



STATEMENT OF QUALIFICATIONS

Miscellaneous Environmental Services

SOQ 22-054 - Resolution No. 140859

for Jefferson Parish



January 2023



Trigon Associates, llc
1515 Poydras Street, Ste. 930
New Orleans, LA 70112
T. 504.585.5767
trigon@trigonassociates.com
www.trigonassociates.com

January 6, 2023

Jefferson Parish Council
General Government Building
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Re: Miscellaneous Environmental Services - Resolution No. 140859

Dear Council Members:

Trigon Associates, LLC (Trigon) is pleased to submit our Statement of Qualifications (SOQ) to Jefferson Parish (Parish) for the referenced work. Our submittal is in accordance with the advertised Request for Qualifications.

Trigon is a Louisiana Small Business Enterprise (SBE) and a woman-owned business specializing in providing environmental, engineering, consulting and management services. Our team has over 300 years of combined experience with applicable municipal and public works projects, including significant experience with federal, state, and local grant programs. Trigon is qualified to perform and successfully complete environmental and planning projects for the Parish, a few of our key qualifications are as follows:

- ▲ **Trigon's principals include two former Jefferson Parish employees, totaling over 15 years of experience with the Parish; one served in roles as the Sewerage Capital Improvements Program Manager, Assistant Director and Acting Director within the Department of Sewerage.**
- ▲ Trigon's principals and staff are experienced program managers, environmental and compliance specialists, construction managers, design managers, and engineers from multiple disciplines.
- ▲ Professional engineers registered in Louisiana, Alabama, Arkansas, California, Florida, Mississippi, New York, Oklahoma, Texas, Virginia, and Washington, DC.
- ▲ Experienced with planning, engineering, design, construction inspection, construction management and certification efforts of environmental and coastal restoration projects.

We appreciate the opportunity to submit our SOQ and look forward to further developing Trigon's relationship with the Parish through successful projects. Should you require additional information during your evaluation, please do not hesitate to contact us.

Sincerely,

A handwritten signature in blue ink that reads "Michelle Herbert".

Michelle Herbert
Chief Executive Officer

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Miscellaneous Environmental Services

SOQ 22-054 - Resolution No. 140859

B. Firm Name & Address:



Trigon Associates, llc
1515 Poydras Street, Suite 930
New Orleans, LA 70112

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:

Lisa F. Cookmeyer, PE – Managing Partner/Principal-in-Charge (LA Professional Civil/Environmental Engineer#23249)
Trigon Associates, llc
1515 Poydras Street, Suite 930
New Orleans, LA 70112
P: 504.585.5767 F: 504.585.5747
lcookmeyer@trigonassociates.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.

SAME AS ITEM C.

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

<u>4</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u>1</u> Architects (Licensed)	<u>2</u> Geologists	<u>2</u> Structural Engineers
<u>1</u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>12</u> Civil Engineers	<u> </u> Interior Designers	<u>3</u> Project Managers
<u>7</u> Construction Inspectors	<u>1</u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u>1</u> Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>2</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u>3</u> Environmental Engineers	<u>17</u> Other
<u> </u> Professional Land Surveyors		<u>58</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

YES _____ NO _____

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):
Applied Intellect, LLC (AI) 2009 Mackenzie Way, Suite 100 Cranberry Township, PA 16066	Environmental Risk Assessments (Human and Ecological) and Environmental Site Assessments, Corrective Action Plans	No* <i>*This subcontractor has not worked directly with/for Trigon, but has previous project experience with some of Trigon's key staff included in Section K of this form.</i>
C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) 1100 Poydras Street, Suite 1550 New Orleans, LA 70163	Environmental Engineering, Coastal Restoration & Planning Assistance, Surveying, Coastal Use Permit Applications	Yes
Environmental Consulting & Technology, Inc. (ECT) 95 Merrick Way, 3rd Floor Coral Gables, FL 33134	Multi-disciplinary environmental and sustainability, Brownfields Assessments and Redevelopment, Corrective Action Plans	No
Pace Analytical (Pace) 1000 Riverbend Drive, Suite F St. Rose, LA 70087	Environmental laboratory analysis, Drinking Water Analysis	No* <i>*This subcontractor has not worked directly with/for Trigon, but has previous project experience with some of Trigon's key staff included in Section K of this form.</i>

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

 N/A

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:

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lisa F. Cookmeyer, PE

Managing Partner, Environmental Engineer

Project Assignment:

Principal-In-Charge

Name of Firm with which associated:



Years' experience with this Firm:

13

Education: Degree(s)/Year/Specialization:

BS in Civil Engineering, University of Southwestern Louisiana, 1982

Active registration: Year first registered/discipline:

1989, Civil Engineer, Louisiana (also registered in AR, FL, MS, NY, OK, TX, and VA)

1994, Environmental Engineer, Louisiana

Other experience and qualifications relevant to the proposed Project:



Ms. Cookmeyer has over 38 years of extensive experience in planning, design, project management and administration, and facility and infrastructure program management. She has executed and managed numerous individual projects as well as large, multi-project programs, having been Program Manager on several programs valued in excess of \$500M each. **She has also managed numerous infrastructure and environmental projects and programs.** Besides being a **licensed Professional Engineer (PE) in both civil and environmental engineer in Louisiana**, Ms. Cookmeyer is also licensed in 7 additional states (AR, FL, MS, NY, OK, TX, & VA), and is also licensed as a Municipal and Public Works Contractor. **She has significant experience in regulatory and environmental compliance (including NEPA activities) and permitting**, as well as strategic planning, design and construction of municipal and commercial projects, project and program cost and schedule controls, QA/QC, the development of tools and best management practices for utility operations, land acquisition, international development, disaster recovery, and managing NHPA/Section 106 activities related to historic and cultural resource management.

RELEVANT PROJECT EXPERIENCE

Bayou Long Coastal Restoration & Marsh Creation Project; Plaquemines Parish, LA. Led Trigon's efforts for all sections of the environmental baseline conditions report that included establishing existing conditions for ecology, hydrology, socioeconomics, infrastructure, climate, and fisheries, oyster, & recreational resources; and, performed in-depth geospatial mapping and analysis of the project area.

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Other experience and qualifications relevant to the proposed Project:

A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; U.S. Agency for International Development, Bien Hoa, Vietnam. Principal-in-Charge providing oversight and QA/QC support for this project to provide A-E and related technical services to develop and facilitate approval (by the Government of Vietnam) of a Project Implementation Masterplan and provide engineering design, construction management implementation support and related project support services for dioxin remediation at the Bien Hoa Airport Area in Vietnam. Services include all associated environmental activities in compliance with US and Government of Vietnam regulations.

Infrastructure Needs Program Phase II, U.S. Agency for International Development, West Bank. Served as Trigon's Project Director between 2010 and 2018 for home office design services in support of the INP II team for a large infrastructure program to plan, design and construct projects related primarily to wastewater, water, and roadway infrastructure. Trigon was involved in all phases of the program, including overall program setup and mobilization, ongoing program management, design and construction management. Trigon also performed environmental compliance (NEPA) activities, permitting, and NEPA/environmental impact mitigation oversight for 10 wastewater treatment plants and the associated sewage collection systems located throughout the West Bank, coordinating with USAID, the Palestinian ministries, property owners, and local stakeholders.

LA 406/Woodland Hwy Widening (LA 23 to LA 407) –Stage 1 Environmental Assessment, Plaquemines Parish, LA. Project Manager for this project which included an environmental assessment and evaluation of multiple alternatives for widening a busy roadway through Plaquemines and Orleans Parishes (LA 406 between LA 23 and LA 407). Primary areas of responsibility include data collection, mapping of existing utilities, drainage system assessment, utility relocations and cost estimates, public involvement and public hearings support.

Replace Belle Chasse Tunnel and Bridge—Stage 1 Environmental Assessment, Plaquemines Parish, LA. Principal Engineer for this project which included the evaluation of the existing Belle Chasse tunnel and bridge with a new four-lane bridge facility, including three build alternatives plus the No Build Alternative. Primary areas of responsibilities for Trigon included data collection, environmental site assessment, traffic counts, development of typical sections for line and grade study, identifying and mapping existing utilities, utility relocations and cost estimates, and public meetings support.

Retrofit Power Plant Hazard Mitigation Grant Program (HMGP) Project; New Orleans, LA. Principal-in-Charge for Trigon's role on this approximately \$184M hazard mitigation grant program project to retrofit a unique power plant owned and operated by the S&WB that produces power at 25 Hertz and supplies critical facilities via an underground feeder network throughout the city. Work included, for example, repairs and upgrades to generators, fuel tanks, boilers, turbines, and electrical instrumentation & controls infrastructure, as well as ancillary facilities at the Carrollton Water Treatment Plant complex where the power plant is co-located. Work also included major renovations to the Oak Street Raw Water Pump Station for which Trigon provide an on-site Construction Manager and a Resident Inspector. Trigon staff served in major/lead roles on several projects within this program. Trigon's involvement also included environmental compliance services (NEPA and permitting).

NPDES Storm Water Permitting, Jefferson Parish, LA. Provided consulting engineering services for the preparation of the Parish's National Pollutant Discharge Elimination System (NPDES) storm water permit applications. Included significant interaction with regulatory agencies, such as the U.S. EPA, and preparation of both parish-wide municipal permit applications and industrial permit applications. Also included assistance with preparation of the Parish's Annual Report for submittal to LA DEQ and EPA.

Sewer System Evaluation and Rehabilitation Program; Sewerage and Water Board of New Orleans, New Orleans, LA. Ms. Cookmeyer held several positions during her tenure with this program. As Design Task Manager for the project, she was directly responsible for multiple program tasks, including the management and coordination of design consultants for 30 projects valued at over \$40 million, as well as, design schedule and cost control, constructability review, technical review of construction contract documents, coordination of bid, award and pre-construction phase activities, and public relations with local community groups. She assisted with federal grant administration management and compliance, and led all activities related to NEPA compliance. Ms. Cookmeyer also coordinated other regulatory reviews and approvals from local, state and federal agencies, including the Louisiana Department of Environmental Quality, State Historical Preservation Office, and the U.S. Army Corps of Engineers.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Greg Kolenovsky, PE, PMP, PgMP
Managing Partner, Principal

Project Assignment:

Review, QA/QC

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

13

Education: Degree(s)/Year/Specialization:

BS in Civil Engineering, University of Texas at Austin, 1998

Active registration: Year first registered/discipline:

2002, Civil Engineer, Louisiana (also registered in AL, AR, FL, MS, OK, TX and D.C.)
2005, Project Management Professional (PMP), Project Management Institute
2010, Program Management Professional (PgMP), Project Management Institute

Other experience and qualifications relevant to the proposed Project:

Mr. Kolenovsky has over 26 years of planning, design, project management, program management and construction management experience. He has significant experience in the management of water and wastewater projects, large capital infrastructure improvement programs, and post-disaster facility recovery programs, as well as **coastal restoration and environmental remediation** projects. Mr. Kolenovsky's experience includes system analysis, troubleshooting and hydrological computer modeling of water resource systems, as well as engineering and design of various civil works and infrastructure projects. He is a **licensed Professional**

Engineer in Louisiana, Alabama, Arkansas, Florida, Mississippi, Oklahoma, Texas, and the District of Columbia. Mr. Kolenovsky excels in project and program management and is a certified Project Management Professional (PMP) and Program Management Professional (PgMP) by the Project Management Institute.

RELEVANT PROJECT EXPERIENCE

Northeast Turtle Bay Marsh Creation & Critical Area Shoreline Protection Project; Lafitte, LA. Principal-in-Charge for this coastal restoration project assigned as a task order under an IDIQ contract with the US Dept. of Agriculture-Natural Resources Conservation Service. The intent of the project is to protect the critical reaches of shoreline on the Northeast side of Turtle Bay and protect current channels from erosion and widening. The project involves marsh creation, shoreline protection utilizing borrow material from Turtle Bay, and channel liners to protect current channels from erosion and widening. numerous driveways and access roads into private property.

Bayou Long Coastal Restoration Project, Plaquemines Parish, LA. Project Engineer for the restoration of approximately 49,000 linear feet (110 acres) of historic ridge off the right-descending bank of the Empire Waterway in southern Plaquemines Parish. The objective of this project was to provide coastal upland habitat, restore natural hydrology, and provide some measure of wave and storm surge attenuation.

TEC Professional Services Questionnaire

Kolenovsky, continued.

Other experience and qualifications relevant to the proposed Project:

A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; U.S. Agency for International Development, Bien Hoa, Vietnam. Providing oversight and QA/QC support for this project to provide A-E and related technical services to develop and facilitate approval (by the Government of Vietnam) of a Project Implementation Masterplan and provide engineering design, construction management implementation support and related project support services for dioxin remediation at the Bien Hoa Airport Area in Vietnam. Services include all associated environmental activities in compliance with US and Government of Vietnam regulations.

Infrastructure Needs Program Phase II, U.S. Agency for International Development, West Bank. Provided engineering support, review, and QA/QC services between 2010 and 2018 for home office design services for a large infrastructure program to plan, design and construct projects related primarily to wastewater, water, and roadway infrastructure. Trigon was involved in all phases of the program, including overall program setup and mobilization, ongoing program management, design and construction management. Trigon also performed environmental compliance (NEPA) activities, permitting, and NEPA/environmental impact mitigation oversight for 10 wastewater treatment plants and the associated sewage collection systems located throughout the West Bank, coordinating with USAID, the Palestinian ministries, property owners, and local stakeholders.

LA 406/Woodland Hwy Widening (LA 23 to LA 407) – Stage 1 Environmental Assessment, Plaquemines Parish, LA. Served as Project Manager for the evaluation of multiple alternatives for widening a busy roadway through Plaquemines and Orleans Parishes (LA 406 between LA 23 and LA 407). Primary areas of responsibility included data collection, mapping of existing utilities, drainage system assessment, utility relocations and cost estimates, public involvement and public hearings support.

Replace Belle Chasse Tunnel and Bridge–Stage 1 Environmental Assessment, Plaquemines Parish, LA. Principal Engineer for this environmental assessment which included the evaluation of the existing Belle Chasse tunnel and bridge with a new four-lane bridge facility, including three build alternatives plus the No Build Alternative. Primary areas of responsibilities for Trigon included data collection, environmental site assessment, traffic counts, development of typical sections for line and grade study, identifying and mapping existing utilities, utility relocations and cost estimates, and public meetings support.

Retrofit Power Plant Hazard Mitigation Grant Program (HMGP) Project; New Orleans, LA. Provided review and QA/QC for Trigon's efforts on this FEMA-funded project, which includes upgrades to allow the S&WB to produce power independently from the local energy provider and maintain reliable operations of the Carrollton Water Treatment Plant and other facilities such as sewer and drainage pump stations located throughout the City, therefore mitigating disruptions to the power system and the potable water supply service to the City. Trigon's involvement includes environmental compliance services (NEPA and permitting), design, engineering services, construction management and inspection.

U.S. Agency for International Development Emergency Response to Industrial Stone-Cutting Activities; Hebron, West Bank, Palestine. Provided home office oversight, review, and QA/QC services supporting the removal of industrial waste produced by the Hebron stone-cutting factories from the municipal wastewater system and prevent the closure of the Hebron industrial zone by the Israeli Civil Administration by transporting the stone factories' waste material to an approved municipal dump site in order to clean up the industrial zone and the open wadi of stone-cutting waste to create a cleaner environment for all.

Stage 1 Environmental Assessment for US 61 at LA 3152/Clearview Parkway; Jefferson Parish, LA. Principal Engineer/Project Manager for the preparation of a Stage 1 Environmental Assessment with Line and Grade Study for one of the busiest roadway intersections in Jefferson Parish. The Stage 1 assessment was completed in accordance with National Environmental Policy Act (NEPA) guidelines, along with the Federal Highway Administration (FHWA) regulations and guidelines. Typical roadway sections and estimates of required rights-of-way for different alternatives were developed. Trigon analyzed each alternative, including a "no-build" option, to determine the potential impacts factors such as: traffic patterns; permits; land use; community/social issues; economic factors; historic properties; archaeological sites; cultural resources; recreational areas; noise and air quality; wetlands and floodplains; farmland; endangered or threatened species. Potential mitigation measures to reduce or alleviate any negative impacts on the above items were addressed in the assessment.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:**Kenneth Swain, PG***Geologist, Environmental Assessment and Remediation Manager***Project Assignment:**

Project Manager, Technical Lead

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

2

Education: Degree(s)/Year/Specialization:

MS in Geology, University of North Carolina at Wilmington, 1993

BS in Geology, Virginia Polytechnic and State University, 1990

Active registration: Year first registered/discipline:

1998, Professional Geologist, NC; 2006, Professional Geologist, VA (expired)

OSHA Hazwoper 40-hr Site Worker; OSHA Hazwoper 8-hr Supervisor; OSHA 30-hr Construction Manager

USEPA Watershed Management Certification; USACE Wetland Delineation Training

USACE Construction Management for Contractors

Other experience and qualifications relevant to the proposed Project:

Mr. Swain is a Professional Geologist with **over 28 years of experience of consulting, planning and field experience with environmental assessments and remediation** of contaminated sites for the US Department of Defense (DoD), US Department of Energy, US Army Corps of Engineers, as well as commercial and municipal clients conducting **Site Inspections/Remedial Investigations/Feasibility Studies/Remedial Actions at over 100 sites across the US and overseas**. He has managed a variety of **multi-disciplinary environmental investigations** and remedial actions in accordance with Resource Conservation and Recovery Act (**RCRA**); Comprehensive

Environmental Response; Compensation and Liability Act (**CERCLA**); and State-specific Underground Storage Tank (**UST**) programs.

Mr. Swain is currently serving as the Lead Geologist on Trigon's A-E Services for Dioxin Remediation at Bien Hoa Airbase Area in Bien Hoa, Vietnam. He previously managed both the Sunbelt Region and Eastern Region RI/FS projects for the Air National Guard which included 55 sites in Alabama, Florida, Georgia, Mississippi, Nebraska, Ohio, Oklahoma, and Puerto Rico, which included

remedial investigations with contaminant fate and transport modeling and human health risk assessments, feasibility studies, and no further action reports with extensive coordination with federal and state regulatory agencies. Mr. Swain has also designed and implemented site investigations across the contiguous US and Puerto Rico using the triad approach with most current

drilling/sampling techniques as well as **geophysical investigations and soil gas surveys at various HTRW sites and in subtidal environments for dredging studies**. Mr. Swain's experience ranges from large, multi-disciplinary assessments and remediation projects at military installations and/or in populous areas to small, one-off investigations in remote locations with minimal staff and resources.

RELEVANT PROJECT EXPERIENCE**A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; U.S. Agency for International Development, Bien Hoa, Vietnam.**

Lead geologist for development and implementation of base-wide cleanup of dioxin associated with agent orange. Developed the Site-Wide Quality Assurance Project Plan (Work Plan) and Site-Wide Unexploded Ordnance plan to be used by all contractors over

TEC Professional Services Questionnaire

Swain, continued

Other experience and qualifications relevant to the proposed Project:

the life of the project and removal/treatment of over 400,000 cubic meters of soil and sediment). Reviewed all available data to develop data gaps associated with contamination and geotechnical conditions with respect to site characterization, treatment, storage, and infrastructure (treatment facilities and haul roads) required for the project life cycle. Conducted siting evaluations for long-term waste disposal areas and vegetation disposal areas. Extensive interaction with international team of scientists and engineers in formal negotiations and meetings as well as with USAID and host-country government agencies. Developed all plans and reports in accordance with US standards and the Government of Vietnam. Travel was restricted by Covid policies in February 2020. Instrumental in helping in-country companies conduct time-critical sampling.

Environmental Impact Statement, Alaskan Way Viaduct and Seawall Replacement, Seattle WA. As Senior Geologist, Mr. Swain developed and implemented sampling and analysis plan to evaluate the impact of reported historical releases of petroleum, VOC, and metal contaminants on engineered plans to replace a 1-mile section of the Alaska Way Viaduct and seawall in downtown Seattle, WA. Required closing two lanes of a six-lane thoroughfare for two weeks, extensive subsurface drilling to characterize soil and groundwater contamination, and reporting of evaluation findings to WA DOT.

Sunbelt Region Remediation Investigations/Feasibility Studies (RI/FS), Air National Guard, Multiple Sites. Project Manager/Senior Geologist for RI/FS at 23 Sites in AL, MS, and Ohio. Potential Sites required characterization of groundwater and soil with respect to petroleum, chlorinated solvents, and metals and development of feasibility studies to remediate the sites to unconditional use/unconditional exposure. Developed all plans and executed the field work. Remedial Investigation reports included human health and ecological risk assessments and chemical fate and transport modeling. Extensive coordination with Montgomery ANG architects and engineers with respect to one highly contaminated site that is in the footprint of a high priority military construction project. A staged remedial action has been designed to accommodate construction with follow-up actions to remediate the entire site to cleanup standards. Coordinated with State regulators for concurrence with No Further Action at more than 70% of the sites using both direct screening and risk-based approaches.

