this request from our Metairie, LA office located at 6660 Riverside Drive, Suite 101, Metairie, LA 70003. Additional support can be provided from our other office locations as needed.

LEGAL PROCEEDINGS

As described in Section M above, TBS was involved in a legal matter with Jefferson Parish that was settled in April of 2014. TBS was named an additional party to the suit. This legal matter was not related to any parish project or contract between TBS and the parish, nor was it related to any substandard or negligent work by TBS on a parish project or contract.

PRIOR SUCCESSFUL COMPLETION OF PROJECTS

Since 1913, TBS has provided public works solutions that improved the quality of life in the communities we helped build. From master planning and sustainable design to complete project management and government regulation, our public works solutions are targeted to fit each project scope. TBS has built long-term relationships with repeat clients in the public market sector. In the past five years, TBS has worked on more than 500 projects in the public sector.

TEC Professional Services Questionnaire

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

The projects highlighted in Section L above showcase our ability to complete coastal projects of varying scales and complexity.

MINIMUM REQUIREMENTS

Requirement	TBS Associate
1. The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered architect or a professional engineer in the State of Louisiana.	Kenneth Wm. Smith, PE, PLS, FACEC Chief Executive Officer LA PE 24642
2. A professional in charge of the project who is a professional engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved.	Jason Chauvin, PE, MS Lead Professional, Coastal Engineering LA PE 39979
3. One employee who is a professional engineer registered in Louisiana in the field or fields of expertise required for the project (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline.)	Denton Graham, PE Coastal Engineer LA PE 46385

CONCLUSION | EXPERIENCE WITH COASTAL IMPROVEMENT PROJECTS

For over a century, TBS has provided professional design and consulting solutions in south Louisiana. Our experience, resources, enthusiasm, and commitment to excellence uniquely qualify us to provide the high level of service required for this type of project. While evaluating TBS' qualifications, please consider the following unique qualities of our firm that will be an asset to Jefferson Parish:

- TBS has the resources and equipment to perform the services requested, plus additional innovative technology.
- TBS is a fully integrated firm with coastal engineers, environmental professionals, and surveyors working together to execute task orders successfully.
- TBS is a Louisiana-owned and operated consulting firm with professionals and field staff in six coastal parishes, including Jefferson Parish.

TBS Local Public Agency Clients

- | | |
|--|--|
| <ul style="list-style-type: none"> • Acadiana Planning Commission • Ascension Parish Government • Bayou Lafourche Fresh Water District • Bayou L'Ourse Gravity Drainage District #1 • City of Alexandria • East Baton Rouge Parish • City of Central • City of Covington • City of Kenner • City of Mandeville • City of Harahan • City of New Orleans • City of Thibodaux • City of West Monroe • Consolidated Gravity Drainage District No. 2 of St. Mary Parish • Flood Protection Authority-East • Houma-Terrebonne Airport Commission • Lafayette Consolidated Government • Lafayette Parish School System • Lafourche Parish Government • Lafourche Parish Water District No. 1 • Morgan City Harbor and Terminal District | <ul style="list-style-type: none"> • North Lafourche Conservation, Levee, and Drainage District • Plaquemines Port Harbor & Terminal District • Port of Brownsville • Port of Corpus Christi Authority • Port of Galveston • Port of Houston Authority • Port of New Orleans • Port of South Louisiana • St. Charles Parish • St. James Parish Council • St. Mary Levee District • St. Mary Parish Government • St. Mary Parish Water & Sewer Commission No. 1 • St. Mary Parish Water & Sewer Commission No. 4 • St. Tammany Parish Government • Tangipahoa Parish Government • Terrebonne Levee & Conservation District • Terrebonne Parish Consolidated Government • Terrebonne Port Commission • Town of Grand Isle • Town of Lockport • Jefferson Parish Government |
|--|--|

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

Name:		Public Address:		
T. Baker Smith, LLC		Ms. Lorne Autin P. O. Box 2266		
License/Certificate Information w/ Supervision				
License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000551	Active	12/20/2005	03/31/2026	Mr. Kenneth William Smith # PLS.0004772

TEC Professional Services Questionnaire

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



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

Signature: Brian E. Moldaner Print Name: Brian E. Moldaner, PE, MBA

Title: Chief Growth Officer Date: 07.16.2024



An aerial photograph of a coastal wetland area. The image shows a large body of water in the foreground and middle ground, with several small, irregularly shaped islands or peninsulas. The land is covered in green vegetation, likely marsh grasses and trees. A prominent peninsula in the lower-left foreground is densely forested with green trees. To the right of this peninsula, there is a small, light-colored, rectangular area that appears to be a dock or a cleared section of land. The sky is overcast with soft, grey clouds. The overall scene depicts a natural, undeveloped coastal environment.

TEC FORM

GEOENGINEERS

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

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

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:

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.

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

<input type="checkbox"/> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	
<input type="checkbox"/> Professional Land Surveyors		<input type="checkbox"/> 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

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.

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
 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.		
2.		
3.		

