



Statement of Qualifications

CONTRACT NOS. 4400027474 AND 4400027480

IDIQ Contracts for Environmental Permitting and Biological Sciences Statewide

Submitted: August 22, 2023




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)	G.E.C., 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.0001917
6. Prime consultant mailing address	8282 Goodwood Blvd., Baton Rouge, LA 70806
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8282 Goodwood Blvd., Baton Rouge, LA 70806
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Bliss Bernard, PE, Vice President, (225) 612-4103, bbernard@gecinc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Laura Carnes, Senior Vice President, (225) 612-4287, lcarnes@gecinc.com
10. 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.	 <hr/> Signature above shall be the same person listed in Section 9: August 22, 2023 <hr/> Date:

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

11. 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.

Firm(s):

Southern Shores Engineering, LLC




Firm(s)' %

10%

12. Past Performance Evaluation Discipline Table

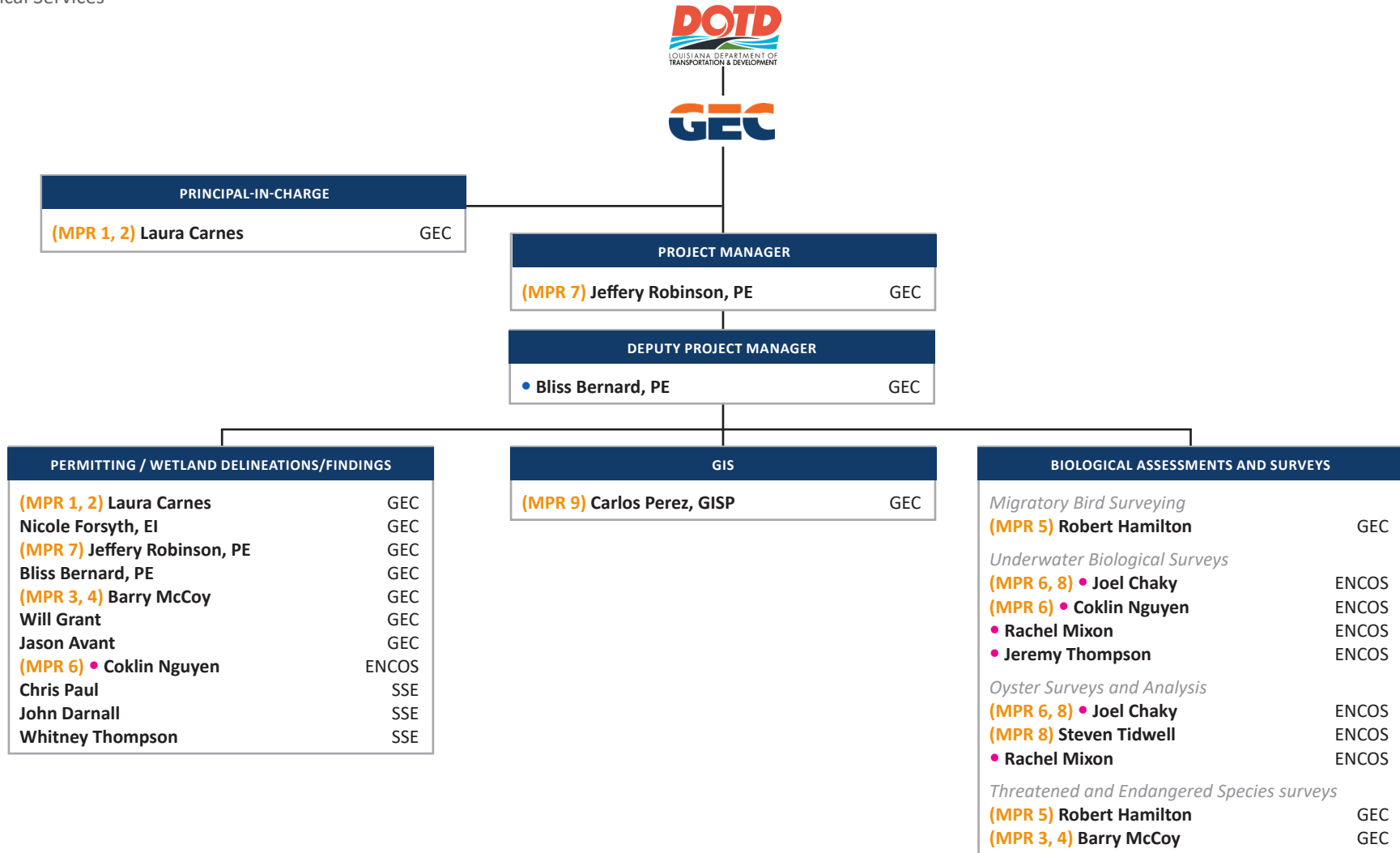
Past Performance Evaluation Discipline	% of Overall Contract	G.E.C., Inc. (GEC) (Prime)	ENCOS, Inc.	DBE FIRM	Each Discipline must total to 100%
				Southern Shores Engineering, LLC	
Environmental	100%	80%	10%	10%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	100.00%	80%	10%	10%	100%

13. Firm Size

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
G.E.C., Inc. 	Supervisor - Eng	2	19
	Environmental Pro	2	5
	Enviromental Manager	2	2
	GIS Analyst	1	1
	Biologist / Wetlands	2	2
ENCOS, Inc. 	Biologist/Wetlands	1	1
	Principal	1	1
	Professional	5	5
Southern Shores Engineering, LLC 	Engineer	2	2
	Engineer Intern	1	1
	CADD Drafter	1	1

14. Organizational Chart

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 IDIQ Contracts for Environmental Permitting and
 Biological Services













LEGEND

- GEC G.E.C., Inc.
- SSE Southern Shores Engineering, LLC
- ENCOS ENCOS, Inc.

- (#) Fulfills MPR
- Certified Diver
- work zone training

15. Minimum Personnel Requirements

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	Laura Carnes		N/A	N/A	N/A
2	Laura Carnes		N/A	N/A	N/A
3	Barry McCoy		Degree in Wildlife Conservation	N/A	N/A
	Will Grant		Degree in Biology	N/A	N/A
4	Barry McCoy		Degree in Wildlife Conservation	N/A	N/A
5	Robert Hamilton, Jr.		Degree in Biology	N/A	N/A
6	Joel Chaky		N/A	N/A	N/A
	Coklin Nguyen		N/A	N/A	N/A
7	Jeff Robinson, PE		PE No. 29322 (Civil)	Louisiana	03-31-2025
8	Joel Chaky		N/A	N/A	N/A
	Steven Tidwell		N/A	N/A	N/A
9	Carlos Perez, GISP		GISP No. 161073	US	July 2024

Section 16


GEC Team Key Personnel with Respect to Scope of Work Items

Scope of Work PERMITTING	Jeffrey Robinson, PE Project Manager	Nicole Forsyth, EI Environmental Scientist	Laura Carnes Principal, Environmental Scientist	Barry McCoy Wetland Delineator, Biological Assessment
I USACE Nationwide Permits	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP, F, G
II USACE Individual Section 404 Permits	P, Q, S, C, PR, MP	P, Q, S, C, PR, M P	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP, F, G
III LA Department of Natural Resources Coastal Use Permits (CUP)	P, Q, S, C, PR	P, Q, S, C, PR	P, Q, S, C, PR	P, Q, S, C, PR, F, G
IV U.S. Coast Guard Bridge Permits	P, Q, S, C, PR	P, Q, S, C, PR	P, Q, S, C, PR	F, G
V LA Department of Wildlife and Fisheries Scenic Stream Permits	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP, F, G
VI Levee Board Permits	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP, F, G
VII Wetland Delineation/Findings	Q	Q	Q	P, Q, S, C, PR, MP, F, G
VIII Biological Assessments	Q	Q	Q	P, Q, S, C, PR, MP, F, G
OTHER PERMITTING				
LA DEQ Section 401	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	F, G
LA DEQ Section 402	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	C, R, F, G
USACE Section 408	Q	P, Q, S, C, PR, MP	P, Q, S, C, PR, MP	F, G


KEY: P = Prepare R = Permit Reporting Q = QA/QC MP = Mitigation Planning S = Submit F = Fieldwork C = Permit Compliance G = GPS/GIS




16. Staff Experience

FIRM EMPLOYED BY G.E.C., Inc.			
NAME	Laura Carnes	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	13
TITLE	Senior Vice President, Coastal, Environmental & Water Resources	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	3
DEGREE(S) / YEARS / SPECIALIZATION	B.S. / 1993 / Psychology; M.S. / 2002 / Geography		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Principal-in-Charge, Permitting		
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Ms. Carnes is an Environmental Professional with more than 16 years of experience preparing Phase I Environmental Site Assessments (ESAs), Environmental Impact Statements (EISs), and Environmental Assessments (EAs) for private and governmental clients including the Baton Rouge Area Chamber of Commerce (BRAC), Baton Rouge Parks and Recreation (BREC), CPRA, HUD, USACE, FERC, FEMA, US Forest Service, and FHWA-DOTD. Ms. Carnes' has completed the training course "ASTM International Environmental Site Assessments for Commercial Real Estate" and is also trained in HAZWOPER in accordance with 29 CFR 1910.120. She has performed numerous assessments to evaluate the presence of hazardous substances and petroleum products in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Her experience also includes preparing EAs and EISs in compliance with the National Environmental Policy Act (NEPA). Through the NEPA process, she has ensured project compliance with applicable laws, regulations, and executive orders for more than 30 projects, particularly as related to ESA, E.O. 12898, Section 106 of the NHPA, E.O. 11990, and USACE Section 10/404/and 408 permitting. She has completed the NHI Course NEPA & the Transportation Decision-Making Process and the Section 106 Course & Practical Conflict Management in Environmental Issues (NHI Course #142060).</i></p>		
01/14-05/17 SECTION 17 PROJECT	<p>H.004987 U.S. HIGHWAY 190/COLLINS BOULEVARD WIDENING (US-190B – LA 25) ENVIRONMENTAL ASSESSMENT: Covington, LA. NEPA Specialist- Ms. Carnes prepared the EA (with FONSI) and Line, and Grade Study to widen approximately 3 miles of U.S. 190 in Covington, a project that included the construction of new bridges across the Bogue Falaya River. Notably, the project proposed the elimination of all signalized intersections within the project corridor and replacement with roundabouts. Ms. Carnes led the development of the EA, technical reports, and Solicitation of Views coordination with resource agencies to assess project impacts on wetlands, socioeconomic, navigation, floodplains, and other aspects of the environment.</p>		
01/14-05/16	<p>H.004983 U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA. NEPA Specialist- Ms. Carnes prepared an EA for NORPC in compliance with FHWA NEPA requirements for the widening of US Highway 11 in Slidell, LA. Her tasks included preparation of the Environmental Assessment (with FONSI) and line and grade report, interagency coordination and analyses of project impacts on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and endangered or threatened species and their habitat. Required environmental studies included, among other tasks, wetlands, threatened and endangered species, floodplains, and a Phase I ESA.</p>		
02/17-01/23 SECTION 17 PROJECT	<p>THIRD PARTY ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD), CPRA: Plaquemines, LA. Project Manager - Ms. Carnes served as project manager on the GEC Team leading development of a Third-Party EIS for the MBSD Project. Ms. Carnes served as the technical reviewer, author, and led coordination with hydrologic, water quality, cultural resources, and navigation subject-matter experts. Ms. Carnes led the public comment-response process and cumulative impacts analysis. The EIS was prepared under the direction of USACE, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. The Third-Party EIS assessed the potential negative and beneficial impacts associated with the construction and operation of the project and was consistent with the DWH PDARP/PEIS and associated ROD. This highly publicized and controversial project included seven cooperating agencies, 10 commenting agencies, and 11 consulting tribes for the EIS and was placed on the Permitting Dashboard under the FAST-41 process. LA Gov No. 4400010455, DNR No. 2503-16-23.</p>		


FIRM EMPLOYED BY G.E.C., Inc.	
NAME	Laura Carnes <i>Continued Resume</i>
2006-2011	SUPPLEMENTAL EIS AND DMMP FOR THE CALCASIEU RIVER AND PASS: Calcasieu and Cameron Parishes, LA. <i>Project Manager</i> - Developed a DMMP and SEIS for the placement and BUDM from the Calcasieu River and Pass. Formulated alternatives through an interagency process, consulted with numerous federal and state resource agencies, organized public meetings, and performed WVAs in coordination with the USFWS for the BUDM to restore subsided coastal marsh. The SEIS document received the highest rating from the EPA (“Lack of Objections”) and earned a Performance Rating of Exceptional from CEMVN.
01/11-06/14	US 190 COLLINS BLVD. RIGHT TURN LANE AT LEE ROAD: Covington, LA. <i>NEPA Specialist</i> - GEC designed the extension of the existing U.S. Hwy. 190 (Collins Blvd.) northbound right turn lane to the LA Hwy. 437 (Lee Road) intersection, from 200-ft. to approximately 2,300-ft. Ms. Carnes played a lead role in achieving NEPA compliance for the project in accordance with CEQ, FHWA, and LADOTD regulations. Ms. Carnes implemented Solicitation of Views coordination with agencies, assessed environmental and socioeconomic impacts for the EA, developed the report, facilitated public meetings, and responded to public comments.
02/14-12/15	U.S. 190 BRIDGE OVER HIGHWAY 21 AND BOGUE FALAYA RIVER, ENVIRONMENTAL ASSESSMENT: St. Tammany Parish, LA. <i>NEPA Specialist</i> - Ms. Carnes prepared the Environmental Assessment for this project aimed to improve traffic flow efficiency through the primary north-south roadway corridor in Covington, LA. Her tasks included development of the NEPA document, interagency coordination and analyses of project impacts on wetlands , land use, and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and endangered or threatened species and their habitat. The estimated \$45 million, 2.5-mile long project replaces (or supplements) the existing two-land bridge and road with a divided four-lane.
03/11-03/13	REVISED PROGRAMMATIC EIS FOR MORGANZA, LA, TO THE GULF OF MEXICO HURRICANE PROTECTION PROJECT: Terrebonne and Lafourche Parishes, LA. <i>Project Manager</i> - Prepared the EIS for this CEMVN civil works project aimed to reduce the risk of flooding and coastal erosion due to storm surges. Coordinated closely with CEMVN staff to develop and clearly describe alternatives and assess the direct, indirect, and cumulative social and environmental impacts of the alternatives. Earned a Performance Rating of Exceptional.
09/16-01/17	PORT CAMERON EA: Cameron Parish, LA. <i>Project Manager</i> - Served as lead author and manager of this EA to construct a port along the Calcasieu Ship Channel in compliance with all applicable environmental statutes, including, but not limited to, NEPA, the Endangered Species Act, the Fish and Wildlife Coordination Act, the Federal Farmland Protection Act, and the Clean Water Act.
01/17-Present	GNOEC, LAKE PONTCHARTRAIN CAUSEWAY: St Tammany and Jefferson Parishes, LA. <i>NEPA Specialist</i> - Ms. Carnes serves as NEPA Specialist for improvements to the Causeway. She provides regulatory stakeholder solicitation, environmental field investigations and assessments, and NEPA documentation. Several projects have been documented as Categorical Exclusions (CE) since 2011. GEC documented these CE projects in accordance with the DOTD’s Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes. GEC prepared preliminary Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using DOTD’s Environmental Determination Checklist. GEC prepared and conducted regulatory Solicitations of Views, prepared responses to regulatory comments/guidance, prepared wetland/water body survey reports and prepared Coastal Use Permit applications. Ms. Carnes also completed a bridge permit amendment application for US Coast Guard.
01/20-02/20	PHASE I ESA GREENWOOD COMMUNITY PARK & BATON ROUGE ZOO: East Baton Rouge Parish, LA. <i>Environmental Professional</i> - GEC was responsible for investigating the property in order to identify recognized environmental conditions (RECs) within and adjacent to the property. Ms. Carnes completed the following investigation procedures in compliance with ASTM E 1527-13: research of available federal, state, and local environmental databases for potential REC sites on, or within a specified distance of, the property; reviews of historical aerial photographs, Sanborn® Fire Insurance Maps, USGS topographic maps, and/or published soils and geologic information; interviews with state and local government agency representatives and/or persons knowledgeable of the property regarding documented inspections, violations, incidents, spill response, or past uses of therein; and preparation of a written report that identifies whether the property contains potential RECs and whether or not conditions warrant further investigation.

FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Jeffery Robinson, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	27
TITLE	Civil Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	11
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 1995 / Civil Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		29322 / Louisiana / 03-31-2025	
YEAR REGISTERED	2001	DISCIPLINE	Professional Engineer, Civil
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Project Manager, Permitting	
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Mr. Robinson has over 38 years of civil/environmental engineering project management experience and provides planning, coordination, and consulting services for Federal & state regulatory compliance issues for numerous governmental & private sector clients. He is widely respected for his thorough & highly objective approach to environmental and transportation, and geotechnical issues as they relate to permitting, design, federal & state compliance, wetlands, hazardous materials, & other critical issues surrounding major infrastructure projects. His experience includes 27 years of permitting & compliance with USACE, US Coast Guard, & Louisiana DEQ. As Environmental Program (and Public Involvement) Manager, has helped LADOTD complete 37 projects exceeding \$5-Billion in construction costs with on-time lettings. He has completed NHU Course No. 142005 – National Environmental Policy Act (NEPA) and Transportation Decision Making.</i></p>		
06/02-06/12 SECTION 17 PROJECT	<p>700-99-0266 / TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM, US 165, 167, 425, AND 171, AND LA 15 LADOTD: Statewide, Louisiana. Environmental Project Manager - The program addressed the construction of more than 260 miles of new highway including 74 new bridges on existing and new alignments throughout Louisiana on an aggressive 10-year schedule subsequently accelerated to eight years. Environmental program functions included regulatory coordination and environmental documentation, permitting, and mitigation with, among other agencies, the U.S. Coast Guard, three U.S. Army Corps of Engineers Districts, numerous parish floodplain administrators, and the LA Department of Wildlife and Fisheries (18 of the 74 bridges crossed LA Scenic Streams). Mr. Robinson hosted a stakeholder outreach meeting in Baton Rouge attended by representatives from LADOTD, USCG, the three Corps Districts, and LDWF to develop standard operating procedures to assess, document, permit, and mitigate the new bridges using a standardized, universal process. Mr. Robinson completed all environmental documentation and permitting in five years, and all projects let in 8 years (2 years early). The program required National Environmental Policy Act (NEPA) evaluations and processing necessary to procure Federal and other environmental permits required for construction and included the several program areas, including American Society for Testing and Materials (ASTM) Standard E 1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process to identify more than 200 recognized environmental condition (REC) sites, including active and inactive UST sites, within and adjacent to required rights-of-way (ROW).</p>		
02/07-04/09 SECTION 17 PROJECT	<p>HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA. Environmental Engineer - GEC conducted an ESA and wetland delineation. Mr. Robinson oversaw production of the wetland delineation, permitting, and ESA in accordance with the scope and limitations of ASTM E 1527 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. In order to characterize Recognized Environmental Conditions (REC) sites for the project GEC: (1) reviewed federal, state, and local environmental databases; (2) conducted historical research; (3) interviewed pertinent personnel; and (4) performed a site investigation. Assessment revealed no recognized environmental conditions (RECs) on or in project vicinity.</p>		
02/17-01/23 SECTION 17 PROJECT	<p>THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD) PROJECT: Plaquemines Parish, LA. Principal - Mr. Robinson served as project principal on the GEC Team leading development of a Third-Party EIS. The EIS was prepared under the direction of USACE, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. Mr. Robinson served as the lead author of the transportation sections of the EIS. The Third-Party EIS assessed the potential negative and beneficial impacts associated with the construction and operation of the project and was consistent with the DWH PDARP/PEIS and associated ROD. This highly publicized and controversial project included seven cooperating agencies, 10 commenting agencies, and 11 consulting tribes for the EIS and has been placed on the Permitting Dashboard under the FAST-41 process.</p>		


FIRM EMPLOYED BY G.E.C., Inc.	
NAME	Jeffery Robinson, PE <i>Continued Resume</i>
06/95- Present SECTION 17 PROJECT	GREATER NEW ORLEANS EXPRESSWAY COMMISSION (GNOEC): New Orleans, LA. <i>Environmental Engineer</i> - Mr. Robinson has provided environmental program management oversight. Since 1995, he has prepared Programmatic and CEs for maintenance, repair, & improvement projects requiring coordination & permitting by U.S. Coast Guard. GEC documented these projects in accordance with the LADOTD's Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes. GEC prepared preliminary Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using LADOTD's Environmental Determination Checklist.
11/22-Present	PORT OF NEW ORLEANS, ENVIRONMENTAL CONSULTING SERVICES IN SUPPORT OF LOUISIANA INTERNATIONAL (LIT) PLANNING AND PERMITTING: New Orleans, LA. <i>Biological Resources Manager and Hazardous, Toxic, and Radiological Waste (HTRW) Lead</i> - GEC is serving as the prime consultant in developing the Environmental Assessment for the new LIT Port in Violet, LA on behalf of the Port of New Orleans. The Port of New Orleans is investing in a new \$1.8 billion container terminal project—The Louisiana International Terminal – to serve vessels of all sizes, providing goods to support Louisiana's homes and businesses. GEC is preparing a detailed impact analysis for the proposed terminal in accordance with the National Environmental Policy Act (NEPA) and is conducting a range of studies addressing concerns raised by the public. GEC is responsible for the overall development of the Environmental Assessment (EA) in order to secure necessary permits and permissions to construct the proposed LIT in St. Bernard Parish. As Biological Resources Manager, Mr. Robinson manages subject matter experts to ensure impacts to the following natural environment resources are properly assessed: wetlands, coastal resources, vegetation, terrestrial wildlife, and threatened and endangered species. As HTRW Task Lead, Mr. Robinson assesses contaminated site impacts to the human and natural environments in accordance with ASTM E1527 Phase I Environmental Site Assessment (ESA) requirements, ASTM E1903 Phase II ESA investigation findings, and hazardous materials surveys (asbestos, lead-based paint, regulated wastes).
01/14-05/17 SECTION 17 PROJECT	H.004987 / U.S. HWY. 190 / COLLINS BOULEVARD WIDENING (US-190B – LA 25): Covington, LA. <i>Environmental Project Manager</i> - Mr. Robinson's responsibilities included project management for the preparation of an EA with FONSI for the widening of approximately 3 miles of U.S. Hwy 190, a project which will include the construction of new bridges across the Bogue Falaya River, in accordance with DOTD, FWHA, and NEPA requirements. GEC's services included development of a Purpose and Need statement, agency coordination / Solicitation of Views, and preparation of environmental documentation. The EA addressed REC sites, wetlands mitigation and permitting, Sections 4(f) and 6(f) consultations, floodplains, and threatened and endangered species consultations. He was responsible for this NORPC-led effort to improve traffic flow efficiency through the primary north-south roadway corridor and oversaw all environmental analyses, surveys, and permitting. "Jeff Robinson and his group at GEC worked through numerous project changes and timeline starts and stops with a "can-do" attitude. GEC handled and coordinated issues that arose, including changes in right-of-way requirements and additional landowner outreach. Excellent coordination with DOTD Environmental." - Feedback from LADOTD PM after completion of the project
01/14-05/16	H.004983 / U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN-SPARTAN DRIVE): Slidell, LA. <i>Environmental Project Manager</i> - Mr. Robinson's responsibilities included project management for the preparation of an Environmental Assessment (EA) with Finding of No Significant Impact (FONSI) for the widening of approximately 2.8 miles of U.S. Hwy 11 in Slidell in accordance with DOTD, FHWA, and NEPA requirements, a project which also included plans to raise the highway at its intersection with a flood protection levee. GEC's services included the development of a Purpose and Need statement, agency coordination / Solicitation of Views, and the preparation of environmental documentation. Among other items, the EA addressed REC sites, wetlands mitigation and permitting, Sections 4(f) and 6(f) consultations, floodplains, and threatened and endangered species consultations. The highway was heavily developed to one side and bordered on the other by a waterway. Initial 4-lane build proposals would have negatively impacted residential and commercial properties, and no cost-effective, additional right-of-way was available to construct additional lanes. Mr. Robinson expedited stakeholder and public input to identify alternatives that could be constructed within existing state ROW. The Preferred Alternative increased capacity and reduced congestion without the acquisition of additional ROW. He oversaw all environmental analyses, surveys, and permitting for this project.
02/20-Present	H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. <i>Environmental Lead</i> - Mr. Robinson is Environmental Lead for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr Flyover Ramp Design-Build Project, including preparation of the project's Storm Water Pollution Prevention Plan (SWPPP). Mr. Robinson prepared the SWPPP in accordance with General Permit for Storm Water Discharges Related to the Louisiana Department of Transportation and Development's Statewide Construction and Maintenance Activities Resulting in Land Disturbance (Permit LAR600000). Mr. Robinson also oversaw the preparation of wetlands reports, environmental mitigation, tree impacts plan, and all environmental permitting.

FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Bliss Bernard, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	1
TITLE	Vice President Environmental / Business Development	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	8
DEGREE(S) / YEARS / SPECIALIZATION	B.S. / 2014 / Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	42709 / Louisiana / 03-31-2025		
YEAR REGISTERED	2018	DISCIPLINE	Professional Engineer, Civil
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Deputy Project Manager		
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Mrs. Bernard is a licensed Professional Engineer having over 9 years of experience in project management, engineering, environmental, water resources, transportation, public outreach, and planning. She has extensive knowledge, having 9 years of experience with National Environmental Policy Act (NEPA) regulations, and she has served as the Project Manager on numerous Environmental Assessments and Environmental Impact Statements for a variety of federal and state agencies, such as LADOTD, FHWA, USDA, NRCS, USACE, NPS, NRDA, LATIG, and CPRA. Her successful experience with various agencies and multi-disciplinary environmental studies brings a unique expertise, broader knowledge, and the ability to manage a range of NEPA Projects. She has completed the ATSSA Traffic Control Technician, Traffic Control Supervisor, and Certified Flagger training courses, NHI Course 142005 NEPA & the Transportation Decision-Making Process, the LADOTD Highway Safety Manual Course, and the LADOTD TEPR Training Class Modules 1, 2, and 3.</i></p>		
11/19-06/22	<p>MID-BRETON ENVIRONMENTAL IMPACT STATEMENT: Plaquemines Parish, LA. Professional Engineer/Deputy Project Manager - Mrs. Bernard served as the deputy project manager and contributing author for the Mid-Breton Environmental Impact Statement which will be prepared to disclose and analyze the significant environmental impacts of the project as required under the National Environmental Policy Act (NEPA). Mrs. Bernard served as a sub-consultant to GHD on this project. The Mid-Breton Sediment Diversion project is proposed to deposit sediment and benefit marshes, which will maintain almost 16,000 acres of new land in the Breton Basin during its first 50 years of operation. The EIS analyzed the proposed projects impacts to the social, biological, and natural environments. Mrs. Bernard assisted in the data gap analysis, research, GIS development, and developed portions of the EIS Report.</p>		
05/17-05/20	<p>H.001271 CANE RIVER BRIDGE CHURCH STREET ENVIRONMENTAL ASSESSMENT: Natchitoches Parish, LA. Project Manager - Mrs. Bernard served as the Prime consultant's Project Manager for the Environmental Assessment of the Cane River Bridge in Natchitoches, LA. She provided the planning, public outreach, and engineering and environmental services necessary to gauge public support and document information necessary for LADOTD and FHWA to reach an environmental decision as required by NEPA. She analyzed project impacts by coordinating and developing various technical studies, including: line and grade study, GIS mapping, wetland delineation and threatened and endangered species study, phase 1 environmental site assessment, air and noise impact studies, and cultural resources surveys. She prepared numerous reports and presentations and directed all activities for numerous stakeholder meetings, solicitation of views, public meetings, and public hearings. Through the compilation of all studies required by NEPA and public and agency involvement, Mrs. Bernard developed the Final EA, the FONSI and the first known LADOTD and FHWA "net benefit determination" for Section 4(f) properties in the State of Louisiana. FHWA indicated the FONSI document Mrs. Bernard developed will be used as a template for future FONSI's developed in partnership with LADOTD. The Cane River Project received a LADOTD Environmental rating score of 4.8/5.0. Some of the comments as a part of the rating included, "Bliss was continuously proactive in handling all issues that were uncovered throughout the process. Bliss was pre-emptive in identifying solutions. Deliverables were always on time pending DOTD or FHWA reviews. Communication with DOTD was above and beyond on a regular basis, relevant, and informative. Extremely cooperative with DOTD; adapts to changes in project issues through innovation; cooperates with all parties and creatively works within scope of services to resolve issues. Consultant was key in resolving sub-consultant issues throughout the NEPA process."</p>		
06/14-05/16	<p>H.004985 I-12 TO BUSH ENVIRONMENTAL IMPACT STATEMENT: St Tammany Parish, LA. Project Manager - Mrs. Bernard was responsible for various tasks such as public outreach, environmental documentation, line and grade report, section 4(f), technical studies, and developing the draft and final EIS as required by NEPA in coordination with LADOTD, FHWA, and USACE. Mrs. Bernard led the sub-consultant team to complete a 3rd party EIS for a proposed 4-lane highway from Bush, Louisiana to I-12.</p>		


FIRM EMPLOYED BY G.E.C., Inc.	
NAME	Bliss Bernard, PE <i>Continued Resume</i>
05/17-03/22	H.009932 US 80 WIDENING: VANCIL ROAD TO WELL ROAD ENVIRONMENTAL ASSESSMENT: Ouachita Parish, LA. <i>Project Manager</i> - Mrs. Bernard served as the Prime Consultant's Project Manager for the Environmental Assessment of the US 80 Widening Project. She led all efforts, assisting LADOTD and FHWA to formulate the EA in accordance with NEPA. She analyzed project impacts by coordinating and assisting in developing various technical studies, including the line and grade study, prepared numerous reports, presentations, mailers, and other documents for stakeholder and community outreach, directed all activities for numerous stakeholder meetings, SOVs, public meetings, and hearings. Ms. Bernard hosted one of the first LADOTD virtual public meetings following the COVID-19 pandemic. Being one of the first public meetings held completely online, many of the standard procedures for the meeting had to be adapted for a social-distance-friendly platform. Through the compilation of all studies required by NEPA and public and agency involvement, Mrs. Bernard developed the Draft Environmental Assessment Report.
01/20-11/21	H.002297 LA 37 (SULLIVAN ROAD TO LIBERTY ROAD): East Baton Rouge Parish, LA. <i>Project Manager</i> - Mrs. Bernard served as the Project Manager and was the engineer of record for the LA 37 Stage 0 project. She was responsible for managing and providing all engineering, environmental, and planning services required to determine necessary improvements along the LA 37 (Greenwell Springs Road) corridor from Sullivan Road to Liberty Road in East Baton Rouge Parish. Mrs. Bernard served as the prime consultant for this Stage 0 feasibility study and environmental inventory. Mrs. Bernard was responsible for performing project research, establishing design criteria in accordance with LADOTD, overseeing concept development and evaluation for roadway alternatives, based upon a traffic study and was the engineer of record in preparing the Stage 0 Feasibility Study, NEPA Documents, and Environmental Inventory to examine the feasibility of improving mobility and operations of the corridor. She developed the final signed and sealed Stage 0 Feasibility Report including the Stage 0 Checklist, Environmental Checklist, roadway engineering plans, and the opinion of probable cost.
06/14-08/15	H.000758.2 WIDENING OF US 84 FROM HWY 772 TO JUST EAST OF HAIR CREEK BRIDGE EA: Lasalle Parish, LA. <i>Project Manager</i> - Mrs. Bernard was responsible for various tasks, such as: public outreach, environmental documentation, and technical studies as required by the NEPA on this Environmental Assessment for the proposed widening of US 84 on behalf of LADOTD and FHWA.
06/22-01/23	THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION PROJECT: Plaquemines Parish, LA. <i>NEPA Specialist</i> - Mrs. Bernard served as a NEPA Specialist and provided QA/QC on the project management team for the Mid-Barataria Sediment Diversion (MBSD) project. She assisted in the development of the cumulative impacts, water quality, and overall QC of the Environmental Impact Statement. The EIS was prepared under the direction of USACE to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the CWA, Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. The EIS assessed the potential negative and beneficial impacts associated with the construction and operations of the project. This highly publicized and controversial project included 7 cooperating and 10 commenting agencies, and 11 consulting tribes and was placed on the permitting dashboard under the FAST-41 process, receiving authorization in December 2022.
11/22-Present	PORT OF NEW ORLEANS LOUISIANA INTERNATIONAL TERMINAL ENVIRONMENTAL ASSESSMENT: Violet, LA. <i>Deputy Project Manager</i> - GEC is serving as the prime consultant in developing the Environmental Assessment for the new LIT Port in Violet, LA on behalf of the Port of New Orleans. GEC is responsible for the overall development of the EA to secure necessary permits and permissions to construct the proposed LIT in St. Bernard Parish. Mrs. Bernard is serving on the Project Management Team and is directly responsible for the oversight of the hydraulics/hydrology, transportation, and coastal resource sections of the report. She has assisted in the development of the data gap analysis and affected conditions and will be responsible for analyzing environmental impacts and authoring the respective sections.
02/18-12/21	H.006459 / RODDY ROAD/CHURCHPOINT ROAD ROUNDABOUT: Ascension Parish, LA. <i>Project Manager</i> - Mrs. Bernard served as the Project Manager on this project re-design. Due to funding restrictions, the project was not constructed in a timely manner, and the original submittals were updated to new standards. Mrs. Bernard developed the intersection study, NEPA documents, environmental categorical exclusion report, and hosted the public meeting. She assisted in updating all other prior plan documents in accordance with new LADOTD standards including geotechnical and pavement design, engineering and drainage plans, cost estimates, ROW maps, and bid and construction documents.


