



Response to Advertisement for Engineering and Related Services

LOUISIANA DEPARTMENT OF TRANSPORTATION

IDIQ Contracts for Environmental Permitting and Biological Services

Contract Nos. 4400027474 and 4400027480 | August 22, 2023

August 22, 2023

Louisiana Department of Transportation and Development
Submitted Electronically: DOTDConsultantAds80@la.gov

RE: IDIQ Contracts for Environmental Permitting and Biological Services Statewide | Contracts Nos. 4400027474 and 4400027480

Dear Selection Committee:

Freese and Nichols, Inc. (FNI) appreciates the continued opportunity to serve the Louisiana Department of Transportation and Development (DOTD) by submitting our proposal for the IDIQ Contracts for Environmental Permitting and Biological Services Statewide. FNI and our team are committed to delivering on this project by meeting DOTD's expectations as we have done for two open contracts that FNI holds with DOTD: the Louisiana Watershed Initiative (LWI) Modeling Contracts LWI/State Projects Program (SPP) Group 2 Contract and the IDIQ Contract for Dam Safety and Public Works Statewide. In addition to these Louisiana DOTD contracts, FNI is providing environmental permitting and biological support services to Texas DOT and Oklahoma DOT. In Texas, for example, FNI is leading the 404 permitting efforts for the largest transportation project in the state in the last 10 years, a high-speed rail line between Houston and Dallas. **Our proposal presents our long service history and a deep understanding of these services, and will demonstrate our commitment to bringing this experience and value to DOTD.**

Proven Environmental and Biological Services — For this contract, we have assembled a team of experts who have worked together on environmental permitting, wetland delineations, and biological assessment projects across the south. As a mid-sized engineering and environmental firm, FNI offers national technical expertise without the high overhead costs and bureaucratic hierarchy of the larger firms. We believe our track record and portfolio of related projects document our qualification. FNI has extensive experience managing and coordinating multiple task orders under IDIQ contracts, and excels in the permitting of very large infrastructure projects. Our recent experience with the DOTD, the Coastal Protection Restoration Authority, Texas General Land Office, and numerous other public agencies **provides proven approaches that keep projects moving in a positive direction.**

Commitment to Client Service — Our team has a comprehensive understanding of the challenges facing the DOTD, based on our extensive history of permitting, planning, design and construction of similar projects. We have a legacy of stewardship of our clients' resources and appreciate the challenges that the state faces with respect to environmental and biological services. We know that the DOTD demands excellence, and our project team includes technical experts to address any project which may arise as part of this IDIQ contract. Our team members recognize that frequent and effective project communication is critical to understand and achieve the project goals. As we are demonstrating on the LWI Region 2 and the State Projects Program (SPP) Group 2 project, the **FNI team will work tirelessly to respond to DOTD's needs.**

Commitment to Quality — Quality is the cornerstone of our commitment to our clients and our approach includes leveraging our in-house technical experts to provide quality deliverables. Having many services in-house allows FNI to offer a comprehensive, seamless approach to any project. FNI was the first engineering firm to receive the Malcolm Baldrige National Quality Award, a prestigious recognition that awards excellence in organizational performance. This means that our staff is equipped with processes and procedures that facilitate **responsive service and quality deliverables**.

Local Resources — Our team is specifically tailored to strike the optimum balance between full coverage of the contract requirements and responsive, local project delivery. Our decision-making structure is highly decentralized, allowing for client-centered and timely resolution of questions and issues. Program Manager Nina Reins has proven her responsiveness and ability to quickly pull in appropriate resources from FNI for environmental and public works projects. Her broad Louisiana-focused expertise will be backed by a deep bench of technical experts and local subs to serve DOTD on the wide range of projects anticipated on this contract. **Our project team has local resources**, operating out of two offices in New Orleans and Lafayette, that can be physically present to meet with DOTD staff on short notice with knowledge of the ecology and permitting workflows.

Thank you again for the opportunity to submit our statement of qualifications. Please feel free to contact us with any comments or questions. We look forward to continuing to provide exceptional customer service to DOTD with this contract.

Sincerely,



Robert Chambers, PG
Principal, Vice President
817-735-7462 | robert.chambers@freese.com



Nina Reins, PhD, PE, PMP
Program Manager
504-209-7578 | nina.reins@freese.com



Commitment to QUALITY

Our commitment to quality and continuous improvement was validated when FNI became the first engineering and architecture firm to receive the **Malcolm Baldrige National Quality Award**. The Baldrige Award is a prestigious national recognition that promotes excellence in organizational performance, recognizes the achievements of U.S. organizations and publicizes successful performance strategies.

The Baldrige experience still drives our commitment to delivering quality service today. In January 2022, FNI became the newest member of the **MAC BALDRIGE SOCIETY**, the Trustees of the Baldrige Foundation's Institute for Performance Excellence.



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FNI Environmental Team volunteering to plant trees in the marsh damaged by Hurricane Ida in Lafitte, Louisiana.

DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

| | | |
|----|---|--|
| 1. | Contract Name as shown in the advertisement | IDIQ Contracts for Environmental Permitting and Biological Services Statewide |
| 2. | Contract Number(s) as shown in the advertisement | 4400027474 and 4400027480 |
| 3. | State Project Number(s), if shown in the advertisement | N/A |
| 4. | Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law) | Freese and Nichols, Inc. |
| 5. | Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law) | EF.0000341 |
| 6. | Prime consultant mailing address | Freese and Nichols, Inc. 314 Jefferson Street Lafayette, Louisiana 70501 |
| 7. | Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria) | Freese and Nichols, Inc. 314 Jefferson Street Lafayette, Louisiana 70501 |
| 8. | Name, title, phone number, and email address of prime consultant's contract point of contact | Nina Reins, PhD, PE, PMP Program Manager 504-209-7578 nina.reins@freese.com |
| 9. | Name, title, phone number, and email address of the official with signing authority for this proposal | Robert Chambers, PG Principal-in-Charge 817-735-7462 robert.chambers@freese.com |

| | | | |
|-----|--|--|-----------------------------------|
| 10. | <p>This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.</p> |  <p>Signature above shall be the same person listed in Section 9:</p> <p>August 22, 2023</p> <p>Date:</p> | |
| 11. | <p>If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.</p> | <p><u>Firm(s):</u> Sustainable Design Solutions, LLC</p> | <p><u>Firm(s)' %:</u> 10%</p> |

12. **Past Performance Evaluation Discipline Table:**

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

| Past Performance Evaluation Discipline(s) | % of Overall Contract | Freese and Nichols, Inc. | Sustainable Design Solutions, LLC | Firm C N/A | Firm D N/A | Firm E N/A | Each Discipline must total to 100% |
|--|-----------------------|--------------------------|-----------------------------------|---------------|---------------|---------------|------------------------------------|
| Environmental | 100% | 90% | 10% | N/A | N/A | N/A | 100% |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant. | | | | | | | |
| Percent of Contract | 100% | 90% | 10% | | | | 100% |

13. **Firm Size:**

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (please specify)" and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

| Firm name | DOTD Job Classification | Number of personnel committed to this contract | Total number of personnel available in this DOTD Job Classification (if needed) |
|---|----------------------------|--|---|
|  | Administrative | 4 | 44 |
| | CADD Technician | 2 | 46 |
| | Engineer | 10 | 45 |
| | Engineer Intern | 3 | 131 |
| | Environmental Manager | 3 | 20 |
| | Environmental Professional | 10 | 44 |
| | Biologist/Wetlands | 10 | 7 |
| | Geologist | 3 | 17 |
| | GIS Analyst | 4 | 23 |
| | Project Office Manager | 1 | 42 |
| | Principal | 1 | 83 |
|  | Supervisor Engineer | 1 | 29 |
| | Engineer | 2 | 4 |
| | Engineer Intern | 1 | 5 |

CAPACITY OF TEAM

Our team is lead by FNI’s Louisiana staff domiciled in New Orleans and Lafayette, along with a complementary Louisiana certified DBE firm, allowing for local offices and staff to support the LADOTD work. As a mid-size, national firm of **1,000+ employees**, and with our selected local, small business teaming partner, FNI has the necessary capacity and depth of staff to deliver task orders and environmental services on-time and with the utmost quality.

14. **Organizational Chart:**

Provide an organizational chart showing ALL relevant prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20. It is acceptable to use an 11x17 format for Section 14.

ORGANIZATIONAL CHART



PRINCIPAL-IN-CHARGE (1)
Robert Chambers, PG

PROGRAM MANAGER (2)
Nina Reins, PhD, PE, PMP

SENIOR ADVISOR / QUALITY MANAGER, ENVIRONMENTAL
Anthony Risko, PE

SENIOR ADVISOR / QUALITY MANAGER, TRANSPORTATION
Kevin St. Jacques, PE, PTOE, PTP, CNU-A, RSP

MANAGEMENT TEAM

Wetlands Delineation
Michael Lane, PWS (3)

Biological Assessments
Whitney Broussard, PhD, GISP (4)

Migratory Bird Surveys
Tam Tran (5)

CADD/Microstation
Kiara Horton (9)

Permitting
Tom Dixon (7)
Richard Aldredge, PWS
Ben Hagood

Oyster Surveys
Aaron Petty (8)
David Buzan

GIS
Blake Simon (9)

Scuba Diver
Aaron Petty (6)

Subconsultant
Sustainable Design Solutions, LLC (Certified LA UCP DBE/SBE)
Kodi Guillory, PE (B) Talene Kaltakjian, PE (A, B, C) Jeremy Labiche, EI (A, B, C)

Legend

- (1) Principal Environmental/ Permitting
- (2) Five years leading Environmental Work
- (3) Wetland Delineator
- (4) Three years performing Biological Assessments
- (5) Three years performing Migratory Bird Surveying
- (6) Certified Scuba Diver
- (7) Two years Permit Expertise
- (8) LDWF Oyster Survey Expertise
- (9) CADD/Microstation and GIS Expertise
- (A) Traffic Control Supervisor
- (B) Traffic Control Technician
- (C) Flagger

BENCH DEPTH OF QUALIFIED TEAM MEMBERS

| Minimum Personnel Requirements (MPRs) | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------------------|--------------------------|-------------------|--|-------------------|------------------------------|----------|-------------|-------------|-----------|-----------------------|------------|--------------|-------------|-------------------|-----------------------|--------------------|
| MPR No. | Robert Chambers, PG | Nina Reins, PhD, PE, PMP | Anthony Risko, PE | Kevin St. Jacques, PE, PTOE, PTP, CNU-A, RSP | Michael Lane, PWS | Whitney Broussard, PhD, GISP | Tam Tran | Aaron Petty | David Buzan | Tom Dixon | Richard Aldredge, PWS | Ben Hagood | Kiara Horton | Blake Simon | Kodi Guillory, PE | Talene Kaltakjian, PE | Jeremy Labiche, EI |
| 1 | ✓ | | | | | | | | | | | | | | | | |
| 2 | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ | |
| 3 | | | | | ✓ | | ✓ | ✓ | | ✓ | | | | | | ✓ | |
| 4 | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | |
| 5 | | | | | | | ✓ | | | ✓ | | | | | | | |
| 6 | | | | | ✓ | | ✓ | ✓ | ✓ | | | | | | | | |
| 7 | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | |
| 8 | | | | | ✓ | ✓ | | ✓ | ✓ | | | | | | ✓ | | |
| 9 | | | | | ✓ | ✓ | | | | | | | ✓ | ✓ | | ✓ | ✓ |
| A | | | | ✓ | | | | | | | | | | | | ✓ | ✓ |
| B | | | | | | | | | | | | | | | ✓ | ✓ | ✓ |
| C | | | | | | | | | | | | | | | | ✓ | ✓ |

LEGEND: ✓ Assigned MPR ✓ Additional MPR Qualified Team Members



15. **Minimum Personnel Requirements:**

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

| MPR No. Do not insert wording from ad | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|--|--|--------------------------|--|------------------|---|
| 1 | Robert Chambers, PG | Freese and Nichols, Inc. | Professional Geoscientist #462 | LA | 01/13/2024 |
| 2 | Nina Reins, PhD, PE, PMP | Freese and Nichols, Inc. | Professional Engineer #PE.0033749 - Environmental | LA | 09/30/2024 |
| 3 | Michael Lane, PWS | Freese and Nichols, Inc. | Professional Wetland Scientist, #3146 | – | 11/07/2024 |
| 4 | Whitney Broussard, PhD, GISP | Freese and Nichols, Inc. | Geographic Information Systems Professional, GISP, #67736 | – | 01/25/2026 |
| 5 | Tam Tran | Freese and Nichols, Inc. | Wetland Delineator Certification | – | N/A* |
| 6 | Aaron Petty | Freese and Nichols, Inc. | Advanced Open Water Diver, #13120C4661 | – | N/A* |
| 7 | Tom Dixon | Freese and Nichols, Inc. | Scientific Research Permit, #SPR-1006-756 | – | 10/20/2024 |
| 8 | Aaron Petty | Freese and Nichols, Inc. | LA DNR Certified Biologist, Oyster Lease Damage Evaluation Board (OLDEB) | LA | N/A* |
| 9 | Kiara Horton | Freese and Nichols, Inc. | Engineer Intern #EI.0034595 - Civil | LA | 03/31/2025 |

*This license does not expire. It is a One-Time Training Accomplishment for Professional Development

16. **Staff Experience:**

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: **Freese and Nichols, Inc.**

| | | | | |
|--|--|--|--|-----------|
| Name | Robert Chambers, PG | | Years of relevant experience with this employer | 29 |
| Title | Environmental Scientist, Principal, Vice President | | Years of relevant experience with other employer(s) | 1 |
| Degree(s) / Years / Specialization | | MS / 1996 / Environmental Science / University of North Texas BA / 1994 / Geography / University of North Texas | | |
| Active registration number / state / expiration date | | #462 / Louisiana / Exp: 01/13/2024 #CAPM01518 / Texas / Exp: Current | | |
| Year registered | 2015 2004 | Discipline | Professional Geoscientist Corrective Action PM (TCEQ) | |
| Contract role(s) / brief description of responsibilities | | Principal-in-Charge (MPR 1. Environmental Analyses and Permitting for Transportation Projects) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 08/22 - Ongoing | Third-Party Environmental Assessment LA23 Development Company LLC Principal-in-Charge FNI is preparing a third-party independent Environmental Assessment for Louisiana’s Gateway Terminal Mainline Rail Extension Project under the directive of the Surface Transportation Board Office of Environmental Analysis. Work will include a 9-mile rail extension within a 100-ft wide ROW and associated siding tracks. | | | |
| 07/15 – 05/21 | Dallas-to-Houston High-Speed Rail Arup Texas Inc. Client Representative, QA/QC FNI teamed with an international rail firm and played a key role in developing the first privately funded high-speed rail project in North America. During the initial design phase, FNI provided services for various aspects of the railway and associated facilities, including USACE 404 and 408 permitting, design-build contract development, analysis of several alternative alignments, stormwater design services, roadway impact analysis and design, utility impact analysis, geotechnical studies, design criteria development and program scheduling. Robert supervised the project delivery team involving complex Section 404 and 408 permitting efforts and support to a third-party Environmental Impact Statement (EIS). Attended coordination meetings with USACE Regulatory Division staff in Fort Worth and Galveston Districts. Performed QA/QC reviews of deliverables. | | | |
| 10/16 – Ongoing | US-81/SH-66 Intersection Modifications Oklahoma Department of Transportation QA/QC FNI is providing design phase services to redesign the intersection of US-81/SH-66 just north of IH-40 in El Reno. Project objective is to increase roadway capacity and improve the operational functionality of the intersection. Design alternatives include additional turn lanes to relieve congestion, a standard four-legged roundabout, a combination roundabout/traffic signal and a dual roundabout to resolve traffic issues. Robert worked closely with FNI environmental scientists to assist with environmental scoping, budget development and quality management of deliverables. | | | |



| | |
|--------------------------------|---|
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 01/20 – Ongoing | Channel Deepening Environmental Impact Statement U.S. Army Corps of Engineers - Galveston District Principal FNI is preparing a third-party Environmental Impact Statement and Section 408 Permissions evaluation under the USACE Galveston District’s direction to conduct dredge and fill activities to deepen a portion of the Corpus Christi Ship Channel to accommodate fully laden Very Large Crude Carriers. The project also includes Ocean Dredged Material Disposal Site fate and dispersion modeling. |
| 10/03 – 02/20 | Bois d’Arc Lake Permitting and Environmental Mitigation North Texas Municipal Water District Task Leader FNI supported federal Section 404 permitting for Bois d’Arc Lake, including an alternatives analysis for Texas’ first reservoir in 30 years. After the permit was granted, FNI supported the NTMWD staff to make data-informed operational decisions related to the operation, including a TCEQ-approved accounting plan and an operation manual, as well as incorporating Bois d’Arc Lake into the District’s overall raw water system model. Robert led the Phase I ESA for reservoir footprint hazardous waste site investigation and remediation project for an illicit tire dump. He also assisted with third-party EIS support. |
| 05/21 – Ongoing | Oyster Biologist Services Coastal Protection and Restoration Authority, LA Principal-in-Charge FNI is conducting Oyster Biologist Services for CPRA under this IDIQ agreement, and has performed three task orders to date. Robert worked with the project manager to develop a project budget that met agency goals. Assisted with planning for a field survey while meeting CPRA schedule needs. |
| 09/02 – 02/04 | Environmental Baseline Survey (EBS) and Environmental Assessment (EA) for Land Interchange Between U.S. Army and U.S. Forest Service Fort Polk, LA Project Manager Provided environmental services related to the proposed transfer of 480 acres of Army–owned land to the U.S. Forest Service in exchange for 480 acres of U.S. Forest Service–owned land embedded within a large military training area. Services included preparation of an EBS to document existing conditions on the subject properties and to identify any potential environmental concerns or liabilities present. As part of the EBS, conducted site inspections of each tract of land, reviewed regulatory and installation records, and researched historical land use. Also led preparation of an EA to evaluate potential environmental and socioeconomic impacts associated with the proposed land exchanged. The EA required approval by both the Army and U.S. Forest Service before the FNSI was issued. |
| 07/14 – Ongoing | Lavaca Bay Environmental Monitoring Formosa Plastics Corporation Principal-in-Charge FNI is providing comprehensive environmental monitoring of Lavaca Bay in the vicinity of the Outfall 001 discharge. The Receiving Water Monitoring Program involves the annual assessment of the health and structure of the biological community, sediment and water quality, and fish and shellfish tissue analysis to assess potential human health risks. Robert supervised the sediment, water, and pore water sampling team. Collected and submitted samples for laboratory analysis for COCs including total and dissolved heavy metals, volatile organic compounds, and numerous other potential organic contaminants. Robert performs quality control reviews on annual monitoring reports submitted to TCEQ. |
| 03/18 – 01/22 | Coastal Texas Protection and Restoration Mega-Feasibility Study Texas General Land Office Senior Advisor The Texas General Land Office (GLO), in partnership with USACE-Galveston District, prepared an Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Mega-Feasibility Study. FNI assisted the GLO and USACE with preliminarily design ecosystem restoration measures, evaluated and documented environmental impacts on combined coastal storm risk management/ecosystem restoration measures alternative project plans, and supported study activities to comply with NEPA, other environmental laws and Civil Works policies. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