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

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. 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:

Project Assignment:

Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Denzel Flores, PE Staff Civil Engineer/Geotechnical Engineering
Project Assignment:
Geotechnical Engineer
Name of Firm with which associated:
GeoEngineers, Inc.
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
BS/2018/Civil Engineering/Louisiana State University
Active registration: Year first registered/discipline:
First year registered: 2018 Discipline: Civil PE License No. 149942/TX
Other experience and qualifications relevant to the proposed Project:
Denzel is actively involved in performing and managing many of GeoEngineers' geotechnical explorations and evaluations. Denzel has been on the forefront of over a dozen GeoEngineers projects, including many CPRA projects, performing field investigations using land-based, water-based, and amphibious drilling equipment. His capabilities include field investigations with various drilling equipment for soil borings and CPTs, and conducting laboratory tests and data interpretation. He is skilled in slope stability analyses with GeoStudio's Slope/W and USACE's Method of Planes, settlement analyses using SETANL, Settle3, traditional Boussinesq methods, and PSDDF, as well as deep foundation design with APILE, Driven, and LPILE.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Project Assignment:	
Name of Firm with which associated:	
Years' experience with this Firm:	
Education: Degree(s)/Year/Specialization:	
Active registration: Year first registered/discipline:	
Other experience and qualifications relevant to the proposed Project:	

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:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

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

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

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

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


Signature: David S. Eley Print Name: David S. Eley
Title: Principal Geotechnical Engineer Date: 6/19/2024



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/11/2024 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. David Stephen Eley
4399 Chelsea Drive
Baton Rouge, Louisiana 70809

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. David Stephen Eley		
License/Certificate Type - Number	Expiration Date	
PE.0026373	09/30/2025	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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

Disclaimer


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



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/18/2024 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Ms. Jennifer E. Aguetant
4624 Woodlake Drive
Baton Rouge, Louisiana 70817-1926

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Ms. Jennifer E. Aguetant		
License/Certificate Type - Number	Expiration Date	
PE.0035077	03/31/2026	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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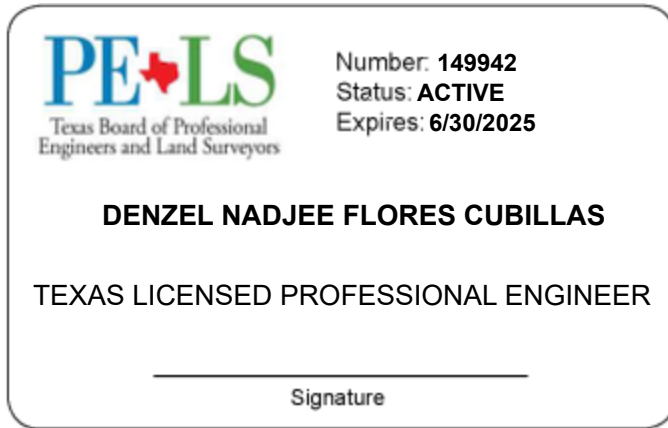
Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

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

Please print this page and cut out the pocket card below.

[print](#) . . . [close](#)



An aerial photograph of a large body of water, possibly a bay or estuary, with several small islands and peninsulas. The water is a light brownish-grey color. The islands are covered in green vegetation. In the foreground, there is a shoreline with a dense line of green trees and a small dock or pier extending into the water. The sky is overcast with grey clouds.

TEC FORM

THOMPSON

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Coastal Engineering Consulting Services As Needed Parish Wide Jefferson Parish Government
SOQ 24-020

B. Firm Name & Address:

Thompson Engineering, Inc.
2970 Cottage Hill Rd., Ste. 190
Mobile, AL 36606

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:

Cameron Crigler, PE, Principal Engineer (LA#41403)

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.

Principal Engineer: Cameron Crigler, PE (LA#41403)
Email: ccrigler@thompsonengineering.com

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

62 Administrative	3 Estimators	Specification Writers
7 Architects (Licensed)	7 Geologists	13 Structural Engineers
Chemical Engineers	10 Geotechnical Engineers	Graduate Engineers
13 Civil Engineers	1 Interior Designers	18 Project Managers
196 Construction Inspectors	3 Landscape Architects	Clerical
2 Ecologists	11 Land Surveyor	1 Grant/Funding Specialist
4 Electrical Engineers	2 Mechanical Engineers	Sanitary Engineers
Engineer Intern	3 Environmental Engineers	
11 Professional Land Surveyors		TOTAL TBD (KC)

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

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

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1.		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: YES NO		
I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, 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. Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606	Engineering, Architecture, Drilling, Survey, Construction Materials and Laboratory Testing, Environmental Program Management, Construction Management, Design/Build	Yes
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of this Project: 500+		

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:
Cameron Criger, PE, Principal Engineer
Project Assignment:
Senior Geotechnical Engineer
Name of Firm with which associated: Thompson Engineering, Inc.
Years' experience with this Firm:
26 years
Education: Degree(s)/Year/Specialization:
BS/Civil Engineering/1999/University of South Alabama
Active registration: Year first registered/discipline:
Professional Engineer: Alabama #26300 (2005); Georgia #PE044473 (2019); Louisiana #41403 (2017); Mississippi #19395 (2009); Texas #129699 (2018)
Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

Mr. Crigler has 26 years of experience in project management and engineering design specializing in the geotechnical engineering sciences. He has managed and supported projects related to transportation, federal, industrial, and commercial construction projects involving roadway and bridge foundation design, shoreline stabilization, marsh creation, marine structures, as well as low-rise and mid-rise structures. He has significant experience in a wide range of geotechnical applications including stability and settlement of embankments and containment berms in soft soils, soft soil remediation options, shallow and deep building foundation design, mechanically stabilized earth walls and reinforced soil slopes, bulkhead and relieving platforms, roadway buildup design, and bridge foundation design and construction testing. Mr. Crigler is proficient in the use of various geotechnical software including Slope/W, APile, LPile, GROUP, SHAFT, Settle3D, Gint, GRLWeap, PCASE, Support IT, MSEW, and DarWin. He has been extensively involved with the Soils Laboratory and has been AMRL qualified to perform permeability, triaxial shear, consolidation, and other higher-end soil tests. Mr. Crigler currently serves as Thompson Engineering's Principal Geotechnical Engineer. As such, he reviews geotechnical deliverables and provides Quality Assurance reviews and consultations on various multi-disciplined projects.