Compliance Restoration Program Eastern Region Remediation Investigations/Feasibility Studies, Air National Guard, Multiple Sites. Project Manager/Sr Geologist for RI/FS bundle including 32 sites in OK, NB, GA, FL, and Puerto Rico. Potential Sites required characterization of groundwater and soil with respect to petroleum, chlorinated solvents, and metals. Required extensive subsurface sampling program with various types of drilling technologies employed. Planned and conducted all regulatory and public participation meetings including those associated with the proposed plans. Developed all plans and executed the field work. Remedial Investigation reports included human health and ecological risk assessments and chemical fate and transport modeling. Coordinated with State regulators for concurrence with No Further Action at more than 60% of the sites using both direct screening and risk-based approaches.

Air National Guard Installation Restoration Program Activities, 124th Fighter Wing, Gowen Field, Boise, ID – Project Manager/Senior Geologist for the following:

- **Interim Soil Removal Action** - Interim soil removal action of 400 cubic yards of petroleum and chlorinated volatile organic compound contaminated soil. Discovered large extent of contamination that led to RI/FS.
- **Remedial Investigation (RI) and Feasibility Study (FS)** - Remedial Investigation (RI) and Feasibility Study (FS) through Remedial Action for chlorinated solvents, petroleum products, metals, and PCBs in groundwater (GW) and soil. Project required drilling to depths of greater than 200 ft below ground surface (bgs) in boulder glacial till. Product filled piping exposed during interim removal action that was contributing to contamination was removed during the RI. The final RI report included a full human health risk assessment and fate and transport assessment. Over 10,000 cubic yards of contaminated soil were identified. The Feasibility Study recommended dig and haul with the demolition and disposal of a Jet Engine Test Cell, removal of 10,000 square feet of aircraft apron and restoration in kind working with military engineers to meet aircraft construction standards. Remedial Investigation reports included human health and ecological risk assessments and chemical fate and transport modeling. Planned, coordinated, and conducted public review meeting and prepared Proposed Plan and Decision Documents.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Andrew Sayers-Fay, PhD
Lead Environmental Scientist

Project Assignment:

Compliance and Chemical Subject Matter Expert

Name of Firm with which associated:



Years' experience with this Firm:

3

Education: Degree(s)/Year/Specialization:

PhD, Environmental Chemistry, University of California – Davis, 2006
 BS, Chemistry, Georgetown University, 1992

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:



Mr. Sayers-Fay has over 20 years as an **environmental scientist, water quality and soil/sediment remediation expert, with strong regulatory expertise**, management skills, and extensive experience leading multi-disciplinary teams. He also possesses thorough knowledge of **federal, state, and administrative policies and procedures**. Mr. Sayers-Fay has **over 11 years regulatory experience** with Comprehensive Environmental Responsibility, Cleanup, and Liability Act (**CERCLA**), Clean Water Act (**CWA**), National Environmental Policy Act (**NEPA**), California Environmental Quality Act (**CEQA**), and Foreign Assistance Act. Expert in wastewater discharge permitting & compliance – National Pollutant Discharge Elimination System (**NPDES**). Current Federal Acquisition Certification – Level II contracting officer’s representative. He has demonstrated talent for planning and managing technically complex multi-disciplinary projects and experience performing highly visible work with diverse populations.

RELEVANT PROJECT EXPERIENCE

USAID A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; Bien Hoa, Vietnam. Chief of Party/Remediation Specialist for this project to develop a Project Implementation Masterplan for engineering design, construction management implementation support and related project support services for dioxin remediation at the Bien Hoa Airbase Area in Vietnam - the largest remaining hotspot of dioxin contamination in Vietnam. Recently supported completion of design efforts for Interim Measures #2 that includes extensive soil characterization, removal, and transfer to pretreatment or long-term storage areas.

Alaska Department of Environmental Conservation Division of Water; Anchorage, Alaska, USA. Responsible for development and implementation of Division goals, programs, and policies. Managed nine direct reports and a staff of 104. Develop budgets, reviewed financials, and reported to Office of Management & Budget and the Legislature. Executed state policy to permit resource development, monitor compliance, liaise with stakeholders, and develop short-term and long-term strategic plans. Established effective communications with EPA, state agencies, tribes, permittees, and general public. Key achievements include: Testified

TEC Professional Services Questionnaire

Sayers-Fay, continued.

Other experience and qualifications relevant to the proposed Project:

before the legislature on the Division's proposed 2019 fiscal year budget and the health and environmental risks of further budget cuts; evaluated pending bills and provided section analysis and fiscal note; lead interagency co-ordination with counterpart directors from Fish & Game and Natural Resources on proposed impaired waterbody determinations for important salmon fishery rivers; and hired Administrative Operations Manager and Compliance Manager.

Project Scientist III. Led development of responsible regulatory and operational solutions for environmental impact assessment challenges, including new/expanded wastewater discharges, alternative hydrological flow regimes, and socioeconomic evaluations of mitigating alternatives. Led toxicity reduction evaluation investigations to determine cause of failed toxicity tests. Provided technical support for third-party legal challenges to client projects, and provided technical expertise for contested permit public hearings, meetings with regulatory staff, and public hearings on proposed regulatory changes. Wrote proposals and developed business opportunities. Built and managed relationships with clients and key personnel in regulatory agencies.

Compliance and Cruise Ship Program Manager. Statewide Manager responsible for the establishment, management, and implementation of environmental compliance and enforcement activities associated with wastewater discharges under the Alaska Pollutant Discharge Elimination System (APDES) Program and wastewater discharges and air emissions under the Cruise Ship (commercial passenger vessel) Program. Reviewed existing and newly developed enforcement case files and prepare briefings with the director to address backlog from position vacancy; reviewed recommendations of wastewater and opacity enforcement activities from the 2017 cruise ship season; and drafted 2018 Compliance Monitoring Strategy and coordinate inspections plans with EPA Region X.

Associate Instructor – Environmental Analysis of Aqueous Systems, University of California, Davis. Educated upper division engineering students on the chemistry of wastewater and drinking water treatment. Emphasized application of chemical reactions and principles of design, function, and efficacy of treatment plants. Analysis included numerical solutions to equilibrium and kinetic problems.

Doctoral Research – Department of Civil & Environmental Engineering, University of California, Davis. Determined sorption mechanics and kinetics in controlling environmental fate and transport of organophosphate pesticides. Distinguished polar and non-polar pesticide binding interactions to minerals versus organic matter in soils and sediment. Employed laboratory experiments to model equilibrium and rate-controlled contaminant release on soils and field collected suspended sediment. Linked modeled release profiles with dynamic sediment tidal re-suspension events to determine controlling estuary fate processes. Trained in environmental toxicology, soil, and agricultural chemistry.

Development Chemist - Cygnus, Inc.; Redwood City, CA. Developed and tested transdermal and mucosal drug delivery platform release profiles and adhesion under good manufacturing and laboratory procedures (GMP/GLP). Trained in emergency hazardous spill response and cleanup, confined spaces, and certified with Level-A protection.

Analytical Chemist - Affinity Biotech, Inc.; Boothwyn, PA. Built out an analytical chemistry laboratory. Maintained inventory and control of raw materials. Conducted chemical, physical, and spectroscopic analysis of raw materials and final product under GLP. Performed bench scale and pilot scale manufacturing under GMP for over-the-counter pharmaceutical suspension and performed product stability testing on same.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Danyelle Phillips, GIT
Geologist-in-Training

Project Assignment:

Environmental and Remediation Specialist, Field Operations Manager

Name of Firm with which associated:



Years' experience with this Firm:

2

Education: Degree(s)/Year/Specialization:

BS, Geology, Bryn Mawr College, 2014

Active registration: Year first registered/discipline:

2017, Geologist in Training for PG certification, VA

Other experience and qualifications relevant to the proposed Project:



Ms. Phillips is a geologist with current experience on major **environmental remediation projects** for USAID, the National Guard Bureau (NGB) and the U.S Army. She recently worked as an **environmental compliance assessor** for Army National Guard (ARNG) performing multiple **Environmental Performance Assessment System (EPAS) assessments**. Ms. Phillips provides regular field and reach-back support to the Bien Hoa Airbase Dioxin Remediation project in the development of site-wide and project specific **Safety, Health and Environmental management plans**. She has a strong background in **health and safety (HAS), preparation, planning, and implementation of environmental field work and environmental compliance**. Ms. Phillips' experience includes leading major **hazardous waste investigations across the U.S. and Puerto Rico and management of field operations for site characterization activities**. Ms. Phillips also has excellent technical writing skills and has been the primary author for seven RI's and contributing author on **over 30 RI/FS reports**. She is experienced in compliance monitoring of HAS activities for subcontractors and staff.

RELEVANT PROJECT EXPERIENCE

USAID, A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; Bien Hoa, Vietnam. Served as the Lead Safety and Environmental Compliance Specialist from July 2021 through May 2022 including onsite environmental and HAS compliance and oversight tasks and reporting during construction and remediation activities. Assisted in the development of multiple reports including the Implementation Masterplan Workplan, Site-Wide HASP, Site-Wide Sampling and Analysis (SAP), Quality Assurance Project Plan (QAPP), Site Investigation Evaluation Workplan(s), and activity specific Environmental Monitoring and Mitigation Plans. Participated in planning and implementation of additional site characterization (subsurface soil sampling) for remedial design. Provided in-country technical support to the Chief of Party and Deputy Chief of Party which included participating in multiple meetings with key project stakeholders, report development, and providing technical guidance. Participated in the Initiation Meeting for the Masterplan Roadmap with GVN stakeholders, USAID, and A&E Bien Hoa Contractor. Presented data gaps, standards, implementation procedures and plans for the second meeting agenda.

TEC Professional Services Questionnaire

Phillips, continued.

Other experience and qualifications relevant to the proposed Project:

Air National Guard, Sunbelt Region Remediation Investigations/Feasibility Studies; AL, MS, and OH. Served as deputy Project Manager and Geologist for 23 sites in AL, MS, and OH. Sites required characterization of groundwater, soil, and air with respect to a variety of contaminants including petroleum, chlorinated solvents, and metals and development of feasibility studies to remediate the sites to unconditional use/unconditional exposure. Developed all plans and executed the field work to investigate soil/sediment, groundwater, surface water and vapor intrusion. Primary author of 16 RI reports including fate and transport modeling and coordination with risk assessors and groundwater modelers. Coordinated with State regulators for concurrence with No Further Action at more than 70% of the sites using both direct screening and risk-based approaches.

Air National Guard, Eastern Region Remediation Investigations/Feasibility Studies; U.S. and Puerto Rico. Served as the Field Operations Manager, Site HAS Officer, and Project Geologist. Developed Unified Federal Policy (UFP) Quality Assurance Project Plans (QAPPs) including Health and Safety Plans as the Site Health and Safety Officer for the 30 CERCLA sites for consultants and subcontractors. Work included Remedial Investigation (RI) documents with geological interpretation, Conceptual Site Models (CSM), numerical fate and transport modeling, and human health and ecological risk assessments. Also completed Feasibility Studies for environmental remediation activities and recommended remedial action and design where warranted. Completed No Further Action (NFA) documentation for sites eligible for closure. Proposed plans and developed Record of Decision and supporting Decision Documents meeting all public information requirements.

Environmental Compliance Assessor for Multiple Army National Guard EPAS Assessments in MN, TN, MS, ID, IL, NC, PA, and SC. Completed 8 EPAS assessments under the guidance of environmental compliance experts. The EPAS assessments ensure all federal, state, local, and ARNG environmental compliance regulations are being followed and include but are not limited to assessment of SWPPPs, environmental training records, hazardous materials, hazardous waste, air permits, cultural resources, pollution prevention, pest management, and water quality.

Geologist/Soil Scientist, for Multiple NEPA Environmental Assessments and Environmental Impact Statements. Reviewed reference documents to understand and synthesize existing conditions and inferred impacts based on proposed activities for multiple NEPA EAs and EISs for the following projects/sites: Bridalveil Fall Rehabilitation, Yosemite National Park, CA; United States Air Force F-35A Operational Beddown, Air National Guard; Replacement of Runway 07-25, Little Rock Air Force Base, Little Rock, AR; Preparatory Leadership Campus at USAF Academy, Colorado Springs, CO; Master Plan Implementation at Nine Army Material Command Installations, AL, NY, KY, MO, UT, OK, and VA; and Colorado ARNG, Fort Carson Enclave, Fort Carson, CO.

Field Operations Manager and Site Health and Safety Officer for U.S Army at Camp Ravenna, OH Final Groundwater Sampling Event. Developed fieldwork plan and led a multi-team field crew in sampling 65 monitoring wells in one week. Acted as the Site Health and Safety Officer and ensured all HAS protocols were followed during the groundwater sampling. Developed the bottle order for the 65 monitoring wells, which had multiple analytes per well including VOCs, SVOCs, PCBs, metals, explosives, and aquifer parameters. Coordinated with the laboratory that included a daily courier system to pick up the groundwater samples.

Data Collector for NAVFAC PWBL Phase II Material Inventories. Completed three Material Inventories at Naval Station Newport, RI; Yorktown Naval Weapons Station, VA; and Naval Air Station Lemoore, CA. Responsibilities included collecting all available data on PWBL materials, providing quality control checks on final inventory labels, and locating and placing final inventory labels.

Radon Assessment and Monitoring project at Marine Corps Logistics Base Albany in Albany, GA. Ms. Phillips is a National Radon Proficiency Program (NRPP) certified Radon Measurement Professional who led a team of four staff on the project developing a workplan/quality assurance plan for optimal deployment of detectors, questionnaire for tenants and placement/collection of over 200 radon detectors at Marine Corps Logistics Base Albany for a base-wide radon assessment.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Nam Nguyen
Chemical Engineer

Project Assignment:

Remediation Specialist

Name of Firm with which associated:



Years' experience with this Firm:

1

Education: Degree(s)/Year/Specialization:

Engineer-in-Training Professional Program, State of California, 1992
 BA, Chemical Engineering, University of California – Santa Barbara, 1987
 BA (with Distinction), Art Studio, University of California – Santa Barbara, 1987
Continuing Education: Project Management, Environmental Law and Regulations, RCRA Land Disposal Restrictions, Groundwater Pollution and Hydrology, Incineration, Air Pollution and Toxic Chemicals, Safety in Chemical Engineering, Water Supply and Pollution Control, Bioventing, OSHA 40 Hours Hazardous Waste Training for Site Personnel, OSHA 8 Hours Health & Safety Training for Supervisors and Managers

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:



Mr. Nguyen has over 30 years of experience conducting and managing **environmental**, construction, and **disaster response efforts**, including planning, construction, and emergency management projects. He has technical agility in designing, optimizing, and building a variety of systems including **soil and groundwater remediation**, wastewater treatment, process piping and is experienced in preparing specifications, plans, bid documents, **operation and maintenance manuals**, and other relevant documents. His experience also includes construction management and execution throughout the US. He has direct experience as Technical Specialist and QA/QC manager to Long Island Power Authority to manage and coordinate Technical Compliance Team for reviewing Hazard Mitigation Proposals (HMP), Engineer's Construction Design, construction Execution Compliance, performing cost analyses using BCA (Benefit-Cost Analyses), **conducting field inspection**, and preparing Technical Construction Compliance reports for approximately 1000 miles of transmission lines. Mr. Nguyen is currently serving as the **remediation subject matter expert** for the Bien Hoa Airbase Project in Vietnam. He is responsible for developing **site characterization** plans with respect to **DQOs** associated with treatment, developing **remediation designs** for individual sites as well as the overall treatment facility for **thermal treatment** of over 300,000 cubic meters of soil and sediment to be conducted under a separate contract.

Mr. Nguyen provided these services directly for Jefferson Parish Government, as well as entities within the Parish, Jefferson Parish Public School System, Orleans Parish School Board, St. Bernard Parish School District, and St. Charles Parish Public Schools, New Orleans Lakefront Airport, East Jefferson Parish Levee District, Community Centers in Jefferson and Orleans Parish, and various non-profits in Jefferson Parish, Orleans Parish, and Lafayette.

TEC Professional Services Questionnaire

Nguyen, continued.

Other experience and qualifications relevant to the proposed Project:

RELEVANT PROJECT EXPERIENCE

USAID A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; Bien Hoa, Vietnam. Served as the on-site Remediation Specialist from July 2022 through December 2022 and technical support to onsite environmental and HAS compliance specialist and Chief of Party with oversight tasks and reporting during construction and remediation activities. Assisted in the development of activity specific Environmental Monitoring and Mitigation Plans and Site-investigation Plans. Participated in planning and implementation of additional site characterization (subsurface soil sampling) for remedial design.

Investigated Potentially Hazardous and/or Remedial Environmental Situations for Multiple Projects. Responsibilities for above projects included writing investigation and impact evaluation reports, closure request documents, and site risk management and/or remedial action plans for the following clients:

- United Airlines - Included geophysical survey, soil/groundwater impact evaluation, and regulatory assessment for alleged drum burial site.
- Courtaulds Coatings - Groundwater/soil evaluation after removal of underground storage tanks.
- ConocoPhillips - Technical Coordinator for Bulk Terminal Plants and Tidewater Sites throughout California, with added duties of project management and technical support.
- North American Transformer - Technical support for remedial investigation/feasibility study (RI/FS) and evaluation of applicability of TSCA, RCRA, and state regulations for soil and groundwater.
- EurekaBank - Oversight of underground storage tank removal, evaluation of treatment and disposal alternatives for contaminated soil, installment of soil borings, and monitoring of wells to assess potential impact to groundwater.

Provided Regulatory Compliance Assessment and Investigations for:

- FMC - Technical support for AB2588 "Toxic Hot Spots" and SARA Title III.
- Lockheed - Assessment of underground storage tanks.
- Hughes Aircraft Company - Proposition 65 investigations for nine divisions pursuant to the Safety Drinking Water and Toxic Act of 1986.

Various duties for projects included data collection, process evaluation, compliance assessment, air emission calculations, compliance audit/mitigation measures, occupational health and safety evaluations, and report preparation, including cost and technical proposals.

Managed, Prepared, and Implemented Remedial Action Plans for:

- Rhodia - Final phyto-remediation plan for facility with successful negotiations with RWQCB for site closure plan
- PG&E - Remedial action plan for PCB and petroleum-impacted soil, including preparation of long-term projections for remedial investigation and action costs for gas-gathering facilities.
- Courtaulds Aerospace - Soil remedial action work plan for heavy metals.
- North American Transformer - Remedial action plan following site investigation.

Project Management duties included monitoring budgets, scheduling and coordinating staff and contractors, preparing bid documents and reports, and communicating directly with clients and regulatory agencies for investigation and mitigation objectives.

Public Assistance Coordinator - Katrina/Rita and Gustav/Ike Hurricane Recovery Effort; New Orleans, LA. Conduct Kick-Off meetings with Applicants to introduce and discuss the FEMA PA program, policies and procedures, and address Applicants' specific needs.

- Conducted cost estimates using FEMA Cost Codes, RSMeans, local historical costs for eligible damages and conduct 50% analyses, as necessary.
- Led, managed, and coordinated resources to assess eligible damages, assist Applicants (which included school districts, local governments, fire and police departments, utility companies, levee district boards, and private nonprofits) with PA process, including completing Project Worksheets and design assistance.
- Served as liaison with state and local officials
- Reviewed and coordinated Special Considerations (environmental, historic preservation, floodplain, hazard mitigation, etc.), prepare cost and scope alignments, and validate bid and change orders.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

William Perry
Chemist

Project Assignment:

Project Chemist

Name of Firm with which associated:



Years' experience with this Firm:

1

Education: Degree(s)/Year/Specialization:

BA, Chemistry, Southern Illinois University, 1986
Audit Team Lead Training, Laboratory Auditing – Basic and on-going Assessor Training, PJLA
Ongoing (workshop) participation / training, EDQW
Construction Quality Management for Contractors (CQM-C) Training, USACE – New Orleans District
OSHA HAZWOPER 40-hr, 8-hr, Safety Officer & Management

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:



Mr. Perry has over 28 years of experience in US EPA/DoD/DOE **environmental chemistry** program support. He has extensive knowledge of **environmental lab operations** and has been instrumental in numerous **method and validation developments**. He has developed hundreds of **SAP/QAPPs** and conducted **data validation per NFG and QSM** his entire career. He conducts **laboratory audits** and trains chemists and data validators. Mr. Perry is currently the project chemist for the USAID Bien Hoa Airbase Project in Vietnam verifying and validating all data and **troubleshooting laboratory issues**. He is the liaison with two US-based laboratories and one Vietnamese laboratory. He is providing capacity-building support to the Vietnamese lab through audits and development of data deliverables in accordance with **US EPA methods** as well as DoD requirements.

RELEVANT PROJECT EXPERIENCE

USAID, A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; Bien Hoa, Vietnam. Project-level support during the site assessment phase including contracted laboratory coordination inside Vietnam and CONUS, analytical data package review to NFG and QSM standards, sample tracking database development and maintenance, sample collection and analysis problem troubleshooting, and general environmental and analytical quality control improvement advisement.