| | | | | |
|--|--|---|---|-----------|
| Name | Nina Reins, PhD, PE, PMP | | Years of relevant experience with this employer | 6 |
| Title | Professional Engineer, Associate | | Years of relevant experience with other employer(s) | 16 |
| Degree(s) / Years / Specialization | | PhD / 2018 / Engineering and Applied Science, University of New Orleans MS / 2005 / Civil and Environmental Engineering, Tulane University BS / 2001 / Structural/Civil Engineering, University of Applied Sciences Oldenburg | | |
| Active registration number / state / expiration date | | #PE.0033749 / Louisiana / Exp: 09/30/2024 #1418378 / Project Management Professional / Active | | |
| Year registered | 2008 2011 | Discipline | Environmental Engineer Project Management Professional, Project Management Institute Certification | |
| Contract role(s) / brief description of responsibilities | | Program Manager (MPR 2. Environmental Permits, Wetland Delineation/Findings, Environmental Surveys, and Biological Assessments) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 05/21 – Ongoing | Oyster Biologist Services Coastal Protection and Restoration Authority, LA Project Manager, Client Representative FNI is conducting Oyster Biologist Services for CPRA under this IDIQ agreement, and has performed three task orders (TO) to date. Nina served as the Project Manger on the first TO, including conducting field work, and has assisted with fee development, client coordination and QC of the final report on all task orders. | | | |
| 08/22 – Ongoing | Third-Party Environmental Assessment LA23 Development Company LLC Project Manager FNI is executing this independent EA for the federal Surface Transportation Board Office of Environmental Analysis, which includes evaluating impacts to ecological resources (i.e. wetlands/WOTUS, T&E, etc.), physical resources (cultural resources, air quality, noise, etc.), social and economic resources (environmental justice, recreation, etc.), as well as technical resources, which include cumulative impacts and agency coordination. | | | |
| 02/20 – Ongoing | Bayou Eau Noire Ridge and Marsh Restoration Plaquemines Parish, LA Project Manager, Permitting Lead FNI is performing the Mississippi River borrow area and conveyance design, overall design reviews, as well as agency coordination and permitting. Nina is leading the permitting activities which include the joint permit application process and coordination with the various agencies including, USACE, LA DNR-OCM, NOAA-NMFS, LA SHPO, and LDWF. | | | |
| 09/20 – Ongoing | Dillard Wetland Restoration City of New Orleans, LA Project Manager FNI designed stormwater diversion features, new weirs and water control devices, wetlands and bioswales, a vegetation management and control plan, and boardwalks through the Dillard Wetland site. FNI also performed a comprehensive H&H study, extensive flood modeling simulations within the Dillard Wetlands and adjacent communities, as well as a triple bottom-line cost-benefit analysis. Nina is leading and executing this multifaceted stormwater management project, which includes in-depth community engagement, recreational, art and educational installations, invasive species management and bioretention. | | | |



| | |
|---|--|
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 05/22 – Ongoing | Coastal Support Services Jefferson Parish, LA Project Manager, Permitting Lead, Client Representative FNI has served the Jefferson Department of Ecosystem and Coastal Management with a variety of services, including grant support, planning, design, and permitting. Nina led the Joint Permit Application process for a Terracing Project, which successfully obtained the Conditional Use Permit (CUP) and 404 permit and is slated for construction in 2024. |
| 10/08 - 02/18 <i>*Prior to Joining FNI</i> | Sewer System Evaluation and Rehabilitation Program (SSERP)* Sewerage and Water Board of New Orleans Deputy Program Manager Managed the compliance of a sewer consent decree program, which included subcontracting of work, management of environmental compliance activities, EPA reporting and general coordination with other programs and departments. The scope included modeling, planning, design, construction and final certification. Permits included, but not limited to, LADOTD ROW, Joint Permit Applications (USACE, LA DNR-OCM), Levee Board permits and DEQ Water Quality permits. |
| 04/22 – Ongoing | Black Bay Ridge Coastal Restoration and Marsh Creation AIMS Group, Inc. Permitting Lead FNI is performing the Mississippi River borrow area and conveyance design, overall design reviews, as well as agency coordination and permitting. Nina led the planning activities and is currently leading the permitting activities which include the joint permit application process and associate agency coordination. |
| 01/23 – 03/23 | Bayou Segnette Geotech Analysis U.S. Army Corps of Engineers - Memphis District Project Manager As a subconsultant, FNI provided a geotechnical analysis of soil borings and CPT data at Bayou Segnette State Park, in support of temporary housing planning by FEMA. Nina oversaw all project elements, from the geotechnical permitting, Right-of-Entry coordination, geotechnical analysis and report preparation. |
| 06/12 – 05/14 <i>*Prior to Joining FNI</i> | Rosethorne Wetlands Assimilation Project* Coastal Protection and Restoration Authority, LA Project Manager Nina managed the design and performed the permitting for this CPRA project, which included improvements to the Wastewater Treatment Plant (WWTP) effluent pump station and de-chlorination system, as well as a new force main that discharges treated effluent to the adjacent Cypress Wetlands to nourish the wetland vegetation and promote the revitalization of this area and foster cypress growth. |
| 08/14 – 02/18 <i>*Prior to Joining FNI</i> | TE-118 East Timbalier Restoration Project* Coastal Protection and Restoration Authority, LA Project Manager Nina served as the prime’s project manager on this \$6 million design project, which included the management of multiple subconsultants and stakeholders. She led all aspects of the project, from field investigation, design, and permitting (CUP & Section 404/BOEM Sand Lease), to environmental and cultural compliance (EA/BA/SHPO). The project included regional morphological modelling, alternatives evaluation and included the restoration of approx. 680 acres of beach/dune and marsh habitat and 4.5 miles of beach. |
| 03/18 – 01/22 | Coastal Texas Protection and Restoration Mega-Feasibility Study Texas General Land Office Project Engineer FNI assisted the GLO and USACE with preliminary design of ecosystem restoration measures, evaluated and documented environmental impacts on combined coastal storm risk management/ecosystem restoration measures alternative project plans, and supported study activities to comply with NEPA, other environmental laws and Civil Works policies. Nina assessed the impacts to sediment transport, hydrology and anticipated coastline changes due to the implementation of the Texas coastal study features, which included two alternatives for surge barriers and a selected suite of environmental restoration features. |
| 07/23 – Ongoing | Red River Navigation Feasibility Study Arkansas Department of Agriculture Project Manager FNI is conducting a Southwest Arkansas Navigation Study to determine the feasibility of constructing a 135-mile extension of the Red River Waterway federal shallow-draft navigation channel from its present terminus in Shreveport, Louisiana to Southwest Arkansas. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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|--|---|--|---|-----------|
| Name | Anthony (Tony) Risko, PE | | Years of relevant experience with this employer | 8 |
| Title | Senior Planner, Associate | | Years of relevant experience with other employer(s) | 26 |
| Degree(s) / Years / Specialization | | MEng / 1994 / Ocean Engineering, Texas A&M University BS / 1985 / Civil Engineering, University of Nebraska | | |
| Active registration number / state / expiration date | | PE.0038713 / Louisiana / Exp: 09/30/2024 | | |
| Year registered | 2013 | Discipline | Professional Engineer | |
| Contract role(s) / brief description of responsibilities | | Senior Advisor and Quality Management (Environmental) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 02/20 – 02/21 | Bayou Eau Noire Ridge and Marsh Restoration Plaquemines Parish, LA Senior Advisor FNI is performing the engineering analyses associated with the creation of more than 400 acres of marsh and 26,500 LF of coastal ridge habitat, along with earthen containment dikes, marsh creation fill area design and earth ridge design. Anthony is providing senior technical assistance to the project team. | | | |
| 12/19 – 10/19 | Saint Bernard Parish Barrier Island Feasibility Study AIMS Group, Inc. Assistant Project Manager FNI provided a coastal protection feasibility assessment and associated screening-level modeling for barrier island and/or ridge restoration project plans within Breton Sound in St. Bernard Parish. FNI managed the alternative formulation and modeling efforts for the assessment and provided consultation services on borrow material design considerations and evaluations. Anthony provide senior technical assistance to the project team. | | | |
| 08/18 – 01/19 | Gulf Intracoastal Waterway Dredged Material Placement Assessment Texas Department of Transportation Assistant Project Manager FNI performed an inventory of TxDOT Maritime’s Gulf Intracoastal Waterways Dredged Material Placement Areas (DMPA) and condition assessments of each DMPA to evaluate risk profiles and prioritization of repairs and rehabilitation of DMPAs. Anthony provided subject matter expertise to assess the conditions of over 200 TxDOT-Maritime’s GIWW DMPAs; develop a high-risk profile decision support tool that accounts for each DMPA’s functionality, structural condition, and costs for rehabilitation or improvements; and develop plans to extend the service life of the highest “at-risk” DMPAs. | | | |
| 03/18 – 01/22 | Coastal Texas Protection and Restoration Mega-Feasibility Study Texas General Land Office Project Manager The Texas General Land Office (GLO), in partnership with USACE-Galveston District, prepared an Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Mega-Feasibility Study. FNI assisted the GLO and USACE with preliminarily design ecosystem restoration measures, evaluated and documented environmental impacts on combined coastal storm risk management/ecosystem restoration measures alternative project plans, and supported study activities to comply with NEPA, other environmental laws and Civil Works policies. Anthony assisted in preparing the Integrated Feasibility Report/Environmental Impact Statement, analyzing the alternative project plans, and assessing dredged material management and the beneficial use of dredged material opportunities for the RSM plan component of the study. | | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 06/21 – 03/22 | Carancahua Bay Habitat Preservation Texas General Land Office Senior Advisor FNI surveyed for the presence of oysters and seagrass, analyzed alternatives to protect the shoreline, and evaluated options intended to preserve shorelines and essential habitats. FNI’s work lays the groundwork for future stages of work, including 30% design, development and submittal of the USACE permit application for the construction of the shoreline protection and development of the monitoring and adaptive management plan. Anthony provided senior technical assistances to the project team. |
| 01/20 – Ongoing | Corpus Christi Ship Channel Deepening Environmental Impact Statement Port of Corpus Christi Authority Project Manager FNI is preparing a third-party Environmental Impact Statement and Section 408 Permissions evaluation under the USACE Galveston District’s direction to conduct dredge and fill activities to deepen a portion of the Corpus Christi Ship Channel to accommodate fully laden Very Large Crude Carriers. The project also includes Ocean Dredged Material Disposal Site fate and dispersion modeling. As project manager, Anthony is leading the preparation of a third-party EIS and Section 408 Permissions evaluation. He also technically managed the Ocean Dredged Material Disposal Site (ODMDS) fate and dispersion modeling and prepared the dredged material Sampling and Analysis (SAP). |
| 07/23 – Ongoing | Red River Navigation Feasibility Study Arkansas Department of Agriculture Technical Manager FNI is conducting a Southwest Arkansas Red River Navigation Study to determine the feasibility of constructing a 135-mile extension of the Red River Waterway federal shallow-draft navigation channel from its present terminus in Shreveport, Louisiana to Southwest Arkansas. |
| 08/14 – 01/16 <i>*Prior to Joining FNI</i> | East Timbalier Barrier Island Restoration TE-118 Project* Coastal Protection and Restoration Authority Technical Manager Under a professional engineering services contract with the Louisiana Coastal Protection and Restoration Authority (CPRA), Anthony provided engineering and design support for a project to restore the severely degraded East Timbalier Barrier Island and back-bay marshes system using sediments planned to be dredged from nearshore and offshore sediment sources, and by integrating with the natural physical processes. |
| 09/14 – 11/15 <i>*Prior to Joining FNI</i> | Bayou Long Vegetative Ridge and Marsh Creation Project* Plaquemines Parish Technical Manager Anthony provided planning, engineering and design support to Plaquemines Parish to develop 8-miles of coastal ridges and marshes within Barataria Bay for the purpose of reducing hurricane storm surges and wave action originating from the Gulf of Mexico. The ridges and marshes are key components of Plaquemines Parish’s “Multiple Lines of Defense” approach to provide for hurricane protection. |
| 07/06 – 07/10 <i>*Prior to Joining FNI</i> | Houma Navigation Canal Improvements Feasibility Study* USACE New Orleans District Project Manager Anthony provided study management and plan formulation support to the USACE New Orleans District in the development and preparation of a feasibility study for the Houma Navigation Canal Channel Improvement project. |
| 06/06 – 07/11 <i>*Prior to Joining FNI</i> | NEPA Compliance and Environmental Services* US Army Corps of Engineer, Galveston Project Manager Anthony managed over 65 task orders to support USACE - Galveston in preparing EISs for Federal navigation improvements, flood risk management, and ecosystem restoration projects; and, development of dredged material management plans. For the highly visible Sabine-Neches Waterway Channel Improvement EIS, Anthony’s consulting team received a letter of commendation from the USACE Galveston’s District Commander. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Kevin St. Jacques, PE, PTOE, PTP, CNU-A, RSP | | Years of relevant experience with this employer | 14 |
| Title | Transportation Planning | | Years of relevant experience with other employer(s) | 25 |
| Degree(s) / Years / Specialization | | BS / 1981 / Civil Engineering, Virginia Polytechnic Institute and State University | | |
| Active registration number / state / expiration date | | PE.0043626 / Louisiana / Exp: 09/30/2023 | | |
| Year registered | 2019 1999 2011 2017 2018 (1997 – 2023) | Discipline | Professional Engineer Professional Traffic Operations Engineer, #420 Professional Transportation Planner, #314 Congress for New Urbanism, Accredited (CNU-A) Roadway Safety Professional, #88 #2486 / TxDOT Prequalifications (Active Registration in 16 categories) | |
| Contract role(s) / brief description of responsibilities | | Senior Advisor and Quality Management (Transportation) | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 01/12 – 03/17 | East Rosedale Street Improvements City of Fort Worth, TX Transportation Engineer FNI designed the street improvements for 2 miles of a 4-lane minor arterial thoroughfare extending from IH-35W to Miller Avenue. This \$20 million project included two multilane roundabout intersections and 10 signalized intersections and a multimodal streetscape design that would benefit all users (pedestrians, bus transit riders, bicyclists, motor vehicles) and account for a future planned streetcar. Kevin performed operational analysis of 10 intersections to assess needs for new signals, potential removal of existing signals and needed enhancements. He designed improvements at seven new signals and one new pedestrian hybrid beacon and analyzed operation of conversion of two existing signals to roundabouts. |
| 07/10 – 12/16 | Park Boulevard and US 75 Pedestrian Crossing City of Plano, TX Project Manager FNI provided professional services for design of a 12-foot wide shared use path. Kevin directed survey, geotechnical and drainage and pavement design, structural design for embankment widening and stabilization, landscape design, structural adaptation of the existing bridge to accommodate the 12-foot-wide path and modifications to three traffic signals and intersection ramp configurations. |
| 08/17 – 01/19 | Rutledge Spur Improvements City of Austin, TX Project Manager FNI is providing preliminary engineering services to identify potential mobility and safety improvements for future design and construction along Rutledge Spur. As the Project Manager, Kevin was responsible for planning and executing the project from the notice to proceed to delivery of the final report. Throughout the project, Kevin monitored the progress and budgets of FNI staff and our partner firms and oversaw the preparation of monthly invoicing and reporting. Kevin provided technical leadership and guidance to the design team and ensured the team had resources to achieve the project goals. He attended planning, progress and design meetings with the project team and City. Kevin made sure the City was involved in technical discussion and decisions; managed the geotechnical, survey and environmental subconsultants; oversaw the project QA/QC (QCP) and verified the ITRT was engaged throughout the project. |