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:	
Shoreline Protection at Jean LaFitte National Historical Park and Preserve (JELA) Marrero, LA Stantec 10509 Timberwood Circle Suite 100 Louisville, KY 40223 Contact: Jay Mazzoni 502.212.5055	Permitting Geotechnical Investigations & Sampling Laboratory Testing Thompson Engineering (Thompson), while teamed with Stantec, had the responsibility to perform geotechnical drilling, sampling and laboratory testing for 30 borings performed in a shallow water and marsh environment. Included in Thompson's responsibilities was obtaining the permitting from the National Park Service (NPS) and US Army Corps of Engineers in order to perform the field work. Field work required the use of Thompson's shallow draft pontoon barge outfitted with a skid mounted soil drilling rig.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019		\$228,000

PROJECT NO. 2	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:

TEC Professional Services Questionnaire

<p>Hurricane Protection, New Orleans East Levee, Lake Pontchartrain & Vicinity LPV 109.02a New Orleans, LA</p> <p>USACE c/o URS Corp. 917 Western America Circle Mobile, AL 36609 251.344.4744</p>	<p>Undisturbed In-Situ Sampling, CPTU Soundings, Geotechnical Instrumentation, Earthen and Sheet Pile Cofferdam Design, Slope Stability Analysis, Dewatering and Excavation Plans, Laboratory Testing; Thompson was responsible for the installation of the equipment at strategic locations along and beneath the levee foundations. Magnetic extensometers were installed in boreholes to monitor settlement and heave. Vibrating wire piezometers will be used to monitor groundwater level fluctuations. Slope inclinometers will be used to monitor lateral earth movements in the levee embankments. Benchmarks are installed to establish reference elevations and settlement plates will allow monitoring of levee settlements. Undisturbed in-situ sampling of levee clay soils and supporting natural soils was completed for the evaluation of end of construction condition and long-term subsoil strength gain for verification of post-construction factors of safety. Geotechnical laboratory index testing was performed for relevant subsoil properties and for in-situ shear strength estimation. CPTU soundings were performed for in-situ condition confirmation.</p>	
<p>Completion Date (Actual or estimated):</p> <p>2009</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p>	<p>Work for which Firm was Responsible:</p> <p>\$717,000</p>

<p>PROJECT NO. 3</p>		
<p>Project Name, Location and Owner's contact information:</p>	<p>Nature of Firm's Responsibility</p>	
<p>Widening of Florida Avenue Canal Phases II and III New Orleans, LA</p> <p>USACE New Orleans District 7400 Leake Avenue New Orleans, LA 70118 Neil Hickok 504-821-2400</p>	<p>Bulkhead Design Parameters, Dewatering Design, Global Stability Analysis, Groundwater Monitoring, Inclinometers, Vibrating Wire Piezometers, Inclinometer Monitoring</p> <p>Thompson Engineering was selected to provide the bulkhead design parameters, dewatering design, global stability analysis, groundwater monitoring, Inclinometer and vibrating wire piezometer installation, and inclinometer monitoring for phases II and III of the Florida Avenue Canal Widening Project.</p> <p>Deep dewatering wells were required to lower the groundwater to facilitate construction of the pile-supported canal bottom. In order to minimize the potential for settlement of utilities and homes in the area, recharge wells were also installed near the outside extents of the project area.</p>	
<p>Completion Date (Actual or estimated)</p> <p>2016</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p> <p>\$50,000,000</p>	<p>Work for which Firm was Responsible:</p> <p>\$500,000</p>

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Louisiana Avenue Improvements - A Southeast Louisiana Urban Flood Control Project</p> <p>USACE New Orleans District c/o URS Corporation 3500 North Causeway Blvd., Ste 900 Metairie, LA 700002 Dwayne Smith 504-837-6326</p>	<p>Geotechnical Drilling, Laboratory Testing Services, Soils Classification Tests, Strength Tests</p> <p>Thompson performed geotechnical site investigation and laboratory testing for drainage improvements to Louisiana Avenue from Constance Street to South Claiborne Avenue in Orleans Parish. Because of the large number of utilities in the area and high traffic along the project right-of-way, a traffic control plan for drilling of the four-lane roadway was required. A total of 34 soil test borings were performed to depths of ten and 75-feet. Thompson's field geotechnical laboratory was utilized for much of the soil analysis.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012		\$273,717

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>New Orleans Levees 110 and 110.01 New Orleans, LA</p> <p>URS Corporation 917 Western American Circle Mobile, AL 36609 Contact: Martin Pospisil 504.293.0055</p>	<p>Undisturbed In-Situ Sampling, CPTU Soundings, Geotechnical Instrumentation, Earthen and Sheet Pile Cofferdam Design, Slope Stability Analysis, Dewatering and Excavation Plans, Laboratory Testing</p> <p>Thompson Engineering (Thompson) performed Geotechnical Drilling and Testing on several Corps of Engineers Levee projects for the design to raise and improve existing levees to provide flood protection during a 100-year storm event.</p> <ul style="list-style-type: none"> ■ LPV 110 involved the demolition the existing CSX Gate and reconstruction of a new, higher and wider gate. The project also called for 250 ft. of pile founded T-wall. ■ LPV 111.01 included making improvements to and raising the elevation of 27,984 ft. of existing levee from the CSX Railroad to the Michoud Canal. 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2009 2011		\$300,000 \$1,700,000

PROJECT NO. 6	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:

TEC Professional Services Questionnaire

Phase II Borrow Pit Investigation Avondale, LA URS Corporation 917 Western American Circle Mobile, AL 36609	Thompson was responsible for drilling and laboratory services on this project. In order to minimize disturbance in possible wetlands, over 9 miles of mulching of small trees was performed to gain borehole access. Two full time drill crews were required for 2 months to meet the accelerated schedule. An extraordinary amount of classification type tests were performed by the soils laboratory within the project schedule.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2009		\$240,974