FIRM EMPLOYED BY G.E.C., Inc.			
NAME	Nicole Forsyth, EI	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6
TITLE	Environmental Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	14
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 2001 / Civil Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		19841 / Louisiana / 09-30-2023	
YEAR REGISTERED	2001	DISCIPLINE	Engineer Intern
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Permitting, Wetlands	
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Ms. Forsyth has over 20 years of experience in managing NEPA projects for various types of projects including transportation, DOD facilities, civil works, levees and dams, and regulatory projects. Her expertise is in the overall project management, and preparation and review of NEPA documents (EISs, EAs, CEs). Her expertise also lies in multi-agency permitting, noise/air studies, and Section 10/404/408 compliance. She served as an EI in LADOTD's Environmental Section for approximately 6 years, where she managed the environmental phase of numerous transportation projects. She has completed the NHI Course NEPA & the Transportation Decision-Making Process.</i></p>		
02/17-01/23 SECTION 17 PROJECT	<p>THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD): Plaquemines Parish, LA. Senior Project Manager - Ms. Forsyth served as the senior project manager on the GEC Team leading development of a Third-Party EIS for the MBSD Project being proposed by CPRA. The EIS was prepared under the direction of USACE, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. The Third-Party EIS assessed the potential negative and beneficial impacts associated with the construction and operation of the project and was consistent with the DWH PDARP/PEIS and associated ROD. This highly publicized and controversial project included seven cooperating agencies, 10 commenting agencies, and 11 consulting tribes for the EIS and has been placed on the Permitting Dashboard under the FAST-41 process.</p>		
10/15-05/17 SECTION 17 PROJECT	<p>H.004987 / US 190/COLLINS BOULEVARD WIDENING (LA 25-US 190B) ENVIRONMENTAL ASSESSMENT: Covington, LA. NEPA Specialist - Ms. Forsyth participated in the preparation of an Environmental Assessment (with Finding of No Significant Impact) and Line and Grade Study to widen approximately three miles of U.S. 190 in Covington. She assisted with the overall development of the EA report, technical reports, FONSI, and interagency coordination and analyses of project impacts on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and T&E species and their habitat.</p>		
10/15-05/16	<p>H.004983 / US HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA. NEPA Specialist - Ms. Forsyth prepared an EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA NEPA requirements for the widening of US Highway 11 in Slidell, LA. Her tasks included interagency coordination and analyses of project impacts on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and endangered or threatened species and their habitat. Required environmental studies included, among other tasks, wetlands, threatened and endangered species, floodplains, and a Phase I ESA.</p>		
2015-2016	<p>H.004273.5 I-49 CONNECTOR: Lafayette, LA. Environmental Professional - Ms. Forsyth prepared a Phase I ESA for the I-49 Connector. The Phase I ESA was performed in accordance with the ASTM E 1527-13 standard. Federal, state, and local environmental databases were reviewed, historical records were researched, pertinent persons were interviewed, and a site reconnaissance was performed. Recognized environmental conditions were determined during assessment and were provided in a Phase I ESA report.</p>		
2019	<p>LIVINGSTON PARISH AIRPORT DISTRICT (LPAD)/LIVINGSTON EXECUTIVE AIRPORT EA PUBLIC OUTREACH: Livingston, LA. Public Outreach Coordinator - Ms. Forsyth assisted LPAD with conducting the public outreach in accordance with FAA for the proposed project. This included all activities associated with preparing for and conducting a Public Information Open House (PIOH) in the project area.</p>		

FIRM EMPLOYED BY G.E.C., Inc.	
NAME	Nicole Forsyth, EI <i>Continued Resume</i>
01/17-Present SECTION 17 PROJECT	GNOEC, LAKE PONTCHARTRAIN CAUSEWAY: St Tammany and Jefferson Parishes, LA. NEPA Specialist - Ms. Forsyth serves as NEPA Specialist for improvements to the Causeway. She provides regulatory stakeholder solicitation, environmental field investigations and assessments, and NEPA documentation. Several projects have been documented as Categorical Exclusions (CE) since 2011. GEC documented these CE projects in accordance with the DOTD's Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes. GEC prepared preliminary Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using DOTD's Environmental Determination Checklist. GEC prepared and conducted regulatory Solicitations of Views, prepared responses to regulatory comments/guidance, prepared wetland/water body survey reports and prepared Coastal Use Permit applications.
08/06-03/07	LA 1/I-10 CONNECTOR ENVIRONMENTAL ASSESSMENT (FEDERAL HIGHWAY ADMINISTRATION/LOUISIANA DEPARTMENT OF TRANSPORTATION): West Baton Rouge Parish, LA. Project Manager - The LADOTD and FHWA proposed to develop a connector route between LA 1 and I-10 west of the Mississippi River in West Baton Rouge Parish. The connector would also include an additional crossing over the Intracoastal Waterway (ICWW). The EA analyzed the potential environmental impacts due to the proposed project. Ms. Forsyth managed day-to-day operations for this EA for the LADOTD and FHWA. She supervised contracted employees and reviewed all NEPA documents prepared by the contractors, co-hosted a public scoping meeting and hearing for the project, and ensured that the project was kept on time and within budget.
04/07-02/08	NOISE STUDY AND AIR QUALITY ANALYSIS, LA 22 ROAD WIDENING: St. Tammany Parish, LA. Project Manager - LADOTD and Greater New Orleans Expressway Commission proposed to widen LA 22 in St. Tammany Parish, Louisiana. Ms. Forsyth managed and prepared the noise study and air quality analysis for this proposed project. The noise study addressed the potential noise impacts from the proposed project. Ms. Forsyth used the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM) to model the noise impacts and possible noise barriers for the proposed project. She performed a field noise survey and all related data collection for the noise analysis including site visits, traffic counts and field measurements of actual noise levels. Ms. Forsyth also performed an air quality analysis to determine the conformity of the project and addressed the Section 4(f) issues associated with this project.
09/08-01/09	SUPPLEMENTAL EIS FOR THE INNER HARBOR NAVIGATION CANAL (IHNC) LOCK REPLACEMENT PROJECT (U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT): New Orleans, LA. Project Technical Assistant - This project required preparation of a supplemental EIS to describe changes in existing conditions after Hurricane Katrina and to analyze impacts from the recommended plan and alternatives on these existing conditions. Ms. Forsyth prepared the PowerPoint Presentation for the public hearing. Ms. Forsyth was also part of a team that addressed over 415 public and agency comments. The accelerated project schedule required a two-week turnaround of responses following closing of the public comment period.
2019	U.S. FOREST SERVICE SOCIA BRANCH TRAIL ENVIRONMENTAL ASSESSMENT: Grant Parish, LA. NEPA Specialist - Ms. Forsyth assisted the USFS in preparing for and facilitating public scoping meeting open houses within the project area. This included preparing graphics, handouts, venue coordination, and greeting the public. She also prepared a scoping analysis that categorized and analyzed over 100 public scoping comments that were received during the public outreach period.
2015-2017	HOUMA NAVIGATION CANAL DEEPENING PROJECT – SECTION 203: Terrebonne Parish, LA. NEPA Specialist - GEC prepared a Feasibility Report and Environmental Impact Statement (EIS) for the Houma Navigation Canal (HNC) Deepening Project under Section 203 of the Water Resources Development Act of 1986. Ms. Forsyth assisted in the development of the Final EIS, including assessment of impacts and compliance with environmental regulations. Contract No. DNR 2503-10-8, DNR 2503-13-42

FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Richard "Barry" McCoy	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	31
TITLE	Biologist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	1
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 1989 / Wildlife Conservation	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Wetlands / Biological Resources	
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Mr. McCoy has experience within the environmental resources field including wildlife hazard assessments, wetland delineations, threatened and endangered species surveys, Habitat Evaluation Procedures (HEP), preparation of numerous NEPA documents, environmental phase I site assessments (Phase I ESAs), and hazardous, toxic, and radioactive waste investigations. He has participated in a Basic Wetland Delineation class conducted by the Wetland Training Institute and a Wetland Plant Identification Workshop conducted by the Wetland Biogeochemistry Institute of Louisiana State University. He has also attended the Wetland Delineation Preparatory course for the Wetland Delineator Certification Program provided through the Wetland Training Institute. Other classes include a Habitat Evaluation Procedures Course, and a 40-Hour Waste Site Operations Course along with annual refresher courses.</i></p>		
01/02-12/10 SECTION 17 PROJECT	<p>LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA. Lead Field Biologist - Mr. McCoy was responsible for the completion of wetland delineations; threatened and endangered species surveys; and the required permit applications necessary for construction of approximately 250 miles of proposed highway right-of-way required for the highway expansion. He was responsible for preparing findings reports and submitting to the appropriate state and federal agencies for review and concurrence. Additionally, he assisted with Phase I Site Assessments (ESAs) within the right-of-way and Asbestos Inspections of structures impacted by the proposed construction.</p>		
02/07-04/09 SECTION 17 PROJECT	<p>HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA. Wetland Scientist - For this Green Light Plan project, GEC designed additional lanes and a raised median for Highland Road from Perkins Road to Airline Highway. Mr. McCoy conducted a wetland delineation in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. The results of the delineation were compiled in a formal report and submitted to the New Orleans District, Corps of Engineers for an approved Jurisdictional Determination.</p>		
01/14-05/17 SECTION 17 PROJECT	<p>H.004987 US 190/COLLINS BOULEVARD WIDENING (LA 25 TO US 190B) ENVIRONMENTAL ASSESSMENT: Covington, LA. Wetland Scientist - Mr. McCoy was responsible for conducting a wetland delineation, preparing a wetland report, and performing T&E species analysis for this FHWA LADOTD Environmental Assessment Project.</p>		
01/14-05/16	<p>H.004983 U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA. Wetland Specialist - Mr. McCoy served as a wetland specialist for this EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA LADOTD NEPA requirements for the widening of US Highway 11 in Slidell, LA. He analyzed impacts to wetlands, threatened and endangered species, floodplains, and performed a Phase I ESA. He presented his findings in technical reports to supplement the final Environmental Assessment.</p>		
09/95-06/13	<p>US 71/165 FORT BUHLOW BRIDGE AND APPROACHES: Alexandria, LA. Wetland Specialist - Mr. McCoy conducted wetlands delineation, produced a wetlands findings report, developed mitigation measures, and prepared all permit drawings and applications including for USACE, The Red River Waterway Commission, USCG, and railroads. He also assisted with the scenic rivers class B application, floral and faunal communities, threatened and endangered species surveys, Phase 1 ESA and coordination, archaeological and historical resources including 4(f) properties, and all other environmental resources.</p>		
06/20-08/22	<p>FORT STORY AND LITTLE CREEK NAVY BASES, WETLAND DELINEATION, UPDATE/RENEWAL: Virginia. Field Biologist - Mr. Avant completed site visits and collected data to document any changes in wetland/non-wetland habitat on each of the bases since the previous Jurisdictional Determination. He prepared his findings in a wetlands findings report.</p>		

FIRM EMPLOYED BY G.E.C., Inc.	
NAME	Richard "Barry" McCoy <i>Continued Resume</i>
06/16-Present	GREENWOOD PARK MULTI-USE TRAIL PHASE II: Baton Rouge, LA. <i>Senior Wetland Scientist</i> - Mr. McCoy was the senior wetland scientist responsible for conducting the fieldwork associated with a wetland delineation along the proposed route for the trail and for preparing the wetland delineation report to be submitted to the USACE, New Orleans District for a jurisdictional determination. The project is currently under construction.
04/19-12/21	CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA. <i>Wetland Scientist</i> - Mr. McCoy was responsible for conducting a wetland delineation, preparing a wetland report, and requesting a Preliminary Jurisdictional Determination from the New Orleans District, USACE for both of the bridge replacements. Mr. McCoy also assisted in preparing the necessary USACE permit applications for projected impacts to wetlands and other waters within the project area.
11/18-02/21	I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA. <i>Wetland Scientist</i> - Mr. McCoy was the lead Wetland Scientist responsible for the wetland delineation within the proposed project area. Mr. McCoy oversaw the field efforts associated with the project and the preparation of the wetland delineation report. Mr. McCoy coordinated with the New Orleans District, USACE to request a Preliminary Jurisdictional Determination and assisted in preparing the joint permit application for Louisiana DNR, Coastal Use Permit and the USACE Wetland Permit.
12/16-12/19	CLEVELAND STREET BRIDGE REPLACEMENT: Covington, Louisiana. <i>Biologist</i> - Mr. McCoy was responsible for conducting a wetland delineation at the project site and obtaining a JD from the USACE. He utilized this information to apply for a Section 10/404 Corps permit as well as a LDWF, Natural and Scenic Rivers System permit.
09/19-Present	LA SAFE-AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA. <i>Wetland Scientist</i> - Mr. McCoy conducted the field surveys for a wetland delineation within the project footprint, prepared a wetland delineation report that was submitted to the New Orleans Corps of Engineers to request a Preliminary JD. Mr. McCoy also prepared and submitted a Section 404 Wetland permit application , the Louisiana DNR Coastal Use permit application , and requested a Letter of No Objection from the Pontchartrain Levee Board for activities proposed within 1500-ft. of the Mississippi River Main Line Levee. He coordinated with all agencies through the completion of each permit.
10/14-02/16	BATON ROUGE LAKES MASTER PLAN: Baton Rouge, LA. <i>Lead Biologist</i> - Mr. McCoy was involved in several tasks for the Baton Rouge Lakes Master Plan. He was one of several scientists responsible for collecting sediment core samples from the lakes at specific locations to characterize the sediment material to be dredged and to analyze it for contaminants. He was the lead biologist for a task to identify and map all mature trees within a specific distance from the banks of the lakes. He also participated in a water quality analysis effort, responsible for collecting water quality data and occasional water samples at specified locations throughout the lakes on a weekly basis over a six-week period. During the sampling efforts, Mr. McCoy and other environmental scientists shared responsibilities for operating the boat, navigating to the sample points utilizing a GPS Unit, collecting the required water quality data utilizing a YSI ProPlus Quatro meter, and collecting water samples for analysis of specific parameters. Data gathered during all of these tasks have been utilized in the development of the master plan to improve the ecosystem function and recreational opportunities.
2010-2016	AMITE RIVER DIVERSION CANAL MODIFICATION EIS: Ascension and Livingston Parish, LA. <i>Senior Scientist</i> - The project included plan formulation, ecosystem designs, an Environmental Impact Statement, a USFWS Coordination Act Report, a complete depiction of all public coordination and a cost and schedule risk analysis. The project included the proposed restoration of 3,000 acres of freshwater swamp habitat within the Western Maurepas Swamp. Mr. McCoy led the efforts to complete all applicable permits and environmental field tasks including habitat assessments in support of the EIS, biological assessment, coastal zone consistency determination, 404(b)(1) permit application, and the USFWS Coordination Act Report.

FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Jason Avant	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	15
TITLE	Environmental Scientist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 2004 / Natural Sciences	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Wetlands / Biological Resources	
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p>Mr. Avant is an environmental scientist and lead botanist at GEC. He has 15 years of experience in coastal plant communities and has performed numerous wetland delineations, vegetation and habitat surveys, and threatened and endangered species surveys in support of permit applications and NEPA documentation. Mr. Avant's responsibilities also include identification and determination of wetlands and the preparation of reports, client letters, and nationwide general permits. Mr. Avant is also a certified construction inspector with daily tasks including, but not limited to, review of contractor daily work logs, daily inspection reports, production of daily progress reports, and interpretation and enforcement of bid documents and contract provisions. Mr. Avant has also completed training in the following areas: HAZWOPER 40-hr training and certification, Basic Wetland Delineator Training 404-10 RAPANOS Workshop, Soil and Water Science Short Course, Hydric Soils, Atlantic and Gulf Coastal Plain Regional Supplemental Workshop, Certified Lead Inspector, and Unified Wetland Mitigation Assessment.</p>		
01/14-05/17 SECTION 17 PROJECT	<p>H.004987 US 190/COLLINS BOULEVARD WIDENING (LA 25 TO US 190B): Covington, LA. Biologist - Mr. Avant participated in the preparation of an EA (with FONSI) and the Line and Grade Study to widen approximately three miles of U.S. 190 in Covington, a project which included the construction of new bridges across the Bogue Falaya River. Notably, the project proposed the elimination of all signalized intersections within the project corridor and replacement with roundabouts. Mr. Avant performed wetlands delineation and biological assessments and addressed mitigation and permitting.</p>		
01/14-05/16	<p>H.004983 US HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE): Slidell, LA. Biologist - Mr. Avant participated in an EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA NEPA requirements for the widening of US Highway 11 in Slidell, LA. He participated in wetlands delineation, threatened and endangered species analysis, floodplains, and the Phase I ESA.</p>		
2002-2012 SECTION 17 PROJECT	<p>700-99-0266 LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM MANAGEMENT: Statewide, LA. Environmental Technician/Field Biologist - Mr. Avant was a Field Biologist responsible for the completion of wetland delineations; threatened and endangered species surveys; and the required permit applications necessary for construction of approximately 250 miles of proposed highway right-of-way required for the highway expansion. He was responsible for preparing findings reports and submitting these reports to the appropriate state and federal agencies for review and concurrence. Also he assisted other Environmental Scientists with Phase I Site Assessments within the right-of-way and Asbestos Inspections of structures impacted by the proposed construction</p>		
02/07-04/09 SECTION 17 PROJECT	<p>HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA. Biologist - For this Green Light Plan project, GEC designed additional lanes and a raised median for Highland Road from Perkins Road to Airline Highway. Mr. Avant conducted a wetland delineation in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. The results of the delineation were compiled in a formal report and submitted to the New Orleans District, Corps of Engineers for an approved Jurisdictional Determination.</p>		
06/20-08/22	<p>FORT STORY AND LITTLE CREEK NAVY BASES, WETLAND DELINEATION, UPDATE/RENEWAL: Virginia. Field Biologist - Mr. Avant completed site visits and collected data to document any changes in wetland/non-wetland habitat on each of the bases since the previous Jurisdictional Determination.</p>		
04/07-Present SECTION 17 PROJECT	<p>GNOEC, LAKE PONTCHARTRAIN CAUSEWAY: St. Tammany & Jefferson Parishes, LA. Biologist - Mr. Avant serves as Biologist for improvements to the Causeway. GEC prepares & conducts regulatory Solicitations of Views, prepares responses to regulatory comments/guidance, conducts wetland delineations, prepares wetland/water body survey reports & prepares Coastal Use Permit applications.</p>		


FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Will Grant	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	19
TITLE	Environmental Scientist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	7
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 1994 / Biology	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Wetlands / Biological Resources	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., “DESIGNED DRAINAGE”, “DESIGNED GIRDERS”, “DESIGNED INTERSECTION”, ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Mr. Grant has over 26 years experience in the environmental field conducting research, regulatory compliance and enforcement, planning, coordination, and consulting services on federal and state regulatory compliance issues for numerous governmental and private clients. Mr. Grant has successfully worked with the Louisiana Department of Agriculture and Forestry (LDAF), the Louisiana Department of Natural Resources (LDNR), and the Louisiana Department of Environmental Quality (LDEQ) on hazardous material sites for several clients. Mr. Grant has experience conducting site investigations in accordance with LDEQ’s Risk Evaluation/Corrective Action Program (RECAP) and Underground Storage Tank Closure/Change-In Service Guidance Document requirements. Mr. Grant is a certified pesticide research and demonstration investigator and holds 40-hour HAZWOPER certification. Mr. Grant has performed over 200 environmental site assessments in accordance with American Society for Testing and Materials (ASTM) Standard E 1527-00, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process in order to identify recognized environmental condition (REC) sites, including active and inactive UST sites, within and adjacent to right-of-way (ROW) required for highway project construction. Investigations have included research of historical photography, federal, state and local environmental databases, fire insurance maps, field reconnaissance, and interviews with regulatory agency officials and others knowledgeable of the project areas. Mr. Grant has also completed training in the following areas: HAZWOPER 40-hr training and certification, USACE Wetland Delineation Certification, ASTM Phase I & II ESA courses, certified asbestos inspector.</i></p>		
<p>06/02-06/12</p> <p>SECTION 17 PROJECT</p>	<p>LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Louisiana. <i>Environmental Scientist-</i> Mr. Grant functioned as biologist and field team leader for wetland delineation and threatened and endangered species surveys and permitting for the construction of 250 miles, consisting of 37 project segments, of four-lane highway throughout Louisiana. Total project encompassed over 10,000 acres of wetland and endangered species surveys. Subsequent responsibilities included assistance with periodic surveys and habitat assessment updates. Additionally, Mr. Grant conducted multiple Phase I Environmental Site Assessments as well as Phase II Environmental Site Assessments. He prepared a Phase I Environmental Site Assessment Report according to ASTM E1527-00 and a Phase II Report in accordance with ASTM E1903-97 for each of 48 and 150 highway segments, respectively noting recognized environmental conditions within each segment and developing further investigation plans for numerous other sites.</p>		
<p>08/10-05/15</p>	<p>H.010440 GNOEC, NORTH TOLL PLAZA WIDENING: Mandeville, LA. <i>Environmental Scientist -</i> Mr. Grant completed a wetland delineation and permitting of proposed right-of-way expansion and addition of additional toll lanes at the North Shore Toll Plaza, Mandeville, Louisiana. He was responsible for surveying and permitting area for the proposed roadway expansion and installation of a retaining wall adjacent to Lake Pontchartrain. He conducted asbestos inspection of all GNOEC facilities in preparation for major renovation activities</p>		
<p>02/07-04/09</p> <p>SECTION 17 PROJECT</p>	<p>HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA. <i>Environmental Scientist -</i> Mr. Grant functioned as field crew leader and report manager for the wetland delineation and associated wetland report for the four-lane highway expansion. Project encompassed six distinct wetland communities and other waters over approximately 2 miles of project area. Wetlands delineation included vegetation and soil profile characterization, habitat description, wetland and waterbody boundary determination and mapping, and atypical/problem area assessments.</p>		

FIRM EMPLOYED BY **G.E.C., Inc.**NAME **Will Grant***Continued Resume*

2000-Present

PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS: Various Locations. *Environmental Scientist* - Mr. Grant has performed over 200 Phase I and Phase II environmental site assessments. He has performed supervision of all field work, including coordination with property owners, site safety, boring and sample location selection, field equipment operations, collection of samples, and proper site closure. Some of the projects he has performed this work on include:

- Phase I and II Environmental Site Assessment, Campti School, Campti, Louisiana, U.S. Army Corps of Engineers - New Orleans District – Assisted in the ASTM E1527-05 Phase I Environmental Site Assessment on the Campti School with additional considerations including suspect asbestos and lead-based paint under EPA’s TBA program, and managed the field investigation of asbestos containing material and lead-based paint at an abandoned school complex in accordance with applicable portions of ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process and applicable portions contained in LAC Title 33 Part III Chapters 27, 28 and 51. This assessment was conducted under EPA’s TBA program.
- Phase I & II Environmental Site Assessment, Old Moosa Hospital, Eunice, Louisiana, U.S. Army Corps of Engineers - New Orleans District – Assisted in the ASTM E1527-05 Phase I Environmental Site Assessment with additional considerations including suspect asbestos and lead-based paint on the Old Moosa Hospital under EPA’s TBA program. He managed the field investigation of asbestos containing material and lead-based paint at an abandoned hospital complex in accordance with applicable portions of ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process and applicable portions contained in the Louisiana Administrative Code (LAC) Title 33 Part III Chapters 27, 28 and 51. This assessment was conducted under EPA’s TBA program.
- Phase I Environmental Site Assessment, The Esplanade, New Orleans, Louisiana, Balance Consulting – Conducted an ASTM E 1527-00 Phase I Environmental Site Assessment with additional considerations including asbestos on The Esplanade apartment building in conjunction with property transfer.
- Phase I Environmental Site Assessment, Cinclare Central Factory, Port Allen, Louisiana, Jones, Waldo, Holbrook & McDonough – Conducted an ASTM E 1527-00 Phase I Site Assessment with additional considerations including an environmental compliance review on the Historical Cinclare Central Factory in preparation for a property transfer.
- Phase II Environmental Site Assessment, Former St. Matthew’s School, Melrose, Louisiana. U.S. Army Corps of Engineers - New Orleans District – Assisted in the investigation of asbestos containing material and lead-based paint at an abandoned school complex in accordance with applicable portions of ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process and applicable portions contained in LAC Title 33 Part III Chapters 27, 28 and 51. This assessment was conducted under EPA’s TBA program.
- Phase II Environmental Site Assessment, Irving Trust/Red Cross, Alexandria, Louisiana. U.S. Army Corps of Engineers - New Orleans District – Managed the field investigation to quantify recognized environmental conditions associated with former uses of the property identified in a Phase I environmental site assessment. Sampled soil via Geoprobe and groundwater via temporary monitoring wells for analysis of chemical constituents and compared the results to RECAP standards in accordance with ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. This assessment was conducted under EPA’s TBA program.
- Phase II Environmental Site Assessment, Port Manchac, Manchac, Louisiana. U.S. Army Corps of Engineers - New Orleans District – Managed the field investigation to quantify recognized environmental conditions associated with the adjacent property identified in a Phase I environmental site assessment. Sampled soil via Geoprobe and groundwater via temporary monitoring wells for analysis of chemical constituents and compared the results to RECAP standards in accordance with ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. This assessment was conducted under EPA’s TBA program.

FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Carlos Perez, GISP	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	21
TITLE	GIS Technician	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 1998 / Anthropology; Masters Work, Anthropology, 1998-2000	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		161073 / 07-25-2024	
YEAR REGISTERED	2021	DISCIPLINE	GISP
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: GIS / CADD / Renderings	
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
	<p><i>Mr. Perez is a GIS developer and project manager in the Environmental Department. He has worked extensively with field GPS units, downloading data and creating GIS coverages from GPS Data following field sampling and designing web interfaces for GIS data, including for SHPO and for LDWF, among others. Mr. Perez has experience in both ESRI and Intergraph GIS software in addition to digitizing skills in Microstation and IRAS-C. Mr. Perez is also experienced in programming in Visual Basic for ArcObjects, HTML, Java, ASP.NET, Flex, SQL, ArcGIS Server, and ArcIMS, allowing for greater customization of ESRI and Oracle products. His background in archaeology and Section 106 compliance adds to the diversity of GEC's Environmental Department providing additional insight especially when performing NEPA impact analyses, which include cultural resources.</i></p>		
01/02-07/09 SECTION 17 PROJECT	<p>700-99-0266 / LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA. <i>GIS Analyst/Developer-</i> GIS was used for analysis and display of 55 road segment improvement projects throughout the state of Louisiana. Potential environmental impacts were identified through digitizing, georeferencing, GPS, ground-survey, and the use of aerials. Large sets of cad-based data were converted to GIS and used for analysis. Georeferenced Soil Survey Maps were used in digitizing and analyzing prime and unique farmlands. GIS was used to aid in the preparation and approval of the environmental documentation and preparation of environmental permit applications. An ArcIMS Website was also implemented for the completed data sets.</p>		
01/14-05/17 SECTION 17 PROJECT	<p>H.004987 / U.S. HIGHWAY 190/COLLINS BOULEVARD WIDENING (US-190B – LA 25) ENVIRONMENTAL ASSESSMENT: Covington, LA. <i>GIS Analyst-</i> Mr. Perez aided in the preparation of the Environmental Assessment (with FONSI) and Line, and Grade Study to widen approximately 3 miles of U.S. 190 in Covington, a project that included the construction of new bridges across the Bogue Falaya River. Notably, the project proposed the elimination of all signalized intersections within the project corridor and replacement with roundabouts. Mr. Perez managed the GIS database of all characteristics of the study area, created renderings for public and stakeholder outreach, and aided in the public and stakeholder outreach activities.</p>		
01/14-05/16	<p>H.004983 / U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA. <i>GIS Analyst -</i> Mr. Perez aided in the preparation of the Environmental Assessment (with FONSI) and Line and Grade Study for this highway-widening project. Mr. Perez managed the GIS database of all characteristics of the study area, created renderings for public and stakeholder outreach, and aided in the public and stakeholder outreach activities. He assisted in conducting regulatory Solicitations of Views and preparing the EA and supporting reports.</p>		
10/03-06/13	<p>700-28-0004 / US 71/165 FORT BUHLOW BRIDGE AND APPROACHES: Alexandria, LA. <i>GIS Analyst -</i> Mr. Perez managed and developed the GIS database, permit drawings, line and grade figures, renderings for all stages of the project including the feasibility study, Environmental Assessment with FONSI, preliminary and final design plans, and construction phases. GEC served as the prime consultant for LADOTD to complete all project development activities for this Red River Bridge replacement project. Work efforts included feasibility study, line and grade, traffic studies, EA, preliminary and final bridge, roadway, and electrical plans, and construction support.</p>		
12/19-04/20	<p>LASAFE-AIRLINE AND MAIN COMPLETE STREETS: St John the Baptist Parish, LA. <i>GIS Analyst -</i> Mr. Perez imported CAD data into a GIS for use in wetland delineation. GPS units were prepared to collect field data on wetlands, catch basins, and drainage along Airline Hwy. The field data was processed and used to prepare permitting documents. He managed the GIS database containing the resource inventory throughout the project.</p>		

FIRM EMPLOYED BY G.E.C., Inc.	
NAME	Carlos Perez, GISP <i>Continued Resume</i>
02/17-01/23 SECTION 17 PROJECT	THIRD PARTY ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD), CPRA: Plaquemines, LA. <i>GIS Analyst</i> - Mr. Perez served as GIS Analyst and Sharepoint Designer on the GEC Team leading development of a Third-Party EIS for the MBSD Project proposed by CPRA. The EIS was prepared under the direction of USACE, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. The Third-Party EIS assessed the potential adverse and beneficial impacts associated with the construction and operation of the project. In addition, the EIS was used to inform decisions that the DWH NRDA LA TIG may make regarding restoration planning under OPA. This highly publicized and controversial project included seven cooperating agencies, 10 commenting agencies, and 11 consulting tribes for the EIS and has been placed on the Permitting Dashboard under the FAST-41 process.
2018-Present	LADOTD AND SHPO GIS FOR CULTURAL RESOURCES: Statewide, LA. <i>GIS Specialist</i> - As a GIS Specialist, Mr. Perez designed, installed, and developed a geodatabase and ArcIMS web interface for all cultural resources recorded by the SHPO of Louisiana. Paper forms retained by the Divisions of Archaeology and Historic Preservation were scanned and hyperlinked to the individual features with the geodatabase. Mr. Perez is currently contracted by the SHPO to update the services and viewer to an ArcGIS Server format on a virtual server, aid in license management, provide training and technical support, and to help develop a workflow for obtaining new GIS data from outside agencies during the Section 106 review process.
2021-Present	GEO-SPATIAL OYSTER HABITAT SUITABILITY TO INFORM PLACEMENT OF PROGRAMMATIC OYSTER RESTORATION PROJECTS: Coastal LA. <i>GIS Analyst</i> - The purpose of this ongoing project is to develop a science-based, data-driven, decision-making platform to inform the LDWF's efforts to rehabilitate Louisiana oyster resources, utilizing a multifaceted approach to enhance resilience of recovering oyster populations while avoiding areas not suitable for current and future oyster production. The project identifies suitable areas for various restoration technique(s) most likely to succeed at expanding oyster habitat and providing for their long-term sustainability. Mr. Perez developed an ArcGIS geospatial oyster Habitat Suitability Index (HSI) to integrate foreseeable environmental scenarios to determine suitable locations for oyster restoration efforts.
08/19-01/20	ST. TAMMANY PARISH MASTER PLAN: St Tammany Parish, LA. <i>GIS Analyst</i> - Mr. Perez created and continually updated a geodatabase of Repetitive Loss Data in St. Tammany Parish using ArcMap to edit planned, existing, and completed flood structures. Documents containing background information on each project were placed in a file structure and linked. Mr. Perez prepared the deliverable and provided analysis for use by the client.
2006-2014	ENVIRONMENTAL ASSESSMENTS FOR MANAGEMENT ACTIONS IN NATIONAL FORESTS, USACE NEW ORLEANS DISTRICT AND VICKSBURG DISTRICT (ECOSYSTEM RESTORATION PROJECT): Mississippi and Louisiana. <i>GIS Analyst</i> - In addition to map creation for management actions in the Tombigbee National Forest (Jones Creek and Mill Creek Analysis Units) and Kisatchie National Forest (All Ranger Districts), watershed analyses were also conducted. Delineation of watersheds was conducted within a GIS environment using digital elevation models (DEMs), which were also used to provide necessary slope information.