Laboratory Accreditation Body Auditor, Nationwide. Provided contract support to DoD / DOE / ISO 17025 / NELAP laboratories through independent, formal auditing on behalf of an internationally recognized accreditation body. Serving as both an acting audit team leader and as a technical auditor focusing on DoD-DOE QSM and ISO 17025 standards compliance.

TEC Professional Services Questionnaire

Perry, continued.

Other experience and qualifications relevant to the proposed Project:

Quality Assurance Manager, Baton Rouge, LA. Successful interaction with DOECAP / DoD / ISO 17025 / NELAP state audits, and multiple 3rd party audits on behalf of private sector clientele for two large private sector laboratories. Method development including validation of non-standardized procedures. Managed internal audit / corrective actions, performance testing, client deconfliction, proposal support/ bid response, & MDL validation / update.

USEPA START Contract (Region 6), Nationwide. Chemistry coordinator under USEPA START contract (Region 6). Managed analytical service subcontractors meeting federal procurement requirements. Oversaw service delivery including auditing, pre-approval of laboratories, communication and issue resolution between field sampling crews and laboratories, and review / validation of analytical data meeting National Functional Guidelines.

Analytical Services Manager, Nationwide. Mobile and fixed lab operational management including management of field sampling operations. Management of emergency removal and remedial action operations at Superfund sites and emergency responses.

Chemist/Environmental Specialist; New Orleans, LA. Served as contractor for emergency operations planning projects for Orleans Parish.

USEPA START Post-Katrina Hazardous Waste Projects, Jefferson, St. Charles, and Orleans Parishes. Responsible for analytical services for these projects which managed household hazardous waste removal in the aftermath of Hurricane Katrina. Oversaw auditing, pre-approval of laboratories, communications between field crews and laboratories, and assuring that all analytical data met Federal guidelines.

Chemist/Environmental Specialist; St. Charles, St. James, and Terrebonne Parishes, LA. Served as contractor for emergency operations planning projects for multiple South Louisiana parishes.

USEPA START West Bank Asbestos Assessment & Removal Project, Jefferson Parish. Managed sampling and analysis efforts for this remediation project for the US EPA.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Regina Cassanova, PE
Principal Engineer

Project Assignment:

Civil Engineer/Coastal Restoration

Name of Firm with which associated:



Years' experience with this Firm:

11

Education: Degree(s)/Year/Specialization:

BS in Civil Engineering, University of New Orleans, 2003

Active registration: Year first registered/discipline:

2010, Civil Engineer, Louisiana (Also registered in FL and TX)

Other experience and qualifications relevant to the proposed Project:



Ms. Cassanova is a Professional Engineer with **22 years of experience in the planning, engineering, design and construction of coastal and water resources**, drainage/flood-control, storm water and municipal water and wastewater systems and treatment facilities. She is experienced with **hydrologic and hydraulic calculations and designs for various water-related topics**. Additional skills include project management of design and construction projects, and program management related to capital improvement programs. She has also worked on numerous projects involving drainage/storm water, roads, buildings and facilities and general program management. **Ms. Cassanova also has experience on numerous disaster recovery and hazard mitigation projects involving FEMA and GOHSEP** and has worked on projects in the US, Australia, Haiti, Jordan, Libya and Palestine. **She is a licensed Professional Civil Engineer in Louisiana, Florida, and Texas.**

RELEVANT PROJECT EXPERIENCE

Northeast Turtle Bay Marsh Creation & Critical Area Shoreline Protection Project; Lafitte, LA. Served as Project Manager for this coastal restoration project assigned as a task order under an IDIQ contract with the US Dept. of Agriculture-Natural Resources Conservation Service. The intent of the project is to protect the critical reaches of shoreline on the Northeast side of Turtle Bay and protect current channels from erosion and widening. The project involves marsh creation, shoreline protection utilizing borrow material from Turtle Bay, and channel liners to protect current channels from erosion and widening. numerous driveways and access roads into private property.

TEC Professional Services Questionnaire

Cassanova, continued.

Other experience and qualifications relevant to the proposed Project:

Bayou Long Coastal Restoration Project, Plaquemines Parish, LA. Project Engineer for the restoration of approximately 49,000 linear feet (110 acres) of historic ridge off the right-descending bank of the Empire Waterway in southern Plaquemines Parish. The objective of this project was to provide coastal upland habitat, restore natural hydrology, and provide some measure of wave and storm surge attenuation.

Hazard Mitigation Retrofit of Power Plant Complex; New Orleans, LA. Project Engineer for Trigon's efforts on this project, which includes upgrades to allow the S&WB to produce power independently from the local energy provider and maintain reliable operations of the Carrollton Water Treatment Plant and other facilities such as sewer and drainage pump stations located throughout the City, therefore mitigating disruptions to the power system and the potable water supply service to the City. Project involves repairs and upgrades to critical facilities such as generators, fuel storage tanks, boilers, turbines and electrical instrumentation and controls. Trigon's involvement included design, engineering services, construction management and inspection for several contract packages, and environmental permitting efforts associated with this project.

Abita Nursery Drainage Study; St. Tammany Parish, LA. Provided review and QA/QC services for a hydrologic and hydraulic (H&H) study of an approximately 130-acre area, inclusive of the Abita Nursery Subdivision and surrounding area. The area experiences nuisance flooding due to inadequate drainage, and this project aims to remedy the situation. Drainage infrastructure in the project area consists primarily of a surface drainage system of ditches within the rights-of-way and culverts beneath numerous driveways and access roads into private property.

Engineers Road/Cazalard Road Hazard Mitigation Drainage Improvements, Belle Chasse, LA. Project Manager for a Phase I study (Hydrologic and Hydraulic) and design services associated with drainage improvements in the vicinity of Engineers Rd and Cazalard Rd. Generally includes evaluating multiple drainage canals and ditches, culvert crossings of a major roadway and railroads, and evaluation to construct a new drainage pump station to replace a temporary pump currently being used by the Parish. Included necessary surveying and data collection, an H&H study, identification of necessary improvements, preparation of cost estimates, performing preliminary and final design services, followed by construction phase services. The drainage basin was assessed against 10-, 25-, 50- and 100-year storm events.

Water Hammer Hazard Mitigation Grant Program Project; New Orleans, LA. Project Manager for Trigon's engineering and design work as a major subconsultant on this project to mitigate water hammer events/effects on the East Bank water distribution system by upgrading facilities at the Sewerage and Water Board of New Orleans (S&WB) Carrollton Water Treatment Plant (WTP) complex. Primary improvements resulting from this project include modifications to finished water pump stations, plant piping/valves/meters, a new building to house Variable Frequency Drives (VFDs) and other electrical and controls equipment, power supply modifications, two (2) new elevated storage tanks, and a remote-site bladder tank installation.

Barriere Road Retention Pond and Drainage Pump Station Improvements, Belle Chasse, LA. Project Manager for the design of drainage improvements at the existing Barriere Road retention pond, located adjacent to the Medal of Honor Park. These improvements are intended to increase the drainage capacity in the area and better handle wet weather conditions. Efforts generally consist of the design and construction of improvements to the retention pond (including improvements to a bar screen and the suction basin for an existing pumping station), a new pumping station, along with its associated discharge piping.

Sewerage and Water Board of New Orleans - Sewer System Evaluation and Rehabilitation Program; New Orleans, LA. Ms. Cassanova assisted in the regulation of the \$630+ million EPA-mandated Sewer System Evaluation and Rehabilitation Program (SSERP). Assisted Resident Engineers in the management of 11 sewer rehabilitation contracts totaling \$23M. Key developer of the data management system for the SSERP office, which integrated data from all stages of the management of rehabilitation contracts, including Design, Procurement, Construction and Certification. The system was based upon standard industry practices including GIS and database design. Also participated in the execution of Collection System Evaluation Studies and development of Remedial Measures Action Plans (reports for the US EPA) for the Lakeview, Gentilly, CBD/FQ, Mid-City, and Uptown basins.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lisbeth Nagrath, PE

Senior Project Engineer

Project Assignment:

Engineering and Design, Environmental Permitting & Compliance

Name of Firm with which associated:



Years' experience with this Firm:

9

Education: Degree(s)/Year/Specialization:

MS in Civil Engineering, University of New Orleans, 2007

BID in Interior Design, Louisiana State University, 2000

BA in Art History, University of Texas at Austin, 1997

Active registration: Year first registered/discipline:

2011, Civil Engineer, Louisiana

Other experience and qualifications relevant to the proposed Project:



Ms. Nagrath is a **Professional Engineer in Louisiana with over 19 years experience that includes a range of design and civil/environmental engineering**. She has worked on a variety of municipal infrastructure projects and facilities, including water distribution systems, wastewater collection systems, pump/booster stations and water/wastewater treatment plants. **Additionally, Ms. Nagrath is experienced with environmental assessments, permitting, and regulatory compliance matters.**

RELEVANT PROJECT EXPERIENCE

A-E Services for Dioxin Remediation at Bien Hoa Airbase Area, U.S. Agency for International Development (USAID), Bien Hoa, Vietnam. Ms. Nagrath is serving as Task Manager for the detailed design of the engineering tasks required to implement the Dioxin Remediation Masterplan for the Bien Hoa Airbase Area. These design tasks include: remedial action design, groundwater and surface water drainage, construction of roads on the airbase, power supply and distribution to facilitate the remediation works, and design of structures. She led the development of the site-wide hydrological model that included current and designed modifications to drainage and infiltration.

Retrofit Power Plant Hazard Mitigation Grant Program (HMGP) Project, New Orleans, LA. Project Engineer for Trigon's efforts on this project, which included upgrades to allow the S&WB to produce power independently from the local energy provider and maintain reliable operations of the Carrollton Water Treatment Plant and other facilities such as sewer and drainage pump stations located throughout the City, therefore mitigating disruptions to the power system and the potable water supply service to the City. Project involved repairs and upgrades to critical facilities such as generators, fuel storage tanks, boilers, turbines and electrical

TEC Professional Services Questionnaire

Nagrath, continued.

Other experience and qualifications relevant to the proposed Project:

instrumentation and controls. Trigon's involvement included design, engineering services, construction management and inspection for several of the nine contract packages, including the design-build project for S&WB power distribution feeders, hardening of fuel tank and delivery system, power plant generator retrofit, steam turbine generator load bank testing, and local electrical feeder installation. Ms. Nagrath served as Project Manager for the fuel tank and delivery system hardening project. She also led the environmental permitting efforts associated with this project.

LPDES Permitting and Regulatory Compliance, St. Bernard Parish, LA. Ms. Nagrath prepared the plant LPDES permit application for the consolidation of flows from multiple wastewater treatment facilities, coordinating with the Parish, LDEQ and testing laboratories. This permit included interim and final discharge limitations for consolidation phasing. Ms. Nagrath managed compliance order efforts with the Parish and LDEQ, including activity reporting requirements, scheduling, facilitating meetings between the Parish and LDEQ, preparing responses and clarifications to LDEQ, and providing progress reports to the Parish. She also assisted the Parish with biosolids permitting.

Carrollton Basin Sewer Rehabilitation Design and Permitting, Sewerage & Water Board of New Orleans, LA. As Project Engineer, Ms. Nagrath coordinated the preparation of contract documents for 16 construction packages, which included comprehensive rehabilitation of gravity sewers by point repairs, service repairs, full line replacements, cured-in-place-pipe (CIPP) lining, and manhole rehabilitation. Efforts included GIS coordination, review of CCTV inspection data, defect coding, data analysis, conflict evaluation, quantity calculations, cost estimating, and construction contract document preparation. Additionally, Ms. Nagrath led permitting efforts for the 16 construction packages, which included Department of Public Works Service Cuts Permits and Orleans Levee District Permits. This work also included coordinating with Entergy and Cox Communications for utility reviews.

Environmental Impact Statement for I-10 Widening, Baton Rouge, LA. As a research associate, Ms. Nagrath coordinated public involvement of the Environmental Impact Statement for the proposed widening of I-10 in Baton Rouge. She conducted research, gathered community input and maintained an information center for local residents to learn about the proposed project. Organized multiple community meetings and design charrettes involving community stakeholders, members of the professional community, faculty and students. Collected, documented, and maintained data.

Environmental Assessment, Coastal Protection and Restoration Authority (CPRA), Louisiana. Program Engineer. Responsible for environmental assessment preparation for CPRA projects, funded by the Coastal Communities Recovery Program through HUD's CDBG Program. Developed project descriptions, determined level of review, prepared maps, solicitation of views, 8 step floodplain management determination, summary of findings, process documentation, and report preparation.

Parish-wide Wastewater Consolidation Planning and Environmental; St. Tammany Parish, LA. Prepared Environmental Information Document (EID) and Facility Plans for the St. Tammany Parish Wastewater Consolidation Program. Efforts included project development, capacity requirements, population projections, program cost estimating, and public hearings. Also included development of standard technical specifications for conveyance systems and implementation scheduling. Environmental and regulatory considerations included environmental impacts, adverse effects, and short and long term impacts of the projects. Work included solicitation of views from commenting agencies and management of agency responses. Additionally, she worked on the foundation documents for wetland discharge to the Fritchie Marsh. A preliminary feasibility analysis, conceptual design of the discharge, summary of the permitting requirements and baseline ecological characterization for LPDES wetland assimilation permitting were performed.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Archana Sharma, PE, ENV SP, LEED AP
Senior Project Engineer/Environmental Engineer

Project Assignment:

Environmental Engineering

Name of Firm with which associated:



Years' experience with this Firm:

3

Education: Degree(s)/Year/Specialization:

MS, 2007, Environmental Engineer, University of Houston
 B. Tech, 2005, Chemical Engineering, Sri Venkateswara College of Engineering, Anna University, India

Active registration: Year first registered/discipline:

2010, Professional Engineer, Texas License No. 107725
 Envision Sustainability Professional
 Leadership in Energy and Environmental Design (LEED) Accredited Professional

Other experience and qualifications relevant to the proposed Project:



Ms. Sharma has over **15 years of experience as an Environmental Engineer and Project Manager**, specializing in water and wastewater infrastructure projects. She holds a **Bachelor's degree in Chemical Engineering** from Anna University in India, as well as a **Masters degree in Environmental Engineering** from the University of Houston. **Archana is a licensed Professional Engineer in the State of Texas, an Envision Sustainability Professional (ENV SP), and a Leadership in Energy and Environmental Design Accredited Professional (LEED AP)**. Her project experience includes design and construction phase services for collection/distribution systems, pumping stations, water treatment plants and wastewater treatment plants, including process design, mechanical design and general civil engineering. She also has experience in the design of processes/facilities for **reclaimed water** from wastewater treatment plant effluent. She is well versed with **regulatory requirements** and has experience in **developing permit applications and related documents and coordinating with the agencies for project permitting needs**.

RELEVANT PROJECT EXPERIENCE

Northeast Turtle Bay Marsh Creation & Critical Area Shoreline Protection Project; Lafitte, LA. Serving as Environmental Engineer, providing design and engineering for this coastal restoration project assigned as a task order under an IDIQ contract with the US Dept. of Agriculture-Natural Resources Conservation Service. The intent of the project is to protect the critical reaches of shoreline on the Northeast side of Turtle Bay and protect current channels from erosion and widening. The project involves marsh creation, shoreline protection utilizing borrow material from Turtle Bay, and channel liners to protect current channels from erosion and widening. numerous driveways and access roads into private property.

TEC Professional Services Questionnaire

Sharma, continued.

Other experience and qualifications relevant to the proposed Project:

A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; U.S. Agency for International Development, Bien Hoa, Vietnam. Providing technical home office support for the development of a Masterplan for remediation activities at the Bien Hoa Airbase Area and project management services necessary to develop content and design for a permanent exhibition at the War Remnants Museum at Ho Chi Minh City, Vietnam. The exhibition will focus on U.S.-Vietnam collaboration in three areas: Unexploded Ordnance (UXO) Action, Environmental Remediation, and Support for Persons with Disabilities. Services include all associated activities in compliance with US and Government of Vietnam regulations and coordination with all stakeholders to obtain approval for the exhibition content and design.

Hazard Mitigation Retrofit Power Plant Program at Carrollton Water Treatment Plant; New Orleans, LA. Senior Engineer for Trigon's role on this approximately \$184M hazard mitigation grant program project to retrofit a unique power plant owned and operated by the S&WB that produces power at 25 Hertz and supplies critical facilities via an underground feeder network throughout the city. Work included, for example, repairs and upgrades to generators, fuel tanks, boilers, turbines, and electrical instrumentation & controls infrastructure, as well as ancillary facilities at the Carrollton Water Treatment Plant complex where the power plant is co-located. Work also included major renovations to the Oak Street Raw Water Pump Station for which Trigon provide an on-site Construction Manager and a Resident Inspector. Trigon staff served in major/lead roles on several projects within this program.

Effluent Force Main Evaluation/Study for WWTP No. 3; Kenner, LA. Performed engineering services to identify and evaluate alternatives to enhance the reliability of the existing effluent force main through which treated wastewater is discharged from the Kenner Wastewater Treatment Plant No. 3 to the Mississippi River. The existing effluent force main is 48-inches in diameter and is approximately 30 years old.

Source Water Protection Plan (SWPP); Houston, TX Ms. Sharma served as Project Manager for Trigon's tasks related to updating the Source Water Protection Plan (SWPP) for the Drinking Water Treatment and Distribution Technical Optimization and Sustainability Support Services project and supported efforts to finalize a SWPP and Wellhead Compliance Study for the City of Houston.

Water Hammer Hazard Mitigation Grant Program Project; New Orleans, LA. Project Engineer supporting Trigon's engineering and design work as a major subconsultant on this project to mitigate water hammer events/effects on the East Bank water distribution system by upgrading facilities at the Sewerage and Water Board of New Orleans (S&WB) Carrollton Water Treatment Plant (WTP) complex. Primary improvements resulting from this project include modifications to finished water pump stations, plant piping/valves/meters, a new building to house Variable Frequency Drives (VFDs) and other electrical and controls equipment, power supply modifications, two (2) new elevated storage tanks, and a remote-site bladder tank installation.

Hurricane Harvey Disaster Recovery for Wastewater Lift Stations; Houston, TX. Served as Project Manager/Senior Engineer providing professional engineering services related to detailed asset inventories, damage assessments, cost estimation and documentation for 36 lift stations damaged during the Hurricane Harvey disaster. As the prime consultant, Trigon was responsible for overall project management and ensuring compliance with state and federal reimbursement guidelines. Trigon also served as a subconsultant providing similar services for 65 other lift stations throughout the City.

Water Line Replacement Program; New Orleans, LA. Project Engineer for efforts performed under the Sewerage and Water Board of New Orleans WLRP. The purpose of this program was to replace water lines on the East Bank of the City damaged as a result of floodwaters from Hurricane Katrina. Eligible water lines for replacement were determined based upon a FEMA and S&WB-developed pipe evaluation criteria. The resulting water line replacements had to be coordinated with the City of New Orleans Department of Public Works Recovery Roads Program; the Department of Transportation and Development's Submerged Roads/Paths to Progress Program; and ongoing City and S&WB projects for street and sidewalk repairs, water point repairs, sewer repairs and replacement; and other relevant stakeholders projects. Trigon was the prime engineer for improvements in the Lakeview, Lakewood, Navarre and West End neighborhoods. Trigon also performed services as a subconsultant in six (6) other neighborhoods.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Barry Breaux, PE

Project Engineer/Environmental Engineer

Project Assignment:

Environmental Engineering

Name of Firm with which associated:



Years' experience with this Firm:

5

Education: Degree(s)/Year/Specialization:

BS in Environmental Engineering, Louisiana State University, 2017

Active registration: Year first registered/discipline:

2022, Professional Engineer, Louisiana

Other experience and qualifications relevant to the proposed Project:



Mr. Breaux is an environmental engineer with over 7 years of experience, including research, internships and design competitions prior to his joining Trigon in 2017. He has worked on a variety of **environmental laboratory, testing, sustainability, and design projects**; a sampling of which include: BP Deep Water Horizon **Oil Spill sampling**, a **Bioretention Bed** at the New Orleans City Park for the Louisiana Department of Environmental Quality, **Sustainability Projects** in the Amazon Rainforest, and serving as Project Manager/Lead for a 2017 IEE/WERC International Design Competition team from LSU that designed, built and operated a Passive Solar Distillation system. He is a **licensed PE in Louisiana**, a member of the **Louisiana Water Environmental Association**, the National Society of Collegiate Scholars, and Engineers Without Borders.

RELEVANT PROJECT EXPERIENCE

Northeast Turtle Bay Marsh Creation & Critical Area Shoreline Protection Project; Lafitte, LA. Providing design and engineering support services for this **coastal restoration** project assigned as a task order under an IDIQ contract with the US Dept. of Agriculture-Natural Resources Conservation Service. The intent of the project is to protect the critical reaches of shoreline on the Northeast side of Turtle Bay and protect current channels from erosion and widening. The project involves marsh creation, shoreline protection utilizing borrow material from Turtle Bay, and channel liners to protect current channels from erosion and widening. numerous driveways and access roads into private property.