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Treasure Chest Casino - Multiple Projects Kenner, LA Boyd Gaming Corporation 5050 Williams Blvd. Kenner, LA 70065 Dean Naquin	Slope remediation was planned along Lake Pontchartrain and deep soil mixing panels were designed to allow for steeper slopes to be constructed. Additionally, dredging beneath the casino vessel was required so the existing slopes had to be modified to allow for access beneath the vessel structure. Thompson performed soil borings and laboratory testing programs to characterize subsurface conditions around the existing casino structure and within the existing slopes. Geotechnical lateral earth models and slope stability models (SLOPE/W) were developed for various water conditions and subsurface soil strengths. The models were used to prepare design drawings for the remediation efforts. Other services performed by Thompson were permitting, traffic studies, vessel relocation designs, and owner representation during construction.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012-2019		\$1,209,217

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

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

Name:		Public Address:		
Thompson Engineering, Inc., of Louisiana		2970 Cottage Hill Road, Suite 190		
License/Certificate Information w/ Supervision				
License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003125	Active	03/30/2004	09/30/2024	Mr. Michael Davis Jr. # PE.0044464

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

Name:		Public Address:			
Thompson Engineering, Inc., of Louisiana		2970 Cottage Hill Road, Suite 190			
License/Certificate Information w/ Supervision					
License	Status	First Issuance Date	Expiration Date	Supervisor(s)	
VF.0000699	Active	01/22/2013	09/30/2025	Mr. Daniel Brad Busby # PLS.0005090	

TEC Professional Services Questionnaire

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

Signature: 

Print Name: Michael V. Manning

Title: President, Thompson Engineering, Inc.

Date: 16 July 2024

An aerial photograph of a coastal wetland area. The image shows a large body of water in the foreground and middle ground, with several small, irregularly shaped islands or peninsulas. These landmasses are covered in dense green vegetation, likely marsh grasses or trees. The water appears calm, reflecting the sky. In the background, the horizon is visible under a cloudy sky. A dark blue vertical bar is on the right side of the image.

TEC FORM

EMERGENT METHOD



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**SOQ 24-020 Coastal Engineering Consulting Services as needed parish
wide**

Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

20-Jun-2024 01:40:20 PM

Technical Evaluation Committee (TEC) Questionnaire

Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-020 Coastal Engineering Consulting Services as needed parish wide

B. Firm Name & Address:

Emergent Method, LLC
200 Laurel St., Suite 200
Baton Rouge, LA 70801

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:

N/A

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.

N/A

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

<input type="checkbox"/> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input checked="" type="checkbox"/> 2 Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	
<input type="checkbox"/> Professional Land Surveyors		<input checked="" type="checkbox"/> 2 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

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.

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
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.		
2.		
3.		

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

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. 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:

Therese Walker, Managing Director

Project Assignment:

Outreach and Engagement: Principal

Name of Firm with which associated:

Emergent Method, LLC

Years' experience with this Firm:

6.5

Education: Degree(s)/Year/Specialization:

B.A. / 2017 / Mass Communication

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Therese Walker is an experienced consultant with expertise in strategic communication, outreach and engagement, and public relations. In her role as a managing director at Emergent Method, Therese develops and executes comprehensive, innovative, and tactical communication strategies and campaigns to support the firm and its clients in a variety of efforts.

Project Manager/O&E Task Lead, Mississippi River Mid-Basin Sediment Diversion Program, Louisiana Coastal Protection and Restoration Authority (June 2019 – Present)

TEC Professional Services Questionnaire

Leads overarching communications strategy for complex coastal infrastructure program totaling nearly \$3 billion. Creates program messaging, develops strategy and campaigns, and maintains critical relationships with stakeholder groups. Leads media relations to support public perception, including developing press releases and advisories, fielding media inquiries, and serving as the program's spokesperson. Leads community outreach and engagement efforts, including facilitating workshops and public meetings by giving presentations, fielding questions, and serving as the liaison between the technical program team and community members. Develops and maintains critical relationships with government leaders from local to state and federal delegations and agencies. Maintains program brand consistency across all communication channels, including presentations, talking points, print deliverables, and digital/social content.

Task Lead, Fiscal Year 2023, 2024, and 2025 Annual Plans, Louisiana Coastal Protection and Restoration Authority (January 2022 – Present)

Supports overarching communications strategy for the Louisiana CPRA Annual Plans, which inventory projects, present implementation schedules, and identify funding schedules and budgets to provide an update on the state's efforts to protect and restore its coast and describe the short-term and long-term results that citizens can expect to see as the state progresses toward a sustainable coast. Leads content development through building relationships with project teams, administrative personnel, and executive leadership to understand project information and synthesize its budget, purpose, and status for public audiences. Coordinates community outreach and engagement efforts, including facilitating workshops and public meetings by giving presentations, fielding questions, and serving as the liaison between the technical program team and community members. Ensures program brand consistency across all communication channels, including presentations, talking points, print deliverables, and digital/social content.

Task Lead, 2023 Coastal Master Plan, Louisiana Coastal Protection and Restoration Authority (November 2022 – May 2023)

Coordinated overarching communications strategy for CPRA's comprehensive annual effort to evaluate the state's natural resources, ongoing risks, and preparations to protect Louisiana's resources while reducing land loss and flood risk. Supported the development of program messaging and content through building relationships with key stakeholder groups, including project engineers, elected officials, and community representatives. Managed community outreach and engagement efforts, including facilitating workshops, public meetings, and other various meeting facilitation needs by giving presentations, fielding questions, and serving as the liaison between the technical program team and community members. Ensured program brand consistency across all communication channels, including presentations, talking points, print deliverables, and digital/social content.