FIRM EMPLOYED BY		G.E.C., Inc.	
NAME	Robert Hamilton	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	<1
TITLE	Field Biologist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	14
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 2003 / Biology	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Threatened and Endangered Species	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., “DESIGNED DRAINAGE”, “DESIGNED GIRDERS”, “DESIGNED INTERSECTION”, ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
14 years of experience	<p>Mr. Hamilton joined GEC with 14 years of experience as a biologist and will participate in field investigations and preparing reports. During his career as a biologist, Mr. Hamilton has been a volunteer field biologist with the New Jersey Conservation Foundation participating in herpetological resource inventories, presence/absence surveys, critical habitat identification, creation and active management, capture, radiotelemetry, and critical habitat identification of state endangered timber rattlesnakes. He is experienced with amphibian migration surveys, vernal pool cataloging, mist-netting surveys for little brown bats, big brown bats, and Indiana bats. Mr. Hamilton is certified as Qualified Venomous Snake Monitor, NJ and Qualified Rattlesnake Monitor, PA. He has current experience performing dune and plant community delineations along with xeric coastal rare/invasive plant surveys.</p>		
11/22-Present	<p>PORT OF NEW ORLEANS, LOUISIANA INTERNATIONAL TERMINAL (LIT) ENVIRONMENTAL ASSESSMENT AND PERMITTING: New Orleans, LA. Environmental Specialist - GEC is the prime consultant in developing the EA, permitting, and supporting documents. GEC is preparing detailed impact analysis for the proposed terminal in accordance with NEPA and is conducting a range of studies in support. Mr. Hamilton is serving as an Environmental Specialist and is responsible for leading the efforts of both Terrestrial Wildlife and Threatened and Endangered Species services in support of the EA. He is currently analyzing existing conditions and performing impact assessments for birds, terrestrial mammals, and amphibians</p>		
09/22-Present	<p>NATURAL HERITAGE INVENTORY, NAVAL AIR STATION/NAVAL AUXILIARY LANDING FIELD: Fentress, Virginia Beach, and Chesapeake, VA. Field Biologist - The objective of this contract is to determine the presence of state or federally listed threatened or endangered species or other species of concern (e.g., watchlist, candidate, proposed for listing, etc. species) that may occur at NAS Oceana and NALF Fentress, including terrestrial and aquatic species. Mr. Hamilton is leading the effort to perform on-site field surveys, spanning across all seasons (summer, fall, spring, and winter), as appropriate. Surveys are completed using approved time of year specific survey methodologies for anticipated species and communities of concern. He performs research in obtaining the most current listings of species and communities from the appropriate federal and state agencies, identifies what species could be found on the installation, and if the installation hosts suitable habitat conditions for the species. He develops GIS maps, creates inventories and classifications, and performs research, all culminating into a final threatened and endangered species report and appropriate permits.</p>		
2009-2012	<p>HERPETOLOGICAL ASSOCIATES, INC.,: New Jersey. Field Biologist/Staff Herpetologist - Mr. Hamilton (1) studied the northern pine snake including radio telemetry, critical habitat surveys, presence/absence surveys, and mark/recapture studies; (2) presence/absence surveys for pine barrens treefrogs, southern gray treefrogs, bog turtles, spotted turtles, red-bellied cooters, and southern leopard frogs; (3) habitat surveys, presence/absence surveys, and radiotelemetry of timber rattlesnakes; (4) point-count surveys for all songbirds species in New Jersey; (5) presence/absences surveys for endangered raptor species in New Jersey; and (6) report generation for threatened and endangered species projects for presentation to clients and regulatory agencies.</p>		
2013-2023	<p>WILDLIFE SPECIALISTS, LLC: Field Biologist/Project Coordinator - Prior to joining GEC, while with Wildlife Specialists, LLC, Mr. Hamilton’s responsibilities covered pre-construction analysis and monitoring active construction sites to minimize impact on natural resources and maintain regulatory compliance. He performed threatened and endangered species surveys and presence/absence wildlife surveys for many species. Some of these species include the Allegheny woodrat, eastern small-footed bat, red-bellied cooter, spotted turtle, eastern black rail (methods included visual surveys, camera-trapping, call-response, baited trapping, and acoustic detection). He was also involved with surveying, active monitoring and relocation of the timber rattlesnake and eastern copperhead; natural resource inventories focusing on herpetofauna and avifauna as well as development of conservation/management plans for herpetofauna and avifauna. He has analyzed population demographics, trends, and habitat use across multiple years and location for various wildlife. Other areas of expertise include reporting, GIS mapping, data analysis, technical consultation, and wildlife photography.</p>		

FIRM EMPLOYED BY		Southern Shores Engineering, LLC	
NAME	Whitney Thompson, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	3
TITLE	Principal Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	15
DEGREE(S) / YEARS / SPECIALIZATION	B.S. / 2005 / Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	34825 / Louisiana / 03-31-2024		
YEAR REGISTERED	2009	DISCIPLINE	Professional Engineer, Civil
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Engineer		
EXPERIENCE DATES (MM/YY-MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
07/2017 – 08/2022	GOLDEN TRIANGLE ENVIRONMENTAL RESTORATION PROJECT: Orleans and St. Bernard Parishes, LA. CPRA. Engineer of Record. Ms. Thompson served as the engineer of record for the Golden Triangle Project. Her responsibilities included overseeing all engineering and design. She oversaw and approved 30% and 95% design reports, plans, and specifications in addition to permit drawings and applications.		
04/2019 - Present	BAYOU DULARGE ENVIRONMENTAL RESTORATION PROJECT: Terrebonne Parish, LA. Sigma Consulting. Principal Engineer. Ms. Thompson served as an engineer of record for the Bayou Dularge Project. Her responsibilities included managing the engineering and design, preparing alternatives report, and preparing design alternatives for the hydrologic structure, borrow area, access corridor and sediment pipeline corridor for the proposed marsh creation and hydrologic restoration project. Ms. Thompson also designed bank and channel stabilization features along Grand Pass and Bayou Dularge. Additional project deliverables consisted of project specifications, plans, and permit drawings.		
03/2021-11/2021	PROCTOR POINT ECOSYSTEM RESTORATION AND BANK STABILIZATION PROJECT: St. Bernard Parish, LA. Restoration Systems. Principal Engineer. Ms. Thompson served as the principal engineer for the Proctor Point Project. Her responsibilities included managing the feasibility of multiple marsh creation areas and borrow areas throughout Proctor Point and Lake Borgne. Marsh creation area alternatives were proposed along Proctor Point and consisted of approximately 1,000 acre areas. In addition, approximately 16,500 LNFT of shoreline protection and bank stabilization features were recommended along the Proctor Point shoreline.		
07/2017 – 08/2022	GOLDEN TRIANGLE ENVIRONMENTAL RESTORATION PROJECT: Orleans and St. Bernard Parishes, LA. CPRA. Engineer of Record. Ms. Thompson served as the engineer of record for the Golden Triangle Project. Her responsibilities included overseeing all engineering and design. She oversaw and approved 30% and 95% design reports, plans, and specifications in addition to permit drawings and applications.		

FIRM EMPLOYED BY		Southern Shores Engineering, LLC	
NAME	Christopher Paul, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	3
TITLE	Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	6
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 2014 / Civil Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		43282 / Louisiana / 09-30-2023	
YEAR REGISTERED	2019	DISCIPLINE	Professional Engineer, Civil
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Engineer	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
07/2017 – 08/2022	GOLDEN TRIANGLE ENVIRONMENTAL RESTORATION PROJECT: Orleans and St. Bernard Parishes, LA. CPRA. Design Engineer. Mr. Paul served as a design engineer for the Golden Triangle Project. His responsibilities included conducting engineering and design calculations for the proposed environmental restoration project. He developed 30% and 95% design reports, plans, and specifications in addition to permit drawings and applications. He also performed a wetland value analysis to quantify habitat benefits over the life of the project.		
04/2019 - Present	BAYOU DULARGE ENVIRONMENTAL RESTORATION PROJECT: Terrebonne Parish, LA. Sigma Consulting. Design Engineer. Mr. Paul served as the design engineer for the Bayou Dularge Project. His responsibilities included conducting engineering and design calculations, preparing alternatives report, and preparing design alternatives for the hydrologic structure, borrow area, access corridor and sediment pipeline corridor for the proposed marsh creation and hydrologic restoration project. Mr. Paul also designed bank and channel stabilization features along Grand Pass and Bayou Dularge. Additional project deliverables consisted of project specifications, plans, and permit drawings.		
03/2021-11/2021	PROCTOR POINT ECOSYSTEM RESTORATION AND BANK STABILIZATION PROJECT: St. Bernard Parish, LA. Restoration Systems. Design Engineer. Mr. Paul served as the design engineer for the Proctor Point Project. His responsibilities included evaluating the feasibility of multiple marsh creation areas and borrow areas throughout Proctor Point and Lake Borgne. Marsh creation area alternatives were proposed along Proctor Point and consisted of approximately 1,000 acre areas. In addition, approximately 16,500 LNFT of shoreline protection and bank stabilization features were recommended along the Proctor Point shoreline.		
01/2022	ST. JOHN THE BAPTIST PARISH POST-IDA DRAINAGE SYSTEM DAMAGE ASSESSMENT: St. John the Baptist Parish, LA. SJB Group. Data Collection. Mr. Paul served as a UAS pilot and data analyst on the St. John Post-Ida Damage Assessment Project. His responsibilities included developing flight plans, piloting UAS missions, and analyzing data collected. Drainage canals were blocked by debris throughout St. John the Baptist Parish due to impacts from Hurricane Ida. Post-storm damage assessment missions were flown via UAS to determine the location and extent of debris impacting drainage.		

FIRM EMPLOYED BY		Southern Shores Engineering, LLC	
NAME	John Darnall, EI	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	3
TITLE	Engineer Intern	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	4
DEGREE(S) / YEARS / SPECIALIZATION	B.S. / 2014 / Civil Engineering; M.S. / 2016 / Coastal Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	33971 / Louisiana / 09-30-2023		
YEAR REGISTERED	2019	DISCIPLINE	Engineer Intern
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Environmental Specialist/Engineer Intern		
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
07/2017 – 08/2022	<p>GOLDEN TRIANGLE ENVIRONMENTAL RESTORATION PROJECT: Orleans and St. Bernard Parishes, LA. CPRA. Design Engineer. Mr. Darnall served as a design engineer for the Golden Triangle Project. His responsibilities included conducting engineering and design calculations for the environmental restoration project. He developed 30% and 95% design reports, plans, and specifications in addition to permit drawings and applications. He also performed a wetland value analysis to quantify habitat benefits over the life of the project.</p>		
04/2019 - Present	<p>BAYOU DULARGE ENVIRONMENTAL RESTORATION PROJECT: Terrebonne Parish, LA. Sigma Consulting. Design Engineer. Mr. Darnall served as the design engineer for the Bayou Dularge Project. His responsibilities included conducting engineering and design calculations, preparing alternatives report, and preparing design alternatives for the hydrologic structure, borrow area, access corridor and sediment pipeline corridor for the proposed marsh creation and hydrologic restoration project. Mr. Darnall also designed bank and channel stabilization features along Grand Pass and Bayou Dularge. Additional project deliverables consisted of project specifications, plans, and permit drawings.</p>		
03/2021-11/2021	<p>PROCTOR POINT ECOSYSTEM RESTORATION AND BANK STABILIZATION PROJECT: St. Bernard Parish, LA. Restoration Systems. Design Engineer. Mr. Darnall served as the design engineer for the Proctor Point Project. His responsibilities included evaluating the feasibility of multiple marsh creation areas and borrow areas throughout Proctor Point and Lake Borgne. Marsh creation area alternatives were proposed along Proctor Point and consisted of approximately 1,000 acre areas. In addition, approximately 16,500 LNFT of shoreline protection and bank stabilization features were recommended along the Proctor Point shoreline.</p>		
01/2022	<p>ST. JOHN THE BAPTIST PARISH POST-IDA DRAINAGE SYSTEM DAMAGE ASSESSMENT: St. John the Baptist Parish, LA. SJB Group. Data Collection. Mr. Darnall served as a UAS pilot and data analyst on the St. John Post-Ida Damage Assessment Project. His responsibilities included developing flight plans, piloting UAS missions, and analyzing data collected. Drainage canals were blocked by debris throughout St. John the Baptist Parish due to impacts from Hurricane Ida. Post-storm damage assessment missions were flown via UAS to determine the location and extent of debris impacting drainage.</p>		

FIRM EMPLOYED BY ENCOS, Inc.			
NAME	Joel Chaky	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	23
TITLE	Vice President	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	13
DEGREE(S) / YEARS / SPECIALIZATION		Bachelor of General Studies, Natural Sciences, 1987	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Certified Scuba Diver, Oyster & Biological Surveys	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., “DESIGNED DRAINAGE”, “DESIGNED GIRDERS”, “DESIGNED INTERSECTION”, ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
11/2017	<p>LAKE PONTCHARTRAIN BASIN FOUNDATION OYSTER SAMPLING: Joel Chaky served as the Principal Scientist on this project. Mr. Chaky duties were to make sure that areas identified during a recent side scan survey were located by the scientific diver and sampled. Each square meter sample was returned to the boat and samples were sorted in the field to identify oysters and other benthic organisms collected within the square meter sample margin. Once sorted, samples were turned over to the University of New Orleans for final analysis. The sampling attempted to identify what, if any, area was capable of rehabilitation to support oyster seeding and production. Mr. Chaky performed underwater biological surveys.</p>		
06/2016 – 05/2017	<p>BIOLOGIC OYSTER ASSESSMENT FOR TEXAS GAS TRANSMISSION, LLC: Mr. Chaky was the Project Manager. Mr. Chaky ensured that all field schedules were met, and all data were collected to the protocols established by the Oyster Lease Damage Evaluation Board (OLDEB) and Louisiana Department of Wildlife and Fisheries. Mr. Chaky made sure the project met all timelines as the project progressed and that the staff assigned to the project adhered to the budget. Mr. Chaky performed underwater biological surveys.</p>		
06/2021 – Present	<p>CPRA SYSTEM WIDE ASSESSMENT MONITORING PROGRAM (SWAMP): Currently serving as Program Manager for CPRA’s SWAMP. CPRA uses SWAMP to assess how environmental drivers influence systemic change that affects coastal restoration efforts. Mr. Chaky was heavily involved in developing the sampling protocols and field methods for the SWAMP piolet program in 2015 which only included the Barataria Basin. Since November 2015 the SWAMP program grew form 23 locations to 120 sites across all hydrologic basins of Louisiana. The SWAMP program is meant to provide additional data to achieve the overall goals of restoration efforts supporting the State of Louisiana’s Master Plan. Mr. Chaky oversees all aspects for SWAMP and ensures all deadlines are met and data flow is maintained.</p>		
08/2014 - Present	<p>INSTALLATION OF REAL-TIME PHYSICAL OCEANOGRAPHIC MEASUREMENT STATIONS FOR THE PORT OF MORGAN CITY: Mr. Chaky was the Project Manager for the installation, operation and yearly maintenance of the Morgan City Harbor and Terminal District (MCHTD) met-ocean measurement systems at Eugene Island and the Atchafalaya Bar Channel stations located on the lower Atchafalaya River. Mr. Chaky collaborated on station design and provided oversight to ensure these systems were installed to the requirements and standards of the National Oceanographic and Atmospheric Administration’s (NOAA’s) Physical Oceanographic Real-Time Systems (PORTS®) and that all deadlines and project benchmarks were met. The systems installed, intend to enhance the MCHTD’s management of various activities related to this portion of the channel including emergency response activities, maritime commerce, and navigation safety. The PORTS® system will provide information to the MCHTD management team such as wind speed, wind direction, atmospheric pressure, salinity, water levels, waves, and currents. The MCHTD management team uses this information to manage and direct assets during an emergency (i.e. oil spills, barge accidents) or natural disasters. The information will also assist in determining the strategic time for maintenance in the Eugene Island Bar channel for continued maritime commerce. In 2018, the Eugene Island Bar Channel was damaged by an allision from a barge. The station was damaged and was subsequently removed and replaced. Mr. Chaky coordinated with NOAA and the MCHTD to re-install the station at the original location. Joel also coordinated with instrument manufacturers for the purchase of new equipment and inspection and repair of recovered equipment from the station. The re-installation of the station after funding was approved, was installed and operation in 3 months. Mr. Chaky is currently working with the NOAA PORTS survey group to install a survey grade GPS reference station on the North Eugene Island water level station so water level can be corrected daily and to verify the stability of this station.</p>		