LSU Department of Environmental Quality; Baton Rouge, LA. While serving as an intern in the LSU Department of Environmental Quality under the direction of Dr. John Pardue, Mr. Breaux performed various laboratory tasks including: sample collection, sample analysis, DNA extraction and analysis of BP Deep Water Horizon oil spill samples, and database management. He also assisted in the design and construction of a bioretention bed for the New Orleans City Park and served as project lead for an international design competition team focusing on passive solar distillation.

TEC Professional Services Questionnaire

Breaux, continued.

Other experience and qualifications relevant to the proposed Project:

Engineers Road/Cazalard Road Hydrologic & Hydraulic Study and Drainage Improvements; Belle Chasse, LA. Provided field verification and design support services for improvements to multiple drainage canals and ditches, a culvert crossing of a major roadway, subsurface drainage, and evaluation and design to construct a new drainage pump station that discharges over a levee into the Intracoastal Waterway (GIWW). Also supporting environmental permitting efforts for the project.

Buras Wastewater Treatment Plant Improvements; Buras, LA. Mr. Breaux provided support to the engineering team for an assessment of the Buras Wastewater Treatment Plant (WWTP) in Plaquemines Parish, LA. This assessment was intended to determine the necessary repairs, rehabilitation measures and/or process modifications required to improve operational conditions of the WWTP.

East and West Wastewater Treatment Plants – Staff Extension Services; New Orleans, LA. Staff extension services to the Sewerage and Water Board of New Orleans to assist with capital improvement projects at the East Bank and West Bank Wastewater Treatment Plants (WWTPs). In support of these efforts, Trigon furnished a full-time on-site engineer for a period of one (1) year to provide engineering support and construction inspection services. Project responsibilities include: design input and review, construction management, inspection services, and coordination with WWTP operators during design and construction phases.

Hurricane Harvey Disaster Recovery for Wastewater Lift Stations; City of Houston, TX. Provided engineering support services related to detailed asset inventories, damage assessments, and documentation for 36 lift stations damaged during the Hurricane Harvey disaster. As the prime consultant, Trigon was responsible for overall project management and ensuring compliance with state and federal reimbursement guidelines. Trigon also served as a subconsultant providing similar services for 65 other lift stations throughout the City.

Site Plan Development for Daybrook Fisheries; Empire, LA. Trigon performed various services/projects for Daybrook Fisheries, Inc. at their processing facility in southern Plaquemines Parish, which is situated between the Mississippi River and the Buras Navigation Canal. One project consisted of development of a comprehensive site plan for the entire property, which generally included surveying the property; identifying all major property features such as buildings, equipment, storage tanks, docks, loading and unloading facilities, river intake pump station, river outfall, etc.; and creating a scale-drawing of the facility with identification of all features. Mr. Breaux provided services to verify the survey data and incorporate it into the drawing(s), including site visits to verify the accuracy of information.

East Bank Wastewater Treatment Plant Bleach Disinfection System, New Orleans, LA. Provided engineering support for the design of a bleach disinfection system that will replace the existing gaseous chlorine injection system at the Sewerage & Water Board of New Orleans' 200 MG East Bank WWTP. The previous disinfection system used gaseous chlorine delivered via railway and stored onsite in the delivered tank cars. Changes in the ability to receive gaseous chlorine via railway created the need for another disinfection method to be available for use at the WWTP.

West Bank Wastewater Treatment Plant Piping & Valve Identification and Rehabilitation Master Plan, New Orleans, LA. Provided engineering support for a physical evaluation and assessment of the WBWWTP, a 20 MGD trickling filter facility. This project focused on creating an inventory of all the piping and valves, assessing the physical and operational condition of the assets, and then developing a master plan to replace and/or rehabilitate the assets to ensure long-term reliability and sustainability.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Angie Albrecht, CFM

Floodplain Manager, Program Manager, Grant Manager

Project Assignment:

Compliance Specialist

Name of Firm with which associated:



Years' experience with this Firm:

8

Education: Degree(s)/Year/Specialization:

BS, Business Management/Human Resources, University of New Orleans, 2002

Active registration: Year first registered/discipline:

Certified Floodplain Manager (CFM), Issued 2010

Other experience and qualifications relevant to the proposed Project:



Ms. Albrecht has more than 19 years of floodplain management, construction management, program and project management, project support, contract administration, finance and document management experience in engineering and construction related fields. She has worked with funding sources such as FEMA, HUD, CDBG, NFIP, SBA, NSP1, DHS, and FHA. **She assisted in various recovery programs of the City New Orleans after Hurricane Katrina, and New Jersey after Superstorm Sandy.** Seven years of Ms. Albrecht's **floodplain management** experience has been concentrated on **hazard mitigation grant programs at a municipal and state**

level with core competencies in program management, grant management, construction management, closeout, audit, NFIP, **lood mapping**, Community Rating System (CRS), and related **municipal and state regulatory agencies**. Funding sources for these programs include: HMGP, SRL, FMA, PDM, RFC, ICC, and CDBG. Through these programs, she has been involved in the successful mitigation of over 7,000 residential properties.

RELEVANT PROJECT EXPERIENCE

Infrastructure Needs Program Phase II, U.S. Agency for International Development, West Bank, Palestine. Providing home office support and administration for this \$750M+ infrastructure program in the Middle East to plan, design and construct numerous projects related primarily to water, wastewater and transportation infrastructure and facilities. Current work underway includes overall program management; design and environmental permitting for 10 wastewater treatment plants and the associated sewage collection systems located throughout the West Bank; multiple water well, pipeline and booster station projects; and multiple road rehabilitation/reconstruction projects.

Albrecht, continued.

Other experience and qualifications relevant to the proposed Project:

Certified Flood Plain Manager/Mitigation Specialist, Hazard Mitigation Assistance Program, Jefferson Parish, LA. Provided grant counseling and facilitation for the Jefferson Parish 2014 Hazard Mitigation Assistance Grant Funding Project. This project includes five (5) selected FEMA FMA and PDM grant applications that include 43 residential elevation properties, one (1) non-residential elevation property, six (6) residential mitigation reconstruction properties, and wind retrofit of three (3) government buildings. The project has an aggressive schedule of full execution within two (2) years of award and full project closeout within three (3) years to comply with federal grant requirements.

Floodplain Technical Assistance; Jefferson Parish, LA. Mrs. Albrecht provided evaluation and correction of community information through a review of all Finished Construction elevation certificates collected by the Jefferson Parish through their Permitting and Code Enforcement Department. Includes a cross reference and evaluation of flood zones and building elevations.

Project Management and Technical Services, 2018 Application Development, Terrebonne Parish, LA. Ms. Albrecht provided grant management and application development services for non-disaster grant opportunities for the Flood Mitigation Assistance and Pre-Disaster Mitigation Grant Programs in Terrebonne Parish. The scope of services includes coordinating with Terrebonne Parish Government on the application for Elevation, Infrastructure and Restoration grants that may include elevation, mitigation reconstruction, buyout, critical facility hardening, pump station improvements, coastal restoration and planning. Three (3) applications were approved by the State to be submitted to FEMA. Of the three (3) applications submitted during the Fiscal Year 2018 application cycle, two (2) were selected for further review. The third application, although it met FEMA requirements, was not selected because the total number of applications exceeded the funding approved for the fiscal year.

Program Manager, Jefferson Parish Hazard Mitigation Grant Program (HMGP) Katrina/Rita and FMA, Jefferson Parish, LA. Oversight and Management of Hazard Mitigation elevation and reconstruction including: public outreach, application development, benefits cost analysis (BCA), greatest savings to the fund (GSTF), project management, funding, compliance and closeout. Emphasis on construction management.

Program Management for FEMA Hazard Mitigation Assistance Consultant, City of New Orleans, LA. Mrs. Albrecht provides grant program counseling and facilitation to the City of New Orleans Office of Hazard Mitigation. In this capacity she has assisted in the preparation of grant applications and environmental review processes in addition to overall program management for the City's home elevation projects that includes 36 residential elevation properties and the installation of Automatic Transfer Switches and Generators at 11 critical facilities within the City of New Orleans.

Program Manager, Jefferson Parish Hazard Mitigation Grant Program (HMGP) Gustav/Ike, Jefferson Parish, LA. Oversight and Management of Hazard Mitigation elevation and reconstruction including: public outreach, application development, benefits cost analysis (BCA), greatest savings to the fund (GSTF), project management, funding, construction, compliance and closeout. Emphasis on construction management.

Grants Administration, St. John the Baptist Parish, LA. Ms. Albrecht provided grant management and application development services related to the preparation of three applications for FMA Swift Current in fiscal year 2022, following Hurricane Ida.

Sewer System Evaluation and Rehabilitation Program (SSERP), New Orleans, LA. Mrs. Albrecht served in various roles as part of this \$630M+ sewer assessment and rehabilitation program, including construction program office manager. The program was a result of a Consent Decree imposed by U.S. Dept. of Justice and U.S. EPA. Responsibilities included document control, contract management and administration.

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

<p>Project Name, Location and Owner's contact information:</p>	<p>Nature of Firm's Responsibility:</p>	
<p>1. A-E Services for Dioxin Remediation at Bien Hoa Airbase Area; Bien Hoa, Vietnam.</p> <p>USAID/Vietnam Karitha Jenchiewchan, AO/CO +66 02 257 3025</p> 	<p>Trigon is serving as the prime on this contract to provide A-E and all related technical services to USAID to develop and facilitate approval (by the Government of Vietnam) of a Project Implementation Masterplan and to provide environmental and engineering design, construction management implementation support and related project implementation services for dioxin remediation at the Bien Hoa Airbase Area in Vietnam - the largest remaining hotspot of dioxin contamination in Vietnam. Services include ensuring compliance with all US and Government of Vietnam environmental regulations; development of site-wide plans including Health & Safety Plan, Work Plan, and Quality Assurance Project Plan to be used by all contractors; conduct sampling and analysis to determine nature and extent of dioxin and arsenic in soil, sediment, surface water, and groundwater; confirmation sampling for remedial actions; develop remedial alternatives for treatment of over 400,000 cubic meters of soil/sediment and conduct treatability studies, conduct site evaluations for long-term storage and treatment facilities, as well as other aspects of the project including oversight of engineering and construction. This is one of the most complex and high-profile environmental remediation projects the US Government is involved with.</p>	
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p>	
<p>2023 (Estimated)</p>	<p>Entire Project:</p> <p>\$33M</p>	<p>Work for which Firm was Responsible:</p> <p>\$33M</p>

PROJECT NO. 2

<p>Project Name, Location and Owner's contact information:</p>	<p>Nature of Firm's Responsibility:</p>	
<p>2. Northeast Turtle Bay Marsh Creation and Critical Area Shoreline Protection Project (BA-206); Lafitte, LA</p> <p>USDA NRCS Nick McCoy, Contracting Officer Representative 337.417.8716</p> 	<p>Trigon conducted overall project management and engineering design services for this environmental resilience restoration project to protect the critical reaches of shoreline and current channels on the Northeast side of Turtle Bay. Trigon performed a magnetometer and bathymetric survey to locate potential hazards and existing pipelines, including the two proposed borrow areas with Single-beam bathymetric surveys to locate water bottoms. In addition, Trigon analyzed GIS and aerial imagery to evaluate areas requiring marsh creation or marsh nourishment to provide green stabilization and protection of 3000 feet of shoreline. Approximately 377 acres of marsh creation and 300 acres of marsh nourishment were identified based on USGS land/water analysis of the area. Trigon developed the preliminary, 95% and Final Design Packages for stabilization of shoreline and the installation channel liners. Sustainable environmental design was vital to adjacent State oyster seed beds. Trigon coordinated the Coastal Use Permit waiver and U.S. Army Corps of Engineers (USACE) Nationwide Permit #6 and access permits with ConocoPhillips/Louisiana Land and Exploration Company, and the Rigolets Limited Partnership. Additional stakeholders included The Coastal Protection and Restoration Authority, NOAA, and the Fish and Wildlife Service.</p>	
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p>	
<p>Ongoing</p>	<p>Entire Project:</p> <p>\$2.1M</p>	<p>Work for which Firm was Responsible:</p> <p>\$2.1M</p>

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:	Nature of Firm's Responsibility:	
<p>3. Bayou Long Coastal Restoration Project; Plaquemines Parish, LA</p> <p>Ken Dugas, Chief Engineer Plaquemines Parish Government 504.297.5343</p> 	<p>Under a coastal restoration contract with the Plaquemines Parish Government, Trigon provided planning and preliminary engineering design assistance to Plaquemines Parish for the purpose of supporting the coastal restoration objectives of the State of Louisiana by re-establishing vegetative ridges within the vicinity of the historic Bayou Long ridge located within Bastian Bay adjacent to the Empire Waterway, and re-establishing adjacent marshes in the project area with the intent of using Mississippi River sediment as the source material for construction. General project objectives included: creating and nourishing saline marshes and associated edge habitat for aquatic species; and, establishing Bayou Long vegetative ridges to reduce surge effects, wave setup, and restore forested ridge habitat. Trigon developed all sections of the environmental baseline conditions report that included establishing existing conditions for ecology, hydrology, socioeconomics, infrastructure, climate, and fisheries, oyster, & recreational resources; and, performed in-depth geospatial mapping and analysis of the project area.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016 (Actual)	\$150k	\$66k

PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>4. Stage 1 Environmental Assessment for US 61 at LA 3152/Clearview Parkway; Jefferson Parish, LA</p> <p>Walter Brooks, [fmr] Executive Director New Orleans Regional Planning (504) 673-6592</p> 	<p>This project included the preparation of a Stage 1 Environmental Assessment with Line and Grade Study for one of the busiest roadway intersections in Jefferson Parish. This work was performed as a follow-up to the previously-completed Stage 0 Feasibility Study for the Clearview Parkway Corridor. The Stage 1 assessment was completed in accordance with National Environmental Policy Act (NEPA) guidelines, along with the Federal Highway Administration (FHWA) regulations and guidelines. Typical roadway sections and estimates of required rights-of-way for different alternatives were developed. An analysis of each alternative, including a "no-build" option, was performed to determine the potential impacts on a number of items, including such things as: traffic patterns; permits; land use; community/social issues; economic factors; historic properties; archaeological sites; cultural resources; recreational areas; noise and air quality; wetlands and floodplains; farmland; endangered or threatened species. Potential mitigation measures to reduce or alleviate any negative impacts on the above items were addressed in the assessment. Trigon's primary areas of responsibility included data collection, identifying and mapping existing utilities, utility relocations and cost estimates, public involvement and public hearings support.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013 (Actual)	\$150k	\$28k

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>5. LA 406/Woodland Highway Widening (LA 23 to LA 407)</p> <p>Walter Brooks, [fmr] Executive Director New Orleans Regional Planning (504) 673-6592</p> 	<p>This project included the preparation of a Stage 1 Environmental Assessment with Line and Grade Study for a busy roadway in Plaquemines Parish. This work was performed as a follow-up to the previously-completed Stage 0 Feasibility Study. This project included evaluation of multiple alternatives for widening a busy roadway through Plaquemines and Orleans Parishes (LA 406 between LA 23 and LA 407). The Stage 1 assessment was completed in accordance with National Environmental Policy Act (NEPA) guidelines, along with the Federal Highway Administration (FHWA) regulations and guidelines.</p> <p>Trigon's primary areas of responsibility included data collection, identifying and mapping existing utilities, utility relocations and cost estimates, public involvement and public hearings support.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013 (actual)	\$236k	\$36k

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>6. Replace Belle Chasse Tunnel and Bridge Stage 1 Environmental Assessment; Plaquemines Parish, LA</p> <p>Walter Brooks, [fmr] Executive Director New Orleans Regional Planning (504) 673-6592</p> 	<p>This project included the preparation of a Stage 1 Environmental Assessment (EA) and other related documents for the replacement of the existing Belle Chasse tunnel and bridge with a new four-lane bridge facility. The alternatives include one fixed high-level bridge and two movable bridges, each with a different clearance from the bottom of the bridge to the mean high tide level in the Gulf Intracoastal Waterway (GIWW). In addition, the EA considered the No Build Alternative. The Stage 1 Environmental Assessment was conducted in accordance with National Environmental Policy Act (NEPA) and Federal Highway Administration (FHWA) regulations and guidelines. Trigon's primary responsibilities included environmental site assessment oversight/QA, traffic counts/study, development of typical sections, right-of-way and utilities assessment, and construction maintenance of traffic plans.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 (Actual)	\$972k	\$120k

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>7. Infrastructure Needs Program, Phase II Environmental Assessment; West Bank, Palestine</p> <p>Anan Masri, Office of Water and Infrastructure USAID, West Bank/Gaza Mission amasri@usaid.gov</p>	<p>Trigon served as a subconsultant on the Program Management Team for a large infrastructure program to plan, design and construct projects related primarily to wastewater, water, and roadway infrastructure. Trigon was involved in all phases of the program, including overall program setup and mobilization, ongoing program management, design and construction management. Trigon performed environmental compliance (NEPA) activities, permitting, and NEPA/environmental impact mitigation oversight for 10 wastewater treatment plants and the associated sewage collection systems located throughout the West Bank, coordinating with USAID, the Palestinian ministries, property owners, and local stakeholders.</p> <p>Additionally, a member of Trigon's staff served as the Environmental Project Manager for an environmental compliance program across all phases and levels of program implementation, from feasibility/planning through post-construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 (Actual)	\$75M	\$19.2M

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>8. U.S. Agency for International Development Emergency Response to Industrial Stone-Cutting Activities; Hebron, West Bank, Palestine</p> <p>Anan Masri USAID, West Bank/Gaza Mission amasri@usaid.gov 504.930.7209</p> 	<p>As a major subconsultant under a larger program, Trigon staff led this effort to support the removal of industrial waste produced by stone-cutting factories in the city of Hebron from the municipal wastewater system and prevent the closure of the Hebron industrial zone by the Israeli Civil Administration. This was accomplished by transporting the waste material from the stone factories to an approved municipal dump site set up as part of this project in order to clean up the industrial zone and the open wadi (i.e., drainage channel) of stone-cutting waste to create a cleaner environment for all.</p> <p>This project was approximately 90% Self Performed by Trigon.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 (Actual)	\$850k	\$750k

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>9. Hazard Mitigation Retrofit Power Plant Program – Sewerage & Water Board of New Orleans; New Orleans, LA</p> <p>Sewerage and Water Board of New Orleans Chris Bergeron, PE 504.865.0630</p> 	<p>Trigon was a major subcontractor (approx. 25%) providing engineering, design, inspection, construction management, environmental support and permitting services for this \$200M hazard FEMA-funded mitigation program to retrofit this power plant which supplies critical facilities such as water, wastewater and drainage pump stations and treatment plants via an underground feeder network throughout the city. Work included repairs and upgrades to generators, fuel tanks, boilers, turbines, and electrical instrumentation & controls infrastructure, as well as ancillary facilities at a major water treatment plant complex where the power plant is co-located.</p> <p>Trigon provided environmental (NEPA) services and all permitting in compliance with federal, state and local regulatory requirements as well as the FEMA environmental review process for all of the 11 contract packages.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
2021 (Actual)	Entire Project: \$184M	Work for which Firm was Responsible: \$5.3M

PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>10. Environmental Remediation Investigations/Feasibility Studies, Multiple Sites; US</p> <p>Mark Dickerson US Air National Guard 240-612-8445</p> <p>Douglas Yocum, Env. Flight Chief St. Paul Air Reserve Center 612-713-1955</p>	<p>Prior to joining Trigon's, key members of Trigon's environmental team conducted site inspections, feasibility studies, and remedial investigations at over 100 sites across the US. These investigations routinely required the use of limited data from Preliminary Assessments/Site Inspections and subsequent staff interviews to develop conceptual site models, as well as develop sampling and analysis plan to fully delineate contamination in all site media. Trigon's Environmental Assessment and Remediation Unit Manager, Ken Swain, also managed a variety of multi-disciplinary environmental investigations and remedial actions in accordance with Resource Conservation and Recovery Act (RCRA); Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and State-specific Underground Storage Tank (UST) programs. Examples of these projects include:</p> <ul style="list-style-type: none"> • Sunbelt Region Remedial Investigations/Feasibility Studies projects for the Air National Guard which included 23 sites in Alabama, Mississippi, and Ohio. • Eastern Region Remedial Investigations/Feasibility Studies at 32 Air National Guard sites in OK, NB, GA, FL, and Puerto Rico. • A-E Services, Air Force Reserve Civil Engineer's Environmental & Strategic Planning Program Areas, Minneapolis St. Paul ARS, US Air Force Reserves. 	
Completion Date (Actual or estimated):	Estimated Cost:	
August 2019 March 2020	Entire Project: Air National Guard - \$2.9M St. Paul Air Reserve Center - \$12k	Work for which Firm was Responsible: N/A

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. <i>Trigon has no active or pending litigation at the present time, and our principals and staff have never been involved in litigation regarding our professional services.</i>		
2.		
3.		
4.		

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

Trigon Associates, LLC (Trigon) is pleased to submit this Statement of Qualifications (SOQ) to Jefferson Parish (Parish) in response to your Request for Qualifications to Provide *Miscellaneous Environmental Services, SOQ 22-054 (Resolution No. 140859)*.