Outreach and Engagement Lead, Rebuild North Carolina Homeowner Assistance Program, North Carolina Office Of Emergency Management (June 2018 – March 2022)

Developed, finalized, and facilitated the execution of a comprehensive outreach and engagement strategy targeting over 20,000 potential program participants impacted by Hurricane Matthew in September 2016.

Communication Support, Louisiana Watershed Initiative, Office of Community Development (June 2018 – March 2020)

TEC Professional Services Questionnaire

Provides communication support for the Louisiana Watershed Initiative on outreach, engagement, and communication activities through both digital and traditional channels.

Project Manager, Outreach and Engagement, Texas Homeowner Assistance Program, Texas General Land Office (Sept 2018 – March 2020)

Developed, finalized, and facilitated the execution of a comprehensive outreach and engagement strategy targeting over 30,000 homeowners and potential applicants across multiple regions in Texas who were impacted by Hurricane Harvey in August 2017. Managed and advised on day-to-day operations for all aspects of outreach initiatives and applicant relations to relevant stakeholders and crafted strategic communications and comprehensive outreach to potential applicants, stakeholders, government officials, and the general public.

Communication, Outreach, and Engagement Support, Restore Louisiana Homeowner Assistance Program, Office of Community Development (March 2018 – March 2019)

Responsible for all aspects of applicant relations, including direct communication, program complaints, constituent inquiries, and email inquiries. Developed overarching social media strategy for Restore Louisiana channels in addition to planning and executing monthly social media content calendar based on program updates and audience trends.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Keesler Morrison, Senior Consultant

Project Assignment:

Outreach and Engagement

Name of Firm with which associated:

Emergent Method, LLC

Years' experience with this Firm:

TEC Professional Services Questionnaire

3

Education: Degree(s)/Year/Specialization:

B.S. / 2020 / Economics

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Keesler Morrison is a skilled management consultant with a background in strategic communication, strategic planning, project management, and process development. Keesler supports statewide outreach and engagement projects for several of the firm's public-sector clients, where he develops and executes tactical outreach and engagement plans. Keesler has experience with both digital and traditional outreach campaigns, including social media, public meeting facilitation, and media relations.

Outreach and Engagement Lead, Mississippi River Mid-Basin Sediment Diversion Program, Louisiana Coastal Protection and Restoration Authority (June 2021 – Present)

Responsible for implementing all outreach and engagement efforts related to CPRA's Mid-Basin sediment diversion program, including facilitating outreach and communication with the various stakeholder groups of the program and CPRA. Supports the development of strategic communication tools, including talking points, digital and print educational materials, and presentations for program team members and CPRA leadership. Supports day-to-day program management by documenting key tasks, coordinating meeting logistics, and working with the varied program functional leads to support outreach and engagement efforts.

Outreach and Engagement Coordinator, Fiscal Year 2023, 2024, and 2025 Annual Plans, Louisiana Coastal Protection and Restoration Authority (January 2022 – Present)

Supports overarching communications strategy for the Louisiana CPRA Annual Plans, which inventory projects, present implementation schedules, and identify funding schedules and budgets to provide an update on the state's efforts to protect and restore its coast and describe the short-term and long-term results that citizens can expect to see as the state progresses toward a sustainable coast. Leads content development through building relationships with project teams, administrative personnel, and executive leadership to understand project information and synthesize its budget, purpose, and status for public audiences. Coordinates community outreach and engagement efforts, including facilitating workshops and public meetings by giving presentations, fielding questions, and serving as the liaison between the technical program team and community members. Ensures program brand

TEC Professional Services Questionnaire

consistency across all communication channels, including presentations, talking points, print deliverables, and digital/social content.

Outreach and Engagement Coordinator, 2023 Coastal Master Plan, Louisiana Coastal Protection and Restoration Authority (November 2022 – May 2023)

Coordinated overarching communications strategy for CPRA's comprehensive annual effort to evaluate the state's natural resources, ongoing risks, and preparations to protect Louisiana's resources while reducing land loss and flood risk. Supported the development of program messaging and content through building relationships with key stakeholder groups, including project engineers, elected officials, and community representatives. Managed community outreach and engagement efforts, including facilitating workshops, public meetings, and other various meeting facilitation needs by giving presentations, fielding questions, and serving as the liaison between the technical program team and community members. Ensured program brand consistency across all communication channels, including presentations, talking points, print deliverables, and digital/social content.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brittany Winston, Senior Consultant

Project Assignment:

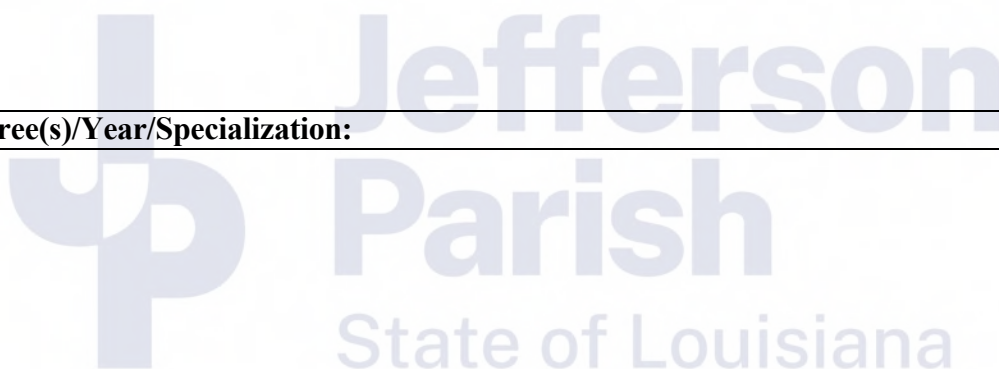
Outreach and Engagement

Name of Firm with which associated:

Emergent Method, LLC

Years' experience with this Firm:

8

Education: Degree(s)/Year/Specialization:

TEC Professional Services Questionnaire

B.A. / 2012 / Graphic Arts

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Brittany Winston is an experienced graphic designer with extensive knowledge of visual identity, marketing, and publication design. Brittany supports a wide variety of clients and projects, including community outreach and engagement initiatives, where she serves a critical role in taking complex planning approaches or concepts and creating visuals that are both engaging and understandable to a variety of public and stakeholder audiences.