FIRM EMPLOYED BY **ENCOS, Inc.**NAME **Joel Chaky***Continued Resume*

06/2022 – 09/2022	<p>CHUSTZ SURVEYING, LLC: Installation of Acoustic Doppler Current Profilers (ADCPs) and Water Level Sondes Near Reggio, LA - Joel Chaky was the Principal Scientist for the installation of five (5) ADCPs and five (5) water level sondes near the Reggio, La area. The ADCPs collected water velocity data and the data was used in conjunction with bathymetric surveys performed near the installations, to calculate the volumetric flow through the bayous. The water level and ADCP data were used to develop a hydrologic and hydrodynamic model of the area. The installations were visited after one month for data download and site inspection. The data collected were to assist in a water control structure design and its effects on the hydrology of the model area. Data was processed and analyzed. Processed data was provided to the client in tabular format. All raw data was also provided to the client for archiving. Water level data for each water level sensor was converted to North American Vertical Datum 1988. Mr. Chaky reviewed data and the associated technical memorandum provided to the client.</p>
07/2021	<p>MISSISSIPPI RIVER VELOCITY MEASUREMENT SUPPORTING PIPELINE REMOVAL NEAR DONALDSONVILLE, LOUISIANA: Mr. Chaky served as the principal scientist for this project. Mr. Chaky assisted the field team that conducted these measurements on the Mississippi River. The measurements were made to assist pipeline removal vessels and divers develop work plans for anchoring and diving operations for the safe removal of the pipeline. The field team conducted transects at three locations upstream of the pipeline crossing, at the pipeline crossing, and downstream of the pipeline crossing. The measurements were run perpendicular to the river flow. Two river crossings were made at each location and the discharge values were compared to each other. To validate the data, the discharge values had to be within 5% of each other. If the transects compared were greater than 5%, then additional transects must be made. Only two pairs of transects were required at each site. The data was reviewed and provided to the client in tabular and native instrument format. The data was also presented graphically within the body of technical memorandum. Mr. Chaky reviewed the data and technical memorandum prior to submission to the client.</p>
11/2016 – 05/2017	<p>CPRA WAVE MONITORING AND ANALYSIS OF NON-ROCK ALTERNATIVES TO SHORELINE PROTECTION DEMONSTRATION PROJECT: Mr. Chaky was ENCOS' Project Manager for the CPRA demonstration project of non-rock alternatives to shoreline protection located in Vermillion Bay. Four types of non-rock breakwaters were previously installed at the project site with the objective being to quantify wave transmission coefficients at each of the four breakwater installations. The data was collected behind each breakwater by installing a Data Collection Platform (DCP) with an Ocean Sensor Systems, Inc. (OSS) capacitance wave logger. The fifth DCP was located offshore, in front of the four (4) breakwaters, was built to collect offshore wave heights and period to compare against the wave gauge data collected behind each breakwater. The offshore DCP included the following instruments: an ADCP, an OSS pressure sensor wave gauge, an In-Situ BaroTROLL Barometric Pressure Logger, and a YSI 6920 V2 water sonde. Mr. Chaky worked with the project model team to develop a strategy to gather wave data for their use in developing wave transmission coefficients for each structure.</p>
12/2014 – 04/2015	<p>HYDRODYNAMIC MODELING FOR CAMERON MEADOWS MARCH CREATION AND WETLAND RESTORATION (TO-26): Mr. Chaky was the Project Manager on this project. This project supports the Louisiana Coastal Protection and Restoration Authority's (CPRA) Cameron Meadows Project (TO-26). The project collected measured data for the following parameters: water level, salinity, Vx and Vy water velocity magnitude and direction. The data collected are for hydrologic model development of the Cameron Meadows area located in Cameron Parish, Louisiana. ENCOS installed and maintained four (4) DCPs for a three-month period. At each DCP, ENCOS installed a multi-parameter data sonde, which recorded on an hourly basis. ENCOS also collected horizontal acoustic Doppler current profiler (HADCP) data expressed as Vx and Vy once per month for the three-month period.</p>

FIRM EMPLOYED BY		ENCOS, Inc.	
NAME	Coklin Nguyen	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	1
TITLE	Senior Scientist / Operations Manager	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	10
DEGREE(S) / YEARS / SPECIALIZATION		Bachelor of Science, Natural Resource Ecology and Management, 2015	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		License 7701 and 3.8 CEUS – USACE Wetland Delineation Certifications	
YEAR REGISTERED	N/A	DISCIPLINE	Certified CPRA Levee Inspector /Louisiana/(April 2027)
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Biologist for Wetland Delineations, Professional, Scientific Diver	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., “DESIGNED DRAINAGE”, “DESIGNED GIRDERS”, “DESIGNED INTERSECTION”, ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
02/2022 – Present	<p>CPRA SYSTEM WIDE ASSESSMENT MONITORING PROGRAM (SWAMP): Mr. Nguyen is working as a Senior Scientist on CPRAs System Wide Assessment Monitoring Program (SWAMP). Mr. Nguyen works closely with the SWAMP Project Managers for field preparations of vessels, preparing decontaminating grab sampling equipment, and organizing field equipment. CPRA uses SWAMP to develop sampling protocols to access how environmental drivers influence systemic change that affects coastal restoration efforts. Mr. Nguyen is involved in all field sample collection and handling, scheduling all sample collection activities, preparing sampling equipment, and arranging sample drop-off at the designated laboratory for sample analysis. Mr. Nguyen is also responsible for entering the field data into the database, as well as performing QA/QC on the data.</p>		
09/2022 - Present	<p>MAINTAINING OF REAL-TIME PHYSICAL OCEANOGRAPHIC MEASUREMENT STATIONS FOR THE PORT OF MORGAN CITY: Mr. Nguyen serves as a Staff Scientist III for his involvement with the Morgan City Harbor and Terminal District (MCHTD) in performing current routine and annual maintenance of two met-ocean measurement systems at the Eugene Island Bar Channel on the lower Atchafalaya River that is compliant with the requirements and standards of the National Oceanographic and Atmospheric Administration’s (NOAA’s) Physical Oceanographic Real-Time Systems (PORTS®). This maintenance includes the cleaning of the instruments, upgrading any of the hydrologic instruments, and troubleshooting if any problems arise. The system intends to enhance the MCHTD’s management of various activities related to this portion of the channel including emergency response activities, maritime commerce, navigation safety, and coastal resource assets. The PORTS® system will provide information to the MCHTD management team such as wind speed, wind direction, atmospheric pressure, salinity, water levels, waves, and currents. The management team uses this information to manage and direct assets during an emergency (i.e. oil spills, barge accidents) or natural disasters. The information will also assist in determining the strategic time for maintenance in the Eugene Island Bar channel for continued maritime commerce.</p>		
10/2022 - 08/2023	<p>POWER ENGINEERS, WILLIAMS LEG PIPELINE PROJECT: in Beauregard, Calcasieu, Caddo, DeSoto, Sabine, and Vernon Parishes, LA – Mr. Nguyen was a Senior Scientist and Lead Delineator providing ecological survey support along an approximately 165-mile proposed pipeline project. Wetlands and waterbodies were surveyed across seven different parishes using sub-meter real-time differentially corrected Global Positioning System Technology. Concurrently, performed Threatened and Endangered Species Habitat Surveys.</p>		
06/2022 – 09/2022	<p>CHUSTZ SURVEYING, LLC, INSTALLATION OF ACOUSTIC DOPPLER CURRENT PROFILERS (ADCPs) AND WATER LEVEL SONDES NEAR REGGIO, LA: Mr. Nguyen was a Scientist involved in the installation of five (5) ADCPs and five (5) water level sondes near the Reggio, La area. The ADCPs collected water velocity data and the data was used in conjunction with bathymetric surveys performed near the installations, to calculate the volumetric flow through the bayous. The water level and ADCP data were used to develop a hydrologic and hydraulic models of the area. The installations were visited after one month for data download and site inspection. Mr. Nguyen also assisted in the removal of all instruments and stations after the two-month duration of the project.</p>		
08/2022	<p>DELTA LAND SERVICES, LLC., INSTALLATION OF WATER LEVEL STATIONS NEAR REGGIO, LA: Mr. Nguyen was a Scientist involved in the installation of five (5) water level stations and three (3) boardwalks near the Tchefuncte River, La area. In-Situ Level Troll 700s were installed into aluminum uni-poles with treated wooded boardwalks for accessibility. Two of the remote water level stations utilized Vu-Link telemetry for real time data collection. The water level data is being used to develop a hydrologic model of the area for planned habitat improvements of a potential mitigation bank. The stations were installed as permanent structures for long-term monitoring.</p>		

FIRM EMPLOYED BY		ENCOS, Inc.	
NAME	Steven Tidwell	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6
TITLE	Project Manager / Senior Scientist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	11
DEGREE(S) / YEARS / SPECIALIZATION		Bachelor of Science in Geological Engineering, 2011	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		7965 / Mississippi	
YEAR REGISTERED	2012	DISCIPLINE	Engineer Intern
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Certified Scuba Diver	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
06/2022	<p>FREEZE AND NICHOLS, INC., NO NAME BAYOU MARSH CREATION PROJECT – OYSTER SURVEY, CAMERON PARISH, LA: Mr. Tidwell was a Scientist III / Project Manager involved in the biological oyster assessment performed on the southern extents of Calcasieu Lake. This area would be affected by the proposed dredging and transport of the dredged materials. Mr. Tidwell was responsible for working with the client to schedule and perform the surveys. The bottom-type survey was performed by poling the bottom with a carbon fiber pole and determining the firmness of the bottom. Mr. Tidwell was responsible for configuring the hardware (SonTek M9 RiverSurveyor and Trimble R2 GPS unit) in Hypack and collecting the data in the software. The software was also used to plan and execute the dredge and dive sampling that occurred after the initial polling survey. Mr. Tidwell was responsible for assisting in the dredge and dive sample collections and recording field notes when needed. Mr. Tidwell was also responsible for the operation of the vessel needed to complete the survey. Mr. Tidwell performed underwater biological surveys for this project on public oyster grounds.</p>		
07/2017 - Present	<p>INSTALLATION OF REAL-TIME PHYSICAL OCEANOGRAPHIC MEASUREMENT STATIONS FOR THE PORT OF MORGAN CITY: Mr. Tidwell serves as a Staff Scientist IV/Project Manager for his involvement with the Morgan City Harbor and Terminal District (MCHTD) in performing current routine and annual maintenance of two met-ocean measurement systems at the Eugene Island Bar Channel on the lower Atchafalaya River that is compliant with the requirements and standards of the National Oceanographic and Atmospheric Administration's (NOAA's) Physical Oceanographic Real-Time Systems (PORTS®). This maintenance includes the cleaning of the instruments, upgrading any of the hydrologic instruments, and troubleshooting if any problems arise. The system intends to enhance the MCHTD's management of various activities related to this portion of the channel including emergency response activities, maritime commerce, navigation safety, and coastal resource assets. The PORTS® system will provide information to the MCHTD management team such as wind speed, wind direction, atmospheric pressure, salinity, water levels, waves, and currents. The management team uses this information to manage and direct assets during an emergency (i.e. oil spills, barge accidents) or natural disasters. The information will also assist in determining the strategic time for maintenance in the Eugene Island Bar channel for continued maritime commerce. Mr. Tidwell is responsible for scheduling maintenance trips, daily monitoring of the system, and composing trip reports for NOAA.</p>		
09/2021 - Present	<p>CPRA SYSTEM WIDE ASSESSMENT MONITORING PROGRAM (SWAMP): Mr. Tidwell is currently serving as a Project Manager working on CPRAs System Wide Assessment Monitoring Program (SWAMP). The Coastal Planning and Restoration Authority (CPRA) uses SWAMP to develop sampling protocols to access how environmental drivers influence systemic change that affect coastal restoration efforts. Mr. Tidwell is involved in all field sample collection and handling, scheduling all sample collection activities, preparing sampling equipment, and arranging sample drop-off at the designated laboratory for sample analysis. Mr. Tidwell is also responsible for entering the field data into the database, as well as performing QA/QC on the data.</p>		
08/2022 - 09/2022	<p>DELTA LAND SERVICES, LLC., INSTALLATION OF WATER LEVEL STATIONS: Mr. Tidwell was a Scientist IV / Project Manager involved in the installation of seven (7) water level stations and five (5) boardwalks near the Tchefuncte River, La area. Mr. Tidwell worked with other scientists to manage the logistics of the installations. In-Situ Level Troll 700s were installed into aluminum uni-poles with treated wooded boardwalks for accessibility. Two of the remote water level stations utilized Vu-Link telemetry for real time data collection. The water level data is being used to develop a hydrologic model of the area for planned habitat improvements of a potential mitigation bank. The stations were installed as permanent structures for long-term monitoring. Mr. Tidwell worked with the client to ensure that the remote data was transmitting properly and that their staff were trained on how to download the Level Troll 700s and VuLink equipment.</p>		