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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 09/14 – 09/17 | Dallas-to-Houston High-Speed Rail Arup Texas Inc. Task Leader FNI teamed with an international rail firm and played a key role in developing the first privately funded high-speed rail project in North America. During the initial design phase, FNI provided services for various aspects of the railway and associated facilities, including USACE 404 and 408 permitting, design-build contract development, analysis of several alternative alignments, stormwater design services, roadway impact analysis and design, utility impact analysis, geotechnical studies, design criteria development and program scheduling. Kevin was the Task Leader for Traffic Engineering. |
| 01/14 – 01/18 | Ayers Street Roadway Improvements City of Corpus Christi, TX Transportation Engineer FNI provided design and construction services for the widening of travel lanes and wider sidewalks along 2,276 LF of Ayers Street. The roadway improvements included curb-and-gutter, driveways, stormwater drainage, water and wastewater utilities, traffic signals, pavement marking and signage, traffic control/construction sequencing, and construction of ADA-compliant pedestrian and bicycle paths. |
| 12/16 – Ongoing | East Loop Parker County, TX Traffic Engineer FNI is providing design and construction management and inspection services for the new East Loop from FM 51 to IH 20 in the City of Weatherford. The project includes three channel crossing bridges (single-span, two-span and four-span) with TxDOT prestressed girder superstructures and concrete column bents and abutments. As Traffic Engineer/Signal Designer, Kevin prepared traffic volume projections, prepared signal warrant studies and performed traffic operations analysis for all intersections and designed traffic signals for East Loop at FM 51, FM 730 and US 180. |
| 01/19 – 07/20 | On-Demand Statewide Traffic Engineering Contract Oklahoma Department of Transportation Senior Advisor FNI provided on-demand traffic engineering services encompassing traffic safety audits under one of only two statewide traffic engineering services contracts. Our traffic engineering team developed and integrated multiple recommendations to provide comprehensive solutions for each task order under the contract. Services included traffic operations (analysis and studies), intersection and signal design, speed studies, highway illumination design, signing, striping and traffic control plans and roadside design. |
| 03/21 – Ongoing | US-81/SH-7 Intersection Improvements Oklahoma Department of Transportation Staff Team FNI performed an intersection alternatives evaluation to determine the appropriate intersection configuration to improve safety and operational performance. Services include survey, geotechnical investigations, environmental constraints, intersection and approach lighting, stakeholder coordination and public education. Kevin served as the project professional and directed the technical analysis using the FHWA Intersection Control Evaluation (ICE) guidelines. Kevin guided the preparation of the needs and goals, analysis methodology, data collection plan, performed field reviews with the FNI project manager, collaborated on the development of various intersection configurations and permutations for initial screening. He guided the traffic modeling of the three viable alternatives and guided team development of crash factors to apply to the alternatives. He directed the monetizing of the improved safety and traffic operations performance of each alternative for computing benefits of each to perform a cost benefit analysis as part of the evaluation. |
| 09/21 – Ongoing | Bergstrom Spur Western Segment City of Austin, TX Senior Advisor FNI is providing design services for the western segment of the Bergstrom Spur Urban Trail Rails to Trails Project. The project includes 0.8 mile of split facility urban trail within existing Pacific Union Railroad right-of-way between S. Congress Avenue and Vinson Drive and 0.3 mile of urban side path along the east side of Vinson Drive to Aberdeen Drive. The project includes design of a new Pedestrian Hybrid Beacon at the crossing of S. 1st Street, landscaping for shade and aesthetics, trail lighting, and public art. FNI is also managing geotechnical and surveying services and supporting the City with acquisition of the railroad right-of-way. Kevin prepared a signal warrant study that supported the need for a pedestrian hybrid beacon (PHB) at the crossing, considering forecasts of anticipated trail usage based on similar trails in Austin and the existing traffic volumes on South 1st Street. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Michael Lane, PWS | Years of relevant experience with this employer | 8 |
| Title | Environmental Scientist | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | | MS / 2016 / Environmental Science, University of Houston-Clear Lake BS / 2013 / Wildlife and Fisheries Sciences, Texas A&M University | |
| Active registration number / state / expiration date | | #3146 / PWS / Exp: 1/07/2024 | |
| Year registered | 2019 | Discipline | Professional Wetland Scientist (National License) |
| Contract role(s) / brief description of responsibilities | | Wetland Delineation (MPR 3. Wetland Delineation/Findings) | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 07/15 - 05/21 | Dallas to Houston High-Speed Rail - Environmental Arup Texas Inc. Assistant Project Manager FNI played a key role in the ongoing development of the first privately funded high-speed rail project in North America. During the initial design phase, FNI was involved in various aspects of the project including routing/alignment design, design-build contract development, stormwater design, roadway impact analysis, utility impact analysis, geotechnical studies, and most notably Section 404 permitting and 408 permission with the USACE Fort Worth and Galveston Districts. This included extensive delineation fieldwork, jurisdictional determinations, the development of two Section 404 Individual Permit applications, and oversight over a third-party mitigation provider. Michael served as the assistant project manager for environmental efforts, leading a significant amount of the field delineation efforts as well as the jurisdictional determinations and USACE field verification visits. Michael also helped package the 404 permit applications and respond to comments received from public notices, which included careful review and consistency checks against those comments received on the FRA’s EIS. The project was put on hold during COVID-19, but Arup recently announced a potential partnership with Amtrak to continue forward. |
| 10/19 – Ongoing | Bailey Road Widening Design Services City of Pearland, TX Environmental Lead FNI is providing design services for widening the existing Bailey Road from two to four lanes from Veterans Drive to SH 35. The project includes a bridge over BNSF railroad tracks. The project includes a mixed-use, non-vehicular pathway, conduit installation for future illumination, landscaping and irrigation, and Section 404 permitting. As Environmental Lead, Michael conducted a WOTUS delineation and federally listed species habitat assessment for the project area. Impacts to a channelized stream were initially anticipated to trigger a USACE NWP 14 PCN or Individual Permit, however, after archival research of documents indicated that the jurisdictional channel was possibly rerouted through a previous roadway project an alternative path forward was sought. Michael and his team were able to coordinate with USACE to confirm no jurisdiction and ultimately, no permit required for the project. In accordance with the Antiquities Code of Texas, Michael also coordinated with the Texas Historical Commission with respect to cultural resources. |

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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 06/21 – 05/23 | Kilgore Parkway Chambers County, TX Environmental Scientist FNI prepared plans, specifications and estimates (PS&E) for the widening of Kilgore Parkway east of SH 146 to SH 99 from two lanes to four lanes and extension of two concrete paved lanes from SH 99 to FM 3180. FNI’s environmental team evaluated permits the client had on file for previously completed portions of the project, realizing the existing NWP 14 was set to expire prior to completion of the remainder of the roadway. Michael coordinated with the USACE and ultimately determined a resolution based on the impacts associated with the roadway itself were already completed and mitigated for. As such, a NWP 58 without PCN was applicable to the not previously authorized stormwater trunk line and the project schedule was maintained for the remaining segment of Kilgore Parkway. FNI also provided traffic control and stormwater pollution prevention services. |
| 09/16 – Ongoing | 30-inch Causeway Water Line City of Galveston, TX Environmental Lead FNI is designing a new 30-inch diameter, 8,000 LF waterline to expand service to Galveston Island from existing water supply infrastructure on the mainland. The water line is proposed to cross Galveston Bay and the Gulf Intracoastal Waterway (GIWW) via suspension from the Interstate Highway 45 (IH-45). Beyond design work, FNI is providing environmental permitting services for the project. Michael initially led delineation efforts for the project where the water line is proposed to cross tidal wetlands as it transitions from the causeway suspension to underground placement at Galveston Island and his team also delineated oyster reefs in the surrounding area as an important resource. Agency coordination has involved several parties including consultation with the U.S. Coast Guard to determine that no Bridge Permit is required, as well as coordination with the USACE and Texas Parks and Wildlife Department (TPWD) with respect to Section 10/404 Permitting and NWP Regional Conditions pertaining to oyster reefs. Ultimately, Michael negotiated a path forward through the submittal of a PCN under NWP 58. |
| 08/14 – 12/19 | McHard Road Extension City of Pearland, TX Environmental Scientist FNI provided an alternative alignment, roadway planimetric layout, environmental assessment, traffic study, H&H study and PER for the 3.45-mile roadway extension. The project included a 4-lane divided concrete roadway with curb-and-gutter storm sewer system, three detention ponds, five signals, 10-foot shared pathway, intersection improvements, cross-drainage structures, pavement markings and signage, landscape/irrigation, environmental studies and permitting, utilities coordination, ROW acquisition and public involvement. The project also received TxDOT funding for the design and construction phases. Mike assisted with efforts to secure USACE authorization, including wetland delineations and wetland functional assessments for mitigation planning. He also assisted with developing the TxDOT EA. |
| 05/20 – 11/20 | Lakeside RV Bulkhead USACE Permitting Trinity River Authority Assistant Project Manager TRA contracted FNI to assist with permitting a bulkhead along Lake Livingston associated with shoreline stability and a future recreational development. FNI met with the USACE project manager after TRA’s initial permit application yielded pushback for a full Individual Permit, and ultimately demonstrated that the Letter of Permission was a more appropriate permit for the project. Michael led this effort as well as fieldwork and the development of the permit application, which included a 404(b)1 alternatives analysis resulting in TRA’s preferred design as the least environmentally damaging practicable alternative. |
| 04/18 – 12/20 | Mykawa Road Drainage Improvements Brazoria Drainage District No. 4 Environmental Scientist FNI provided design services and prepared construction documents for the Mykawa Drainage Improvements Project. The scope of work included enclosing the existing open ditch along Mykawa Road from Cherry Street to Orange Street (approximately 2,000 LF) as well as the design of multiple detention basins. FNI’s environmental team supported the project by completing due diligence that included a Phase I ESA, wetland delineation, and cultural resources coordination. Michael led the wetland delineation effort and made permitting recommendations that resulted in no required USACE coordination. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Whitney Broussard, PhD, GISP | | Years of relevant experience with this employer | 1 |
| Title | Environmental Scientist | | Years of relevant experience with other employer(s) | 21 |
| Degree(s) / Years / Specialization | | PhD / 2008 / Oceanography and Coastal Sciences, Louisiana State University MGIS / 2017 / Geographic Information Systems, Pennsylvania State University BS / 2003 / Renewable Resources, University of Louisiana at Lafayette BA / 2000 / Environmental Studies, Naropa University | | |
| Active registration number / state / expiration date | | #67736 / National / Exp: 01/25/2026 | | |
| Year registered | 2015 | Discipline | Geographic Information Systems Professional | |
| Contract role(s) / brief description of responsibilities | | Biological Assessments (MPR 4. Preparation of Biological Assessments) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 08/22 – Ongoing | Third-Party Environmental Assessment LA23 Development Company LLC Environmental Scientist FNI is preparing a third-party independent Environmental Assessment for Louisiana’s Gateway Terminal Mainline Rail Extension Project along the Lower Mississippi River under the directive of the Surface Transportation Board Office of Environmental Analysis. Whitney is supporting the development of the EA, specifically sections pertaining to ecological resources, cultural resources and GIS support. | | | |
| 8/18 – 05/21 <i>*Prior to Joining FNI</i> | Land Loss, Habitat Change and Beach Vegetation Survey for the LOOP Environmental Monitoring Project* LA DOTD Sr. Scientist Whitney collaborated with Environmental Science Services, Inc. to perform a helicopter survey to estimate cover values by species and map habitat change along the Louisiana Offshore Oil Pipeline corridor, approximately 37 miles long from the Caminada Headlands inland. He used these verification sites to develop and validate a supervised pixel-based classification of aerial imagery and produce a habitat map of the project corridor. He also conducted a beach vegetation survey to identify individual species and estimate cover values by species. | | | |
| 02/19 – 08/19 <i>*Prior to Joining FNI</i> | Water Bottom Assessment of Calcasieu Lake Public Oyster Seed Grounds* U.S. Army Corps of Engineers - New Orleans District Project Manager, Sr. Scientist Whitney was the project manager and technical lead of a team of biologists and hydrographers to collect water level data, bathymetry, oyster presence/absence over two large water bottom project sites (approximately 3,891 acres). Whitney developed multiple data layers that georeferenced collected information over the project sites while coordinating the logistically complex poling and diving missions. The georeferenced data included water depth, bottom rugosity and bottom hardness data. This information was combined with oyster harvest results, historical maps, side scan sonar data and polling data. Derivatives of these data products were used to obtain regulatory approval from Louisiana Wildlife and Fisheries to allow construction of a CDF rip-rap rock shoreline stabilization and future beneficial use dredge material route across Calcasieu Lake. | | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 06/23 – Ongoing | Acoustic Telemetry Array Installation and Maintenance Naval Weapons Station Yorktown and Cheatham Annex Mendez Group, Inc. Project Manager, Technical Lead FNI is providing environmental services to NAVFAC MIDLANT to install acoustic telemetry receivers on the piers at Naval Weapons Station Yorktown and Cheatham Annex. The goal is to understand the frequency and use of the nearshore environment by threatened and endangered species. This information will give the Navy a better understanding of the utilization of the waters surrounding the installations by species and for use in NEPA determinations, essential fish habitat consultations, and endangered species consultations. Whitney is the project manager and technical lead charged with field logistics, data collection, data analysis and report writing. |
| 06/18 – 10/22 <i>*Prior to Joining FNI</i> | Hydroacoustic Monitoring and Acoustic Telemetry Array Installation and Maintenance Portsmouth Naval Shipyard, Norfolk Naval Shipyard* NAVFAC Mid-Atlantic Project Manager, Sr. Scientist Whitney served as the project manager and technical lead of a multidisciplinary team to implement a multifaceted monitoring program to support NEPA compliance documentation at Portsmouth Naval Shipyard in Kittery, Maine and Norfolk Naval Shipyard in Portsmouth, Virginia. Specifically, the team conducted hydroacoustic monitoring to establish background noise levels and sound source verification of various pile driving activities at both installations. The team also established acoustic telemetry arrays at both installations with the objective of monitoring the movement and determining the habitat extent of Atlantic Sturgeon, an endangered species. The documents generated were used in NEPA determinations and in consultation with NOAA Fisheries for both endangered species consultation and Marine Mammal Protection Act determinations and permits. |
| 10/22 – 05/23 | St. James Soil Survey U.S. Army Corps of Engineers - New Orleans District Project Manager, Sr. Scientist Whitney led a multidisciplinary team who performed a topographic survey, a soils assessment and a groundwater assessment. The purpose was to determine if an 800-acre site in St. James Parish, Louisiana, would be compatible for transitioning from farmland to a bottomland hardwood forest. The mitigation credits earned would offset the civil works projects underway by the District. Whitney’s team served as the primary consultant throughout the site assessment and design phases of the project. |
| 03/20 – 08/20 <i>*Prior to Joining FNI</i> | Soils Survey and Seasonal High Water Table Analysis for Cote Blanche BLH-Wet/Swamp Mitigation Bank* U.S. Army Corps of Engineers - New Orleans District Project Manager, Sr. Scientist Whitney led a multidisciplinary team who performed a topographic survey, a soils assessment and a groundwater assessment. The purpose was to determine if a 400-acre site in St. Mary Parish, Louisiana, would be compatible for transitioning from farmland to a bottomland hardwood forest. The mitigation credits earned would offset the civil works projects underway by the District. Whitney’s team served as the primary consultant throughout the site assessment and design phases of the project. |
| 10/22 – 07/23 | Chitimacha Master Plan - Phase Three Michael Stout Planning Services (MSPS) Project Manager FNI joined MSPS to support the USACE New Orleans District with a Planning Assistance to States task order. FNI supported the development of a water management master plan for the Chitimacha Tribe. The objective of the project was to create a master plan to address water and wastewater management and future development water use needs on the reservation. Whitney served as the project manager and provided support to Tribal stakeholders through engagement and coordination. |
| 05/23 – 08/23 | Penny Plantation Topographic Mapping U.S. Army Corps of Engineers - New Orleans District Project Manager Whitney and his team collected GPS coordinates and developed topographic maps to satisfy a cultural resources assessment for the U.S. Army Corps of Engineers at an archaeological site called Penny Planation near Zachary, LA. Captured features included the locations of all buildings, roads, ditches, fencelines, large oak trees, and similar natural and manmade features; the locations of shovel tests, test units, and trenches; and, architectural elements associated with the plantation that were exposed by the excavations. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Tam Tran | | Years of relevant experience with this employer | 7 |
| Title | Environmental Scientist | | Years of relevant experience with other employer(s) | 4 |
| Degree(s) / Years / Specialization | | BS / 2010 / Ecology, Evolution & Behavior, University of Texas at Austin | | |
| Active registration number / state / expiration date | | Wetlands Delineator Certification / Active #27903 TxDOT Prequalifications | | |
| Year registered | 2017 2018 | Discipline | Wetlands Delineator Certification, Wetland Training Institute TxDOT: 2.3.1 Wetland Delineation; 2.3.2 Conditional/Functional Assessment; 2.4.1 Nationwide Permit; 2.5.1 Geological Assessment for Edwards Aquifer Recharge Zone | |
| Contract role(s) / brief description of responsibilities | | Migratory Bird Surveys (MPR 5. Perform Migratory Bird Surveying) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 07/15 – 05/21 | Dallas to Houston High-Speed Rail - Environmental Arup Texas Inc. Environmental Scientist FNI has played a key role in developing the first privately funded high-speed rail project in North America. During the initial design phase, FNI was involved with various aspects of the railway and associated facilities, as well as 404 and 408 permitting, design-build contract development, alignment design, stormwater design, roadway impact analysis and design, utility impact analysis, geotechnical studies, design criteria development and program scheduling. Tam performed wetland delineation, jurisdictional determination and threatened/endangered species surveys. Tam also reviewed jurisdictional determination on ArcMap. | | | |
| 1/20 – Ongoing | Carancahua Bay Bird Island Feasibility Study and Design Texas Audubon Society Assistant Project Manager FNI helped Audubon Texas evaluate the feasibility of constructing a rookery island for colonial water birds in Matagorda Bay near the mouth of Carancahua Bay. This project takes advantage of previous work in the area and may provide multiple ecological benefits and additional nesting habitat for colonial water birds. Tam assisted with the permit application and coordination with the USACE during design. FNI produced 100% engineering design drawings and estimated construction costs for the 2.7-acre armored island. | | | |
| 08/18 – 03/20 | Bahia Grande Rookery Island and Wetland Restoration Preliminary Design U.S. Fish and Wildlife Service Environmental Scientist FNI provided feasibility assessments and preliminary design for the protection of the Rookery Islands in the Bahia Grande System. Services included hydrographic and biological sampling, erosion protection design, preliminary cost estimates, environmental permitting and preliminary engineering. Tam assisted with the permitting application to construct offshore breakwater structures to protect Rookery Islands from erosion. He provided seagrass mapping, shoreline mapping and water quality measurements to support the project. | | | |
| 04/18 – 07/18 | Cedar Breaks Park Bird Surveys City of Lago Vista, Texas Assistant Project Manager As part of the overall planning and design of a proposed park, Cedar Breaks Park, the City of Lago Vista was required to perform presence/absence surveys for the federally listed golden-cheeked warbler and a habitat assessment for the federally listed black-capped vireo. Warblers were previously documented on site several years ago. Tam performed the presence/absence surveys to obtain Texas Parks and Wildlife Department grant funding and comply with the Endangered Species Act. Results of the surveys assisted in project avoidance and minimization of impacts to birds and wildlife and influenced park designs. The final report was submitted to USFWS for Section 10A permit compliance. | | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 05/17 – 12/18 | Matagorda Bay Rookery Islands Analysis Texas Audubon Society Environmental Scientist FNI facilitated a technical advisory committee that was created, identified potential locations for new islands to be created, and created 30% of the designs for those new islands. FNI also reviewed the nesting biology of the Audubon’s priority species of waterbirds. Tam provided coordination with the Texas Audubon Society. He conducted research and assisted with identification of factors associated with successful colonial waterbird nesting islands and selection of potential sites for future nesting islands in Espiritu Santo, Matagorda and East Matagorda bays for Audubon Texas. Priority birds included American oystercatcher, Black skimmer, Least tern, Forster’s tern, Tricolored heron, Reddish egret, Snowy egret, Roseate spoonbill, Black-crowned night heron, and Neotropic cormorant. |
| 07/21 – 08/21 | Schicke Point Breakwater Extension Matagorda Bay Foundation Environmental Scientist FNI helped Matagorda Bay Foundation design, permit and oversee construction of a 0.6-mile extension of the Schicke Point breakwater. The breakwater was based on FNI’s design to protect and restore a marsh and oyster complex along Matagorda Bay’s north shore using grants from the U.S. Fish and Wildlife and the Matagorda Bay Mitigation Trust. |
| 03/18 – 01/22 | Coastal Texas Protection and Restoration Mega-Feasibility Study Texas General Land Office Environmental Scientist The Texas General Land Office (GLO), in partnership with USACE-Galveston District, prepared an Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Mega-Feasibility Study. FNI assisted the GLO and USACE with preliminary design ecosystem restoration measures, evaluated and documented environmental impacts on combined coastal storm risk management/ecosystem restoration measures alternative project plans, and supported study activities to comply with NEPA, other environmental laws and Civil Works policies. Tam researched and developed several sections for the Coastal Storm Risk Management Environmental Impact Statement. He prepared a Biological Assessment of the Gulf Coast of Texas in addition to authoring baseline environment sections on wetlands, threatened and endangered species, hydrology, air quality, soils (prime farmlands), wildlife resources and protected lands for this EIS. Tam addressed 23 federally listed threatened or endangered species with potential to occur within the proposed alternatives project areas such as including the endangered <i>Prairie dawn-flower</i> , <i>Interior least tern</i> , <i>Northern aplomado falcon</i> , <i>Whooping crane</i> , <i>Kemp’s Ridley sea turtle</i> and <i>Hawksbill sea turtle</i> . Federally listed threatened species include West Indian manatee, piping plover, red knot, green sea turtle and loggerhead sea turtle |
| 05/19 – Ongoing | Bois d’Arc Lake Environmental Mitigation Monitoring and Reporting North Texas Municipal Water District Environmental Scientist Beginning in 2019 and spanning the next 20 years, FNI is assisting NTMWD with monitoring and reporting on the 17,000-acre mitigation site. FNI’s scope of work includes providing quality control reviews of the mitigation full-service provider’s (FSPs) monitoring reports and completing other permitting requirements beyond the FSPs scope. Monitoring sites include the Riverby Ranch, Bois d’Arc Creek and Honey Grove Creek downstream of the Bois d’Arc dam, the Upper Bois d’Arc Creek Mitigation site, the Grassland Mitigation Tract, and on-site littoral zone stream and wetland mitigation areas. |
| 05/22 – 08/22 | Miller Creek Mussel Survey Texas Department of Transportation Assistant Project Manager As a subconsultant, FNI is performing a freshwater mussel survey for a TxDOT bridge improvement project on US 281 over Miller Creek in Blanco County which includes acquiring the TPWD permit, performing the survey and writing a technical report. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Aaron Petty | | Years of relevant experience with this employer | 8 |  |
| Title | Environmental Scientist | | Years of relevant experience with other employer(s) | 4 | |
| Degree(s) / Years / Specialization | | Master of Environmental Studies / 2011 / College of Charleston BS / 2007 / Biology, Texas Tech University | | | |
| Active registration number / state / expiration date | | #13120C4661 / Advanced Open Water Diver / Active SPR-1006-756 / Scientific Research Permit / Active Wetlands Delineator Certification / Active #33910 / TxDOT Prequalifications | | | |
| Year registered | 2013 2012 2013 2022 | Discipline | Advanced Open Water Diver, Professional Association of Diving Instructors (PADI) LA DNR Certified Biologist - Oyster Lease Damage Evaluation Board (OLDEB) Scientific Research Permit Wetlands Delineator Certification, Wetland Training Institute TxDOT: 2.6.5 Protected Species Evaluations | | |
| Contract role(s) / brief description of responsibilities | | Oyster Surveys; Certified Scuba Diver (MPR 6. Certified Scuba Diver to Perform Underwater Biological Surveys; MPR 8. Perform Oyster Surveys and analysis in accordance with Louisiana Department of Wildlife and Fisheries requirements.) | | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | | |
| 05/21 – Ongoing | Oyster Biologist Services Coastal Protection and Restoration Authority, LA Project Manager FNI is providing a variety of biological science and related services throughout the coastal parishes of Louisiana on an as-needed basis under an IDIQ agreement. Task orders include conducting biological surveys of public and private oyster grounds potentially affected by coastal protection and conservation or restoration projects. FNI has completed three Task Orders to date as follows: | | | | |
| 04/20 – 05/20 | Task Order 1: (BS-0038) Breton Landbridge Marsh Creation Biological Assessment Survey, Breton Sound, LA Coastal Protection and Restoration Authority, LA Project Manager FNI conducted a comprehensive Biological Assessment Survey for oysters within 1,500 feet of the footprint of the BS-0038 Breton Landbridge Marsh Creation Project, a coastal protection, conservation or restoration project in Plaquemines Parish. The Breton Marsh Creation is approximately 12,000 acres in the Breton Marsh east of Delacroix Island comprising wetland habitat and restored marsh. Oyster lease investigations found no live or recently dead oysters within the survey area, however the study resulted in a detailed substrate and bathymetry map of the affected area. | | | | |
| 05/21 – 06/21 | Task Order 2: (TE-0134) West Fourchon Marsh Creation and Nourishment Biological Assessment Survey, Port Fourchon, LA Coastal Protection and Restoration Authority, LA Project Manager FNI conducted a comprehensive Biological Assessment Survey for oysters within 1,500 feet of the footprint of the TE-0134 West Fourchon Marsh Creation and Nourishment Project, a coastal protection, conservation or restoration project in Lafourche Parish. The West Fourchon Marsh Creation and Nourishment Project includes three marsh creation areas totaling approximately 614 acres and situated immediately west of Port Fourchon and Bayou Lafourche, south of Devil’s Bay, and east of East Timbalier Island. | | | | |