Graphic Designer, Louisiana Watershed Initiative, Louisiana Office of Community Development (June 2018 – Present)

Established brand standards for the Louisiana Watershed Initiative, the state's program through which floodplain management responsibilities are coordinated across federal, state, and local agencies and supported by experts who serve as advisors in building a foundation of data, projects, policies, standards, and guidance. Served on a team that led all outreach and engagement and communication for the agency. Initial branding-related efforts included social graphics, flyers, mapping, templates, and presentations.

Graphic Designer, Restore Louisiana Homeowner Assistance Program, Louisiana Office of Community Development (March 2017 – Present)

Supported the design of a complex visual brand identity system for clarity across a variety of audiences for the Restore Louisiana Homeowner Assistance Program. This program allows homeowners to submit program applications to receive federal assistance for flood-damaged homes. Created style guides, templates, posters, flyers, and supporting graphics for outreach efforts. Oversees brand implementation by multiple contractors and state agency teams and supports the development of specific communications both internal to the program and for external audiences. Optimized existing program website at the time of program launch to provide streamlined access to resources for homeowners and support the rapid intake process for tens of thousands of impacted residents.

Graphic Designer, Fiscal Year 2023, 2024, and 2025 Annual Plans, Louisiana Coastal Protection and Restoration Authority (July 2016 – Present)

Designs and develops Annual Plans for CPRA's Mississippi River Mid-Basin Sediment Diversions Program, which focuses on providing maximum benefit and sustainability to Louisiana's rapidly deteriorating coastline. Designed visuals and layout for CPRA's Coastal 101 presentation, a bank of slides that is used by CPRA to

TEC Professional Services Questionnaire

educate diverse sets of audiences on the history and causes of Louisiana's land loss crisis and how CPRA is addressing the issue.

Graphic Designer, Annual Report, The Water Institute of The Gulf (September 2018 – October 2021)

Led the development and design of The Water Institute of the Gulf's Annual Report, which showcased the agency's current initiatives and progress over a multi-year period. Served as the graphic design lead, supporting community outreach and engagement through the creation of newsletters, brochures, rack cards, and flyers. Led the development and management of the institutes' brand by creating brand logos, and event signage, and ensuring consistency across deliverables.

Graphic Designer, 2017 Coastal Master Plan, Louisiana Coastal Protection and Restoration Authority (February 2016 – May 2023)

Designed visuals and layout for CPRA's 2017 Coastal Master Plan, a five-year strategic effort mandated by the state of Louisiana to find sustainable ways to protect and restore the coastal wetlands. Led the development and design of supporting materials, including presentations, flyers, education materials, and other deliverables to support the agency's outreach and engagement efforts.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brooks Belanger, Consultant

Project Assignment:

Outreach and Engagement

Name of Firm with which associated:

Emergent Method, LLC

Years' experience with this Firm:



**Jefferson
Parish**
State of Louisiana

TEC Professional Services Questionnaire

1

Education: Degree(s)/Year/Specialization:

B.S. / 2024 / Economics

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Brooks Belanger is a skilled strategy and communication professional with expertise in communication planning, organization development, and policy research. Brooks supports statewide outreach and engagement projects for private and public sector clients, where he develops and executes stakeholder engagement plans. Brooks also supports strategic planning, organizational assessment, and content development projects for various clients.

Consultant, Emergent Method (June 2024 – Present)**Intern, Emergent Method (January 2024 – May 2024)**

Supports various clients in state and local government and transportation and technology industries through developing marketing content, supporting strategic outreach campaigns, and implementing engagement solutions. Maintains stakeholder engagement and involvement on project developments and accomplishments.

Commercial Banking Intern, b1bank (June 2023 – August 2023)

Assisted and observed commercial lenders in the compilation and execution of commercial loan packages. Reviewed, analyzed, and organized financial statements to complete underwriting reports for potential clients. Led and facilitated business growth and development consultations for small businesses through the b1Foundation.

Senate Aide for Sen. R. Barrow Peacock, Louisiana State Senate (Months of March – June 2021-2023)

Read legislation, prepared briefings, and organized timelines for Louisiana State Sen. R. Barrow Peacock. Attended meetings, hearings, and conferences to take notes on discussions for reference by Sen. Peacock. Performed voting, filing, and communication duties for Sen. Peacock and his colleagues in their absence. Communicated between constituents, stakeholders, and legislators on the status of active legislation.

Commercial Production and Client Services Intern, Querbes & Nelson (May 2020 – August 2020, June

TEC Professional Services Questionnaire

2021 – August 2021, and June 2022 – August 2022)

Worked alongside producers to develop comprehensive risk management plans for clients and prospects primarily in energy, manufacturing, and construction industries. Assisted with loss prevention services and claim processing for clients in all industries in Louisiana, Texas, Arkansas, and North Carolina. Facilitated the development of a safety resource database in conjunction with the loss control and compliance team.