FIRM EMPLOYED BY		ENCOS, Inc.	
NAME	Rachel Mixon	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	2
TITLE	Scientist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 2021 / Applied Coastal Environmental Sciences	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		Certified CPRA Levee Inspector /Louisiana/(April 2027)	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Biologist, professional, Certified Scuba Diver	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
06/2021 - Present	<p>CPRA SYSTEM WIDE ASSESSMENT MONITORING PROGRAM (SWAMP): Ms. Mixon is working for ENCOS as staff scientist focusing on data analysis and preparation for CPRAs System Wide Assessment Monitoring Program (SWAMP). The Coastal Planning and Restoration Authority (CPRA) uses SWAMP to assess how environmental drivers influence systemic change that affects coastal restoration efforts. Ms. Mixon is primarily responsible for data analysis for this project. Ms. Mixon is responsible for downloading the collected data from the YSI Pro DSS and formatting/recording the data into a QA/QC formatted spreadsheet for collected samples before the data is submitted. Rachel also assists in field sample collection and handling and preparing sampling equipment.</p>		
06/2021 - Present	<p>INSTALLATION OF REAL-TIME PHYSICAL OCEANOGRAPHIC MEASUREMENT STATIONS FOR THE PORT OF MORGAN CITY: Ms. Mixon serves as a staff scientist assisting the project manager with the Morgan City Harbor and Terminal District (MCHTD) in current routine and annual maintenance of two met-ocean measurement systems at the Eugene Island Bar Channel on the lower Atchafalaya River that is compliant with the requirements and standards of the National Oceanographic and Atmospheric Administration's (NOAA's) Physical Oceanographic Real-Time Systems (PORTS®). Ms. Mixon assists Senior Staff Scientists in the cleaning of instruments/stations and downloading data from the stations. The system intends to enhance the MCHTD's management of various activities related to this portion of the channel including emergency response activities, maritime commerce, navigation safety, and allocation of assets.</p>		
07/2021 - Present	<p>BASF ZACHARY REMEDIATION SYSTEM OPERATION AND MAINTENANCE: ENCOS is contracted through BASF to take daily readings of Well MW-2A. Ms. Mixon is responsible for the monthly maintenance of the DXA Ground Water Operating Record by inputting the recorded values and calculating the daily pump rates. Ms. Mixon is then responsible for the calculation of the monthly and daily pumping averages for this well. Rachel created and continues to update several figures that demonstrate the monthly average and total gallons pumped by Well MW-2A throughout 2021. Ms. Mixon is also responsible for uploading, organizing, and analyzing monthly manifests for this project.</p>		
07/2021 - Present	<p>BASF GROUNDWATER MONITORING PROGRAM: ENCOS is contracted through BASF to conduct groundwater monitoring of three wells in Area A. Ms. Mixon is responsible for updating the Historical Chlorobenzene Concentration Data graphs for each well as new data is provided. Ms. Mixon also assists in analyzing data from wells in Area J at the BASF Corporation Facility in Geismar, Louisiana. She organized the Chloride Data from 1999 to 2021 from five different wells into a graph and interpreted the results in the groundwater report</p>		
06/2022	<p>FRESE AND NICHOLS, INC., NO NAME BAYOU MARSH CREATION PROJECT – OYSTER SURVEY, CAMERON PARISH, LA: Rachel was a biologist for this oyster assessment performed on the southern extents of Calcasieu Lake. This area would be affected by the proposed dredging and transport of the dredged materials for the CS-0078 Marsh Creation Cell . Ms. Mixon classified the water bottom as a carbon fiber pole. After the data collection was complete Ms. Mixon collated the dive and dredge data and provided that data to the project manager for delivery to the client for the final report.</p>		
10/2022 – 08/2023	<p>POWER ENGINEERS, WILLIAMS LEG PIPELINE PROJECT IN BEAUREGARD, CALCASIEU, CADDO, DESOTO, SABINE, AND VERNON PARISHES, LA: Rachel was a Scientist assisted in ecological survey support along an approximately 165-mile proposed pipeline project. Wetlands and waterbodies were surveyed across seven different parishes using sub-meter real-time differentially corrected Global Positioning System Technology. Concurrently, assisted Lead Delineator with Threatened and Endangered Species Habitat Surveys.</p>		

FIRM EMPLOYED BY		ENCOS, Inc.	
NAME	Jeremy Thompson	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	2
TITLE	Scientist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S) / YEARS / SPECIALIZATION		B.S. / 2022 / Coastal Environmental Science	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A	
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES		Role on this Project: Professional, biologist, Certified Scuba Diver	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).		
07/2021 - Present	<p>CPR SYSTEM WIDE ASSESSMENT MONITORING PROGRAM (SWAMP): Jeremy is currently working for ENCOS as staff scientist focusing on data analysis and preparation for CPRAs System Wide Assessment Monitoring Program (SWAMP). The Coastal Planning and Restoration Authority (CPRA) uses SWAMP to assess how environmental drivers influence systemic change that affects coastal restoration efforts. Mr. Thompson is responsible for downloading the collected data from the YSI Pro DSS and formatting/recording the data. This process is the first step in the SWAMP QA/QC process before being sent to the QA/QC officer.</p>		
07/2021 - Present	<p>INSTALLATION OF REAL-TIME PHYSICAL OCEANOGRAPHIC MEASUREMENT STATIONS FOR THE PORT OF MORGAN CITY: Mr. Thompson serves as a staff scientist assisting the project manager with the Morgan City Harbor and Terminal District (MCHTD) in current routine and annual maintenance of two met-ocean measurement systems at the Eugene Island Bar Channel on the lower Atchafalaya River that is compliant with the requirements and standards of the National Oceanographic and Atmospheric Administration's (NOAA's) Physical Oceanographic Real-Time Systems (PORTS®). Mr. Thompson assists Senior Staff Scientists in the cleaning of instruments/stations and downloading data from the stations. The system intends to enhance the MCHTD's management of various activities related to this portion of the channel including emergency response activities, maritime commerce, navigation safety, and allocation of assets.</p>		
10/2022 – 08/2023	<p>POWER ENGINEERS, WILLIAMS LEG PIPELINE PROJECT IN BEAUREGARD, CALCASIEU, CADDO, DESOTO, SABINE, AND VERNON PARISHES, LA: Mr. Thompson was a Scientist assisted in ecological survey support along an approximately 165-mile proposed pipeline project. Wetlands and waterbodies were surveyed across seven different parishes using sub-meter real-time differentially corrected Global Positioning System Technology. Concurrently, assisted Lead Delineator with Threatened and Endangered Species Habitat Surveys.</p>		
08/2022 - 09/2022	<p>DELTA LAND SERVICES, LLC., INSTALLATION OF WATER LEVEL STATIONS: Mr. assisted with the installation of seven (7) water level stations and five (5) boardwalks near the Tchefuncte River, La area. Jeremy worked with other scientists to assist with construction of fabricated aluminum poles housing the InSitu LevelTroll 700s, fabrication of boardwalks, inspection and testing of the InSitu Level Troll 700s (Level Troll). The Level Trolls were installed into aluminum uni-poles with treated wooded boardwalks for accessibility. Two of the remote water level stations utilized Vu-Link telemetry for real time data collection. The water level data is being used to develop a hydrologic model of the area for planned habitat improvements. potential mitigation bank. The stations were installed as permanent structures for long-term monitoring.</p>		

Section 17

GEC Project Experience related to Current Advertisement Scope of Services

GEC Project	USACE		LDNR	Current Advertisement Scope		Levee Board	Assessments		Related		
	Nationwide	Individual 404	Coastal Use	USCG Bridge	LDWF Scenic Stream	Levee	Wetlands	Biological	LDEQ	USACE	
									401	402	408
Mid-Barataria Sediment Diversion		C	C	C		C	P	P			C
TIMED Program		S		C	S	C	P	P	S	S	
Lake Pontchartrain Causeway		C	S	S		C	P	P	C		
Cleveland Street Bridge	S			C	S		P	C			
US Hwy 190 Widening		C		C	C		P	C	C		
US Hwy 11 Widening		C	C			C	P	C	C		
SWBNO Retrofit Power Network		C	C			S				S	
US Hwy 165 Widening		S		C	S	C	P	P	S	S	
Ft. Buhlow Bridge		C		C		C	P	C	C		

KEY: S = Submitted P = Prepared C = Consulted

17. Firm Experience

FIRM NAME	G.E.C., Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*	Environmental	**
PROJECT NAME	The Transportation Infrastructure Model for Economic Development (TIMED) Program			FIRM RESPONSIBILITY (PRIME OR SUB?)	Prime
PROJECT NUMBER	700-99-0266	OWNER'S NAME	LADOTD		
PROJECT LOCATION	Statewide, Louisiana		OWNER'S PROJECT MANAGER	Toby Picard	
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1032				
SERVICES COMMENCED BY THIS FIRM (MM/YY)	01/03	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)	\$ 169		
SERVICES COMPLETED BY THIS FIRM (MM/YY)	07/09	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)	\$ 169		

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

GEC's Environmental Sciences and Engineering Department provided environmental planning, surveying, design, permitting and compliance services pursuant to the construction of 84.2 miles and 3,400 acres of new highway construction comprising 13 projects. GEC conducted wetland delineations for more than 110 acres of wetlands and Other Waters sites and threatened and endangered (T/E) species surveys for three species. GEC conducted all necessary coordination with the U.S. Coast Guard, Eighth District, to obtain authorizations in accordance with the Coast Guard Act of 1982 for the construction of 25 new bridges. GEC also conducted all coordination with the Louisiana Department of Wild life and Fisheries necessary to obtain three Scenic River Use Permits.

The work included storm water planning, design, permitting, inspection, recordkeeping, and reporting, including the development of SWPPPs and BMPs, in accordance with Section 402 of the Clean Water Act, as amended, LDEQ's General Permit for Discharges of Storm Water From Construction Activities of Five Acres or More (Master General Permit LAR100000), and LDEQ's General Permit for Small (greater than one acre but less than five acres) Construction Activities (Master General Permit LAR200000).

To facilitate U.S. Army Corps of Engineers and Louisiana Department of Environmental Quality Clean Water Act Section 401/404 permitting, GEC combined project segments, where feasible, and initiated cost-effective compensatory mitigation processes with LDWF. For this particular corridor GEC reduced the required number of permits from 13 to five and, as a result, obtained the required wetlands and water quality permits within five months of application. GEC also obtained 13 CWA Section 402 General Storm Water Permits from LDEQ for construction of the corridor. All environmental data were collected using global positioning system (GPS) equipment, and field data were stored, managed, merged with highway plan and profile computer aided design and drafting (CADD) files, and analyzed using GIS to facilitate reporting and regulatory coordination.

Using this methodology GEC was able to expedite regulatory review and permitting, and all permits necessary for project construction were obtained at an accelerated rate and well in advance of construction letting. GEC GIS data included, in part, aerial photography, USGS topographic maps, NWI maps, soil surveys, wetlands, Other Waters and T/E field survey data, highway plan and profile designs, NRCS WRP and CRP properties, state and federally owned stewardship areas, LDWF natural heritage data, and scenic streams.

The program required National Environmental Policy Act (NEPA) evaluations and processing necessary to procure Federal and other environmental permits required for construction and included the following program areas:

- Wetland delineations, permit applications and mitigation with three U.S. Army Corps of Engineers districts;
- ASTM Standard E 1527-00, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* to identify more than 220 REC sites; ASTM E 1903-97, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* work plan development and execution for 190 REC sites; LDEQ RECAP, October 20, 2003, and *Underground Storage Tank Closure / Change in Service Guidance Document*, April 1, 2002, evaluations of more than 100 sites;
- Cultural resources investigations, assessment and impact mitigation in consultation with the SHPO;
- Bridge site location selection, planning and permitting with the U.S. Coast Guard in accordance with the *General Bridge Act of 1946*, the *Rivers and Harbors Act of 1899*, as amended;
- Scenic stream design and permitting with the LDWF in accordance with the Louisiana Natural and Scenic Rivers Act;
- Biological surveys, planning and design coordination with the USFWS and the LDWF to avoid and/or mitigate impacts to threatened and endangered species and sensitive habitats.

GEC provided **all scope items from the current advertisement for multiple locations** as a part of this statewide transportation program in Louisiana.

Firm Members Involved: Jeff Robinson, Barry McCoy, Will Grant, Jason Avant, Carlos Perez

FIRM NAME		G.E.C., Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*		Environmental		**	
PROJECT NAME		Highland Road (LA 42) Improvements (Perkins to Airline)				FIRM RESPONSIBILITY (PRIME OR SUB?)		Prime	
PROJECT NUMBER		N/A		OWNER'S NAME		City-Parish of East Baton Rouge			
PROJECT LOCATION		Baton Rouge, Louisiana			OWNER'S PROJECT MANAGER		Tom Stephens		
OWNER'S ADDRESS, PHONE, EMAIL		PO Box 1471, Baton Rouge, LA 70821, (225) 389-3186, tstephens@brla.gov							
SERVICES COMMENCED BY THIS FIRM (MM/YY)		02/07		TOTAL CONSULTANT CONTRACT COST (\$1,000'S)				\$ 1,213	
SERVICES COMPLETED BY THIS FIRM (MM/YY)		07/11		COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)				\$ 1,213	

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

GEC served as the prime consultant, providing all environmental investigations, preliminary plans, and final plans for the widening, new bridge crossing, and raised medians along Highland Road from Perkins Road to Airline Highway. The new bridge crossings at both Ward's Creek and Old Ward's Creek tied to completed intersection improvements at Perkins Road and at Airline Highway. GEC's contract responsibilities included the design and detail of the roadway and bridges, topographic survey, right-of-way maps, environmental permitting, coordinating with railroad, utilities, and stakeholders, and hydraulic analysis.

The new bridge crossings at both Ward's Creek and Old Ward's Creek tied to completed intersection improvements at Perkins Road and at Airline Highway. GEC's design included an at-grade railroad crossing with the Kansas City Southern Railroad.

The bridges are 240' (6 spans at 40') and 160' (4 spans at 40') in length respectively composed of quad beams or 24" pile bents all designed from AASHTO LRFD. GEC's contract responsibilities included the design and detail of the roadway and bridges, topographic survey, right-of-way maps, environmental permitting, coordinate with railroad and utilities and hydraulic analysis.

GEC conducted an Environmental Site Assessment (ESA) and a wetland delineation. The ESA was performed in accordance with the scope and limitations of ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. In order to characterize environmental conditions for the project GEC: (1) reviewed federal, state, and local environmental databases; (2) conducted historical research; (3) interviewed pertinent personnel; and (4) performed a site investigation. This assessment revealed no recognized environmental conditions (RECs) on or in the vicinity of this project.

The wetland delineation was conducted in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. The results of the delineation were compiled in a formal report and submitted to the New Orleans District, Corps of Engineers for an approved Jurisdictional Determination.

Firm Members Involved: Jeff Robinson, Laura Carnes, Jason Avant, Will Grant, Barry McCoy



GEC provided a **Phase I Environmental Site Assessment** along with **wetland delineation** for this bridge replacement project in Baton Rouge.

FIRM NAME		G.E.C., Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*		Environmental	**	
PROJECT NAME		Consulting Engineer (Environmental Services)				FIRM RESPONSIBILITY (PRIME OR SUB?)		Prime
PROJECT NUMBER		N/A		OWNER'S NAME		Greater New Orleans Expressway Commission (GNOEC)		
PROJECT LOCATION		St. Tammany and Jefferson Parishes, Louisiana			OWNER'S PROJECT MANAGER		Carlton Dufrechou	
OWNER'S ADDRESS, PHONE, EMAIL		PO Box 7656, Metairie, LA 70010, (504) 835-3118, cdufrechou@gnoec.org						
SERVICES COMMENCED BY THIS FIRM (MM/YY)		1991		TOTAL CONSULTANT CONTRACT COST (\$1,000'S)		\$ 1,000 (annual)		
SERVICES COMPLETED BY THIS FIRM (MM/YY)		Ongoing		COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)		\$ 1,000 (annual)		

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

For over 31 years, GEC has served as the Consulting Engineer for the Greater New Orleans Expressway Commission (GNOEC) Lake Pontchartrain Causeway. In this role, GEC has provided a multitude of services to support the maintenance, improvement, and operations of the Lake Pontchartrain Causeway Bridge, including environmental program management oversight. GEC manages regulatory stakeholder solicitation, environmental field investigations and assessments, and National Environmental Policy Act (NEPA) documentation. Projects documented as Categorical Exclusions include:

- H.009324, North Shore Toll Plaza Lane Modification (August 2011)
- H.009322, Piling Restoration-Transformer Platforms (July 2012)
- H.009323, North Channel Bascule Control System Replacement (July 2012)
- H.009325, South Channel Fender Repair / Structural Improvements (July 2012)
- H.005970, Replace Damaged Traffic Signs (NB/SB) (September 2012)
- H.005971, Modifications to Cable Tray Support System (September 2012)
- H.005973, Realignment of Northbound Bridge Span (September 2012)
- H.005972, Modifications to the Nine Mile Turnaround Spans (September 2016)
- H.011231, North Toll Plaza Scour Protection (April 2014)
- H.011206, Cable Support Tray Repairs (April 2014)
- H.011217, Demolition of the Nine Mile Turnaround (April 2014)

GEC documented these projects in accordance with LADOTD's Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes. GEC prepared preliminary Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using the Department's Environmental Determination Checklist. GEC prepared and conducted regulatory Solicitations of Views (SOVs), prepared responses to regulatory comments/guidance, conducted wetland delineations, prepared wetland/water body survey reports, threatened and endangered species reports, and prepared Coastal Use Permit applications. GEC also completed a bridge permit amendment application for the US Coast Guard.