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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 05/22 – 08/22 | Task Order 3: No Name Bayou Marsh Creation Biological Assessment Survey, Cameron, LA Coastal Protection and Restoration Authority, LA Project Manager The No Name Bayou Marsh Creation project aims to create and/or nourish approximately 539 acres of saline marsh (478 acres created and 61 acres nourished) south of Calcasieu Lake. To achieve this, approximately 2.12 million cubic yards of sediment will be placed into the shallow water marsh creation area to an elevation of +1.5 ft NAVD 88 after being hydraulically pumped from a borrow area in Calcasieu Lake located northeast of the marsh creation area in public oyster seed grounds. FNI performed a bottom type assessment for the proposed impacts from the dredge borrow area and pipeline route. The study area was buffered 1,500 feet around the borrow area and pipeline corridor. |
| 07/15 – 05/21 | Dallas to Houston High-Speed Rail - Environmental Arup Texas Inc. Environmental Scientist FNI has played a key role in developing the first privately funded high-speed rail project in North America. During the initial design phase, FNI was involved with various aspects of the railway and associated facilities, as well as 404 and 408 permitting, design-build contract development, alignment design, stormwater design, roadway impact analysis and design, utility impact analysis, geotechnical studies, design criteria development and program scheduling. Aaron assisted Texas Central Rail environmental compliance with planning this large transportation project. He assisted with the preparation of the USACE Section 404 CWA IP application, mitigation planning, wildlife crossing design, and technical review of the Biological Assessment and EIS that was being produced by a third-party consultant. Aaron has spent more than 1,100 hours conducting jurisdictional determinations and wetland delineations for properties located along the 236-mile-long high speed rail project. He performed surveys in accordance with data collection procedures required by USACE-Fort Worth and Galveston Districts. |
| 03/22 – Ongoing | Cedar Creek Wetlands Levee Evaluation and Environmental Services Tarrant Regional Water District Staff Team As a subconsultant, FNI is providing the design and environmental permitting of the Cedar Creek Constructed Wetland System, which will treat approximately 170,000 acre-feet of water diverted from the Trinity River. FNI is also performing hydrologic modeling and will lead the field investigation and prepare reports for the survey of protected aquatic species as part of environmental permitting requirements. |
| 09/14 – 12/16 | Southwest Fleet 316(b) Compliance American Electric Power Texas North Company Biologist FNI is providing Clean Water Act Section 316(b) permitting services for 12 American Electric Power (AEP) electricity generation facilities located in Texas, Oklahoma, Arkansas and Louisiana. Aaron participated in CWA 316(b) studies associated with multiple AEP operated power plant lakes. His responsibilities included entrainment sampling and analysis at Lieberman, Knox Lee and Pirkey power stations. Aaron also provided T&E species reviews for Oklahoma power stations. |
| 09/16 – 10/18 | 30-inch Causeway Bridge Water Line City of Galveston, TX Environmental Scientist FNI provided design phase services for a new 30-inch diameter, 8,000 LF water line to be hung below the eastern pedestrian shoulder on the Galveston Causeway Bridge. The pipeline included a marine coating system, expansion joints for thermal expansion, pipe hangers, pressure reducing station and connections into the City’s existing system. Aaron led field effort to perform oyster survey within project ROW, and he produced detailed report to satisfy USACE requirements. |
| 03/16 – 08/17 | Highlands Environmental Consulting Services San Jacinto River Authority Environmental Scientist FNI conducted pedestrian surveys of SJRA’s Highlands Division property to investigate proposed borrow and disposal areas. FNI identified and delineated potential Waters of the U.S. and made recommendations to minimize impacts. Aaron led field efforts to map SJRA property for wetlands. The information was needed to help make future development decisions. The final deliverable was a map of the property showing different types of wetland features. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Tom Dixon | | Years of relevant experience with this employer | 9 |  |
| Title | Environmental Scientist, Associate | | Years of relevant experience with other employer(s) | 11 | |
| Degree(s) / Years / Specialization | | | MS / 2004 / Wildlife Ecology, Texas A&M University BS / 2001 / Wildlife Ecology, Texas A&M University | | |
| Active registration number / state / expiration date | | | TE44547B-0 / National / Exp: 10/31/2025 SPR-1006-756 / Texas / Exp: 10/20/2024 #21928 / TxDOT Prequalifications | | |
| Year registered | 2020 2021 2014 | Discipline | Section 10(A) Permit; U.S. Fish and Wildlife Service Scientific Research Permit; Texas Parks and Wildlife Department TxDOT: 2.3.1 Wetland Delineation, 2.4.1 Nationwide Permits, 2.4.2 Individual Permits | | |
| Contract role(s) / brief description of responsibilities | | | Permitting (MPR 7. Prepare Permit Applications including, but not limited to, Coastal Use Permits, Section 404 Permits, Scenic Stream Permits, Levee Permits and Bridge Permits) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | | |
| 02/20 – 02/21 | Bayou Eau Noire Ridge and Marsh Restoration Plaquemines Parish, LA Environmental Scientist FNI developed engineering analyses associated with the creation of more than 400 acres of marsh and 26,500 LF of coastal ridge habitat, along with earthen containment dikes, marsh creation fill area design and earth ridge design. Tom led all agency coordination efforts, including facilitation of a Pre-Application Meeting with USACE and supporting federal and state agencies. He also consulted with pilots of the Mississippi River on location of borrow material. | | | | |
| 08/22 – Ongoing | Third-Party Environmental Assessment LA23 Development Company LLC Assistant Project Manager FNI is preparing a third-party independent Environmental Assessment for Louisiana’s Gateway Terminal Mainline Rail Extension Project under the directive of the Surface Transportation Board Office of Environmental Analysis. Work will include a 9-mile rail extension within a 100-ft wide ROW and associated siding tracks. | | | | |
| 07/15 – 05/21 | Dallas to Houston High-Speed Rail - Environmental Arup Texas Inc. Environmental Scientist FNI has played a key role in developing the first privately funded high-speed rail project in North America. During the initial design phase, FNI was involved with various aspects of the railway and associated facilities, as well as 404 and 408 permitting, design-build contract development, alignment design, stormwater design, roadway impact analysis and design, utility impact analysis, geotechnical studies, design criteria development and program scheduling. Tom assisted Texas Central Rail in a wide range of environmental compliance issues associated with planning this large transportation project. He assisted with the preparation of the USACE Section 404 CWA individual permit application and 401 water quality certification, mitigation planning, wildlife crossing design, and T&E species surveys and impact assessment required under the Endangered Species Act. Tom is also providing QA/QC for the biological assessment and EIS that is being produced by a third-party consultant. | | | | |