Trigon offers Jefferson Parish the full range of services required to successfully execute this project and our staff has an extensive amount of directly applicable experience.

1. BACKGROUND AND EXPERIENCE OF THE FIRM



Trigon is a local woman-owned small business that is a State-certified Disadvantaged Business Enterprise (DBE), which offers engineering, consulting and management services. **Trigon's** principals and staff have over 300 years of combined experience covering **environmental site assessments, feasibility studies, coastal restoration and remediation projects**, as well as a wide variety of public infrastructure work, such as: **wastewater, water, water resources, drainage/storm water,**

transportation systems, buildings and facilities, general civil and structural engineering, and site development. This experience spans the full lifecycle of projects, from planning through design and construction, with significant experience in the management of diverse teams of consultants and contractors to successfully complete projects and programs of all sizes under budget and on time.

Trigon's principals and staff include:

- Engineers of all disciplines registered in Louisiana, Texas, Mississippi, Alabama, Arkansas, California, Florida, New York, Oklahoma, Virginia, and the District of Columbia
- Environmental engineers, environmental remediation specialists, geologists, and chemists
- Certified Project Management Professional and Program Management Professional with the Project Management Institute
- A former Jefferson Parish Sewerage Dept. Capital Improvements Program Manager, Assistant Director and Acting Director
- Former program and project managers, design and construction managers and engineers for multiple capital improvement programs

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

Trigon's staff have been involved in numerous projects that required the knowledge and skills necessary for execution of environmental and engineering projects similar to those undertaken by the Parish, resulting in a strong team that has experience executing work of a very similar nature to what may be required. A few of our key qualifications are as follows:

2. RELATED EXPERIENCE OF TEAM

As shown in the example projects in Section L, as well as the resumes of our proposed project staff in Section K, our team has extensive and directly applicable experience and technical competence to successfully complete any work under this project. Our experience encompasses a wide range of services, including environmental, planning, hydraulic modeling, engineering, design, project and program management, construction management, permitting, controls, grant management, disaster recovery and general administration.

Areas of focus include:

- Environmental (planning, site inspections/assessments, remediation, feasibility/corrective action studies, sampling, analysis, construction monitoring, permitting)
- Wastewater (master planning, CIP development, sewer system evaluation studies, treatment, lift stations, pump stations, collection/transmission systems, condition assessment, trenchless rehabilitation technologies)
- Water (master planning, CIP development, treatment, pump/booster stations, distribution systems, storage tanks/reservoirs, condition assessment)
- Stormwater (permitting, pollution prevention, water quality)
- Drainage (master planning, hydraulic modeling, CIP development, pump stations, collection systems)
- Transportation (streets, streetscapes)
- Disaster Recovery (project worksheet development, version management, appeal preparation and tracking, hazard mitigation planning, general FEMA coordination)



Our team will be led by Kenneth Swain, PG, a Professional Geologist with over 28 years of experience of consulting, planning and field experience with environmental assessments and remediation of over 100 contaminated sites in the U.S. and overseas. He has previously led projects similar to those anticipated by this RFQ for the government agencies, such as the US Department of Defense (DoD), US Department of Energy, and the US Army Corps of Engineers, as well as commercial and municipal clients, which includes a variety of multi-disciplinary environmental investigations and remedial actions in accordance with Resource Conservation and Recovery Act (RCRA); Comprehensive Environmental Response; Compensation and Liability Act (CERCLA); and State-specific Underground Storage Tank (UST) programs. Mr. Swain is currently serving as the Lead Geologist on Trigon's A-E Services for Dioxin Remediation at Bien Hoa Airbase Area in Bien Hoa, Vietnam. His overall project experience ranges from large, multi-disciplinary assessments and remediation projects at military installations and/or in populous areas to small, one-off investigations in remote locations with minimal staff and resources.



Lisa F. Cookmeyer, PE, a licensed Civil and Environmental Engineer with over 38 years of experience, will serve as the Principal-in-Charge. She has provided oversight and management of numerous infrastructure and environmental projects and programs in Jefferson Parish and the surrounding region. Ms. Cookmeyer also has significant experience in regulatory and environmental compliance (including NEPA activities) and permitting, in addition to strategic planning, design and construction of municipal and commercial projects, project and program cost and schedule controls, QA/QC, the development of tools and best management practices for utility operations, land acquisition, international development, disaster recovery, and managing NHPA/Section 106 activities related to historic and cultural resource management.

In addition to Ken and Lisa, **Trigon's team includes engineers and technical specialists, many of whom are considered subject matter experts in their field and have direct experience working in and with Jefferson Parish.** Their experience and qualifications are included in *Section K* of this form.

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

Trigon's team also includes the following subcontractors, with the experience and capacity to provide supplemental environmental, surveying, and laboratory services which may be required.



Applied Intellect (AI) is a premier professional services firm that provides environmental, engineering, program management, and information technology support services. AI has extensive capabilities in delivering solutions for environmental and engineering challenges with a focus on site investigation, site remediation, hazardous waste cleanup, and human health/ecological risk assessment services under CERCLA, RCRA, EPCRA and CWA. AI currently holds contracts similar in scope and management strategy under the DOI for Technical Support Services (140D0419A0019), national IDIQ contracts with the BLM for both CERCLA Environmental Support Services (140L0620A0001), and Hazardous Materials/ Remediation Services (140L0620D0009) and a regional contract for the US Forest Service for CERCLA Support Services. AI is also an SBA Certified 8(a) small business enterprise.



C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) has provided engineering, environmental consulting, and surveying services in south Louisiana for over 70 years, with office locations in New Orleans, Baton Rouge, Lafayette, Lake Charles, Jennings, Mandeville, and Shreveport, Louisiana. Fenstermaker's staff provides a variety of services including engineering design and construction oversight of coastal restoration protection projects, environmental studies and reports, wetland delineations, threatened and endangered species surveys, cultural resources surveys, biological oyster assessments, water resources planning, NEPA services, permitting, civil engineering, and land surveying. Fenstermaker's has successfully performed projects in coastal and rural regions for a multitude of public-sector clients including the Coastal Protection and Restoration Authority (CPRA), Louisiana Department of Natural Resources (LDNR), Louisiana Department of Transportation and Development (LDOTD), Louisiana Department of Environmental Quality (LDEQ), United States Army Corps of Engineers (USACE), Natural Resource Conservation Service (NRCS), U.S. Fish and Wildlife Service (USFWS), and numerous parish governments.



Environmental Consulting & Technology, Inc. (ECT) is a multi-disciplinary environmental and sustainability consulting firm delivering strategy, permitting, design, and management solutions to public and private sector clients. Our expertise includes Transactional Due Diligence, Ecological Services and Restoration, Cultural Resources, Sustainable Planning and Design, Water Resources, Remediation and Redevelopment, Compliance and Sustainability, and Engineering and Project Delivery.



Pace Analytica Services (Pace) is a full-service sampling and analytical testing firm operating since 1978 with a network of over 50 environmental laboratories and over 2800 employees across the United States and Puerto Rico. The key to our success is our commitment to building a strong foundation, and our commitment to quality, consistency and continuous improvement.

Trigon is confident that our staff and teaming partners can meet or exceed the requirements and expectations of the Parish for any contract we are awarded as a result of solicitation. More detailed information on Trigon's staff can be found in Section K of this form. Completed TEC Questionnaires for each of our subcontractors are also included immediately after our questionnaire, which contain additional information on their staff, project experience, and firm qualifications.

Depending on how the Parish prefers to handle any additional or supplemental services that may be required for each assigned project (e.g., drilling or geotechnical work), Trigon would gain approval to utilize a firm(s) acceptable to the Parish for that type of work if the intent is for Trigon to directly contract for those services.

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

In addition to the information referenced above, the following table summarizes the collective experience of our team relative to the requirements and evaluation criteria outlined in the RFQ.

Table 1. Team Qualifications

STAFF/FIRM	TITLE/ROLE	Years of Experience	Env. Site Assessments	Corrective Action Plans	Risk Assessments	Brownfields	Coastal Use Permit Apps	Coastal Restoration Planning	Research of Regulations
Trigon Staff									
Lisa F. Cookmeyer, PE	Principal-in-Charge	39	X	X	X		X	X	X
Greg Kolenovsky, PE, PMP, PgMP	Review & QA/QC	26	X	X			X	X	X
Kenneth Swain, PG	Project Manger	28	X	X	X				X
Danyelle Phillips, GIT	Geologist-in-Training	8	X	X	X				X
Andrew Sayers-Fay, PhD	Lead Environmental Scientist	20	X	X					X
Nam Nguyen	Remediation Specialist	30	X	X	X				X
William Perry	Chemist	28	X						X
Regina Cassanova, PE	Civil Engineer/Coastal Restoration	22	X				X	X	X
Lisbeth Nagrath, PE	Environmental Permitting & Compliance	19	X				X	X	X
Archana Sharma, PE, ENV SP, LEED AP	Environmental Engineering	15					X	X	X
Barry Breaux, PE	Environmental Engineering	7					X	X	X
Angie Albrecht, CFM	Floodplain Management/ Hazard Mitigation	19						X	X
Subcontractors									
Applied Intellect, LLC	Risk Assessments	12	X	X	X				X
Environmental Consulting & Technology, Inc.	Brownfields Investigations	35	X	X	X	X			X
C.H. Fenstermaker, LLC	Coastal Restoration, Surveying	73	X	X	X		X	X	X
Pace Analytical Services	Laboratory Services	45	X	X		X			

3. LOCAL PRESENCE AND KNOWLEDGE

Trigon is based in New Orleans, and our corporate office is located on Poydras Street in the CBD—just a short drive from Jefferson Parish. Any resulting work from this contract that **Trigon** is involved with would be executed from here.

Additionally, all of the managing members of **Trigon** have lived within the New Orleans metropolitan area and have significant prior experience working with the Parish on public works and infrastructure projects. Our principals and staff are very familiar with the local, state and federal standards and guidelines for performing environmental, design and construction in the area, particularly to public infrastructure.



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

Having lived here for many years, **Trigon's** principals and staff are very knowledgeable of the region, local conditions that could impact these projects, and local resources such as specialty contractors.

A sampling of Trigon's previous Jefferson Parish projects, as well as those of our members/staff have been involved with, include:

- Sewerage Capital Improvement Program, Jefferson Parish, LA
- NPDES Storm Water Permitting, Jefferson Parish, LA
- Water Asset Management Plan (Master Plan), Jefferson Parish, LA
- Sewerage System Operation and Maintenance Program, Jefferson Parish, LA
- Land Acquisition, Regulatory Compliance, Permitting, Grant Administration, Jefferson Parish, LA
- Cleary Avenue at Cypress Street, Jefferson Parish, LA
- Drainage and Roadway Improvements on Cleary Avenue at Cypress Street, Jefferson Parish, LA
- Design of Water Plant Safe Houses, Jefferson Parish, LA
- Storm Water Pollution Prevention Plans and Spill Prevention, Control and Countermeasures, Jefferson Parish, LA
- Water Distribution Modeling, Jefferson Parish, LA, and
- Multiple Hazard Mitigation/Disaster Recovery Home Elevation Grant Programs, Jefferson Parish, LA

4. LITIGATION STATEMENT

Trigon has no active or pending litigation at the present time, and our principals and staff have never been involved in litigation regarding our professional services.

5. DBE PARTICIPATION

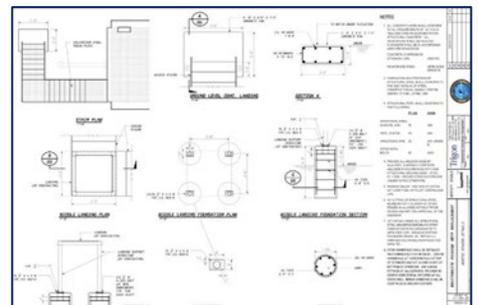


Trigon is certified as a Disadvantaged Business Enterprise (DBE) under the State of Louisiana's Unified Certification Program (UCP).

Additionally, **Trigon** is certified under other state and local DBE programs such as those utilized by both the City and Sewerage and Water Board of New Orleans. As such, any resulting work awarded to **Trigon** would be a 100% DBE contract.

6. PRODUCTION CAPABILITIES

Trigon utilizes the latest industry standard production software packages to efficiently create and coordinate design documents among multiple platforms. This includes such items as Autodesk products (e.g. AutoCAD, AutoCAD Civil 3D), Bentley products (e.g., MicroStation, ProjectWise) and ESRI products (e.g., ArcGIS).



Our staff are skilled in the use of these various packages, which allows us to develop plans and documents that meet the needs and preferences of our clients. This also results in better and more effective collaboration with other companies and team members we work with, including incorporation of survey data directly into our design drawings.

In addition to our CAD, GIS and presentation capabilities, **Trigon** also utilizes the standard Microsoft Office suite of production software for standard word processing, spreadsheets and calculations, database creation and manipulation, and development of slide presentations.

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

7. CAPACITY FOR TIMELY COMPLETION

Trigon has the professional staff, support staff and equipment necessary to successfully complete any projects in a timely manner. Our current workload is under the capacity of our staff, which means we are in a position to accept new work with the ability to mobilize immediately. Besides the team members specifically shown within this SOQ, we have additional staff that can be drawn upon, when necessary, if project needs dictate.



The majority of the work will be performed in **Trigon's** New Orleans office, depending on the exact nature and scope of the work required. Our project manager, staff and principals will meet with Parish staff, as well as make field visits to project sites as required to successfully complete the work. We understand what it takes to successfully execute projects of this sort and are ready and willing to meet with the Parish whenever necessary.



Trigon is fully committed to providing the Parish with professional services in a timely manner that achieve agreed-upon goals and objectives.

8. REFERENCES

One of the best ways to judge our experience, attention to detail, quality of work and customer focus is through the personal testimonials of people that have worked with us before. The project experience included in Section L includes owner contact information that can be utilized as references. Additionally, we encourage contact with the following individuals to find out more about our client service & capabilities:

Name	Position/Title	Organization	Phone
Billy Nungesser	Lt. Governor / [fmr] Plaquemines Parish President	State of Louisiana	225-342-7009
Ken Dugas, PE	Parish Engineer	Plaquemines Parish Government	504-297-5343
Jonah Arceneaux	Project Manager	Plaquemines Parish Government	504-934-6115
Blaine Clancy, PE	City Engineer	City of Slidell	985-646-4270
Mike Noto	Deputy CAO	City of Slidell	985-646-4330
Bob Moeinian, PE	[fmr] Sewer/Water Director	St. Tammany Parish Government	504-812-7748
Robert J. Morgan, Jr.	Area Manager	Inframark	504-392-4177
Ali Mustapha, PE	Administrator	Caddo Levee District	318-221-2654
Barbara Featherston, PE	Director	City of Shreveport, LA, Dept. of Water & Sewerage	318-673-6592
Farid Sadeghian, PE	Supervising Engineer	City of Houston, Wastewater Operations	832-395-4985

9. OUR COMMITMENT

Trigon is fully committed to supporting Jefferson Parish and successfully executing any projects under this solicitation, should we be selected. We are excited about this opportunity and look forward to providing the Parish with exceptional service. Should you require additional information during your review of our SOQ, please do not hesitate to contact us for an immediate response.



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

Signature: Michelle Herbert **Print Name:** Michelle Herbert

Title: Chief Executive Officer **Date:** January 6, 2023



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

Name: Public Address:
Trigon Associates, LLC 1515 Poydras Street, Suite 2200
 New Orleans, Louisiana 70112

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0004041	Active	04/20/2009	09/30/2023	Mr. Gregory Alan Kolenovsky # PE.0030266



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/6/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Lisa Fernandez Cookmeyer
1515 Poydras Street, Suite 2200
New Orleans, Louisiana 70112

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Ms. Lisa Fernandez Cookmeyer License/Certificate Type - Number Expiration Date PE.0023249 09/30/2023 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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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/6/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Gregory Alan Kolenovsky
5906 Chestnut Street
New Orleans, Louisiana 70115

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Mr. Gregory Alan Kolenovsky License/Certificate Type - Number Expiration Date PE.0030266 09/30/2024 Status: Active	
	<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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Licensee Details

Kenneth William Swain

Cardno
Waynesboro, VA

License Status	Active - Individual
License Number	1670
Original Issue Date	12/14/1998
Expiration Date	6/30/2023

[BACK](#)

The North Carolina Board for Licensing of Geologists
3733 Benson Drive, Raleigh, NC 27609
P.O. Box 41225, Raleigh, NC 27629

Telephone: (919) 850-9669

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/6/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Regina Ann Cassanova
1609 Lisbon Street
New Orleans, Louisiana 70122

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Ms. Regina Ann Cassanova License/Certificate Type - Number Expiration Date PE.0035639 09/30/2024 Status: Active	
	<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/6/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Lisbeth Habans Nagrath
4160 17th Street
Boulder, Colorado 80304

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Ms. Lisbeth Habans Nagrath	
License/Certificate Type - Number	Expiration Date
PE.0036792	03/31/2024
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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Texas Board of Professional
Engineers and Land Surveyors

Number: **107725**

Status: **ACTIVE**

Expires: **9/30/2023**

ARCHANA NIKHIL SHARMA

TEXAS LICENSED PROFESSIONAL ENGINEER

A handwritten signature in blue ink, appearing to read 'Archana', written over a horizontal line.

Signature



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/6/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Barry Paul Breaux
337 Hesper Avenue
Metairie, Louisiana 70005

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Barry Paul Breaux	
License/Certificate Type - Number	Expiration Date
PE.0046356	09/30/2024
Status: Active	

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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).

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Applied Intellect, LLC

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Miscellaneous Environmental Services - Resolution No. 140859

B. Firm Name & Address:

Applied Intellect, LLC
2009 Mackenzie Way, Suite 100
Cranberry Township, PA 16066

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:

NA

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.

NA

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

<u>2</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u>4</u> Geologists	<u> </u> Structural Engineers
<u>1</u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>1</u> Civil Engineers	<u> </u> Interior Designers	<u>3</u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u>1</u> Clerical
<u>6</u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u>1</u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>19</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.

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. N/A		
2.		
3.		

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

19 _____

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Susan Griffin, Ph.D. Human Health Risk Assessor
Project Assignment: Human Health Risk Assessment
Name of Firm with which associated: Applied Intellect
Years' experience with this Firm: 5 years
Education: Degree(s)/Year/Specialization: B.S. Genetics University of California, Davis, 1977 with Honors Ph.D., Pharmacology and Toxicology University of California, Davis, 1987
Active registration: Year first registered/discipline: Diplomat American Board of Toxicology, 1991
Other experience and qualifications relevant to the proposed Project: Dr. Griffin is Senior Human Health Risk Assessor, and Diplomate American Board of Toxicology (DABT) with over 30 years conducting and reviewing all levels of human health risk evaluations and assessments. Dr. Griffin worked as a toxicologist for the United States Environmental Protection Agency (USEPA) between 1987 and 2017, including 25 years as Senior Toxicologist for USEPA Region 8 Ecosystems Protection and Remediation Office. During that time, Dr Griffin completed several hundred human health baseline risk assessments for hazardous waste sites listed on the National Priority List (NPL), and endangerment assessments for emergency response actions in Colorado, Utah, North and South Dakota, Montana, and Wyoming. In addition, Dr. Griffin has worked as an expert consultant for the United States Food and Drug Administration (FDA), and toxicology consultant for Health Canada.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Linda Ziccardi, Ecological Risk Assessor
Project Assignment:
Ecological Risk Assessments
Name of Firm with which associated:
Applied Intellect
Years' experience with this Firm:
5 years
Education: Degree(s)/Year/Specialization:
B.S. Natural Resource Management and Applied Ecology Rutgers University, 1984 M.S.-Level Courses in Environmental Science, Aquatic Toxicology, and Natural Resource Management Rutgers University Graduate School 1987-1990
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
Linda Ziccardi is an ecotoxicologist and natural resource manager with over 30 years of experience evaluating environmental impacts from chemical exposure, remedial actions, and development activities. Ms. Ziccardi has expertise conducting ecological risk assessments and natural resource damage assessments (NRDA) in compliance with CERCLA and the Resource Conservation and Recovery Act (RCRA). Ms. Ziccardi has managed projects conducted for the U.S. Environmental Protection Agency, the U.S. Departments of Energy and Defense, and private industry. She served on the Biological Technical Assistance Groups in EPA Regions 2 and 3 and participated in the development of EPA's Framework for Ecological Risk Assessment, the Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs), and the Framework for Metals Risk Assessment.