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>Louisiana Watershed Initiative, Statewide</p> <p>Owner: Louisiana Office of Community Development Gina Campo, Executive Director (225) 342-1717 Gina.campo@la.gov</p>	<p>The Louisiana Watershed Initiative is the state's long-range vision for coordinated efforts to mitigate flood risk through watershed-based solutions. Emergent Method developed the initial brand and comprehensive communication and engagement plan that provided a detailed roadmap for internal and external coordination. We continue to spearhead strategic communication and stakeholder outreach and engagement efforts to inform ongoing program implementation, including maintaining the program's social media presence and website, developing and disseminating consistent digital communications through an integrated strategy, planning and executing outreach events on a regional and statewide level, developing print collateral and informational materials, and developing public-facing presentations for the program team.</p> <p>From communicating technical modeling data to residents to help them understand their community's flood risk to supporting the launch of a workforce development program to highlight the importance of developing a labor force skilled in resilience occupations, Emergent Method provides the deliverables and digital tools to articulate LWI's progress. Much of our communication and outreach efforts target elected officials, public agency leaders, regional planning organizations, developers, property owners, business and industry, and water management organizations and nonprofits, as well as low- to moderate-communities, where a large percentage of federal mitigation funds must be spent.</p>

TEC Professional Services Questionnaire

	<p>Our team is also the communication and outreach lead for the LWI Statewide Buyout program, which is implementing buyout programs in seven areas across the state. Emergent Method manages all program communications, outreach to residents in buyout areas, stakeholder and elected official outreach, and media relations.</p> <p>Website: watershed.la.gov/</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	~\$1.2 Billion	\$2,318,000,000

PROJECT NO. 2	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p>Mississippi River Mid-Basin Sediment Diversion Program, Plaquemines and St. Bernard Parishes</p> <p>Owner: CPRA Brad Barth, Mid-Basin Sediment Diversion Program Manager (225) 342-4553</p>	<p>Since the program's inception, Emergent Method has led the outreach and engagement function for CPRA's Mid-Basin Sediment Diversion (MBSD) program, currently the largest coastal restoration effort in the history of the United States. Emergent Method developed the initial outreach and engagement plan for the program, focused on impressing the dire importance of these projects to stakeholders and the general public. Our team launched an in-person outreach strategy in 2016, dubbed Coastal Connections, as an opportunity for residents to have direct contact with the engineers responsible for project planning. Over the past eight years, we have hosted over 300 Coastal Connections events, primarily in Plaquemines or St. Bernard Parishes, to meet well over 15,000 stakeholders where they are and give them ample opportunity to ask questions, express opinions, and learn.</p> <p>In addition to outreach strategy implementation, our team leads crisis communication to address urgent and timely matters; facilitation of workshops, public meetings, and presentations; the development of communication materials for residents; media engagement, including serving as project spokespersons; and assisting CPRA and program leadership in various communication aligned with a range of program implementation efforts. We consistently work with the MBSD technical team to develop engaging and digestible content that maintains brand consistency and communicates complex information and relevant</p>

TEC Professional Services Questionnaire

	<p>milestones to key stakeholder groups, including the 2023 groundbreaking and ongoing construction activities for the Mid-Barataria Sediment Diversion.</p> <p>Our team created the program's distinct visual identity system and all graphic design elements, including hundreds of presentations, social media graphics, and charts. In collaboration with the program's technical team, we enhance communication efforts through the creation and maintenance of all program materials and resources, including one-pagers and digital graphics to relay complex concepts, safeguard program brand consistency across all communication channels, and build trust among stakeholders. We also led the development of and provides ongoing support for the project's digital footprint, including the initial website development and ongoing maintenance.</p> <p>Website: https://midbasin.coastal.la.gov/</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	~\$2.92 Billion	\$2,265,000,000

PROJECT NO. 3	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility
<p>CPRA 2023 and 2017 Coastal Master Plans: Outreach and Engagement, Coastal, LA</p> <p>Owner: CPRA Glenn Ledet, Executive Director (225) 342-2179</p>	<p>To support the development of the 2017 and 2023 Coastal Master Plans, Emergent Method worked with CPRA to develop and implement robust public outreach, community engagement, and strategic communication efforts on an ongoing basis for nearly 10 years. Project responsibilities included scheduling, publicizing, developing, and facilitating stakeholder presentations and briefings; soliciting contribution and feedback from residents and other key stakeholders; monitoring media and public participation efforts; and providing digital/social media content and strategy support.</p> <p>Over the course of two years leading up to the 2017 Master Plan, the project team held 115 general presentation briefings with stakeholders, 55 meetings with various advisory groups, 20 community conversations with 1,200 attendees and four public hearings with 800 attendees. These meetings were livestreamed on Facebook, resulting in an additional 11,000+ views. Emergent Method continued this success with the 2023</p>

TEC Professional Services Questionnaire

plan and worked alongside CPRA to execute the most consistent and robust citizen engagement effort in state history.

By all accounts, outreach and engagement efforts for the 2017 and 2023 Coastal Master Plans were a resounding success. The final plans, which were considered by both chambers of the Louisiana Legislature, ultimately passed with overwhelming support, with 126 “yeas” and only one “nay” in 2017 and unanimous passage in 2023.

Emergent Method’s outreach and engagement methodology for CPRA’s Coastal Master Plan development includes the following steps:

ACTIVE ENGAGEMENT

Throughout the Coastal Master Plan planning process, we prioritize educating key stakeholder groups and providing information about the master plan effort to better engage them across coastal Louisiana. We work with partners to identify industry associations, state task forces, local/regional governmental entities, advocacy organizations and non-profits, and community groups who in turn assist us in identifying existing meetings and avenues at which to present and gain feedback on the master plan effort.

DRAFT PLAN REVIEW AND COMMENT

Once a draft plan is released, our team assists CPRA in hosting four official public hearings to receive feedback and comments. More than 800 people attended these meetings in 2017, and over 600 did so in 2023.