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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 01/23 – Ongoing | Bayou Cocodrie Runoff Retention and Critical Infrastructure Improvements LADOTD Environmental Scientist FNI is evaluating alternatives to improve the spillway and other infrastructure, including replacement of a single-pipe gate structure to a multiple-pipe gate structure that would allow for more efficient lake drawdown and minimal flows during low-flow periods. The effort will occur in five steps including alternatives analysis, environmental review, funding acquisition, letting, then construction. Tom has performed a high-level overview of potential USACE authorization requirements and may prepare NEPA documentation to comply with HUD CDBG funding requirements (if those funds are sought). |
| 06/16 – 05/18 | Coastal Texas Protection and Restoration Feasibility Study Texas General Land Office Environmental Scientist FNI developed the environmental impact study of potential ecosystem restoration and coastal storm risk management projects along the Texas coast from Orange County in the east to the Rio Grande. Tom oversaw many aspects of the EIS development. He was responsible for assisting in client coordination, team coordination, preparation of and attendance at public meetings, coordination with the USACE/ GLO and other state and federal agencies, and preparation of the EIS. He helped develop mitigation model to compensate for potential impacts to estuarine and tidal vegetation communities. Projects proposed included dredging, beneficial use, restoration action and USACE and GLO processes, habitat assessments, and coastal restoration. Other duties include preparation of a Biological Assessment, use of sea level rise models to develop restoration plans, agency coordination and meeting facilitation, preparation of a Conceptual Ecological Model, and assistance with HEP and WVA modeling. |
| 01/20 – Ongoing | Corpus Christi Ship Channel Deepening Environmental Impact Statement Port of Corpus Christi Authority Assistant Project Manager FNI is preparing a third-party Environmental Impact Statement and Section 408 Permissions evaluation under the USACE Galveston District’s direction to conduct dredge and fill activities to deepen a portion of the Corpus Christi Ship Channel to accommodate fully laden Very Large Crude Carriers. The project also includes Ocean Dredged Material Disposal Site fate and dispersion modeling. Tom is assisting with the development of this EIS, including preparations of EIS sections, agency coordination, staff coordination, and meeting facilitation. He is the QA lead for sections regarding coastal resource impacts pertaining to vegetation, endangered species and cumulative impacts. |
| 09/20 – Ongoing | Guadalupe Street Storm Drain Improvements City of Austin, TX Environmental Scientist FNI is providing design services for an urban storm drain improvement project that includes 2D modeling, outfall improvements to an existing dam, new detention facilities, channel improvements, roadway reconstruction, utility relocations, environmental permitting and historical preservation. Tom is leading efforts to prepare and submit a USACE permit application. This effort included WOTUS delineations and habitat assessments. He also reviewed subconsultant work regarding City of Austin environmental requirements. |
| 10/19 – Ongoing | Bailey Road Widening Design Services City of Pearland, TX Environmental Scientist FNI is providing design services for widening the existing Bailey Road from two to four lanes from Veterans Drive to SH 35. The project includes a bridge over BNSF railroad tracks. The project includes a mixed-use, non-vehicular pathway, conduit installation for future illumination, landscaping and irrigation, and Section 404 permitting. Tom is providing oversight on the project, including suggestions on redesigns to reduce mitigation requirements. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Richard Aldredge, PWS | | Years of relevant experience with this employer | 16 |
| Title | Environmental Scientist | | Years of relevant experience with other employer(s) | 5 |
| Degree(s) / Years / Specialization | | BS / 2000 / Resource and Environmental Studies, Texas State University | | |
| Active registration number / state / expiration date | | #2863 / Texas / Exp: 09/09/2027 #20587 / TxDOT Prequalifications | | |
| Year registered | 2107 2013 | Discipline | Professional Wetland Scientist (National License) TxDOT: 2.3.1 Wetland Delineation, 2.4.1 Nationwide Permits, 2.4.2 Individual Permits | |
| Contract role(s) / brief description of responsibilities | | Permitting (MPR 7. Permitting evaluations, jurisdictional determinations, wetland delineations, Section 404 permitting/mitigation, NEPA environmental documents and regulatory agency coordination) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 10/13 – 06/17 | 4th Army Memorial Drive Improvements City of Frisco, TX Task Leader FNI managed the two-phase design for reconstructing 4,400 LF of a 2-lane asphalt roadway as a 4-lane urban section with two single-lane roundabouts. The project included major water and wastewater utility replacements, accommodations for a new high school, a large community park and proposed single-family residential neighborhoods along the route. Richard was the applicant’s agent for this road widening and bridge replacement project in Frisco, Texas. Richard conducted the delineation along the roadway. The project would result in unavoidable impacts to wetlands adjacent to the existing road exceeding the NWP 14 acreage limit and required a standard individual permit (IP). Richard prepared the IP application and alternatives analysis, and handled the agency and mitigation bank coordination. The project resulted in the successful issuance of an IP. | | | |
| 08/17 – 01/19 | FM 2642 (FM 35 to SH 66) TxDOT Paris District Environmental Project Manager FNI completed the schematic, environmental clearance, final plans, specifications and estimate for FM 2642 from SH 35 to SH 66. The scope of work includes roadway, signing and pavement markings, drainage and temporary traffic control design. Richard was the Environmental Project Manager and managed the Texas Department of Transportation (TxDOT) Open Ended (d) Categorical Exclusion for the widening of 2.6 miles of existing roadway from FM 35 to SH 66 in Royce City. He was responsible for TxDOT Paris District and design team collaboration. He led efforts to prepare technical reports for Hazmat Initial Site Assessment, Mobile Source Air Toxics, indirect impacts, water resources, biological, noise analysis, archeological and historical. Noise analysis indicated a need for a wall, which was controversial and required additional coordination amongst stakeholders. | | | |
| 10/22 – Ongoing | Chaparral Road Reconstruction City of Killeen, TX Environmental Project Manager FNI is providing design services to reconstruct and realign Chaparral Road for approximately 6 miles from SH 195 to FM 3481. Improvements include expanding the existing 2-lane, undivided road to a 4-lane, divided road with 12-foot shared use paths on either side. FNI also applied for multiple state and federal grants on the City’s behalf to aid in funding the project’s construction. Richard is the Environmental Project Manager responsible for collaboration with TxDOT and the design and environmental teams to obtain the required NEPA environmental clearance. | | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 02/23 – Ongoing | Austin Avenue Pedestrian and Bicycle Bridges City of Georgetown, TX Environmental Project Manager FNI is providing preliminary and final design services and bidding and construction phase services for two signature pedestrian and bicycle bridges spanning the north and south forks of the San Gabriel River, which will form the gateway into historic downtown Georgetown. Richard is the Environmental Project Manager responsible for collaboration with TxDOT and the design and environmental teams to obtain the required NEPA environmental clearance which includes a biological assessment for federally endangered species. |
| 03/19 – Ongoing | FM 1903 and FM 36 Schematic and Environmental Services Hunt County, TX Environmental Project Manager FNI is developing the schematic design, environmental documents and the PS&E package for FM 1903 and FM 36 from IH 30 to downtown Caddo Mills. FNI is evaluating design alternatives that meet all requirements for TxDOT geometric schematic deliverables as well as finalizing additional right-of-way requirements, assessing environmental impacts, and preparing NEPA documentation necessary to qualify the project to receive federal funding. Richard is the Environmental Project Manager responsible for collaboration with TxDOT and the design and environmental teams to obtain the required NEPA environmental clearance. |
| 03/19 – Ongoing | FM 1570 Schematic and Environmental Services Hunt County, TX Task Leader FNI is developing the schematic design, environmental documents and the PS&E package for two segments of FM 1570. Segment No. 1 extends 3.0 miles north from IH 30 to SH 66. Segment No. 2 extends 2.5 miles east from IH 30 to SH 34. Richard is the Environmental Project Manager responsible for collaboration with TxDOT and the design and environmental teams to obtain the required NEPA environmental clearance. He is currently managing environmental reviews and NEPA document preparation for the reconstruction of FM 1570 near Greenville, Texas. |
| 04/14 – 09/20 | Six Points Urban Village Streetscape City of Fort Worth, TX - Parks and Planning Task Leader FNI provided planning, design and construction phase services to revitalize the Race Street corridor from Sylvania Avenue to Riverside Drive. Race Street now provides parking to complement the commercial development throughout the corridor while providing a more walkable and bicycle friendly corridor with a unique, attractive, safe street environment for all users. As lead scientist, Richard led efforts to prepare a Texas Department of Transportation (TxDOT) Categorical Exclusion for streetscape improvements along Race Street from Grace Avenue to East Belknap Street within the Six Points Urban Village in Tarrant County. Richard was responsible for collaboration with TxDOT, the City of Fort Worth, the design team and subcontractors. He led efforts to prepare the required technical reports for the Hazmat ISA, biological, 303 (d) impacts analysis and historical. The project affected multiple businesses and required coordination with owners. He also coordinated the historical survey which resulted in the preservation of tile mosaic curb markers. |
| 02/23 – Ongoing | Bailey Ranch Sidewalk Improvements City of Aledo, TX Environmental Project Manager FNI is providing design services for a new 5-foot-wide concrete sidewalk that will provide a safe route to Aledo High School for the Parks of Aledo Subdivision residents and other areas of the City. The project alignment will follow the existing Bailey Ranch Road from the high school to FM 1187. Richard is the Environmental Project Manager responsible for collaboration with TxDOT and the design and environmental teams to obtain the required NEPA environmental clearance. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Ben Hagood | | Years of relevant experience with this employer | 16 |
| Title | Environmental Scientist | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | BS / 2003 / Bio/Environmental Studies, Baylor University | | |
| Active registration number / state / expiration date | | #27635 / TxDOT Prequalifications | | |
| Year registered | 2019 | Discipline | TxDOT: 2.1.1 Traffic Noise Analysis, 2.12.1 Socio-Economic and Environmental Justice Analysis, 2.13.1 Hazardous Materials Initial Site Assessment, 2.3.1 Wetland Delineation, 2.3.2 Conditional/Functional Assessment, 2.4.1 National Permit, 2.4.2 Clean Water Act Sec. 404 Permits, 2.4.3 U.S. Coast Guard & U.S. Army Corps of Engr. Permits | |
| Contract role(s) / brief description of responsibilities | | Permitting (MPR 7. Permitting evaluations, jurisdictional determinations, wetland delineations, Section 404 permitting/mitigation, NEPA environmental documents and regulatory agency coordination) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 08/17 – 01/19 | FM 2642 (FM 35 to SH 66) TxDOT Paris District Environmental Scientist FNI completed the schematic, environmental clearance, final plans, specifications and estimate for FM 2642 from SH 35 to SH 66. The scope of work includes roadway, signing and pavement markings, drainage and temporary traffic control design. | | | |
| 09/20 – 05/21 | 2020 North Canadian Mitigation Monitoring Oklahoma Department of Transportation Project Manager FNI, as a subconsultant, provided environmental services related to the annual monitoring at a stream mitigation site along the North Canadian River. This is for a City of Oklahoma City mitigation project associated with roadway and bridge improvements at Midwest Boulevard. In addition to managing this mitigation monitoring project, Ben conducted site evaluations at the North Canadian River and coordinated with the USACE. The project was approved a year earlier than expected, saving the City time and money. | | | |
| 10/22 – 07/23 | Community Impact Study US-69 Pittsburg County Oklahoma Department of Transportation Project Manager FNI conducted background research for potential impacts of the Environmental Justice Population and prepared a Community Impacts Assessment. | | | |
| 06/21 – Ongoing | US-69 Roadway Improvements Oklahoma Department of Transportation Environmental Scientist FNI is providing design services for improvements to US-69 beginning 2.5 miles south of the Indian Nation Turnpike extending north 2.1 miles. Services include full-depth pavement reconstruction and/or widening existing pavement with curb and gutter, closed storm sewer and shoulder construction to bring the corridor to a 5-lane facility in most areas to include a continuous two-way left-turn lane and outside shoulders. | | | |
| 10/03 – 02/20 | Bois d’Arc Lake Permitting and Environmental Mitigation North Texas Municipal Water District Environmental Scientist FNI supported federal Section 404 permitting for Bois d’Arc Lake, including an alternatives analysis for Texas’ first reservoir in 30 years. After the permit was granted, FNI supported the NTMWD staff to make data-informed operational decisions related to the operation, including a TCEQ-approved accounting plan and an operation manual, as well as incorporating Bois d’Arc Lake into the District’s overall raw water system model. Ben conducted biological data collection for the in-stream flow study, conducted stream discharge monitoring using an Acoustic Doppler Velocimeter, and modeled water quality using QUAL-TX. | | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 02/12 – 08/13 | McLane Stadium Baylor University Environmental Scientist FNI provided floodplain modeling and mapping, Section 404 permitting and archaeological survey services for Baylor University’s football stadium, McLane Stadium, along the banks of the Brazos River. Project included reclaiming land from the floodplain for construction of the stadium, constructing a pedestrian bridge across Lake Brazos for campus access and floodplain modeling. Ben provided Section 10/404 permitting services for the construction of Baylor University’s football stadium, McLane Stadium, which included a bridge crossing of the Brazos River. Ben conducted wetland/stream delineations, wetland condition assessments (TXRAM), meetings with the USACE, prepared a Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act Individual Permit (IP) Application, and coordinated the purchase of compensatory mitigation bank credits. The project resulted in the successful issuance of an IP. |
| 01/22 – Ongoing | On-call Mitigation Oklahoma Department of Transportation Project Manager FNI is conducting jurisdictional waters and wetlands evaluation and/or developing Wetland and Stream Mitigation Proposals for various projects. The Wetland and Stream Mitigation Proposals are for site specific project mitigation requirements driven under Section 404/401 of the Clean Water Act and other federal and state laws and regulations. |
| 01/19 – 10/21 | I-40 Pottawatomie County National Environmental Policy Act Oklahoma Department of Transportation Environmental Scientist FNI provided environmental studies culminating in a National Environmental Policy Act (NEPA) document for the Oklahoma Department of Transportation’s I-40 project in Pottawatomie County in Oklahoma. Additionally, FNI prepared and carried out public involvement services for the project. |
| 10/19 – 08/22 | NEPA US-64 Woods Co 2016G TO1 Oklahoma Department of Transportation Project Manager FNI provided environmental services for an ODOT roadway improvements project for approximately 2 miles along US-64 in Woods County. Services included conducting ecological and hazardous waste studies and preparing a NEPA document (Categorical Exclusion). |
| 10/19 – 08/22 | NEPA US-64 Alfalfa Co 2016G TO2 Oklahoma Department of Transportation Project Manager FNI provided environmental services for an Oklahoma Department of Transportation (ODOT) roadway improvement project along approximately 8 miles of US-64 in Alfalfa County, Oklahoma. Freese and Nichols’s services included conducting ecological and hazardous waste studies and preparing a NEPA document (Categorical Exclusion). |
| 07/21 – Ongoing | SH 10 Section 404 Permitting and Public Involvement Oklahoma Department of Transportation Project Manager As a subconsultant, FNI is providing environmental consulting services for the Oklahoma Department of Transportation. Services include assistance with public involvement and Section 404 permitting for a roadway improvement and bank stabilization project at SH 10 along the Illinois River in Cherokee County. Ben is currently serving as the Project Manager for NEPA compliance, Section 404 permitting, fluvial geomorphology assessments and public involvement for this complex bank stabilization project along a designated Scenic River. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**



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|--|---|--|--|
| Name | David Buzan | Years of relevant experience with this employer | 9 |
| Title | Aquatic Ecologist | Years of relevant experience with other employer(s) | 36 |
| Degree(s) / Years / Specialization | | MS / 1979 / Biology, Southwest Texas State University BS / 1974 / Fisheries Science, Texas A&M University | |
| Active registration number / state / expiration date | | LA DNR Certified Biologist - Oyster Lease Damage Evaluation Board (OLDEB) #19535 / TxDOT Prequalifications | |
| Year registered | 2022 | Discipline | TxDOT: 2.6.5 Protected Species Evaluations |
| Contract role(s) / brief description of responsibilities | | Oyster Surveys (MPR 6. Perform Oyster Surveys and analysis in accordance with Louisiana Department of Wildlife and Fisheries requirements.) | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | |
| 05/21 – Ongoing | Oyster Biologist Services Coastal Protection and Restoration Authority, LA Senior Advisor FNI conducted a comprehensive Biological Assessment Survey for oysters within the footprint of the Breton Landbridge Marsh Creation Project, which is a coastal protection and conservation or restoration project in Louisiana’s Coastal Zone. The assessment used Oyster Lease Acquisition and Compensation Program protocols to identify oyster leases or portions of oyster leases that will be directly impacted by planned construction activities. FNI has completed three Task Orders to date. | | |
| 12/19 – 06/22 | Jefferson Parish Coastal Support Jefferson Parish, LA Assistant Project Manager FNI is providing coastal engineering and consulting services and staff augmentation on an as-needed basis for work throughout Jefferson Parish. Services include coastal planning and design (civil, hydraulic, hydrologic and environmental), mapping, CAD support and bidding and construction administration services related to coastal protection and restoration. | | |
| 04/20 – 05/20 | Breton Landbridge Marsh Creation Biological Assessment Survey Coastal Protection and Restoration Authority, LA Assistant Project Manager FNI conducted a comprehensive Biological Assessment Survey for oysters within the footprint of the Breton Landbridge Marsh Creation Project, which is a coastal protection and conservation or restoration project in Louisiana’s Coastal Zone. The assessment used Oyster Lease Acquisition and Compensation Program protocols to identify oyster leases or portions of oyster leases that will be directly impacted by planned construction activities. | | |
| 05/21 – 06/21 | West Fourchon Marsh Biological Assessment Survey Coastal Protection and Restoration Authority, LA Senior Advisor FNI conducted a comprehensive Biological Assessment Survey for oysters within 1,500 feet of the footprint of the West Fourchon Marsh Creation and Nourishment Project, a coastal protection and conservation or restoration project in Lafourche Parish. | | |
| 08/14 – 04/15 | Galveston Bay Oyster Reef Restoration Tool Texas Parks and Wildlife Department Project Manager Hurricane Ike buried thousands of acres of oysters in East Galveston Bay. TPWD was challenged to recover these buried reefs and important services they provide. FNI developed a decision tool to guide future oyster reef restoration and creation efforts. FNI reviewed hundreds of scientific articles and interviewed more than 20 national and international experts to gather information for the tool. The tool identifies 14 techniques, some proven and some experimental, for recovering and creating oyster reefs. | | |

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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 01/17 – 02/17 | Dressing Point Island Oyster Survey Ducks Unlimited Inc. Client Representative FNI performed an oyster survey in a 77-acre area around Dressing Point Island in East Matagorda Bay. The bottom substrate was mapped for the planning of breakwater placement and habitat restoration for a bird island improvement project. |
| 05/19 – 08/21 | Oyster Restoration Feasibility Study and Design Texas General Land Office Project Manager FNI is managing Texas’ oyster restoration efforts under the direction of the Texas General Land Office. FNI researched the latest science on oyster restoration, evaluated the suitability of restoration locations, designed new oyster reefs, and submitted Section 404/10 permit applications to the USACE for review and approval for each reef, as well as state submerged land lease applications for two reefs. |
| 10/20 – 04/21 | Oyster Mariculture Survey On Point Consulting LLC Project Manager FNI assisted in conducting sampling in East Galveston Bay according to requirements in Commercial Oyster Mariculture Natural Resources Survey Protocols, in TPWD’s Application for Cultivated Oyster Mariculture Permit. Side-scan sonar data was collected which illustrated the bathymetry and the absence of oysters and seagrass near their proposed culture facility. Ground-truth sampling was conducted at more than 200 points to confirm the absence of seagrass and oysters in the project footprint and buffer. |
| 02/15 – 05/16 | Schicke Point Living Shoreline Protection C. H. Johnson Project Manager FNI provided design and construction of a 1.3-mile living shoreline to provide the substrate for oyster colonization and hard reef habitat while protecting more than 30 acres of intertidal marsh in Matagorda Bay. David led efforts to evaluate marsh, oyster, and seagrass conditions and obtain a permit for construction of a living shoreline to protect the remaining marsh and oysters. David has monitored the condition of the living shoreline, its use by oysters and other biota, and response of marsh to the decreased wave energy. |
| 07/18 – 12/19 | Desalination Siting and Permitting City of Corpus Christi, Texas Biologist FNI performed a preliminary study to develop the plant siting and protocol for a variable salinity desalination demonstration plant. This pilot plant demonstrated the process requirements to treat seawater, brackish groundwater, treated wastewater effluent and various blends of these raw water sources. The project required a detailed water quality characterization and analysis, site investigation and recommendation, TCEQ coordination, full process evaluation and environmental reviews. |
| 01/98 – 11/06 <i>*Prior to Joining FNI</i> | Coastal Studies Team* Texas Parks and Wildlife Department Team Leader David guided the TPWD’s Coastal Studies team that was responsible for assessing freshwater inflow needs for estuaries. He formed a quarterly state-wide workgroup on freshwater inflow analysis and participated in the freshwater inflow surveys for Matagorda/Lavaca bays in 1988 and 2003. He also participated in Lower Colorado River Authority’s (LCRA) analysis of freshwater inflow needs for Matagorda/Lavaca bays in 2007. His team maintained the TWDB’s water quality meter in Lavaca Bay at SH 35. As a member of the team he participated in tidal stream ecological studies on Garcitas Creek tidal upstream of Lavaca Bay, Carancahua Creek upstream of Carancahua Bay and Tres Palacios Creek upstream of Tres Palacios Bay in 2003 and 2004. These studies involved sampling fish, benthic macroinvertebrates, water quality, habitat and flow. David helped facilitate interagency meetings on tidal stream ecology and monitoring. |