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:	
Rolling Knolls Landfill/Great Swamp National Wildlife Refuge Chatham, NJ Fish and Wildlife Service Mr. George Molnar, FWS – Contracting Officer Representative george_molnar@fws.gov	AI conducted a RI/FS for the FWS to fill data gaps associated with the Rolling Knolls Landfill Superfund Site that extends onto the Great Swamp National Wildlife Refuge. The project included: data review of previous investigations and RA analyses conducted by PRPs and ecological and human health risk assessment; conduct site characterization of soil, pore water, surface water, sediments; compare results to risk-based screening levels; prepare report including screening-level ecological and human health risk assessment; and conducting an RA analysis to involving removal of Landfill debris and slurry wall.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 31, 2021 (completed)	\$796,505.25	\$796,505.25

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Technical Support Services. Anaconda Copper Mine Site Yerington, NV Bureau of Land Management - Nevada State Office Kurt Miers, BLM – Contracting Officer Representative kmiers@blm.gov	AI provided technical support services for BLM's interest at the Former Anaconda Copper Mine Site and is a party to the remediation and disposition of the Site. AI conducted third party technical review and evaluation of CERCLA documents, including: ESAs, RI reports, baseline human health risk assessments, screening ecological risk assessments, baseline ecological risk assessments, FS reports, and remedial design reports. In addition, AI's subject matter experts supported BLM during annual technical working group meetings, sponsored by the Nevada Department of Environmental Protection (NDEP), and in comment evaluation teleconferences for each document reviewed.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 12, 2021 (completed)	\$583,114.06 (\$190,621.29 for Base Year, \$194,346.52 for Option Year 1 and \$198,146.25 for Option Year 2)	\$583,114.06

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Palmerton Superfund Site Palmerton, Pennsylvania National Park Service Jeffrey Johnson, Onsite Coordinator jeffrey_g_johnson@nps.gov	The Palmerton Zinc Pile Superfund Site includes an estimated 800 acres of NPS-managed lands that were extensively defoliated by the effects of airborne smelting emissions. AI served as lead for the NPS CST team; attended meetings with stakeholders; reviewed project documents (i.e., RI Reports, Feasibility Studies, and Project Planning documents); revise and update NPS documents (i.e., Site Management Plan, and Site Design reports); and oversight on PRP investigation and restoration activities. AI provided subject matter experts, including: biologist, ecological risk assessor, human health risk assessor, geochemist, and environmental scientists.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 30, 2025 (active)	\$233,696.00	\$233,696.00

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Mojave National Preserve (MOJA) Engineering Evaluation Cost Analysis (EE/CA) Mojave National Preserve, California National Park Service Gary Riley gary_riley@nps.gov	AI is conducting four CERCLA EE/CAs at the MOJA at four historic abandoned mines, including: Columbia Mine and Mill; Death Valley Mine; Copper Glint Mill; and Mammoth Mine and Mill. These sites include ISM sampling and of mine waste and tailings; screening and baseline human health and ecological risk assessment; and development of removal alternatives. AI is working with NPS Risk Assessor to ensure risk assessments determine the threat to human health and ecological receptors, and that the RA is compliant with NPS founding regulations (Wilderness Act and Organics Act).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 30, 2024 (active)	\$534,622.00	\$534,622.00

TEC Professional Services Questionnaire

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

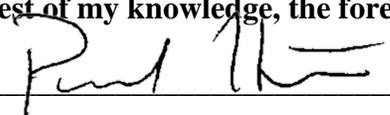
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. NA	NA	NA
2.		
3.		
4.		

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

Applied Intellect supports our customer needs in a full range of environmental and engineering service areas. Using highly experienced professionals, we focus on providing superior quality, custom solutions on-time and within budget. Our scientists, geologists and engineers have extensive experience servicing a variety of Department of Defense and Federal Land Management agencies. We provide comprehensive and fully integrated environmental and engineering services throughout all project phases for our client's unique environmental needs. We identify and investigate environmental challenges without bias, giving clients the information they need to deal with environmental issues. AI is skilled to take on any environmental challenge, large or small, simple or complex. In addition, our innovative IT experts allow us to develop custom data management solutions for our customer's unique environmental needs.

Applied Intellect performs a full range of investigations at active and abandoned mine land sites. This work has involved a wide variety of activities under CERCLA such as conducting preliminary assessments and site inspections; preparing engineering evaluation/cost analysis; assessing human health and ecological risks; engineering reclamation designs; evaluating physical safety hazards; conducting pilot studies; conducting and overseeing removal actions; and performing long-term monitoring.

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

Signature:  Print Name: Paul Hunter

Title: Vice President Date: 12/20/22

C. H. Fenstermaker & Associates, LLC

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No 22-054 Miscellaneous Environmental Services on an as needed basis
Annually for a Two (2) Year Term

B. Firm Name & Address:

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Square
Lafayette, LA 70508



C. H. Fenstermaker & Associates, L.L.C.

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

Raymond Reaux, P.E., Vice President, Engineering
135 Regency Square
Lafayette, LA 70508
(337) 314-0544; raymond@fenstermaker.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.

Stefan Bourgeois, P.E., Manager, Engineer
1100 Poydras Street, Suite 1550
New Orleans, LA 70163
(504) 582-2201; stefan@fenstermaker.com

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

<u>39</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>2</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>24</u> Civil Engineers	<u>0</u> Interior Designers	<u>21</u> Project Managers
<u>8</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>7</u> Clerical
<u>10</u> Ecologists	<u>48</u> Land Surveyor (field crew)	<u>2</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>24</u> Engineer Intern	<u>1</u> Environmental Engineers	<u>13</u> Land Surveyors
<u>13</u> Professional Land Surveyors	<u>4</u> CADD Technicians	<u>53</u> Other Survey Staff
		<u>31</u> Other Staff
		<u>300</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.

1. N/A

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. SEE PRIME		

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

N/A

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:

Stefan Bourgeois, P.E. - Manager, Engineer

Project Assignment:

Professional In Charge of Project

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

13 years

Education: Degree(s)/Year/Specialization:

B.S. / 2009 / Civil Engineering

Active registration: Year first registered/discipline:

2014 / Louisiana PE #0038623

Other experience and qualifications relevant to the proposed Project:



Stefan Bourgeois, P.E. is a Senior Engineer with over 13 years of professional experience in design, planning, municipal code development and review, construction engineering, and project management. He is the Office Manager for Fenstermaker's New Orleans office. In addition to Mr. Bourgeois' experience in municipal engineering and management, he has been the engineer of record for the design of various project types such as hydrologic and hydraulic modeling and analysis, sewer lift station design, wastewater treatment design, and structural design.

City of Carencro Engineer, General Engineering Contract, Carencro, LA: In 2013, Mayor Glenn Brasseaux formally selected and delegated Mr. Bourgeois as the official city engineer of the city. With a population of over 10,000, the City of Carencro was and still is becoming one of the fastest growing communities in the state. During his tenure as city engineer, he was instrumental in working with both the city and parish to update the city's land use and flood plain ordinances to deal with the repetitive flooding history the city had incurred. He collaborated with surrounding regions and Region 6 FEMA staff to establish better policy recommendations for the city's mayor and council for ordinance adoption. He instituted a new development review policy due to the increase flux in both residential and commercial development along the I-49 corridor. This policy focused on the development of a comprehensive checklist for the review process of hydrologic and hydraulic analysis when submitted by various engineers of record representing these new developments. This process helped streamline consistency in analysis approach and held developments to a higher standard that what was accustomed to in the region regarding floodplain management, land use, and development ordinances. Upon completing his term as city engineer, he became the assistant city engineer and continues to provide engineering services for development reviews and floodplain management for the city.

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Stefan Bourgeois, P.E.

FEMA RR045 – Filmore South Group D (FRC), New Orleans, LA: Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street reconstruction in the Filmore South neighborhood. Mr. Bourgeois is the engineer of record and project manager. The provided services include topographic and right-of-way surveys, roadway and drainage design, final design (construction documents), bid & award services, construction administration, construction close out, inspection, reporting, and verification. The design is following FEMA guidelines as well as the guidelines set forth by City of New Orleans Department of Public Works.

FEMA RR021 - Central City Group A, New Orleans, LA: The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway and utility design, and construction administration for full street reconstruction in the Central City neighborhood. Replacement of waterlines were included on several streets and waterline designs were provided by the Sewerage and Water Board. Mr. Bourgeois is leading the project team in the construction administration phase.

North Ground Storage/Pumping Facility, Lafayette Utilities System, Carencro, LA: Mr. Bourgeois provided design support of the preparation of plans and specifications for the construction of a new 750,000-gallon ground storage water tank, including hydraulic design of pumps, valves, and piping as well as a new sodium hypochlorite injection system, site and civil design, fencing and driveway layouts, coordination for electrical controls and any supplemental support services. The project is unique in the sense of implementing a new design system within an existing and operating system. Mr. Bourgeois was the Project Manager on this project and was responsible for all aspects such as design, construction administration, monthly billing and coordination.

West Gloria Switch Water Plant - Ground Storage Tank and Pumping Facility, Lafayette Parish, LA: Mr. Bourgeois provided design support of the preparation of plans and specifications for the construction of a new 750,000-gallon ground storage water tank, including: hydraulic design of pumps, valves, and piping as well as a new sodium hypochlorite injection system, site and civil design, fencing and driveway layouts, coordination for electrical controls, and any supplemental support services. The project was unique in the sense of implementing a new design system within an existing and operating system.

East Pont Des Mouton, Phase I: Water and Sewer Lafayette Parish, LA: Mr. Bourgeois assisted with the design of the improvements to the sanitary sewer collection system (gravity and force main), the design of a new lift station, and improvements to the water distribution system, all construction and contract documents, production of construction plans, and construction administration for this roadway project. This sanitary sewer portion of this project entailed the design and installation of over 8,000 cumulative feet of 8", 15", 18", 21", and 24" gravity sewer lines, 1,500 feet of 10" force main, and a 2 MGD lift station. The project involved the installation of water and sewer mains while maintaining existing water and sewer service as well as continuous traffic on East Pont Des Mouton.

Andre St. Drainage and Utility Improvements, Carencro, LA: Mr. Bourgeois served as the project engineer and directed all efforts related to the project such as design, survey, geotechnical coordination, right-of-way and servitude acquisitions, plans production, and utility coordination. This project consists of improving approximately 1,200 feet of drainage channel by lining it with concrete lining and articulated block mat. One major lift station was upgraded to allow for the channel improvements. The new lift station serves as Carencro's largest lift station, pumping up to 3.2 MGD for present day demand and 9.5 MGD for the 20-year planning period. The project consists of a 16" sewer force main and 21" sewer gravity main.

Lift Station No. 15 Upgrade, French Colony, Carencro, LA: Fenstermaker prepared plans and specifications for the City of Carencro's Lift Station No. 15 Upgrade. The upgrades consisted of replacing the existing suction lift pumps with submersible pumps, relocating the control panel, and adding a SCADA System and valve pit. A breaker panel for emergency power and a by-pass pumping system were also added. Mr. Bourgeois served as Project Manager and Lead Engineer, coordinating with Louisiana Facility Planning & Control (FP&C), coordinated permitting and surveying tasks, and lead construction administration efforts.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Daniel Dehon, M.S., P.E. – Manager, Engineer

Project Assignment:

Coastal Restoration Planning Assistance Lead

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

3 Years

Education: Degree(s)/Year/Specialization:

B.S. / 2008 / Biological Engineering

M.S. / 2010 / Biological Engineering

Active registration: Year first registered/discipline:

2015 / Louisiana PE #0040161

Other experience and qualifications relevant to the proposed Project:

Daniel Dehon, P.E., M.S. is a registered professional engineer with his Masters in Biological and Agricultural Engineering from Louisiana State University. He has over 11 years of experience in coastal design including project management, construction management/oversite, ecosystem restoration, engineered design, technology transfer, R&D, surveying, GIS mapping, wetland delineation, permitting and technical report development. He specializes in marine ecological engineering and aquatic biological solutions for sustainable shoreline protection in the Louisiana Coastal Zone and beyond. His experience also includes disaster recovery, grant development/management, civil site development, and water/sewer treatment, collection, and distribution.

CDBG-DR Rockefeller Refuge Gulf Shoreline Stabilization Project (ME-37), Cameron Parish, LA: The overall project intends for a rock breakwater to be tied into the west bank of Joseph Harbor and constructed westward along the gulf shoreline for nine miles. ME-37 project will extend the CWPPRA ME-18 project by an additional mile. The structure is designed to mirror the ME-18 project and reduce shoreline retreat along this stretch of gulf shoreline, as well as promote shallowing, settling out, and natural vegetative colonization of the overwash material landward of the breakwater. Mr. Dehon served as the Construction Administrator for this project. He worked with Cameron Parish to advertise for construction bids, conduct the pre-bid conference, review construction bids, award the construction contract, conduct the pre-construction meeting, and issue the Notice to Proceed to the construction contractor. Even with restrictions resulting from the COVID 19 pandemic, Mr. Dehon adjusted traditional methodology to keep this project moving to construction as originally scheduled.

Northeast Turtle Bay Marsh Creation and Critical Area Shoreline Protection Project (BA-206), Jefferson Parish, LA: This is a PPL 27 CWPPRA project with NRCS as the sponsor. The proposed project features include multiple marsh creation and nourishment areas, shoreline protection, and channel lining. Fenstermaker has been contracted as a sub to Trigon and has been tasked to perform all design services on this multifaceted project. Mr. Dehon serves as project (continued on next page)

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Daniel Dehon, P.E., M.S.

manager, coordinating with the prime contractor and ensuring all deadlines are met. Mr. Dehon is also heavily involved with the engineering design and alternative analysis, is leading the technical writing, and is managing the internal project team. The 95% design was recently completed, and this project has been selected by CWPPRA for construction funding. The next step will be to develop final plans with post-Ida survey data.

Restore Act Rockefeller Extension (ME-35) Project, Cameron Parish, LA: Mr. Dehon is serving as Fenstermaker's project manager for this project, which will be an extension of the CWPPRA ME-18 project and the CDBG-DR Rockefeller Shoreline Protection (ME-37) Project. Currently, Mr. Dehon is assisting with the coordination between LDWF, Cameron Parish, CPRA, Calcasieu Parish and the U.S. Department of Treasury to assemble all access agreements, intergovernmental agency agreements and RESTORE Act grant requirements to bring together three funding streams to begin this project.

Shoreline Stabilization: Long Beach, Little Florida Beach, Rutherford Beach, Cameron Parish, LA: Engineer-of-Record: The goal of this project is to stabilize three beaches in Cameron to mitigate future damages to existing camps and homes in the area. The shoreline protection structure will be a rock breakwater. Mr. Dehon's role in this project includes engineering design, cost estimating, permitting, bidding phase services, construction management, and grant coordination. Mr. Dehon is the engineer of record on Long Beach and Little Florida portions of the project. The (3) beaches were all bid separately. Construction was completed on the last beach in May of 2021. **Two of the breakwater projects were under construction when Hurricanes Ida and Delta hit Cameron Parish.** Mr. Dehon was able to work with the contractor to complete the projects in the aftermath of these storms. segments have been bid and awarded with construction schedule to start in the summer of 2020 and be completed before the end of the year. As additional funding becomes available, the Parish intends to extend these projects even further.

Lake Boudreaux Living Mitigation Project, Terrebonne Parish, LA: This Louisiana's Strategic Adaptations for Future Environments (LASAFE) project is constructing terraces on 1,235 acres of marshland to the north of Lake Boudreaux that are designed to reduce wave fetch, reestablish over 30 acres of intertidal habitat, and protect residents and businesses from possible storm surge impacts. The terraces are designed to trap suspended sediments generated by wind and wave action. The terrace construction will enhance submerged aquatic vegetation growth and provide resting and nesting habitat for avian life. The construction of this project was interrupted when the project site took a direct hit from Hurricane Ida. Fenstermaker was able to work with the owner, contractor, and land manager to complete this project during duck season. Mr. Dehon is serving as the project engineer and assisting the project manager on this project.

Henderson Lake Dixie Pipeline Spoil Bank Hydrologic Restoration, St. Landy & St. Martin Parishes, LA: This CPRA project will place gaps in the Dixie Pipeline spoil banks. These gaps will allow for the restoration of proper hydrologic flow and improve water quality for the northern portion of the Lake. The resulting flow of fresh, oxygenated water will help to increase fish and crawfish populations along with providing a better habitat for waterfowl, migrating birds, and other native species. Mr. Dehon is serving as the engineer of record on this project.

Mermentau Inundation Relief, Cameron Parish, LA: Parishes located within the Mermentau Basin are continually threatened with flooding during significant rainfall events. The Mermentau Basin Inundation Relief project will link existing drainage laterals along La. Hwy. 82 to convey stormwater north of the highway, widen downstream channels, install new gates at the East End Locks and include other drainage features. The project will divert water into surrounding marshes, improve water quality, sustain fish and wildlife habitat and reduce area flood risk. Mr. Dehon is serving as the project manager and is the design engineer for some of the features included in the design. As project manager, he will be managing three other A/E firms that will be designing individual components of this multifaceted project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Guidry – Manger, Environmental Specialist

Project Assignment:

Environmental Permitting Services Lead

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

24 Years

Education: Degree(s)/Year/Specialization:

B.S. / 1996 / Environmental and Sustainable Resources

Active registration: Year first registered/discipline:

Not applicable

Other experience and qualifications relevant to the proposed Project:



Christopher Guidry's experience consists of environmental compliance and securing federal, state, and local permits. A member of Fenstermaker's Due Diligence Team, his duties include overall project manager and field investigation support for Environmental Due Diligence projects. He also manages Phase I Environmental Site Assessment projects for commercial and private development clients. He has prepared Storm Water Pollution Prevention Plan manuals and conducted inspections for construction activities associated with pipeline projects as required by the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit. Mr. Guidry also has experience in Wetland Delineations, Wetland Characterization,

Wetland Damage Assessment, Wetland Permitting, and Environmental Project Management. He has secured mitigation contracts from approved Wetland Mitigation Banks, which offset wetland impacts because of wetland permits that are issued by the US Army Corps of Engineers and the Department of Natural Resources Coastal Management Division.

Queen Bess Island Restoration (BA-202) Project (Jefferson Parish, LA)

HTRW Report Writer: Mr. Guidry served as a Hazardous Toxic Radioactive Waste (HTRW) report writer for the design effort of this NRDA funded restoration project. Chris was responsible for researching environmental and regulatory data bases for a buffer area around the project site. A desktop report was prepared based on the data base research.

Northeast Turtle Bay Marsh Creation and Critical Area Shoreline Protection Project (BA-206) (Jefferson Parish, LA)

This is a PPL 27 CWPPRA project with NRCS as the sponsor. The proposed project features include multiple marsh creation and nourishment areas, shoreline protection, and channel lining. Fenstermaker has been contracted as a sub to Trigon and has been tasked to perform all design services on this multifaceted project. Mr. Guidry reviewed the Coastal Use Permit documentation submitted to LDNR.

(continued on next page)

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Christopher Guidry

Lake Boudreaux Living Mitigation Project (Terrebonne Parish, LA)

This Louisiana's Strategic Adaptations for Future Environments (LASAFE) project is constructing terraces on 1,235 acres of open water to the north of Lake Boudreaux that are designed to reduce wave fetch, reestablish over 30 acres of intertidal habitat, and protect residents and businesses from possible storm surge impacts. The terraces are designed to trap suspended sediments generated by wind and wave action. The terrace construction will enhance submerged aquatic vegetation growth and provide resting and nesting habitat for avian life. The construction of this project was interrupted when the project site took a direct hit from Hurricane Ida. Fenstermaker was able to work with the owner, contractor, and land manager to complete this project during duck season. Mr. Guidry assisted with site visits and field investigations for this project.

Coach Williams Boulevard Extension (Calcasieu Parish, LA)

Mr. Guidry's responsibilities included overall environmental project management, QA/QC of collected wetland delineation data, report preparation, and permit agent. Permits acquired include securing USACE Jurisdictional Determination and USACE Permits for jurisdictional wetland and water impacts.

Andre St. Drainage and Utility Improvements (Lafayette Parish, LA)

This project consists of improving approximately 1,200 feet of drainage channel with concrete lining and articulated block mat and upgrading a new lift station. The new lift station will serve as Carencro's largest lift station pumping up to 3.2 MGD for present-day demand and 9.5 MGD for the 20-year planning period. Mr. Guidry served as the Environmental Project Manager and lead Permit Agent responsible for submitting USACE Permitting, USACE Wetland Delineation, and Jurisdictional Determination.

Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385): LADOTD Permit No. 153351, 153352, 153353 (Calcasieu Parish, LA)

Environmental Project Manager: Mr. Guidry was the environmental project manager for this proposed road improvement project (Calcasieu Point Development) for W Lincoln RD and LA385 located in the Coastal Zone of Louisiana, south of Lake Charles. Mr. Guidry's responsibilities included overall environmental project management, QA/QC of collected wetland delineation data, report preparation, and permit agent. Permits acquired include securing a US Army Corps of Engineers (USACE) Jurisdictional Determination, USACE Permit, and LDNR Office of Coastal Management (OCM) permit for jurisdictional wetland and water impacts.

Helis Oil & Gas Company, LLC (St. Mary Parish, LA)

Environmental Project Manager: Mr. Guidry was the environmental project manager for this proposed pipeline removal located in the Coastal Zone of Louisiana, St. Mary Parish, Louisiana. Mr. Guidry's responsibilities included overall environmental project management and permit agent. Permits acquired include securing a US Army Corps of Engineers (USACE) Permit and a LDNR Office of Coastal Management (OCM) permit for jurisdictional wetland and water impacts. Other approvals included Letter of No Objections from the Louisiana Department of Wildlife & Fisheries (LDWF), the Coastal Protection and Restoration Authority (CPRA) of Louisiana, St. Mary Levee District, and St. Mary Parish.