OUTREACH AND ENGAGEMENT ACTIVITY SUPPORT

Along with the design and development of all supporting collateral materials, including posters, flyers, fact sheets, digital and social media content, presentations, and more, Emergent Method has enhanced support for the Coastal Master Plan through ongoing government relations and earned media public awareness.

GOVERNMENT RELATIONS

Since our efforts support the development of plans that do require legislative approval, our Emergent Method team members proactively meet with key legislators and local elected officials to provide an overview of the Coastal Master Plan process; discuss expected outcomes and benefits; receive feedback regarding the effort and process, including guidance on strategies for engagement; secure commitments to help champion the effort; and document opportunities and potential challenges. These efforts are ongoing throughout each master plan process and are critical in creating the broad base of

TEC Professional Services Questionnaire

	<p>support necessary in achieving legislative approval.</p> <p>EARNED MEDIA PUBLIC AWARENESS The media experts at Emergent Method have developed, implemented, and managed traditional public awareness campaigns for both the 2017 and 2023 Coastal Master Plans focused upon earned media. These campaigns have included the creation and distribution of press releases, hosting media events, conducting editorial board meetings, and cultivating influencers.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
05/2017; 05/2023	N/A	\$177,000 (2017) \$22,525 (2023)

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Clearview City Center</p> <p>4436 Veterans Blvd. Metairie, LA 70006</p> <p>Thomas E. Richards Managing Member 504-885-0202 *fax 504-885-4100 trichards@clearviewcenter.com</p>	On-going public relations and media relations support for project/site expansion.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$150,000,000	\$34,250

TEC Professional Services Questionnaire

PROJECT NO. 5	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p>CPRA Annual Plans</p> <p>Owner: CPRA Glenn Ledet, Executive Director (225) 342-2179</p>	<p>Our team has led communication for the FY21, FY22, FY23, FY24, and FY25 Annual Plans — a companion to the Louisiana Coastal Protection and Restoration Authority's (CPRA) Master Plan that outlines the upcoming fiscal year priorities of CPRA.</p> <p>We have supported CPRA in developing the initial strategy to re-envision the document as a tool that outlines the budget and agency priorities for the upcoming year and promotes progress on the ground from previous years. Our team manages content development and graphic design of draft and final deliverables for each iteration. We also support the public comment process through meeting facilitation and developing accompanying deliverables for outreach, including presentations, talking points, and one-pagers for regional audiences.</p> <p>Our tasks related to this effort have included:</p> <ul style="list-style-type: none"> • Meeting with CPRA leadership to discuss the proposed process, timeline, and resources needed to produce the Annual Plan • Meeting with relevant project managers to develop content and identifying, collecting, and reviewing all relevant materials that contribute to the design and content of the Annual Plan • Developing a detailed outline for the Annual Plan that includes a framework for the document and key themes and suggested images for each section • Leading all content creation and graphic design work for the Annual Plan and supplemental materials • Providing a draft Annual Plan to CPRA staff for feedback and updating accordingly • Developing supplemental materials, including a PowerPoint presentation, one-page summary document, and branded back-end materials document to be used in legislative hearings and other forums • Coordinating production and printing logistics • Participating in regularly scheduled meetings, providing status reports, and participating in other coordination and project management activities to CPRA as requested

TEC Professional Services Questionnaire

	<ul style="list-style-type: none"> Coordinating, scheduling, and facilitating three public hearings and additional elected official briefings <p>Additionally, we developed a digital component of the Annual Plan — an online interactive version that highlights the relevant projects with drone footage, aerial imagery, and more. Users are able to experience a bird’s eye view of remote coastal projects and see progress year over year.</p> <p>Website: ap25.coastal.la.gov/projects</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$28,800 (FY 2021)	\$28,800 (FY 2021)
	\$48,350 (FY 2022)	\$48,350 (FY 2022)
	\$62,450 (FY 2023)	\$62,450 (FY 2023)
	\$73,800 (FY 2024)	\$73,800 (FY 2024)
	\$81,370 (FY 2025)	\$81,370 (FY 2025)

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:	
N/A		
N/A		
N/A		

TEC Professional Services Questionnaire

N/A

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

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

Signature:  Print Name: Therese Walker

Title: Managing Director Date: 06/27/24



TEC FORM

ELOS ENVIRONMENTAL

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Coastal Engineering Consulting Services as Needed Parish Wide
SOQ 24-020, Jefferson Parish

B. Firm Name & Address:

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

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

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

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

None

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

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

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

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

TEC Professional Services Questionnaire

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

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
YES: X 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. ELOS Environmental, LLC 607 West Morris Ave Hammond, LA 70403	Environmental Consulting	Yes
2.		
3.		

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Lucas Watkins, Principal

Project Assignment:

Principal

Name of Firm with which associated:

ELOS Environmental, LLC

Years' experience with this Firm:

18 years

Education: Degree(s)/Year/Specialization:

MS / 2005 / Biological Sciences

BS / 2000 / Forest Management

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

PROJECT NO. 1

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. None	None	None
2.		
3.		
4.		

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

See attached items below.

TEC Professional Services Questionnaire



έλος (élos)
1. marsh, swamp, bog

Overview & History

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

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

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



541620, 541370GIS

www.elosenv.com
985.662.5501

TEC Professional Services Questionnaire

Our Services

Program & Project Management

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

Permitting Applications and Regulatory Compliance

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

Environmental Services

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

Coastal Restoration and Resilience Services


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

Innovative Technologies

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

TEC Professional Services Questionnaire

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

Signature:  Print Name: Lucas Watkins

Title: Principal Date: 2-3-2024