16. **Staff Experience:**

Firm employed by: **Freese and Nichols, Inc.**

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| Name | Kiara Horton, EI | Years of relevant experience with this employer | 4 |
| Title | Coastal and Water Resource EI | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | BS / 2020 / Environmental & Civil Engineering, University of New Orleans | | |
| Active registration number / state / expiration date | #EI.0034595 / Louisiana / Exp: 03/31/2025 | | |
| Year registered | 2020 | Discipline | Engineer Intern |
| Contract role(s) / brief description of responsibilities | CADD/Microstation (MPR 9. Provide CADD and Microstation for the preparation of exhibits and permit sketches) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | |
| 10/20 – Ongoing | Louisiana Watershed Initiative Region 2 Modeling Louisiana Department of Transportation and Development Engineering Support FNI worked with Region 2 and developed large-scale H&H models to create a statewide watershed-based floodplain management program. The five-year, \$18 million contract involved the development of calibrated 1D/2D HEC-RAS models for use in consequence and risk assessment, ultimately informing the implementation of flood risk reduction projects via watershed coalitions in coordination with parish, state and federal entities. | | |
| 02/20 – 02/21 | Bayou Eau Noire Ridge and Marsh Restoration Plaquemines Parish Engineering Support FNI developed engineering analyses associated with the creation of more than 400 acres of marsh and 26,500 LF of coastal ridge habitat, along with earthen containment dikes, marsh creation fill area design and earth ridge design. | | |
| 05/22 – Ongoing | Jefferson Parish Coastal Support Jefferson Parish Engineering Support FNI is providing coastal engineering and consulting services and staff augmentation on an as-needed basis for work throughout Jefferson Parish. Services include coastal planning and design (civil, hydraulic, hydrologic and environmental), mapping, CAD support and bidding and construction administration services related to coastal protection and restoration. | | |
| 05/20 – 12/21 | West Shore Lake Pontchartrain Hurricane Storm Damage Risk Reduction System U.S. Army Corps of Engineers - New Orleans District Engineering Support As a subconsultant, FNI is providing civil, geotechnical, mechanical and electrical engineering design services for Reaches 105 and 108 of the West Shore Lake Pontchartrain Hurricane and Storm Damage Risk Reduction (HSDRR) project consisting of 4.7 miles of earthen levee, three drainage structures and pile-founded T-type floodwalls. The designs were conducted in accordance with all applicable design criteria, including HSDRR Design Guidelines. | | |
| 12/22 – Ongoing | Bucktown Building Resilient Infrastructure Communities Scoping Grant Jefferson Parish Engineering Support FNI led the review and development of updating the Jefferson Parish’s SWMM model. This included reviewing the existing state of the model and identifying portions for further inspection and detailed survey. The model was updated with the current 25-year event and utilized to select green and gray infrastructure stormwater solutions. FNI also developed a FEMA-compliant benefit cost analysis to compare and recommend a selection of preferred engineering solutions. | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 09/20 – 09/21 | Dillard Wetland Restoration City of New Orleans Engineering Support FNI is designing stormwater diversion features, new weirs and water control devices, wetlands and bioswales, a vegetation management and control plan, and boardwalks through the forest. FNI is also performing a comprehensive H&H study, extensive flood modeling simulations within the Dillard Wetlands and adjacent communities, and triple bottom-line cost-benefit analysis. |
| 04/22 – Ongoing | Black Bay Ridge Coastal Restoration AIMS Group, Inc. Engineering Support As a subconsultant, FNI is designing the dredge material borrow sources and coastal numerical modeling. Hydrodynamic modeling, permit considerations, and requirements to harvest sediments at the locations are also being determined. |
| 05/21 – 05/22 | Dallas Floodway 277K Levee Raise U.S. Army Corps of Engineers - Fort Worth District Engineering Support As a subconsultant, FNI provided support for the USACE Dallas Floodway 277K Levee project, which addressed several regional concerns with a focus on flood risk reduction for the citizens of Dallas. FNI’s services included flood protection system design; hydraulic design; interior drainage analysis; topographic survey; geotechnical investigation; levee seepage, stability and settlement analyses; and structural design. |
| 03/21 – 02/22 | Mad Island Marsh Preserve Shoreline Protection The Nature Conservancy Engineering Support FNI is developing a 60% design package for the eventual construction of approximately 12,400 LF of shoreline breakwater protection along the Gulf Intracoastal Waterway near Mad Island Marsh Preserve. The breakwater is planned to protect the preserve from barge wakes, tidal influence and storm-driven waves as well as promote the accumulation of sediment behind the breakwater to increase marsh habitat. |
| 10/21 – 08/22 | Mesquite Point Public Boat Ramp Jefferson County, Texas Engineering Support FNI is providing design and construction support for the removal and replacement of the Mesquite Point Public Boat Ramp on the south side of Highway 82 and the construction of new finger piers and ramps, designed and constructed further inland, to provide protection from tidal and wave action during boat launching. |
| 01/22 – 07/22 | Re-Habitation Benefits Assessment Harris County Flood Control District, Texas Engineering Support FNI developed a conceptual model to quantify the resiliency benefits of flood mitigation and recovery projects that help residential populations related to the re-habitation of residents. |
| 10/20 – Ongoing | USACE Rio de la Plata Utility Relocations U.S. Army Corps of Engineers - Jacksonville District Engineering Support FNI is preparing plans and specifications as well as a design document report for proposed utility relocations, including all water, sewer, power and telecommunications as part of the Rio de la Plata Flood Control Project located in Dorado and Toa Baja, Puerto Rico. The design includes the relocation of utility infrastructure to avoid loss of service during construction of the channel and levee. |
| 12/20 – 05/21 | Bethune Point Water Reclamation Facility Vulnerability and Resiliency Plan City of Daytona Beach, Florida Engineering Support FNI provided a sea-level rise and storm surge vulnerability assessment and adaptation plan for the City of Daytona Beach. FNI also provided a more detailed assessment of the Bethune Point Water Reclamation Facility, which established critical flood elevations, identified key assets that are impacted by flooding, and provided a technical memorandum containing hardening recommendations and a cost benefit analysis. |

16. **Staff Experience:**

Firm employed by: Freese and Nichols, Inc.

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| Name | Blake Simon | | Years of relevant experience with this employer | 1 |
| Title | Environmental Scientist | | Years of relevant experience with other employer(s) | 9 |
| Degree(s) / Years / Specialization | | MS / 2022 / Geographic Information Systems, Pennsylvania State University BS / 2012 / Natural Resources/Environmental Quality, University of Louisiana at Lafayette | | |
| Active registration number / state / expiration date | | #4236699 / FAA / Exp: 2025 MMO Protected Species Observer Certification and PAM Training, CSA Ocean Sciences, Inc. | | |
| Year registered | 2019 2013 | Discipline | FAA UAS Certified Drone Pilot MMO Protected Species Observer Certification and Passive Acoustic Monitoring (PAM) Training | |
| Contract role(s) / brief description of responsibilities | | GIS Mapping (MPR 9. Provide GIS Mapping for the preparation of exhibits and permit sketches) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 08/22 – Ongoing | Third-Party Environmental Assessment LA23 Development Company LLC GIS Analyst FNI is preparing a third-party independent Environmental Assessment for Louisiana’s Gateway Terminal Mainline Rail Extension Project under the directive of the Surface Transportation Board Office of Environmental Analysis. Work will include a 9-mile rail extension within a 100-ft-wide ROW and associated siding tracks. | | | |
| 07/22 – Ongoing | Remediation Consulting Services Formosa Plastics Corporation GIS Analyst Formosa Plastics was mandated to develop and implement a remediation plan due to plastics in Cox Creek and Lavaca and Matagorda Bays. FNI evaluated plastic presence in Cox Creek and Lavaca Bay and developed a remediation plan for Cox Creek and is developing a bay remediation plan to dispose of these plastics. Efforts include sediment sampling, vegetation sampling, development of a remediation plan, development of a bids and specification package for potential contractors, contractor meetings and contractor oversight. FNI is also responsible for implementing the remediation plans. | | | |
| 10/22 – 05/23 | St. James Soil Survey U.S. Army Corps of Engineers - New Orleans District GIS Analyst Blake supported GPS field data collections including the development of web mapping applications and form field entries to support the soil scientists. He also developed the cartographic figures for the final report and prepared GIS data deliverables to meet Department of Defense SDSFIE specifications. | | | |
| 01/23 – Ongoing | Texas Coastal Regions 2 and 3 Sediment Budget Analysis Texas General Land Office GIS Analyst FNI is preparing a regional-scale sediment transport budget for Texas Coastal Regions 2 (Corpus Christi area) and 3 (Matagorda area) on behalf of GLO. This Tier 1 Coastal Resiliency Master Plan involves modeling of longshore transport along the coast to provide and update the understanding of how sand moves along the Texas coast to support future coastal restoration projects to address coastal erosion. The study involves individual modeling and analysis efforts for simulating coastal offshore and nearshore wave, hydrodynamics, flow, and sediment transport during long-term and extreme storm driven climatic forcing. | | | |



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| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
| 02/22 – Ongoing | Insurance Claims Technical Support Puerto Rico Electric Power Authority GIS Analyst FNI is providing technical support to assist in three insurance claims associated with assets impacted by 2018 Hurricane Maria and the 2020 earthquake. FNI is utilizing our technical expertise on dam safety standards, dam engineering, reservoir planning, water resources engineering, heavy civil design, hydraulic structure design, cost estimating, and construction administration to provide our professional opinion relative to the assets, their condition, and potential rehabilitation or restoration. |
| 12/20 – 03/23 | Old Terminal C North Affected Property Assessment Report Houston Airport System GIS Analyst FNI supported the George Bush Intercontinental Airport with assessing areas that had potential soil and groundwater contamination in areas that will undergo new terminal construction activities. This work included conducting an Affected Property Assessment involving sampling of environmental media (soils and groundwater) and analysis for suspected chemicals of concern. FNI also provided drilling services including concrete coring, installation of soil borings and monitor wells. The information collected in the field effort was used to develop an Affected Property Assessment Report (APAR). TCEQ approved the APAR without any requested revisions. |
| 03/23 – Ongoing | Lawson’s Canal Restoration Monitoring City of Beaumont, Texas GIS Analyst FNI is providing compliance monitoring as required by the USACE NWP 27 special conditions associated with the wetland restoration of a portion of Lawson’s Canal south of Marina Street. |
| 11/22 – 12/22 | LOA 41 Hobby Airport West Ramp Subsurface Investigation Houston Airport System Staff Team FNI provided a combined Phase I/Phase II Environmental Site Assessment. |
| 11/22 – 12/22 | Intercontinental Airport Former ExpressJet Property Phase I Environmental Assessment Houston Airport System Staff Team FNI performed a Phase I Environmental Assessment which included a site historical review, regulatory data, physical setting, site reconnaissance and report preparation. |
| 11/22 – 12/22 | ExpressJet Hanger Asbestos-Containing Materials/Lead-Based Paint Demolition Inspection Houston Airport System Staff Team FNI provided a pre-demolition survey of asbestos-containing materials and lead-based paint at the former ExpressJet Hangar. |
| 04/22 – Ongoing | Per- and Poly-Fluoroalkyl Substances Long-Term Management City of Austin, Texas Staff Team FNI is providing long-term management of Per- and Poly-fluoroalkyl Substances (PFAS) impacted soils and groundwater at Austin-Bergstrom International Airport. The team is reviewing former DoD investigations, as well as navigating anticipated regulatory changes that will regulate PFAS-containing material as Hazardous Waste. |
| 05/13 - 08/21 <i>*Prior to Joining FNI</i> | Coastwide Reference Monitoring System (CRMS) CPRA, Coastal Zone, Louisiana Wetland Scientist Blake was a field biologist and data analyst for the CRMS project, working under CPRA guidance. His tasks for the CRMS project involved the gathering of field data from water quality instruments, accretion soil analysis using surface elevation tables and liquid nitrogen soil core samples, and vegetation identification surveys. The field gathered data was then analyzed and prepared for delivery to CPRA. Blake was also in charge of quality control and maintenance of data sonde electronics, specifically diagnosis and repair of YSI multiparameter water quality sondes. After storm events, damage surveys were performed, and he developed GIS workflows to produce wetland and structural damage maps for CPRA. Yearly trainings included wetland plant identification, outboard and airboat safety, and quality control of data. |

16. **Staff Experience:**

Firm employed by: **Sustainable Design Solutions, LLC**

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|--|--|--|---|-----------|
| Name | Kodi Guillory, PE | | Years of relevant experience with this employer | 4 |
| Title | President | | Years of relevant experience with other employer(s) | 13 |
| Degree(s) / Years / Specialization | | MS / 2007 / Civil Engineering BS / 2005 / Biological Engineering | | |
| Active registration number / state / expiration date | | #35951 / Louisiana / Exp: 03/31/25 Traffic Control Technician / Louisiana / Exp: 03/22/25 | | |
| Year registered | 2011 | Discipline | Professional Engineer | |
| Contract role(s) / brief description of responsibilities | | Permitting, Wetland Delineations and Oyster Assessments | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 01/20 – 06/21 | MovEBR Wetland Delineations City of Baton Rouge Project Manager MovEBR is a transportation and infrastructure improvements program composed of several roadway projects throughout East Baton Rouge Parish. Kodi managed the wetland delineations and associated permitting for five MovEBR roadway projects. The projects include: Nicholson Segment 1 (Brightside to Gourrier), Ben Hur Realignment, Old Hammond Segment 2 (Millerville to O’Neal Lane), Midway Boulevard and S Choctaw (Flannery to Central Thruway). | | | |
| 09/10 – 04/14 | Mississippi River Long Distance Sediment Pipeline CPRA State Project Engineer This project consisted of the creation of 482 acres of marsh and a permanent pipeline corridor to facilitate the delivery of Mississippi River Sediment to the Barataria Basin. Kodi was responsible for overseeing the design and submittals of technical deliverables as well as permitting. Technical challenges included performing slope stability analysis for the Mississippi River Borrow Area to adhere to the USCAE limits of permissible excavation, jack and bore under LA Hwy 23, and permitting challenges associated with providing an elevated corridor for the dredge pipeline. Necessary permits included Coastal Use Permit, Section 10 from USACE and Water Quality Certifications from LDEQ. | | | |
| 01/13 – 12/16 | Oyster Bayou Marsh Restoration (CS-59) Project CPRA State Project Engineer The project created over 600 acres of marsh in recently formed open water, nourished over 90 acres of marsh, and created over 14,000 LF of earthen terraces. The marsh borrow was located approximately 3.5 miles south-southeast of Calcasieu Pass in state waters of the Gulf of Mexico. Dredged over 2.5 million cubic yards of offshore borrow to create over 600 acres of marsh. Design challenges included crossing LA Hwy 27 (a hurricane evacuation route) with the dredge pipeline via open cut methodology and relocating a water line at the dredge pipeline crossing location. Kodi’s responsibilities included performing QA/QC on design reports, technical specifications, and design plans and obtaining various permits including: Coastal Use Permit and Water Quality Certifications from LDEQ. | | | |
| 01/10 – 12/14 | Bayou Dupont III Marsh Creation CPRA State Project Engineer This project included the creation of 144 acres of marsh utilizing the Mississippi River Long Distance Sediment Pipeline corridor. It conveyed Mississippi River Sediment via a dredge pipeline to open water area to create marsh. Kodi’s responsibilities included performing QA/QC on design reports, technical specifications, and design plans and obtaining various permits including: Coastal Use Permit and Water Quality Certifications from LDEQ. | | | |



16. **Staff Experience:**

Firm employed by: **Sustainable Design Solutions, LLC**

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| Name | Talene Kaltakjian, PE | Years of relevant experience with this employer | 1 |
| Title | Engineering Manager | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | BS / 2015 / Civil Engineering | |
| Active registration number / state / expiration date | | #44529 / Louisiana / Exp: 09/30/24 Traffic Control Technician / Louisiana / Exp: 02/24 Traffic Control Supervisor / Louisiana / Exp: 02/24 Certified Flagger / Louisiana / Exp: 01/28/24 | |
| Year registered | 2020 | Discipline | Professional Engineer |
| Contract role(s) / brief description of responsibilities | | Permitting, CADD/GIS Support and Work Zone Safety Support | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | |
| 03/20 – 01/21 | Prairieville High School Master Planning Ascension Parish School Board Project Engineer Talene served as a project engineer and responsibilities included HYDROCAD modeling, HEC-RAS modeling in order to re-route an existing on-site channel and USACE permitting. This project consisted of master planning of a 60+ acre tract for the development of a new high school. This phase included a drainage impact study, USACE permitting and schematic design. | | |
| 06/20 – 08/21 | St. Francis Parkway Extension City of Gonzales Project Manager, Project Engineer This project consists of approximately 0.50 miles of a roadway extension in the City of Gonzales, which will extend S. St. Francis Parkway to Darla Ave. The roadway will help provide connectivity for future commercial development, the future Heritage Crossing development, and help relieve congestion on LA Hwy 30 and LA Hwy 44. Roadway typical section includes two 12-foot travel lanes, bike lanes, concrete curb and gutter, sidewalks, subsurface drainage and multiple box culvert crossings. The proposed roadway crosses two major pipelines as well as Jurisdictional Wetlands and other Waters of the U.S., therefore, permitting was a major component of this project. Talene’s responsibilities included permitting coordination and exhibits, road design, drainage design, construction cost estimates and project management. | | |
| 09/19 – 07/20 | LA Hwy 73 at Henry Road Intersection Improvements Ascension Parish Project Manager This project is part of the Move Ascension transportation infrastructure improvement program. Intersection improvements include an asphalt milling and overlay, widening intersection to include turn lanes onto Henry Road, constructing 2-foot shoulders, and installing subsurface drainage. Talene’s responsibilities included DOTD permitting, drainage design, assisting with construction contract documents, specifications, temporary traffic control planning, construction administration services to ensure proper project completion and project management. | | |
| 09/19 – 04/21 | N. Carnation Street Rehabilitation City of Slidell Project Manager, Project Engineer This road rehabilitation project was federally funded and therefore administered, reviewed, and approved by LADOTD, and designed according to LADOTD standards and specifications. Design improvements consisted of an asphalt mill and overlay, base rehabilitation, sizing of a major drainage channel, crossing, and commercial drive access improvements. Her responsibilities included design, drainage calculations, cost estimation and project management. | | |