Clayton Williams: Barbara Prospect (Plaquemines Parish, LA)

Mr. Guidry was a permit agent involved in acquiring permits from the OCM, USACE, and Plaquemines Parish for an oil & gas well location that required dredging in coastal waters.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Travis Bodin, PLS, PMP, MBA Vice President, Survey
Project Assignment:	Civil Surveying Lead
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	18 Years
Education: Degree(s)/Year/Specialization:	B.S. / 2004 / Industrial Technology MBA / 2021 / Business Administration
Active registration: Year first registered/discipline:	2011 / Louisiana PLS # 0005067 2018 / Project Management Professional PMI PMP No. 2269869
Other experience and qualifications relevant to the proposed Project:	
	<p>Travis Bodin, MBA, PLS, PMP currently serves as Vice President of Survey at Fenstermaker and has over 19 years of surveying, management, and coordination experience. He is currently responsible for directing and overseeing the daily activities within the Fenstermaker Survey Division which consist of both the Houston and Lafayette Offices and over 35 survey crews working across multiple states. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of DTM, infrastructure documentation, GIS integration, process and procedure development. During his tenure at Fenstermaker Mr. Bodin has conducted management duties for both field and office activities on survey and engineering projects.</p> <p>Software & Training: With his wide range of managerial and technical experiences, Mr. Bodin was able to obtain his Project Management Professional (PMP) Certification which is acknowledged by agencies around the world as the leading certification for project managers. Mr. Bodin is experienced in the use of the newest versions of MicroStation, AutoCAD, and Trimble Business Center, Office 365, and Primavera 6.</p> <p>Queen Bess Island Restoration (BA-202) Project, Barataria Bay, Jefferson & Plaquemines Parishes, LA: Fenstermaker performed project management, data collection, and engineering & design activities necessary to complete the permitting process and provide construction plans and specifications. This multi-disciplinary project recreated multiple types of bird habitats on a 37-acre island in lower Barataria Bay using dredged material from the Mississippi River. Fenstermaker provided: project initiation and planning; compilation, review, and analysis of existing data; data collection, including but not limited to topographic, bathymetric, and magnetometer surveys, geotechnical investigations, environmental and cultural resource investigations, numerical/computational modeling, water (continued on next page)</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Travis Bodin, PLS, PMP, MBA

quality analyses, permit development, land rights support, engineering and design, bid document development, bid phase support, and technical assistance. Fenstermaker created a new benchmark for the island, performed all surveys reference from that benchmark, and determined relationship for design using NAVD88 and local tidal datums. Mr. Bodin helped ensure an early and below budget delivery of this important project.

Northeast Turtle Bay (BA-206), Jefferson Parish, La: This ongoing project consists of multiple marsh creation areas and shoreline protection features located in the Northeast Corner of Turtle Bay for the Natural Resource Conservation Service. Mr. Bodin oversaw all aspects of Fenstermaker's survey efforts for this project.

Cameron Parish Shoreline Protection, Cameron Parish, LA: Fenstermaker was contracted by Cameron Parish Police Jury to perform a data gap analysis, site visit, meet with agencies, perform geotechnical borings, geotechnical survey, and design survey in preparation of three (3) shoreline protection projects along Long Beach, Little Florida Beach and Rutherford Beach. Mr. Bodin served as the survey principal for this project.

Lake Boudreaux Living Mitigation, Terrebonne Parish, LA: This Louisiana's Strategic Adaptations for Future Environments (LASAFE) project will fund the construction of terraces on 1,235 acres of marshland to the north of Lake Boudreaux that are designed to reduce wave fetch, reestablish over 30 acres of marsh, and protect residents and businesses from possible storm surge impacts. The terraces will also be designed to trap suspended sediments generated by wind and wave action. The terrace construction will enhance submerged aquatic vegetation growth and provide resting and nesting habitat for avian life. Mr. Bodin served as the survey principal for this project.

Elevation Maintenance for a Subset of the Coastwide Reference Monitoring System (CRMS) and CWPPRA Monitoring Stations, Multiple Coastal Parishes, LA.: Mr. Bodin served as survey principal on this project. Fenstermaker provided survey services in support of the Monitoring Station Elevation Maintenance for a subset of the CRMS and CWPPRA Monitoring Stations. Fenstermaker will survey a total of 28 Monitoring Sites throughout the Louisiana Coastal Zone using GPS/RTK references from CPRA monuments and provide elevations referenced to NAVD88 (2011) using the Geoid12B model.

LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379), Westlake, LA: Mr. Bodin served as the Lead Surveyor in providing topographic, boundary, and route surveying to aid in the coordination with public and state agencies for the construction of a 2.4-mile roadway. Services include mapping for the acquisition of agreements between Sasol and third-party utilities, platting for acquisition and dedication of property needed for various construction activities and state agencies, and Quality Control services of construction activities that were conducted which included monument review and location mapping. Mr. Bodin was responsible for field coordination, data processing, ROW generation, servitude and ROW mapping and topo surveys.

Calcasieu Parish Stormwater Master Plan, Calcasieu Parish, LA: Fenstermaker was contracted to develop a Stormwater Master Plan, covering the Parish's major waterways and drainage basins. The project included data collection, researching prior studies, H&H numerical modeling, an analysis of known flood prone areas and watershed deficiencies, the development and modeling of watershed improvements, and GIS mapping. Mr. Bodin served as the survey manager and managed field crew scheduling, data processing, GIS integration, and survey and mapping within the numerous phases of this project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Murtada Mousa, M.S., P.E. - Engineer I

Project Assignment:

Civil Engineer

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

1.5 Years

Education: Degree(s)/Year/Specialization:

B.S. / 2016 / Civil & Environmental Engineering

M.S. / 2019 / Engineering

Coastal Engineering Graduate Certificate, 2019, University of New Orleans

Pursuing a Doctoral Degree in Science of Civil Engineering at the University of New Orleans

Active registration: Year first registered/discipline:

2022 / Louisiana PE #0047248

Other experience and qualifications relevant to the proposed Project:

Murtada Mousa, P.E., has with over 5 years of professional experience in design, hydrological and hydraulic modeling, project management and construction. Mr. Mousa has been involved in planning and designing various types of projects such as coastal protection design, roadway and drainage design, construction projects, and hydrological and hydraulic modeling and analysis.

NASA Levee Rehabilitation, Michoud, LA: This project consisted of rehabilitating an existing levee system inside the NASA Assembly Facility in Michoud, Louisiana. Mr. Mousa was the project manager on this project. Mr. Mousa reviewed design plans, reviewed design and analysis reports, inspected the site regularly, and processed project documents and payments.

Delta-Wide Crevasses Maintenance Project, Plaquemines Parish, LA: The Delta Wide Crevasses project consists of the construction and maintenance of new, as well as the maintenance of existing crevasses in the Mississippi River Modern Delta, south of Venice, Louisiana. Mr. Mousa helped on drafting the bid plans and calculating item quantities.

Jean Lafitte Floodwall, Jean Lafitte, LA: This project was a 1.4-mile sheet pile-and-concrete cap floodwall in Jean Lafitte, Louisiana. The project was mainly funded by DOTD's Statewide Flood Protection Program and Mr. Mousa was the official DOTD representative that typically reviewed plans, inspected ongoing construction, and procced payment requests.

Lake Borgne Shoreline Protection, St. Bernard, LA: This was a maintenance project of a partly failed floodwall in Lake Borgne, Louisiana. Mr. Mousa assisted in reviewing the geotechnical report and drafting bid plans under the project manager.

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:	
CDBG-DR Rockefeller Refuge Gulf Shoreline Stabilization Cameron Parish, LA Cameron Parish Police Jury Katie Armentor, Parish Administrator (337) 775-5718 karmentor@cameronpj.com	The Cameron Parish Police Jury selected Fenstermaker to expand the Rockefeller shoreline 2 miles westward. Fenstermaker reviewed existing data, models, studies, reports, and construction access and pipeline corridor locations to prepare for the project's design. Fenstermaker coordinated with LDNR to secure a construction permit from the Cameron Parish Coastal Zone Management Office. Fenstermaker's Final Design Report was developed to refine and complete the project's bid package. Fenstermaker provided bid phase services that included bid advertisement, the pre-bid meeting, issuing addenda, reviewing contractor bids, and recommending award. Fenstermaker then oversaw all construction administration tasks to ensure the project's successful completion.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
07/2021 (Actual)	\$12.92M	\$1.77M



PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Shoreline Stabilization: Long Beach, Little Florida Beach, Rutherford Beach Cameron Parish, LA Cameron Parish Police Jury Katie Armentor, Parish Administrator (337) 775-5718 karmentor@cameronpj.com	Fenstermaker provided overall project management, engineering and design, and construction management services. For the design, Fenstermaker obtained and reviewed all relevant existing and available data, models, studies, reports, bathymetric data, geotechnical and geophysical data, and other data pertaining to the design of this project, as well as construction access and pipeline corridor locations. Fenstermaker secured a Coastal Use Permit from LDNR for the construction of the breakwaters, a Joint Permit for Work Within the Louisiana Coastal Zone from USACE and Cameron Parish, and licenses from LDWF for water bottom removal, dredging, and fill material. The design included protection for approximately 5.75 miles of Cameron Parish Shoreline at an approximate total cost of \$12 million. Fenstermaker provided construction management services and inspection services.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
02/2020 (Actual)	\$12M	\$1.2M



TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Northeast Turtle Bay Marsh Creation and Critical Area Shoreline Protection Project (BA-206)</p> <p>Natural Resource Conservation Service (NCRS) Brandon Samson (318) 473-7793 brandon.samson@usda.gov</p>	<p>The project goal is to create approximately 377 acres of new marsh and to nourish approximately 300 acres of nearby marsh using borrow material dredged from Turtle Bay. The marsh creation and nourishment areas will use both semi-contained and fully contained features. In addition to the marsh creation, approximately 2,870 feet of critical shoreline will be protected. Fenstermaker's project tasks include marsh creation design, borrow area analysis, alternatives review, utility coordination, cost estimating, drafting, design report, geotechnical coordination, and 95% plans and specifications. Fenstermaker also provided permit drawings and pertinent information for the client's permit application.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2021 (Actual)	\$900,000	\$900,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Queen Bess Island Restoration Project (BA-022) Jefferson Parish, LA</p> <p>Coastal Protection and Restoration Authority Katie Freer Leonards, PMP, Project Manager (225) 342-4635 Katie.freer@la.gov</p>	<p>Fenstermaker was tasked to perform all survey, geotechnical, engineering, design, construction supervision and inspection services. Fenstermaker also obtained Coastal Use Permits on behalf of CPRA. Fenstermaker developed six configuration alternatives and evaluated eight borrow sources. Fenstermaker developed a geotechnical plan and permit application and performed all survey activities. With a borrow material identified, Fenstermaker developed settlement curves for breakwaters, rock dikes and three individual fill cells. Fenstermaker completed the design under budget and well in advance of the original design schedule. During construction, in addition to Fenstermaker's typical construction supervision and inspection activities, advanced UAV-based techniques were utilized to provide innovative solutions to CPRA.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 (Actual)	\$20M	\$1.2M

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Louisiana Trustee Implementation Group Restoration Plan & Environmental Assessment Lafourche, Orleans, & St. Bernard Parishes, LA Coastal Protection and Restoration Authority</p> <p>Maury Chatellier, Project Manager (225) 342-5944 Maury.chatellier@la.gov</p>	<p>Fenstermaker was tasked with developing the Restoration Plan/Environmental Assessment #8 (RP/EA #8) Wetland, Coastal, and Nearshore Habitats. Fenstermaker was the prime consultant assisting CPRA and the Louisiana Trustee Implementation Group (LA TIG) in preparing this document in accordance with the Oil Pollution Act (OPA) and the National Environmental Policy Act (NEPA). Fenstermaker wrote a detailed OPA and NEPA analyses on six different project-based alternatives as well as a "no action" alternative to create the draft RP/EA.</p>	
		
	Estimated Cost:	
Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:
08/2022 (Actual)	\$151,045	\$151,045

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Flood & Surge Protection Berm Cameron Parish, LA</p> <p>Cameron Parish Police Jury Katie Armentor Parish Administrator (337) 775-2608 karmentor@cameronpj.com</p>	<p>During the floods of 2013 and 2016, runoff water from parishes to the north flowed down the Mermentau River and overtopped the bank of the Gulf Intercoastal Waterway, causing flooding for up to two months. Even during non-flood conditions, water elevations in the marsh tend to stay too high for the marsh vegetation to remain healthy.</p> <p>Fenstermaker was contracted by the Cameron Parish Police Jury to perform a study of the area, that would create a hydrologic model of existing conditions, model one of the significant flood events, consult with landowners, stakeholders, state and federal agencies to develop alternative solutions to alleviate flooding, evaluate the alternative solutions using the hydrologic model, determine the preferred suite of alternatives and develop a conceptual level cost estimate. Knowing that regulatory agencies would consider effects to marsh health when evaluating a permit application, the Fenstermaker team developed alternatives that worked symbiotically with the marsh.</p>	
		
	Estimated Cost:	
Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:
1/2021 (Actual)	\$250,000	\$250,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Boudreaux Living Mitigation Terrebonne Parish, LA</p> <p>Ducks Unlimited William A. Cenac, P.E. (337) 443-4305 wcnac@ducks.org</p>	<p>This Louisiana's Strategic Adaptations for Future Environments (LASAFE) project will fund the construction of terraces on 1,235 acres of marshland to the north of Lake Boudreaux that are designed to reduce wave fetch, reestablish over 30 acres of marsh, and protect residents and businesses from possible storm surge impacts. To accomplish this goal, CPRA contracted Fenstermaker to perform topographic and single-beam bathymetric, and magnetometer surveys within the project areas to determine the existing grades and to locate all existing pipelines and hazards. Fenstermaker also obtained a Coastal Use Permit for this project as well as permits from the LDEQ Water Quality Division. Upon completion of the survey, Fenstermaker is involved in the design, preconstruction, construction, and as-built phases of the project.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$188,890	\$188,890

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, LA</p> <p>Coastal Protection and Restoration Authority Brad Miller, Project Manager (225) 342-4122 Brad.miller@la.gov</p>	<p>The Island Road Marsh Creation and Nourishment Project is a CWWPRA funded project with a goal to create 364 acres of new marsh and nourish 19 acres of saline marsh. Fenstermaker worked with CPRA to complete the data collection portion in phases and to refine the project area to provide the best chance for success in this difficult environment. Fenstermaker performed bathymetric, sub-bottom profiling, magnetometer, side-scan sonar, and cultural resource surveys of the borrow area and all proposed access and dredge pipe corridors. We also obtained necessary geological and geophysical data for suitable dredge and equipment access corridors. Our Survey Team performed high resolution multi-sensor marine hydrographic/geophysical surveys within the proposed borrow area and in the conveyance corridor. Fenstermaker also performed a hydrodynamic study of the borrow area to ensure that the project will not cause adverse effects to the marshes surrounding the borrow area.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
06/2019 (Actual)	\$313,000	\$313,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Jean Lafitte Shoreline Protection Jefferson Parish, LA</p> <p>Louis Berger U.S., Inc. Thomas Cancienne, Project Manager (504) 654-1726 Thomas.cancienne@stantec.com</p>	<p>Fenstermaker performed Topographic, Bathymetric and Magnetometer Surveys along the eastern shoreline of Lake Cataouatche, Bayou Bardeaux, and Lake Salvador in support of Pre-Construction Surveys for Engineering and Design of approximately 11.3 miles Rock Shoreline Breakwaters that will extend shoreline protection beyond the already constructed portions on Lake Salvador to adjacent Bayou Bardeaux and Lake Cataouatche. Prior to commencement of the surveys, the Fenstermaker survey crew performed reconnaissance of existing Secondary Benchmarks within the project area. The survey crew installed two deep-rod benchmarks to be used as reference control for all survey activities. Static GPS will be performed at the newly installed monuments and the GPS data will be post-processed using NGS CORS to determine geodetic positions relative to NAD83 (2011) and NAVD88 (Geoid12B).</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
02/2019 (Actual)	\$103,100	\$103,100

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Elevation Maintenance for a Subset of the Coastwide Reference Monitoring System (CRMS) and CWPPRA Monitoring Stations Multiple Coastal Parishes, Louisiana</p> <p>Coastal Protection and Restoration Authority Leigh Anne Sharp (337) 482-0654 LeighAnne.Sharp@la.gov</p>	<p>The Coastal Protection and Restoration Authority (CPRA) requires surveying services to maintain elevations for a subset of the Coastwide Reference Monitoring System (CRMS) and several CWPPRA monitoring stations. Fenstermaker worked with CPRA to complete the data collection for 71 CRMS locations in the coastal regions. The survey included gathering elevation data on the staff gauges, continuous recorders, RSETs, and marsh elevation respective to stations. The survey was conducted using Real-time Kinematic (RTK) GPS for accurate horizontal and vertical data, with a GPS base set on a benchmark from the 2014 survey and a GPS rover used to collect the data at the stations. The deliverables included methodology reports, horizontal and vertical data for all stations, worksheets showing the difference from the 2014 surveys, and pictures of each site.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
01/2020 (Actual)	\$69,490	\$69,490

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



C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) has provided engineering, environmental consulting, and surveying services in south Louisiana for over 70 years, with office locations in New Orleans, Baton Rouge, Lafayette, Lake Charles, Jennings, Mandeville, and Shreveport, Louisiana.

Fenstermaker's dynamic staff provides a variety of services including engineering design and construction oversight of coastal restoration protection projects, environmental studies and reports, wetland delineations, threatened and endangered species surveys, cultural resources surveys, biological oyster assessments, water resources planning, NEPA services, permitting, civil engineering, and land surveying. Fenstermaker's services have been successfully performed in coastal and rural regions for a multitude of public-sector clients including the Coastal Protection and Restoration Authority (CPRA), Louisiana Department of Natural Resources (LDNR), Louisiana Department of Transportation and Development (LDOTD), Louisiana Department of Environmental Quality (LDEQ), United States Army Corps of Engineers (USACE), Natural Resource Conservation Service (NRCS), U.S. Fish and Wildlife Service (USFWS), and numerous parish governments.



Coastal Restoration Planning Assistance Fenstermaker's coastal team has successfully designed many types of coastal restoration projects, including terraces, flood protection, ridge restoration, marsh creation, hydrologic restoration, shoreline protection and beneficial use of dredged material. In addition to the design services for coastal restoration projects, Fenstermaker has developed design analysis and reports, cost estimates, GIS maps, CAD designs, and specifications. Additional services also include planning, bidding, construction administration, permitting, field investigations, and related supplemental services. The key to designing successful coastal restoration and protection projects is close collaboration the client and the design team to ensure that the delicate relationship between cost, performance, and project life is optimized.



Environmental Permitting Services Fenstermaker's environmental staff and team of highly qualified consultants specialize in assisting clients with meeting federal, state, and local regulatory compliance requirements, having managed permitting through numerous agencies including the USACE, USFWS, U.S. Forest Service, NRCS, LDWF, LDEQ, and State Historic Preservation Offices. Our successful experience also includes (a) pipeline permitting projects crossing flood protection levees, (b) federal, state, and local road rights-of-way, (c) railroad crossings, (d) wetland delineations, (e) threatened and endangered species surveys, and (f) cultural resources surveys. Fenstermaker has also prepared and submitted Restoration Plans / Environmental Assessments for coastal projects.



Civil Surveying Fenstermaker's survey team has over 70 years of experience providing professional surveying and mapping related services in Louisiana. Our firm is staffed by experienced personnel with extensive experience in LIDAR, photogrammetry, subsidence surveys, unmanned aerial vehicles (UAV/Drone), geophysical surveys, property surveys, boundary surveys, ROW/servitude surveys, construction related surveys, and subsurface utility engineering surveys.

1. Professional training and experience in performing small, site-specific environmental projects.



Stefan Bourgeois, P.E., will serve as the **Professional in Charge**. Mr. Bourgeois manages Fenstermaker's New Orleans office and has over 13 years of experience in design, planning, construction engineering, and project management. He earned his bachelor's degree in Civil Engineering from the University of Louisiana at Lafayette in 2009 and has been a licensed professional engineer in the state of Louisiana since 2014.



Daniel Dehon, M.S., P.E., will serve as the **Coastal Restoration Planning Assistance Lead**. Mr. Dehon is a registered professional engineer with his Masters in Biological and Agricultural Engineering from LSU. He has over 11 years of experience in **coastal design** including project management, construction management/oversite, ecosystem restoration, engineered design, technology transfer, R&D, surveying, GIS mapping, wetland delineation, permitting and technical report development. He specializes in marine ecological engineering and aquatic biological solutions for sustainable shoreline protection in the Louisiana Coastal Zone and beyond.