16. **Staff Experience:**

Firm employed by: **Sustainable Design Solutions, LLC**



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|--|--|---|---|----------|
| Name | Jeremy Labiche, EI | | Years of relevant experience with this employer | 1 |
| Title | Engineer Intern | | Years of relevant experience with other employer(s) | 3 |
| Degree(s) / Years / Specialization | | BS / 2015 / Civil Engineering | | |
| Active registration number / state / expiration date | | #33781 / Louisiana / Exp: 09/30/24 Traffic Control Technician / Louisiana / Exp: 02/15/26 Traffic Control Supervisor / Louisiana / Exp: 02/16/26 Certified Flagger / Louisiana / Exp: 07/21/26 | | |
| Year registered | 2018 | Discipline | Engineer Intern | |
| Contract role(s) / brief description of responsibilities | | Traffic Control Supervisor, Fieldwork, CADD/GIS support | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | |
| 03/22 – 10/22 | University Lakes Flood Risk Reduction University Lakes Civil Engineer, Technical Reviewer This project consisted of providing flood risk reduction design services for the restoration of University Lakes. This included earthwork modeling, water quality enhancement design, dredging design and hydrological and soils data analysis. | | | |
| 03/22 – Ongoing | ARP Drainage Program City of Baton Rouge Project Engineer The ARP drainage program implements maintenance best practices that will restore the capacity of the City-Parish drainage infrastructure system back to its original design and will also close out back-logged service requests. Jeremy prepared bid documents and cost estimates for stormwater infrastructure maintenance of roadside ditches and open channels. He also performed site assessments of stormwater assets for open channels and roadside ditches and developed QA documents associated with the assessment and management of stormwater assets. Additionally, he prepared project definition documents to support work orders for the contractors. | | | |
| 04/22 – Ongoing | Ben Hur CE&I City of Baton Rouge Engineer Jeremy served as an inspector for the construction of a new road connecting the existing Ben Hur Road to Nicholson Drive (LA Hwy 30). Scope of work includes asphalt concrete pavement, base course, subsurface drainage, grading and railroad crossing improvements. Jeremy’s role included resident construction inspection and oversight services necessary to observe if construction activities are performed in conformance with contract documents and City-Parish standards; is accurately documented; and is proceeding in accordance with the approved construction schedule. Daily duties include monitoring and tracking construction progress; ensuring proper traffic control; inspecting and tracking eligible work and related pay items; observing that work is completed safely; documenting if work is performed in accordance with the plans and specifications; observing if work does not adversely affect adjacent areas or property; and assisting the City-Parish in dispute resolution or claims. | | | |
| 02/19 – 11/22 | Venture Global Calcasieu Pass LNG Export Facility Venture Global Calcasieu Pass, LLC Engineer This project consisted of an environmentally heavy greenfield LNG development. The site included all phases of construction and required a wide array of deep foundation installations. Jeremy’s responsibilities included providing contract acceptance and inspection for adherence to specifications on civil works activities for soils, concrete/grout/asphalt, reinforcing steel, precast-pre-stressed driven piles, helical piles, sheet piles and rigid inclusions. Jeremy performed final inspections with the client for specified concrete roadway paving sections and all cast-in-place concrete structures. He also developed condition reports, RFIs and inspection for any variation or disparity from project scope to furnish for the engineer of record and client. | | | |



17. **Firm Experience:**

Identify the team’s project experience most relevant to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

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|--|--|--|--|----------------------|
| Firm name | Freese and Nichols, Inc. | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | Oyster Biologist Services | | Firm responsibility (prime or sub?) | Prime |
| Project Number | BS-0038; TE-0134 | Owner’s name | Coastal Protection and Restoration Authority, Louisiana | |
| Project Location | New Orleans, Louisiana | Owner’s Project Manager | James Altman Land Rights Division | |
| Owner’s address, phone, email | 150 Terrace Avenue, Baton Rouge, Louisiana 70802 225-342-2413 james.altman@la.gov | | | |
| Services commenced by this firm (mm/yy) | 05/21 | Total consultant contract cost (\$1,000’s) | \$88.5 to date | |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000’s) | \$27.3 to date | |

Describe the project including the firm’s role and members involved. (Highlight staff to be used in this proposal.)



FNI is providing a variety of biological science and related services throughout the coastal parishes of Louisiana on an as-needed basis under an IDIQ agreement. Task orders include conducting biological surveys of public and private oyster grounds potentially affected by coastal protection and conservation or restoration projects. FNI is generating all GIS mapping applying the necessary buffers and offsets for assessment and determination.

The oyster assessments use Oyster Lease Acquisition and Compensation Program (OLACP) protocols to identify oyster leases or portions of oyster leases that will be directly impacted by planned construction activities. For live oyster resources within each lease, square meter quadrants were randomly selected in areas where exposed shell and reef were identified during the bottom-type poling assessment. Lengths of live and recently dead oysters were measured at each location to estimate marketable oyster resource, future production, and recent mortality. The report generally includes bottom-type assessment results, an oyster resources assessment, water depths, biological oyster summary tables, transect maps of each poling site, dredge sample locations, digital images of all dredged samples, a discussion and summary describing estuary dynamics, a signed and stamped plat of each lease portion within the direct impact area, and plats showing the exact acreage of each lease needed for acquisition.

Three task orders have been completed to date including: Task Order No. 1: Breton Landbridge Marsh Creation Project; Task Order No. 2: West Fourchon Marsh Creation and Nourishment Project; Task Order No. 3: No Name Bayou Marsh Creation Project

Team Members: Aaron Petty, Nina Reins, David Buzan

Project Relevance

- » Biological Assessment and Surveys
- » Coordination
- » Fieldwork and Reports

* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

**This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

17. **Firm Experience:**

| | | | |
|---|--|---|---|
| Firm name | Freese and Nichols, Inc. | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | FM 2642 (FM 35 to SH 66) | Firm responsibility (prime or sub?) | Prime |
| Project Number | N/A | Owner's name | Texas Department of Transportation, Paris District |
| Project Location | Royse City, Texas | Owner's Project Manager | Nancy Peron, PE, Transportation Engr |
| Owner's address, phone, email | 6230 E Stassney Lane Austin, Texas 78744 800-558-9368 nancy.peron@txdot.gov | | |
| Services commenced by this firm (mm/yy) | 08/17 | Total consultant contract cost (\$1,000's) | \$775 |
| Services completed by this firm (mm/yy) | 01/19 | Cost of consultant services provided by this firm (\$1,000's) | \$775 |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

The FNI environmental team worked closely with the design team and TxDOT environmental reviewers throughout the entire process. FNI conducted scoping meetings with TxDOT and prepared the request for open ended (d) categorical exclusion classification which included a detailed supporting documentation memo.

FNI conducted the field data collection, environmental analysis and prepared the environmental technical reports for the Hazmat Initial Site Assessment, Mobile Source Air Toxics, indirect impacts, water resources, biological, noise, public involvement, archeological and historical. The water resources analysis included a delineation of Waters of the U.S., working with the design team to minimize impacts to streams at culvert crossings and modifying drainage easements to avoid Nationwide Permit 14 USACE preconstruction notification triggers such as wetlands. Right of entry was obtained from multiple property owners, including residential owners, to enable project scientists to conduct wetland delineations and other scientific surveys on the various properties.

Three emergent wetlands were identified within the proposed storm drain outfalls. Section 404 Nationwide Permit 14 Linear Transportation Crossings requires submittal of a preconstruction notification (PCN) to the USACE for discharges of dredged or fill material in special aquatic sites including wetlands. FNI worked with the design team to avoid the wetlands by relocating an outfall and shortening the length of another which avoided the PCN. FNI's environmental team worked with the FNI design team and TxDOT to prepare for the public meeting and then participated in the public meeting at the local high school. The public involvement also included coordination and preparation of the Notice and Opportunity for public comment and response to public comments.

Team Members: *Richard Aldredge, Ben Hagood*



Project Relevance

- » Permitting
- » Wetland Delineation
- » Fieldwork
- » Coordination

17. **Firm Experience:**

| | | | | |
|---|--|---|--|--------------------|
| Firm name | Freese and Nichols, Inc. | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | ODOT Environmental Services* | | Firm responsibility (prime or sub?) | Varies per Project |
| Project Number | Varies per Project | Owner's name | Oklahoma Department of Transportation | |
| Project Location | Oklahoma | Owner's Project Manager | Leslie Novotny, NEPA Program Manager | |
| Owner's address, phone, email | 200 NE 21st Street, Oklahoma City, OK 73105 405.439.9879 Inovotny@odot.org | | | |
| Services commenced by this firm (mm/yy) | 06/19 | Total consultant contract cost (\$1,000's) | Varies per Project | |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | Varies per Project | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

FNI provides a wide variety of environmental services to ODOT through multiple **Statewide Environmental On-Call Services Contracts**, including **Section 404 permitting/mitigation, Hazardous Materials Studies, and NEPA services for local government projects**. In addition to working on tasks through these contracts, FNI provides environmental services on numerous ODOT projects awarded individually through solicitations, including some of the more publicly visible and complex projects.

Each project has different nuances and challenges, but the **I-40 expansion project in Pottawatomie County** included many of the typical environmental services that FNI provides ODOT. FNI conducted environmental studies and NEPA documentation services resulting in FHWA approval of the NEPA Categorical Exclusion (CE) document. In addition to Section 404 permitting, federally listed T&E species surveys, Formal Section 7 consultation with the USFWS and hazardous material assessments, this project required traffic noise modeling using FHWA TNM 2.5.

An example of a project where FNI provided some atypical environmental services was for a **Road Improvement/Bank Stabilization project** along the Illinois River, which is a **designated scenic river in Oklahoma** with significant recreational use and value. FNI conducted the standard wetland/waterbody delineations, biological assessment and hazardous materials studies, but FNI also conducted dendrogeomorphological and erosion studies to quantify potential stream bed and bank impacts, prepared a Section 404 Individual Permit application, prepared the Section 401 Water Quality Certification application, and developed environmental commitments due to impacts of endangered freshwater mussels and its designated critical habitat. FNI provided the NEPA documentation services, and despite the challenges and complexities of the project, it resulted in FHWA approval by Categorical Exclusion (CE).

FNI provides hazardous materials specialist studies for ODOT projects occurring statewide directly for ODOT and through partners on local government projects. For each Hazardous Materials Initial Site Assessment (ISA), FNI prepares a Phase I ISA in accordance with the EPA's All Appropriate Inquiry (AAI) Rule and industry standards. FNI conducts Phase I ESAs with our client's overall project objectives in mind – we look for all potential environmental issues that might affect a project. FNI's goal when conducting Hazardous Materials ISA reviews under this contract is to provide ODOT and county officials with the best information possible regarding physical and environmental conditions to allow them to make informed decisions in regard to environmental risk when acquiring property or easements or constructing within an expanded right-of-way.

FNI has provided public involvement services for multiple ODOT road improvement projects across Oklahoma. Engaging the public for ODOT projects can take different forms or methods, and FNI's approach has been to individually tailor the public involvement strategies to fit the scale of each project and needs of the specific community.

Team Members: Robert Chambers, Kevin St. Jacques, Ben Hagood



*Additional ODOT Specific Project Descriptions and References available upon Request.

- Project Relevance**
- » Permitting
 - » Wetland Delineations
 - » Coordination
 - » Fieldwork and Reports

17. **Firm Experience:**

| | | | |
|--|--|--|--|
| Firm name | Freese and Nichols, Inc. | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | Third-Party Environmental Assessment | | Firm responsibility (prime or sub?) Prime |
| Project Number | N/A | Owner's name | Surface Transportation Board (STB) Office of Environmental Analysis |
| Project Location | Belle Chasse, Louisiana | Owner's Project Manager | Adam Assenza, Environmental Protection Specialist |
| Owner's address, phone, email | 395 E Street SW, Washington, DC 20423 202-245-0301 adam.assenza@stb.gov | | |
| Services commenced by this firm (mm/yy) | 08/22 | Total consultant contract cost (\$1,000's) | \$337 |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | \$227.2 |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

FNI was contracted by the Louisiana 23 Development Company (LA23) to prepare a Third-Party Independent Environmental Assessment (EA) for Louisiana's Gateway Terminal (LGT) Mainline Rail Extension Project in Plaquemines Parish, Louisiana. The project is under the directive of the Surface Transportation Board (STB) Office of Environmental Analysis (OEA). The work to be permitted includes a 9-mile rail extension within a 100-ft-wide right-of-way (ROW) and associated siding tracks, which will aid industrial clients in the area, and terminate at the new Port of Plaquemines Terminal.

Since the port infrastructure development is privately funded, the project timeline is aggressive so that all aspects of the development fall into place as critical infrastructure comes online. As part of the scope of work, FNI developed a work plan capturing the agreed-upon tasks between the applicant and STB. The EA's scope of work includes:

- Applicant, agency and delivery team meetings
- Development of STB specific purpose and need statement
- Proposed action and alternatives documentation
- Evaluation of affected environments and environmental effects
- Mitigation assessment
- Stakeholder engagement
- Section 106 documentation and Tribal consultation
- Preparation of draft and final EA
- Preparation of a draft notice of availability

Team Members: Robert Chambers, Nina Reins, Whitney Broussard, Tom Dixon, Blake Simon

Project Relevance

- » Permit
 - STB
- » Wetland Delineations
- » Biological Assessments and Surveys
- » Coordination
- » Fieldwork and Reports



The rail extension will run along the Mississippi River and increase opportunities for commerce in the region.

17. **Firm Experience:**

| | | | |
|--|--|--|---|
| Firm name | Freese and Nichols, Inc. | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | Dallas to Houston High-Speed Rail – Environmental | | Firm responsibility (prime or sub?) |
| Project Number | N/A | Owner’s name | Texas Central Railway, LLC |
| Project Location | Dallas, Texas | Owner’s Project Manager | Katie Barnes, Director of Right-of-Way |
| Owner’s address, phone, email | 1409 South Lamar Street Suite 1022, Dallas, Texas 75215 832-654-0803 kbarnes@texascentral.com | | |
| Services commenced by this firm (mm/yy) | 07/15 | Total consultant contract cost (\$1,000’s) | \$2,194 |
| Services completed by this firm (mm/yy) | 05/21 | Cost of consultant services provided by this firm (\$1,000’s) | \$2,194 |

Describe the project including the firm’s role and members involved. (Highlight staff to be used in this proposal.)

FNI has played a key role in developing the first privately funded high-speed rail project in North America. The planned Texas Central High-Speed Railway will make it possible for tens of thousands of passengers a day to travel the 240 miles between Dallas and Houston in just 90 minutes.

During the initial design phase, FNI teamed with an international rail firm to be the Owner’s Engineer (O-E) for the project. As O-E, FNI was involved with various aspects of the railway and associated facilities, as well as Section 404 and 408 permitting, design-build contract development, alignment design, stormwater design, roadway impact analysis and design, utility impact analysis, geotechnical studies, design criteria development and program scheduling. FNI was responsible for all phases of the Section 404 permitting process and worked closely with the USACE’s Fort Worth and Galveston Districts.

FNI developed Section 404 Purpose and Need in addition to creating and reviewing various route alternatives, including the Least Environmentally Damaging Practicable Alternative (LEDPA), in keeping with the unique design parameters required by a train traveling in excess of 200 mph. FNI conducted field surveys to delineate wetlands and perform ecological assessments (TXRAM in the Fort Worth District and iHGM in the Galveston District) along the preferred alternative (LEDPA) to assess impacts to jurisdictional waters of the U.S. FNI also participated in the verification of the delineations and ecological assessments with both USACE Districts, working in the field and through multiple meetings with USACE regulators. FNI prepared both Individual Permit applications for each District and has responded to the numerous agency and public comments associated with a 240-mile transportation facility within a newly established right-of-way.

For the project’s NEPA evaluation, FNI analyzed each alternative alignment with respect to economics, schedule and constructability. In addition, FNI assisted in developing the project’s mitigation plan, which includes the purchase of mitigation bank credits as well as the development of permittee responsible mitigation sites.

Team Members: Robert Chambers, Tom Dixon, Michael Lane, Aaron Petty, Tam Tran



- Project Relevance**
- » Permits
 - Wetland
 - Water Quality Certifications
 - Bridge (USCG)
 - Levee
 - Others
 - » Wetland Delineation
 - » Biological Assessments and Surveys
 - » Coordination
 - » Fieldwork and Reports

17. **Firm Experience:**

| | | | | |
|--|---|--|---|----------------------------|
| Firm name | Sustainable Design Solutions, LLC | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | Nicholson Segment 1 (Brightside to Gourrier) – MovEBR Wetland Delineations | | Firm responsibility (prime or sub?) | Prime |
| Project Number | CP No. 08-CS-US-0035 | Owner’s name | City of Baton Rouge | |
| Project Location | Baton Rouge, LA | | Owner’s Project Manager | Seneca Toussant, PE |
| Owner’s address, phone, email | 343 Third Street, Suite 511B, Baton Rouge, LA 70801 225-960-1160 stoussant@laterre-eng.com | | | |
| Services commenced by this firm (mm/yy) | 05/2020 | Total consultant contract cost (\$1,000’s) | | \$25 |
| Services completed by this firm (mm/yy) | 01/2022 | Cost of consultant services provided by this firm (\$1,000’s) | | \$18 |

Describe the project including the firm’s role and members involved. (Highlight staff to be used in this proposal.)

This project proposed to widen a segment of Nicholson Drive from a 2-lane roadway to a 4-lane roadway with a median. It also included bike lanes on both sides of the roadway and a shared use path.

Sustainable Design Solutions was responsible for the wetland delineations as well as obtaining the Nationwide Permit 14 from USACE. Tasks included the preparation of all data sheets and associated project figures for submittal of the wetland data report to the USACE for Jurisdictional determination.

The wetland delineation followed the most recent technical guidelines to determine the interaction of hydrology, vegetation and soil and determine if characteristics unique to wetlands were present. The Munsell Color Soil Book was utilized for wetland soil classification at designated probe locations.

Our tasks also included the preparation of the associated permits for the proposed construction activities for each project.

Team Members: *Kodi Guillory*



- Project Relevance**
- » Permitting
 - » Wetland Delineations
 - » Coordination
 - » Fieldwork and Reports

17. **Firm Experience:**

| | | | | |
|---|---|---|--|----------------------------|
| Firm name | Sustainable Design Solutions, LLC | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | Ben Hur Realignment - MovEBR Wetland Delineations | | Firm responsibility (prime or sub?) | Prime |
| Project Number | CP No. 19-CP-HC-0037 | Owner's name | City of Baton Rouge | |
| Project Location | Baton Rouge, Louisiana | | Owner's Project Manager | Seneca Toussant, PE |
| Owner's address, phone, email | 343 Third Street, Suite 511B, Baton Rouge, LA 70801 225-960-1160 stoussant@laterre-eng.com | | | |
| Services commenced by this firm (mm/yy) | 05/2020 | Total consultant contract cost (\$1,000's) | \$25 | |
| Services completed by this firm (mm/yy) | 04/2021 | Cost of consultant services provided by this firm (\$1,000's) | \$11 | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

This project proposed construction of a new road connecting the existing Ben Hur Road to Nicholson Drive to eliminate the skewed intersection. This project encompassed a new asphaltic roadway, stormwater culvert and drainage installation.

Sustainable Design Solutions was responsible for the wetland delineations as well as obtaining the Nationwide Permit 14 from USACE, the Water Quality Certification from DEQ, as well as coordinating the necessary mitigation. Tasks included the preparation of all data sheets and associated project figures for submittal of the wetland data report to the USACE for Jurisdictional determination.

The wetland delineation followed the most recent technical guidelines to determine the interaction of hydrology, vegetation and soil and determine if characteristics unique to wetlands were present. The Munsell Color Soil Book was utilized for wetland soil classification at designated probe locations.

Our tasks also included the preparation of the associated permits for the proposed construction activities for each project.

Team Members: *Kodi Guillory, Jeremy Labiche*



Project Relevance

- » Permitting
- » Wetland Delineations
- » Coordination
- » Fieldwork and Reports

17. **Firm Experience:**

| | | | | |
|---|---|---|--|------------------------|
| Firm name | Sustainable Design Solutions, LLC | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project Name | Old Hammond Segment 2 (Millerville to O'Neal Lane) | | Firm responsibility (prime or sub?) | Prime |
| Project Number | CP No. 06-CS-HC-0028 | Owner's name | City of Baton Rouge | |
| Project Location | Baton Rouge, LA | | Owner's Project Manager | Baton Rouge, LA |
| Owner's address, phone, email | 343 Third Street, Suite 511B, Baton Rouge, LA 70801 225-960-1160 stoussant@laterre-eng.com | | | |
| Services commenced by this firm (mm/yy) | 05/2020 | Total consultant contract cost (\$1,000's) | \$24 | |
| Services completed by this firm (mm/yy) | 03/2021 | Cost of consultant services provided by this firm (\$1,000's) | \$9 | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

This project proposed to widen a segment of Old Hammond Hwy from a 2-lane roadway to a 4-lane roadway with a median. It also included drainage improvements along the corridor.

Sustainable Design was responsible for the wetland delineations as well as obtaining the Nationwide permit 58 from USACE. Tasks included the preparation of all data sheets and associated project figures for submittal of the wetland data report to the USACE for Jurisdictional determination.

The wetland delineation followed the most recent technical guidelines to determine the interaction of hydrology, vegetation and soil and determine if characteristics unique to wetlands were present. The Munsell Color Soil Book was utilized for wetland soil classification at designated probe locations.

Our tasks also included the preparation of the associated permits for the proposed construction activities for each project.

Team Members: *Kodi Guillory*



Project Relevance

- » Permitting
- » Wetland Delineations
- » Coordination
- » Fieldwork and Reports

18. **Approach and Methodology:**

Provide a description of how the work will be performed and provide the proposed project schedule. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. If more than four pages are included, all pages after the fourth page will not be evaluated.

If the consultant has information it believes is proprietary, label it accordingly.

FNI has a long history of performing IDIQ contracts and currently holds 18 similar contracts with DOTs, cities, parishes, private clients and other public entities. FNI's experience in performing work under these contract vehicles allowed us to respond to a variety of unique project requirements. FNI's team will support DOTD through advisory roles, subject matter expert support, coordination with regulatory agencies and potential public out-reach support. We have also seen projects that are driven by development needs and political issues that have additional scrutiny from state and local governments and stakeholders requiring compressed schedules and increased regulatory coordination/involvement to meet the objectives.

Our approach to successfully completing work is achieved through our team organization. Our Program Manager Nina Reins will work directly with the DOTD PM/representative to gain an understanding of the project needs (scope and schedule). They will then identify the appropriate task leader to assign as the subject matter expert to lead the technical aspects of the project (see our [Organizational Chart on Page 9](#)). The task leaders are responsible for the technical aspects of the project and are assigned based on the scope of work. The task leader also coordinates activities with any subcontractors required to support the projects. This coordination may include scheduling and providing oversight of traffic control, surveyors and other contractors performing field work. The PM will serve as the management arm of the project and will coordinate with the DOTD PM on the scope, schedule, and budget. This organization allows FNI's PM to maintain the primary contact with DOTD personnel to provide consistent service, understanding of contract procedures and develop relationships and understanding of needs over the lifetime of the contract. In addition to the PM, FNI has assigned a Principal-in-Charge that will be engaged at an executive level to confirm the appropriate resources are available to meet the contract needs and will routinely follow up with

DOTD PMs we are supporting to obtain feedback on performance. The below information describes how the major scope of work will be performed. FNI understands all projects have unique features and will require modifications of the below approaches to meet the diverse set of project needs throughout the life of this contract.

Permits

Obtaining a variety of state and federal authorizations for complex infrastructure projects, particularly U.S. Army Corps of Engineers (USACE) authorizations under Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 408 Permission Requests is a core business for FNI. FNI scientists and engineers have been performing this work on major infrastructure projects since the inception of the Clean Water Act and the associated regulations were put in place. Some of our more recent experiences in Louisiana involve USACE authorizations for coastal restoration actions, including those that occur near federal protection levees that require agency coordination, as well as STB permission for a critical rail extension to the Port of Plaquemines.



FNI is supporting the Bayou Eau Noire Ridge and Marsh Restoration Project in Plaquemines Parish as well as the Black Bay Ridge and Marsh Creation Project in St. Bernard Parish by performing Mississippi River Borrow Area and Conveyance Design and associated permitting (including SHPO clearance, CUP, 404 permit, and 408 permission).

18. Approach and Methodology:

Our approach and methodology to preparing and submitting permit applications may slightly vary but generally include the following elements:

1. Have appropriate external and internal project kick off meetings to ensure proper understanding of the project goals and timelines.
2. Execute a desktop survey and archival research as it pertains to the permit action and application requirements.
3. Plan and perform a field survey effort to collect data necessary for accurate permit application information.
4. Evaluate the results and synthesize the information in regard to the proposed action and permit application.
5. If necessary, coordinate with the applicable regulatory agency to provide a pre-application meeting. This provides the agency an opportunity to confirm the applicant's expectations and assumptions, or to provide suggestions to improve the application materials.

Wetland Delineations/Findings

FNI scientists are known as experts with USACE authorizations, and those typically involve waters of the U.S. (WOTUS) delineations (including wetlands). Our staff are experts in USACE methodology and guidelines, trained in wetland delineation protocols, and use submeter GPS technology when mapping jurisdictional extents.

Our approach and methodology to wetland delineation/findings:

1. First, a desktop survey and archival research is performed. This effort would include reviews of U.S. Fish and Wildlife Service's National Wetland Inventory data, recent and past aerial imagery, topographic maps, digital



The Dillard Wetland Project included a vegetation survey to determine the type and density of invasive species and to preserve native wetland vegetation areas. A native species planting plan and invasive species management plan were developed to establish a closed-canopy, self-sustaining native species bottomland hardwood forest. FNI has multiple Professional Wetland Scientists as well as a Senior Forester and Certified Arborist who supported this effort.

elevation models (DEMs), floodplain maps, soils data, and other publicly available spatial data sets to help us understand what field efforts may encounter. Field maps and information are developed from this desktop survey.

2. With an accurate understanding of potential project extents, a field effort to delineate wetland areas would be executed. This would follow USACE guidelines from the 1987 USACE Wetland Delineation Manual and the applicable Regional Supplement, as well as Regulatory Guidance Letters (RGLs). Areas with wetland indicators including hydrology, hydrophytic vegetation and hydric soils would be evaluated and documented on Wetland Determination Data Forms (WDDFs). Boundaries of these areas would be mapped with a submeter accuracy GPS unit and adjacent upland areas would be similarly documented on WDDFs.
3. The report will outline the methods and results with an explanation of potential WOTUS impacts and implications for permitting requirements. The report would include figures, WDDFs, and representative photographs.



Biological Assessments and Surveys

Biological Assessments (BA) as required to meet the standards of Section 7 Consultation under ESA, which is used for USFWS to issue a Biological Opinion (BO) to authorize an activity, are another area of our expertise. FNI has a deep bench of biologists including marine biology experts that have performed many assessments in Louisiana. FNI has prepared several BAs recently, including complex actions with direct impacts, as well as BAs for large-scale federal actions. The BAs were prepared for either a USACE permit authorization or for requirements under National Environmental Policy Act (NEPA).

FNI has performed many surveys pertaining to habitat assessments to determine if listed species habitat is present in a project area. We also recognize the RFQ includes SCUBA assisted surveys. FNI's biologists routinely

Oyster Assessment Qualifications

FNI has two OLDEB licensed Senior Oyster Biologists as part of our team, Aaron Petty and David Buzan.

18. Approach and Methodology:

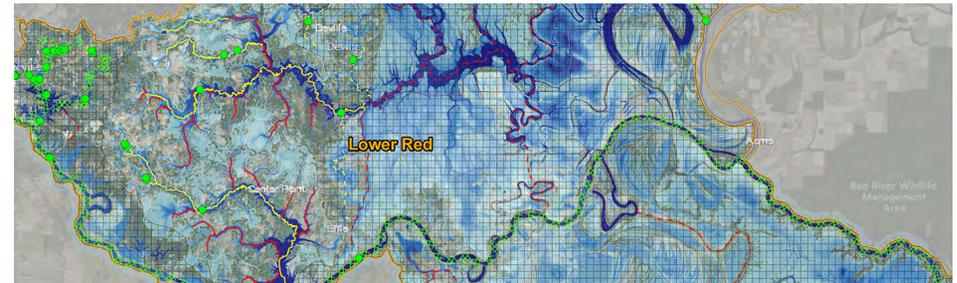
perform surveys under water using SCUBA methods to complete these activities. Performing habitat assessments is a typical due diligence job function we perform. Additionally, we have several ecologists with SCUBA certification who routinely perform mussel surveys and oyster assessments, including for Louisiana Coastal Protection and Restoration Authority (CPRA). We also have side scan sonar to assist with those surveys where appropriate.

Our approach and methodology involves a similar stepwise effort and schedule and follows DOTD requirements and standards.

1. First, we would perform desktop analysis and literature reviews on the species of interest. In particular, it is important to identify potential Conservation Measures and BMPs that the project could include during construction or operation to avoid and minimize likelihood of impacts. If any surveys are required, they would also be performed (however, if a BA is requested, it is usually because the potential presence of a species or its habitat is assumed – and survey may not be necessary). The BA has specific reporting requirements which we follow.
2. Usually, development of the BA involves more agency coordination than most agency authorizations. Our team of experts are well versed in working with the agencies to streamline the process and confirm all parties involved in the review and approval process understand any critical items or issues and are in agreement with our approach before the final deliverables are generated for agency approval.
3. Our approach and methodology to surveys would include a desktop survey and literature review to ensure a thorough understanding of what constitutes habitat and proper survey methodology.
4. GIS would also be used as part of the survey or habitat assessment. Some habitat assessments can be fully desktop based, where a spatial model is developed from GIS spatial data and model outputs to determine potential habitat occurrence. Or more simply, use of high resolution aerial imagery can sometimes also be used to determine the presence of habitat.
5. If fieldwork is necessary, the PM and Technical Lead will coordinate access, traffic, and safety requirements with DOTD personnel. Field crews will report back with the necessary data to complete the assessment and maintain field notes and records as described in the section below “Fieldwork and Reports.”

6. Reporting and writing of the results and findings follows.

7. Finally delivery of the report, supporting data, and a debrief meeting of the findings with appropriate stakeholders.



Environmental Compliance

Most projects almost always require consideration of potential impacts to critical threatened and endangered (T&E) species habitat, waters of the U.S. including wetlands, and cultural resources. This is necessary to verify compliance with the Clean Water Act, Endangered Species Act, and the National Historic Preservation Act. Our team of environmental scientists, engineers, geologists, Geographical Information Specialists (GIS) experts, cultural resource specialists, hazardous materials and remediation specialists, and planners, are experienced at collaborating to confirm environmental regulatory compliance (including avoidance and minimization) when developing and executing projects.

Much of our environmental compliance work cannot be decoupled from state or federal funding. In these circumstances, demonstration of environmental compliance is paramount for release of funds. In these instances, National Environmental Policy Act (NEPA) becomes the primary environmental regulatory compliance requirement. We are experienced at preparing documentation necessary for project coverage under categorical exclusions (CEs) as well as more sophisticated NEPA compliance documentation including environmental assessments (EAs) and environmental impact statements (EISs). For example, we are currently involved with several NEPA actions, and several EAs for state and federal actions.

18. Approach and Methodology:

“We would like to take the time to acknowledge the exceptional performance of Brad and Stephanie [FNI] during these kickoff meetings with site visits. We were impressed that even though these meetings were long and continued for three days, Brad and Stephanie helped facilitate these meetings in such a way that we obtained necessary information from stakeholders. Both Stephanie and Brad connected well to our team at DOTD and stakeholders. They gathered crucial information from legislatures, water resource engineers, dam safety engineers, lake commissions, wildlife and fisheries and other attendees. Even though it seemed that the meetings were a bit excessive being scheduled so close together, Brad and Stephanie were diligent to communicate well with all the stakeholders and get necessary input from the attendees from the first to the last meeting. Brad and Stephanie engaged with the stakeholders and collected important information from the site visits, as well. They both worked tirelessly during these meetings, and we are quite thankful for their efforts.”

– Lillie Carpenter, PE, Dam Safety Project Manager, DOTD

Coordination

Coordination between agencies and stakeholders, including the contractor, is key to the success of any project. In the case of permitting and environmental services, this is especially true because of the complexity that inter-agency communications, processes, and permissions present. At FNI, we value personal relationships between our project managers and clients, and we fully support open lines of communication so that agency personnel are able to clearly communicate their expectations to the project team.

Our approach and methodology to agency coordination includes an inter-agency kickoff meeting when appropriate; regular progress reports at intervals determined by the client, project complexity, and timeline; and a findings review when necessary that includes all agency personnel involved in the process. FNI employs a documentation and review process that has demonstrated excellence in past performance of complex permitting and assessment projects for small- and large-scale infrastructure projects. This process ensures that all parties are involved and up-to-date with the latest information on the schedule and findings of a project.

Fieldwork and Reports

Any successful environmental services program must include a highly skilled and robust field team capable of collecting field data efficiently and accurately, often in difficult and harsh conditions. FNI has a dedicated field team that has proven time and time again that we can deploy a crew rapidly across a wide

geography to meet tight schedules. We do this with up-to-date technologies and expert scientists who are specialists in their field of study, and we do this for a variety of environmental services and needs.

All contracted work requires some level of reporting and we develop anything from a technical memorandum for a small project or internal due diligence to a several volume EIS for a federal action. At the end of any project, the final products and reports that we generate are supported with detailed field notes, raw GPS data, photographs, and data sheets. These documents become addendums to the reports and provide confirmation of findings.

Our approach and methodology to agency fieldwork and reports includes coordination with permitting agency and stakeholders on schedule and timeline, coordination with DOTD to approve fieldwork inside right-of-ways if necessary, execution of fieldwork, data processing if necessary, report writing, quality control of findings, findings review meeting with all involved stakeholders, comment period, final report and data package submission.



All electronic deliverables will be made available as PDF files and transmitted via an agreed upon method (e-mail, jump drive or secure file transfer).

FNI utilizes the latest advances in Geographic Information Systems (GIS) and Computer Automated Drafting (CAD) software to optimize data collection, manage assets, and prepare graphical exhibits and drawings to effectively communicate with a variety of stakeholders including LADOTD, other agencies, or residents. We have proven ourselves to LADOTD by providing GIS and CAD products in support of different service areas. Our staff are proficient with ArcGIS Pro, ArcGIS Desktop, Collector for ArcGIS, Survey123, Trimble Pathfinder, ERDAS, photogrammetry and LiDAR applications, AutoCAD Civil 3D, and Bentley MicroStation, among others.



19. **Workload:**

For all contracts where a firm on the team is a prime consultant or sub-consultant and where a) the consultant selection was made by DOTD, and b) a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

- 1) one of the team’s firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

| Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE | Past Performance Evaluation Discipline(s) * | Contract Number and State Project Number | Project Name | Remaining Unpaid Balance** |
|--|---|---|--|----------------------------------|
| FNI | Other | 2000603331 | LWI Region 2 Modeling - Task Order 2 | \$1,792,399 |
| FNI | Other | 2000630828 | LWI Region 2 Modeling - Task Order 3 | \$3,166,269 |
| FNI | Other | 2000726065 | TO1 - Bayou Cocodrie Structure Modification | \$105,458 |
| FNI | Other | 2000727640 | TO2 - Turkey Creek Infrastructure Hardening | \$101,988 |
| FNI | Other | 2000727647 | TO3 - Black Bayou Hardening & Runoff Retention | \$128,529 |
| FNI | Other | 2000727671 | TO4 - Caney Lake Flood Surcharge Management | \$149,483 |
| FNI | Other | 2000727723 | TO5 - Iatt Lake Drawdown Improvements | \$98,563 |
| Sustainable Design Solutions, LLC | Road | TBD | DOTD Road Design for Safety IDIQ | N/A |

* The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. Do not round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE “REMAINING UNPAID BALANCE” COLUMN BLANK IS NOT ACCEPTABLE.

20. **Certifications/Licenses:**

If the advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.

21. **QA/QC Plan:**

If the advertisement requires submission of a QA/QC plan, include it here. Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.

22. **Sub-consultant information:**

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank

| Firm Name (Name must match as registered with Louisiana's Secretary of State) | Address | Point of Contact and email address | Phone Number |
|--|--|---|--------------|
| Sustainable Design Solutions, LLC | 635 Main Street, Studio 1 Baton Rouge, LA 70801 | Kodi Guillory, PE kguillory@sustainabledes.com | 225-939-5368 |

23. **Location:**

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement.



Mission

Innovative approaches ...
Practical results ...
Outstanding service

Vision

Be the firm of choice for
clients and employees

Values



FREESE AND NICHOLS

LEADS

-  **L** LEARN CONTINUOUSLY
-  **E** ENGAGE AS FAMILY
-  **A** ACT WITH INTEGRITY
-  **D** DELIVER QUALITY
-  **S** SERVE ALWAYS



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