Christopher Guidry will serve as the **Environmental Permitting Services Lead**. Mr. Guidry's experience consists of environmental compliance and securing federal, state, and local permits. A member of Fenstermaker's Due Diligence Team, his duties include overall project management and field investigation support for Environmental Due Diligence projects. Mr. Guidry has extensive experience with the USACE permitting process and has acquired USACE permits for wetland delineations, water impacts, jurisdictional determinations. He has also assisted clients with acquiring **LDNR Coastal Use Permits** for coastal projects such as the Northeast Turtle Bay Marsh Creation project and the Queen Bess Island Restoration Project, both in Jefferson Parish.



Murtada Mousa, P.E., will serve as **Civil Engineer** for this contract. Mr. Mousa has with over 5 years of professional experience in design, hydrological and hydraulic modeling, project management and construction. Mr. Mousa has been involved in planning and designing various types of projects such as **coastal protection design**, roadway and drainage design, construction projects, and hydrological and hydraulic modeling and analysis



Travis Bodin, MBA, PLS, PMP, will serve as the **Civil Surveying Lead**. Mr. Bodin currently serves as Vice President of Survey at Fenstermaker and has over 18 years of surveying, management, and coordination experience. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services. These services include utility relocation coordination; coordinating with parish, state, and federal agencies and sub-consultants; cost estimating, scoping, scheduling, and planning; resource management; and construction management services.

2. Past and current professional accomplishments for which references from clients or former clients and information gathered by inspection of current or recent projects may be considered.



Fenstermaker has experience on a multitude of public contracts at the state, local, and federal levels. In addition to the projects described in section L, our team's Louisiana-based projects include:



- △ 2012/2017 Coastal Master Plans
- △ Oyster Bayou Marsh Creation (CS-59)
- △ Caminada Headland Restoration (BA-45)
- △ Bay Raccourci TE-0156/0166 Biological Oyster Assessment Report
- △ Whiskey Island Barrier Marsh Creation (TE-50)
- △ Henderson Lake (AT-0023)
- △ Barataria Basin Static GPS Network Survey
- △ Cameron Meadows Marsh Creation (CS-66)
- △ Assessments and Permits for Debris Removal - Calcasieu Parish
- △ LADOTD Retainer Contract for Environmental Permitting Services

The best measure of quality of work performed by Fenstermaker is observed in the number of repeat clients over the past seven decades. We encourage Jefferson Parish Government to contact the client references to learn more about our services and capabilities:

Name	Position/Title	Organization	Phone
Katie Freer Leonards	Project Manager	Coastal Protection and Restoration Authority	(225) 342-4635
Scooter Trosclair	Biologist Program Manager	LA Department of Wildlife and Fisheries	(337) 538-2276
Katie Armentor	Parish Administrator	Cameron Parish Police Jury	(337) 775-2608
Brandon Samson	Assistant State Conservation Engineer	Natural Resource Conservation Service	(318) 473-7793
Maury Chatellier	Project Manager	Coastal Protection and Restoration Authority	(225) 342-5944
William A. Cenac, P.E.	Regional Engineer	Ducks Unlimited	(337) 443-4305
Brad Miller	Project Manager	Coastal Protection and Restoration Authority	(225) 342-4122
Thomas Cancienne	Project Manager	Louis Berger U.S., Inc.	(504) 654-1726
Leigh Anne Sharp	Monitoring Manager	Coastal Protection and Restoration Authority	(337) 482-0654

3. Capacity of timely completion of the project, including the size of the firm based on the number of personnel, as related to project requirements and/or scope.



Our New Orleans office, with support from our Baton Rouge and Lafayette offices, is available to complete environmental services identified in this questionnaire. In addition to the team specifically included in this SOQ, Fenstermaker has over 300 qualified and knowledgeable staff to assist as needed with the successful completion of Jefferson Parish’s projects. Fenstermaker understands the importance of timely project completion and cost control on municipal projects. Fenstermaker’s project managers continuously meet to monitor its financial health and to ensure successful project completion within the Parish’s budget. With additional staff located in seven offices throughout Louisiana, the Team is fully capable of performing the requirements for this contract.



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

Signature: Angelle Guilbeau Print Name: Angelle Guilbeau

Title: Director of Risk Management and Compliance Date: January 6, 2023



Jefferson
Parish
State of Louisiana



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/26/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Stefan Bourgeois
1100 Poydras Street, Suite 1550
New Orleans, Louisiana 70163

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Stefan Bourgeois	
License/Certificate Type - Number	Expiration Date
PE.0038623	09/30/2024
Status: Active	

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).

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.

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 LAPELS 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 LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, 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 LAPELS.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/26/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Daniel Douglas Dehon
897 South Eugene Street
Baton Rouge, Louisiana 70806

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Daniel Douglas Dehon	
License/Certificate Type - Number	Expiration Date
PE.0040161	03/31/2024
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/26/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Travis Steven Bodin
603 Green Springs Road
Youngsville, Louisiana 70592

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Travis Steven Bodin		
License/Certificate Type - Number	Expiration Date	
PLS.0005067	03/31/2024	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/28/2022, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Murtada Haqi Mousa
1331 Seminole Avenue
Metairie, Louisiana 70005

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Murtada Haqi Mousa	
License/Certificate Type - Number	Expiration Date
PE.0047248	03/31/2023
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>	

Cut Here

Fold Here

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

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Environmental Consulting & Technology, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 22-054 Miscellaneous Environmental Services for the Jefferson Parish Department of Environmental Affairs, Resolution Number 140859

B. Firm Name & Address:

Environmental Consulting & Technology, Inc.
7027 Southwest 24th Avenue
Gainesville, Florida 32607-3704

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:

Not Applicable

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.

Not Applicable

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

<u>38</u> Administrative	<u>19</u> Environmental Engineer	<u>42</u> Technician/Analyst
<u>6</u> Archeologist	<u>59</u> Environmental Scientist	<u>2</u> Water Resources Eng.
<u>21</u> Biologist	<u>3</u> GIS Specialists	
<u>3</u> Chemical Engineer	<u>11</u> Geologist	
<u>1</u> Chemist	<u>1</u> Hydraulic Engineer	
<u>11</u> Civil Engineer	<u>7</u> Landscape Architect	
<u>1</u> Computer Programmer	<u>2</u> Planner: Urban/Regional	
<u>1</u> Construction Inspector	<u>1</u> Safety/Occupational Health	
<u>4</u> Ecologist		<u>233</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.

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. Not Applicable		
2.		
3.		

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

 3

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:

Jeffrey Peters, PG – Principal Scientist

Project Assignment:

Professional in Charge

Name of Firm with which associated:

Environmental Consulting & Technology, Inc.

Years' experience with this Firm:

11 years

Education: Degree(s)/Year/Specialization:

B.S., Earth Sciences (Geology) – Central Michigan University
MBA, Business – University of Central Florida

Active registration: Year first registered/discipline:

Professional Geologist: Florida, No. 1593/1993; Kentucky, No. 114836/1993; North Carolina, No. 2397/2014; Pennsylvania, No. 355/1994; Tennessee, No. 3197/1993; Louisiana, No. 944/2015

Other experience and qualifications relevant to the proposed Project:

Mr. Peters is a licensed professional geologist in Florida, Kentucky, North Carolina, Pennsylvania, and Tennessee, and a licensed geoscientist in Louisiana. He has more than 31 years' experience as a consultant in the environmental field. Mr. Peters holds a bachelor's degree in earth sciences and a master's degree in business administration. He has managed both technical and administrative staff and has a wide range of experience in personnel management, technical project management, sales and marketing, business development, budget management and research. His experience in business management, risk management/loss prevention, safety, and assessment and remediation benefit his clients when designing a wide range of remedial approaches, including pump and treat systems, air sparge/soil vapor extraction systems, implementation of chemical oxidation techniques, and site closure using different risk management options (RMOs). He has extensive community outreach and engagement experience and has been very successful in bringing groups from diverse backgrounds together for betterment of the community.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Sridhar Vedachalam – Director, Water Equity and Climate Resilience
Project Assignment:
Environmental Justice
Name of Firm with which associated:
Environmental Consulting & Technology, Inc.
Years' experience with this Firm:
1 year
Education: Degree(s)/Year/Specialization:
PhD, Environmental Science, 2011 MS, Environmental Economics, 2010 BE, Mechanical Engineering, 2004
Active registration: Year first registered/discipline:
None
Other experience and qualifications relevant to the proposed Project:
<p>Dr. Vedachalam is a well-known water and climate policy expert and brings over a decade of experience working in academia, nonprofits, and consulting, leading projects on various water policy issues including affordability, aging infrastructure, extreme weather impacts, funding and financing, and non-point source pollution. Dr. Vedachalam has impacted water and climate policy issues at national and regional levels in the U.S. and provided strategic advice to several public and private sector clients, philanthropic organizations, and nonprofits.</p> <p>At ECT, Dr. Vedachalam is currently advising two large regional wastewater utilities on scaling-up their green infrastructure program, while incorporating environmental justice principles. He also helped Tampa Electric Company submit a community benefits plan as part of a federal grant to the Department of Energy. He served on an EPA working group in 2021 and provided recommendations on a forthcoming regulatory rule.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Anne Jamieson – Senior Scientist II
Project Assignment:
Brownfield Grant Funding
Name of Firm with which associated:
Environmental Consulting & Technology, Inc.
Years' experience with this Firm:
7 years
Education: Degree(s)/Year/Specialization:
B.S., Biology – Central Michigan University
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
Ms. Jamieson has more than 20 years' experience specializing in economic development and incentives and has procured millions in grant and loan dollars for communities and millions of dollars for private development teams to offset the costly redevelopment hurdles associated with brownfield and urban development projects. Ms. Jamieson has completed hundreds of brownfield projects over the last two decades. Trained as an environmental consultant, she brings together both the technical aspects of the science with the expertise needed to bring incentives to a 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:	
Re-development Focused Environmental Site Assessment and Remediation, Orange County Risk Management Ms. Tisha Pence – 407-836-9638 tisha.pence@ocfl.net	Environmental Consulting & Technology, Inc. was Orange County's sole professional environmental services provider from 2013-2022. Under these continuing professional services contracts, ECT was tasked with various environmental services, including, but not limited to: Phase I/II Environmental Site Assessments, Storage Tank Compliance, Analysis of Brownfield Cleanup Alternatives, brownfield consulting and evaluation, and brownfield redevelopment analysis and planning.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013-2022	\$4,800,000	\$4,800,000

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Community-Focused (CRA) Brownfield Consulting Services City of Live Oak Contact: Mr. George Curtis E-Mail: gcurtis@cityofliveoak.org Phone: 386-362-2276	EPA selected the City of Live Oak for two USEPA brownfields assessment grants: \$200,000 for hazardous substances and \$200,000 for petroleum. Grant funds were used to develop an inventory of potential brownfield sites, conduct Phase I and Phase II environmental site assessments of selected sites, complete remediation planning, and support community outreach activities. ECT also assisted with redevelopment planning, building property assessments, and demolition plan preparation and costing.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015-2019	\$400,000	\$400,000

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Community-Focused (Parramore) Brownfield Consulting Services Orlando Recreation Center City of Orlando Dan Dashtaki / Mary-Stuart Droege 407-246-2664	ECT completed a Phase I ESA, Phase II ESA, and Analysis of Brownfield Cleanup Alternatives. The project site was comprised of approximately 8.2 acres of City-owned property located in the Parramore Community. The Phase I ESAs identified multiple recognized environmental conditions associated with the project site, including a former Florida Army National Guard Armory, former dry cleaner, and former USDA Bureau of Entomology Research and Testing facilities. ECT and the City of Orlando performed soil source removal activities at five source areas. ECT then performed in situ bioremediation for the dieldrin-impacted groundwater. The injections reduced dieldrin concentrations to groundwater cleanup target levels in 90 percent of the target area.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2016	\$200,000	\$200,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Redevelopment of illicit landfill to automotive dealership Ms. Jessica Garcia Estrada Ocean Automotive Group jgarcia@oceanautomotivegroup.com	ECT was retained to assist in re-developing this former landfill site in an efficient and effective way to meet local regulatory requirements and allow for development of the subject property into an automobile show room. This plan included collection of minimal subsurface data to validate previous data and assumptions and the design of a robust presumptive remedy. ECT installed a vapor intrusion system and continues with annual monitoring required for continued occupancy of the auto dealership.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
On-going	\$200,000	\$200,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Resilient Infrastructure Sustainable Communities</p> <p>Binational Great Lakes Region – Canada and United States</p> <p>Great Lakes Protection Fund 847-425-8150</p>	<p>The project's key goals include helping implement large-scale investments that lead to sustainable stormwater infrastructure and green neighborhoods in Great Lakes communities, thus directly addressing water quality and quantity challenges presented by the changing climate.</p> <p>The Cluster provides a forum for collaboration and innovation on an inter-regional scale and advances the development of new models for project delivery, investment, financing, and asset management. Aside from networking with each other, RISC Cluster members provide oversight of the project team's work, meet quarterly in a virtual setting, and in a post-COVID 19 society, expect to meet annually in-person. Members also leverage their networks for the benefit of the project's goals. Finally, they lead RISC's longer-term viability and an eventual home after this project is complete.</p> <p>Thus far, communities represented in RISC include cities/regions of Minneapolis, Milwaukee, Chicago, South Bend, Grand Rapids, Southfield, Merrillville, Detroit, Pittsburgh, Buffalo, Ann Arbor, and others. RISC is already credited with over \$74 million in green stormwater infrastructure investments across two communities. RISC Project is led by Environmental Consulting & Technology, Inc. (ECT, www.ectinc.com), and ECT's teaming partners include Chicago-based The Delta Institute (www.delta-institute.org), London based CDP or Climate Disclosure Project (www.cdp.net), Chicago-based Center for Neighborhood Technology (www.cnt.org), and Ann Arbor area based American Society of Adaptation Professionals (https://adaptationprofessionals.org/), among others.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	N/A	ECT is currently doing equity analysis of GI investments for two large Great Lakes utilities.

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Metropolitan Water Reclamation District via Resilient Infrastructure Sustainable Communities (RISC) Greater Chicago Region	<p>ECT is leading a team comprised of The Delta Institute and the Center for Neighborhood Technology that is assessing the viability of using a Community-based Public-Private Partnership (CBP3) to scale-up green stormwater infrastructure (GSI) across underserved areas in the Greater Chicago region for the Metropolitan Water Reclamation District (MWRD).</p> <p>MWRD is a prominent national agency that provides wastewater and stormwater services to the City of Chicago and 128 municipalities in Cook County. The District has led a variety of incredible initiatives over the last several decades that have reduced its sewer overflows by 85% in the last 35 years and has ambitious goals for the future that will eliminate overflows through a combination of deep tunnel storage and GSI. To that end, along with other key programs already in process, MWRD is actively exploring a large-scale Community-based P3 that will expand GSI in underserved areas.</p> <p>Working for MWRD in support of the GSI program, ECT's Team has just begun to assess the viability of establishing a CBP3 program that can scale-up GSI in underserved areas, improve MWRD's public engagement across neighboring communities, lead to an improvement in risk sharing with a private partner; delivery and cost surety for GSI installation and maintenance; maximized pricing efficiencies by combining economies of scale and increasing competition in the contractor marketplace; and quality-certified projects by a contracted third-party. Finally, ECT Team will explore providing more attractive alternative financing structures and capital sources for investors looking for greater surety and predictability of their investment.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Est. 2023	N/A	ECT is leading a team that is assessing the viability of using a Community-based Public-Private Partnership (CBP3) to scale-up green stormwater infrastructure (GSI) across underserved areas in the Greater Chicago region

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Brownfield Redevelopment Authority Grand Traverse County, MI Grand Traverse County Brownfield Redevelopment Authority Jean Derenzy 231-922-2050	The Grand Traverse County Brownfield Redevelopment Authority (BRA) was established in 1997 under the Brownfield Redevelopment Financing Act, PA 381 of 1996, as amended. ECT currently manages this economic development program for Grand Traverse County that includes over 25 active brownfield projects along the Boardman Lake, River, and Grand Traverse West Bay waterfronts. This includes management of over \$125 Million in Tax Increment Finance Program projects, EGLE Grants and Loans, EPA Grants and Loans, Local Brownfield Revolving Fund (LBRF) dollars, Brownfield tax credits, and Community Revitalization Program (CRP) grants and loans.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018-Ongoing	\$125,000,000 in grants, tax credits and loans	Project management, brownfield planning, funding assistance.

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
EPA Brownfield Revolving Loan Fund Grand Traverse County Traverse City, MI Jean Derenzy 231-922-2050	Provided management oversight and strategies to utilize various funding sources within the Grandview Parkway development area. Tasks included management of federal grants, project scoping, and community engagement.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	N/A	Project Management, grant funding, community engagement.

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.		No prior or ongoing litigation
2.		
3.		
4.		

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

ECT's Brownfields Interaction Team – In addition to their technical backgrounds, many staff proposed for project are also members of ECT's Brownfields Interaction Team, where their backgrounds in State and local government, real estate, economic development, finance, law, public relations, and marketing are used to help borrowers and lenders work through complicated questions related to acquisition, redevelopment, cleanup, job creation and construction, and to help local units of government reposition, assemble, and market sites for interest by developers and other end users. As a group, this team is experienced at helping public- and private-sector clients take advantage of the incentive-based approach to site development and has helped clients obtain and leverage hundreds of millions of dollars in tax increment financing, tax credits, job bonus refunds, and grant and loan funding.

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

Signature:  Print Name: Jeffrey J. Peters
 Title: Principal Scientist Date: _____

Pace Analytical

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Miscellaneous Environmental Services - Resolution No. 140859

B. Firm Name & Address:

Pace Analytical Services
1000 Riverbend Drive, Suite F
St. Rose, LA 70087

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"/> 1_ 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"/> 8_ 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"/> 9_ TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES XNO

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. Pace does not anticipate subcontracting any work		
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:

Tracy Easley - General Manager

Project Assignment:

Oversees management of operational functions; responsible for the development and implementation of lab, services and field programs, performance and metrics, policies and procedures.

Name of Firm with which associated:

Pace Analytical Services, LLC

Years' experience with this Firm:

19

Education: Degree(s)/Year/Specialization:

Certificate in Laboratory Technology, 1984

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

Pace Lean facilitator
Pace Water Quality Manager

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Cinnamon Mitchell - Client Services Manager
Project Assignment:
Provides leadership and guidance to project management. Meets with other department managers to organize and schedule workloads. Provides technical support to customers. Responsible for overall implementation of customer services and project management activities.
Name of Firm with which associated:
Pace Analytical Services, LLC
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
B.S. Chemistry, University of New Orleans
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
Project Manager - Pace Analytical Services, LLC Laboratory Analyst - Thionville Laboratory

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Karen Brown - Project Manager
Project Assignment:
Responsible for overall implementation of project management details for assigned clients. Prepares reports and technical papers and manages large-scale complex projects. Serves as interface between client and laboratory management to achieve client satisfaction with delivery of analytical results.
Name of Firm with which associated:
Pace Analytical Services, LLC
Years' experience with this Firm:
27
Education: Degree(s)/Year/Specialization:
B.A. Biology, University of Mississippi
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
Client Services Manager - Pace Analytical Services, LLC Division Manager - National Environmental Testing

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:	
Jefferson Parish Department of Environmental Affairs RFP 5000136703 Two year contract for environmental laboratory analytical services 2022 - Present Inga Dupre idupre@jeffparish.net	Provide laboratory analysis to support Jefferson Parish's water quality laboratory and bacteriology laboratory	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Feb 2022 - Feb 2024	\$30,000	Laboratory analysis

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
LADEQ RFP 3000016517 5 year contract for analytical services Sandy Koon sandy.koon@la.gov	Provide laboratory analytical services to support LADEQ's mission for assessment and monitoring of environmental conditions and investigation of sites of known, suspected or potential contamination throughout the state.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2026	\$300k annually	Laboratory analysis

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Valero Refinery-Norco Wastewater, groundwater, waste analysis Prasanna Parasuraman prasanna.parasuraman@valero.com	Provide laboratory analysis related to NPDES permits and waste disposal.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2002 to present	\$200k annually	Laboratory analysis

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
S3 Syncom Space Services Wastewater and waste analysis Paula Perez paula.f.peres@nasa.gov	Provide laboratory analysis associated with NPDES permits and waste analysis	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021 - present	\$50,000	Laboratory analysis

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
National Water Infrastructure, LLC Geismar LA Wastewater Analysis Wendy Cooper wcooper@nwila.com	Provide laboratory analysis associated with NPDES permits.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2005 - present	\$100,000	Laboratory analysis

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

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.

Pace is a full-service sampling and analytical testing firm operating since 1978 with a network of over 50 environmental laboratories and over 2800 employees across the Unites States and Puerto Rico. The key to our success is our commitment to building a strong foundation, an our commitment to quality, consistency and continuous improvement.

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

Signature: Tracy Easley Print Name: Tracy Easley

Title: General Manager Date: 12/21/2022



Trigon

Trigon Associates, LLC
1515 Poydras Street, Suite 2200
New Orleans, Louisiana 70112
504.585.5767

www.trigonassociates.com

In Association with:

Applied Intellect, LLC

Betts Environmental Recovery Inc.

C.H. Fenstermaker & Associates, LLC

**Environmental Consulting &
Technology, Inc.**

Pace Analytical