GEC prepared Spill Prevention, Control, and Countermeasure (SPCC) Plans for the Causeway Bridge and Nine Raw Sugar Mills in Louisiana. GEC prepares, maintains, and updates SPCC Plans in accordance with requirements contained in 40 CFR Part 112 and LAC 33:IX.9 to detail contingency planning, operating procedures, and BMPs to prevent and control the discharge of pollutants resulting from spill events.

Firm Members Involved: Jeff Robinson, Laura Carnes, Nicole Forsyth



GEC manages regulatory stakeholder solicitation, environmental field investigations and assessments, and National Environmental Policy Act (NEPA) documentation in accordance with LADOTD's Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes

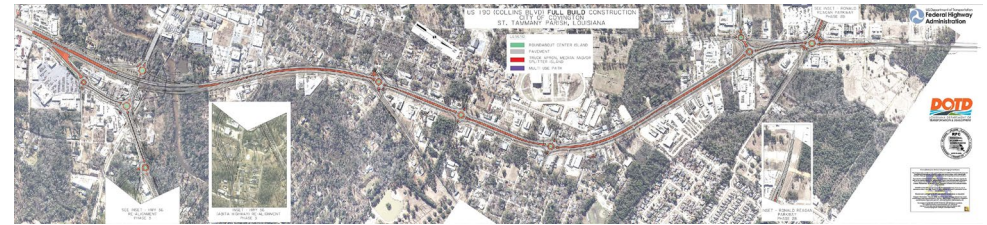
FIRM NAME		G.E.C., Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*		Environmental		**	
PROJECT NAME		US 190 / Collins Boulevard Widening (LA 25 to US 190B)				FIRM RESPONSIBILITY (PRIME OR SUB?)		Prime	
PROJECT NUMBER		H.004987		OWNER'S NAME		New Orleans Regional Planning Commission			
PROJECT LOCATION		Covington, Louisiana		OWNER'S PROJECT MANAGER		Jeff Roesel			
OWNER'S ADDRESS, PHONE, EMAIL		10 Veterans Blvd., New Orleans, LA, (504) 483-8528, jroesel@norpc.org							
SERVICES COMMENCED BY THIS FIRM (MM/YY)		01/14		TOTAL CONSULTANT CONTRACT COST (\$1,000'S)				\$ 426	
SERVICES COMPLETED BY THIS FIRM (MM/YY)		05/17		COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)				\$ 426	

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

GEC provided professional consulting services for an Environmental Assessment (EA) with Findings of No Significant Impact (FONSI), and Line and Grade Study for the widening of US 190 in Covington in accordance with LADOTD, FHWA and NEPA standards. Public outreach meetings were held to provide interested parties an opportunity to learn about the project. The project corridor spans approximately 2.7 miles and currently consists of two travel lanes and a center turn lane from south of LA 25 to north of the two-lane US 190 bridge over the Bogue Falaya River in the south. The project corridor included 20 intersections, nine of which are signalized and 11 of which are unsignalized, and does not provide areas designated along the roadway for bicyclists and pedestrians. The purpose of the widening was to improve capacity, and reduce congestion and delays along the corridor.

GEC's services including **wetlands mitigation and permitting**, along with **threatened and endangered species impacts**.

GEC provided development of a **Purpose and Need statement, agency coordination/ Solicitation of Views, and prepared environmental documentation**. The report addressed **wetlands mitigation and permitting**, land use and community charrette, economic activities, historic, cultural social and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, contaminated sites and required permits, and **endangered or threatened species and their habitat**. GEC staff obtained, organized, and reviewed engineering data including topographic, parish and state highway maps as well as aerial photography; reviewed existing traffic data, accident data, highway plans and other structural data, hydrologic and hydraulic data, utility information, previous studies and reports, existing survey data. They performed traffic impact analysis, collection of daily traffic counts, peak period traffic volumes, turning movements and vehicle data counts, crash data review, conceptual design; preliminary quantities and cost estimates; preparation of final report and recommendations our staff developed, evaluated and analyzed two alternative alignments, and established roadway; geometry and bridge design criteria; bridge structure sections; intersection/interchange layouts.



The alternatives evaluated will widen the roadway to include four 12-foot travel lanes separated by a 26-foot-wide median. A 7-foot wide paved shoulder and a curb and gutter located along both sides of the roadway. The US 190 bridge over the Bogue Falaya River will be widened to four travel lanes, with a section of the roadway between the bridge and LA 437 to include five 12-foot travel lanes to extend a right turn lane onto LA 437. Ten roundabouts are to replace signalized intersections to facilitate traffic flow. A multi-use pedestrian/bicycle path will be constructed along the project corridor from LA 25 to the existing Tammany Trace where it crosses the Bogue Falaya River.

Firm Members Involved: Jeff Robinson, Laura Carnes, Nicole Forsyth

FIRM NAME		G.E.C., Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*		Environmental		**	
PROJECT NAME		Third Party EIS for the Mid-Barataria Sediment Diversion				FIRM RESPONSIBILITY (PRIME OR SUB?)		Prime	
PROJECT NUMBER		4400010455		OWNER'S NAME		Coastal Protection and Restoration Authority			
PROJECT LOCATION		Myrtle Grove, Plaquemines Parish, Louisiana				OWNER'S PROJECT MANAGER		Brad Barth / Liz Davoli	
OWNER'S ADDRESS, PHONE, EMAIL		150 Terrace Avenue, Baton Rouge, LA 70802, (225) 342-4553, brad.barth@la.gov / elizabeth.davoli@la.gov							
SERVICES COMMENCED BY THIS FIRM (MM/YY)		02/17		TOTAL CONSULTANT CONTRACT COST (\$1,000'S)				\$ 7,387	
SERVICES COMPLETED BY THIS FIRM (MM/YY)		02/23		COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)				\$ 3,700	

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

The Mid-Barataria Sediment Diversion (MBSD) was one of 33 conceptual projects identified by the Louisiana Coastal Protection and Restoration Authority (CPRA) for the first implementation period (2012-2031) in Louisiana's Comprehensive Master Plan for a Sustainable Coast (2012 Master Plan). Through the diversion project, CPRA proposes to restore and sustain marshes by diverting sediment and nutrient-rich waters from the Mississippi River into the Barataria Basin. The primary feature of the MBSD is a proposed gated diversion structure from the west bank of the Mississippi River levee at River Mile 60.7, to the Barataria Basin. Coincidental to the main structure are replacement of LA Hwy 23 with a fixed-span bridge over the conveyance channel, modification of area rail lines, and associated utility and pipeline relocations and protection. This project was approved for funding in the Deepwater Horizon (DWH) Oil Spill Final Programmatic Damage Assessment and Restoration Plan and Final Programmatic EIS (PDARP/PEIS) published by the DWH Natural Resource Trustees.

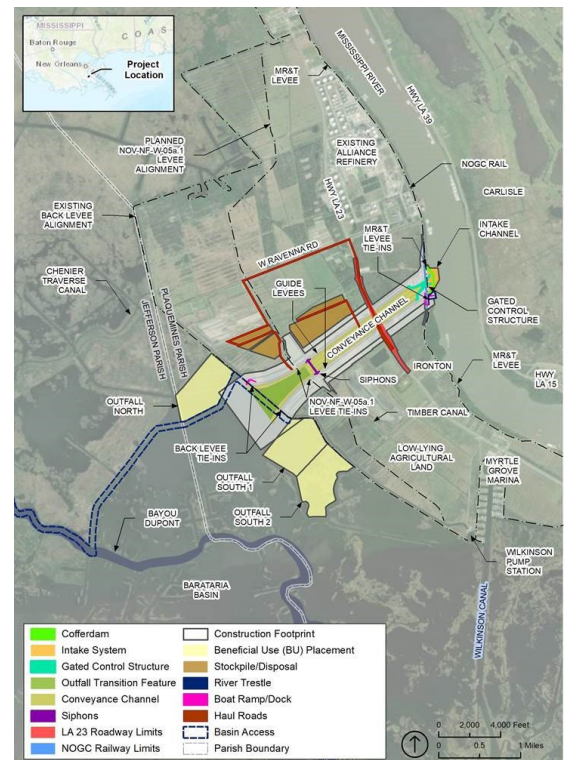
CPRA applied for a U.S. Army Corps of Engineers (USACE) permit pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. GEC prepared the third party EIS to inform the decision of the New Orleans District USACE (USACE-MVN) relative to issuance of those permits and permissions pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended (42 U.S.C. 4321 et seq.) and the Council on Environmental Quality NEPA regulations (40 CFR Parts 1500-1 508). The Third-Party EIS assessed the potential negative and beneficial impacts associated with the construction and operation of the project proposed by the Louisiana CPRA and was consistent with the DWH PDARP/PEIS and associated Record of Decision.

The US Army Corps of Engineers, New Orleans District (USACE-MVN) was the lead federal agency preparing the EIS and directing GEC, filling the role of third-party contractor. GEC had 12 team members to assist in this NEPA effort. GEC was the Prime contractor and overall project management firm, primarily responsible for NEPA documentation, environmental site assessments, natural resources, socioeconomics, data collection analyses and management, hydrologic and coastal modeling, and restoration planning. GEC shared responsibilities with its subcontractors.

This complex and highly controversial project was the first of its kind to be considered subject to the requirements set forth in Title 41 of the Fixing America's Surface Transportation Act (FAST-41) (42 USC §4370m et seq.) and added to the Permitting Dashboard at the request of a non-federal entity (CPRA) and the first project included on the Permitting Dashboard for which USACE is the lead federal agency. Additionally, the project included seven cooperating agencies, 10 commenting agencies, and 11 consulting tribes for the NEPA process and 10 cooperating agencies, four participating agencies, and three participating tribes for the FAST-41 process. This EIS was closely coordinated with NOAA/NMFS in regards to compliance with the Endangered Species Act (ESA), Marine Mammal Protection Act (MMPA), Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), Oil Pollution Act (OPA), and Natural Resource Damage Assessment (NRDA) restoration planning.

Firm Members Involved: Laura Carnes, Nicole Forsyth, Bliss Bernard, Jeffrey Robinson, Barry McCoy, Will Grant, Carlos Perez

GEC managed assessments and impact evaluations to oysters and the Barataria dolphins along with completing a Section 408 permit application related to the threatened and endangered species and permit application aspects of current advertisement.



FIRM NAME	ENCOS, Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*	Data Collection	**
PROJECT NAME	System Wide Assessment Monitoring Program (SWAMP)			FIRM RESPONSIBILITY (PRIME OR SUB?)	Prime
PROJECT NUMBER	CPRA Contract # 4400021492	OWNER'S NAME	Coastal Protection and Restoration Authority		
PROJECT LOCATION	Coastal Louisiana	OWNER'S PROJECT MANAGER	Todd Folsie		
OWNER'S ADDRESS, PHONE, EMAIL	150 Terrace Ave, Baton Rouge, (985) 449-4082; LA 70802; Todd.Folsie@LA.GOV				
SERVICES COMMENCED BY THIS FIRM (MM/YY)	06/21	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)	\$60,056.64		
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)	\$30,000.00		

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

The System Wide Assessment and Monitoring Program (SWAMP) was incorporated by the Coastal Protection and Restoration Authority (CPRA) as a means of long-term monitoring to meet the needs of the state's coastal protection and restoration plans. Alongside the Barrier Island Comprehensive Monitoring (BICM) Program and the Coastwide Reference Monitoring System (CRMS), SWAMP was implemented as the water quality monitoring variable to enhance ecosystem modelers perspective on the health and ecosystem dynamics of coastal Louisiana. The data collection from these long-term monitoring programs has supported the design, implementation, and adaptive management of existing restoration projects and future projects designed through Louisiana's Comprehensive Master Plan for a Sustainable Coast.

SWAMP teams collect Discrete water Samples and surface water grab samples at 120 locations within the Atchafalaya, Barataria, Pontchartrain, Breton Sound Basins, Terrebonne, Teche/Vermillion, Mermentau, and Calcasieu/Sabine hydrologic basins. Data collected monitors environmental drivers to assess how these drivers influence systemic change that affects coastal restoration efforts.

Firm Members Involved: Joel Chaky; Steven Tidwell; Coklin Nguyen; Rachel Mixon; Jeremy Thompson

FIRM NAME	ENCOS, Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*	Other (Biologic Oyster Assessment)	**
PROJECT NAME	No Name Bayou Oyster Bottom Assessment			FIRM RESPONSIBILITY (PRIME OR SUB?)	Sub
PROJECT NUMBER	LCP22442	OWNER'S NAME	Freese and Nichols/CPRA		
PROJECT LOCATION	Calcasieu Lake, Cameron Parish, Louisiana		OWNER'S PROJECT MANAGER	Aaron Petty and Nina Reins	
OWNER'S ADDRESS, PHONE, EMAIL	900 Camp Street, 3rd Floor, #354; New Orleans, LA 70130; aaron.Petty@freese.com; Nina.Reins@freese.com				
SERVICES COMMENCED BY THIS FIRM (MM/YY)	06/22	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)			\$28.7
SERVICES COMPLETED BY THIS FIRM (MM/YY)	06/22	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)			\$28.7

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

ENCOS is a member of the Freese and Nichols Oyster Biologic Services team for CPRA and assisted with logistics, equipment, field personnel and safety diver for oyster biologic services required for restoration projects. This project was to assess the borrow area and pipeline corridor for CS-0078 Marsh Creation Cell near No Name Bayou at the southern end of Calcasieu Lake east of the Calcasieu Ship Channel. ENCOS personnel created the project's digital data collection package for the Hypack program. The team also created the transects, poling points and then loaded that information on the vessel's navigation GPS. The data collected was recorded in real time on a fully rugged Panasonic laptop computer with a Trimble R2 submeter WAAS GPS. When the poling portion of the project was complete, the data were analyzed to determine where to dredge the moderately firm and firm areas identified by poling. Additional areas identified as exposed shells were sampled using a square meter aluminum sample grid. The total area assessed was approximately 1,500 acres in size.

Firm Members Involved: Joel Chaky; Steven Tidwell; Coklin Nguyen; Rachel Mixon

FIRM NAME	ENCOS, Inc.		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*	Other (Ecological Surveys)	**
PROJECT NAME	Williams LEG Pipeline Project			FIRM RESPONSIBILITY (PRIME OR SUB?)	Sub
PROJECT NUMBER	178860	OWNER'S NAME	Power Engineers		
PROJECT LOCATION	Beauregard, Calcasieu, Caddo, DeSoto, Sabine, Vernon Parishes, Louisiana		OWNER'S PROJECT MANAGER	Jude Ledoux	
OWNER'S ADDRESS, PHONE, EMAIL	301 Main St., Suite 2200, Baton Rouge, LA 70802, (225) 900-8012jude.ledoux@powereng.com				
SERVICES COMMENCED BY THIS FIRM (MM/YY)	10/22	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)			\$135
SERVICES COMPLETED BY THIS FIRM (MM/YY)	08/23	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)			\$135

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

ENOCs is a subcontractor of Powers Engineers and assisted with logistics, equipment, and field personnel for ecological services required for the proposed Williams LEG Pipeline Project. This project was to evaluate the extent of potential project impacts to potentially jurisdictional waters of the United States, including wetlands. ENCOS personnel provided field support along an approximately 165-mile proposed pipeline route stretching across Beauregard, Calcasieu, Caddo, DeSoto, Sabine, and Vernon Parishes, Louisiana. The wetland and waterbody delineation were conducted in accordance with the USACE 1987 Wetland Delineation Manual and Atlantic and Gulf Coast Regional Supplemental Manual and Guidance. Wetland boundaries and ordinary high water mark boundaries of waterbodies were recorded using sub-meter real-time differentially corrected Global Positioning System (GPS) technology.

Simultaneous with the wetland delineation, an ENCOS scientist conducted T&E species habitat survey of the proposed project area, based on the Federal and State listed species for the proposed areas. The field evaluation documented existing environmental conditions used in subsequent discussions with agencies regarding rare and sensitive species.

Firm Members Involved: Coklin Nguyen; Rachel Mixon; Jeremy Thompson

FIRM NAME	Southern Shores Engineering, LLC		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*	Environmental	**
PROJECT NAME	Golden Triangle Environmental Restoration Project			FIRM RESPONSIBILITY (PRIME OR SUB?)	Sub
PROJECT NUMBER	PO-0163	OWNER'S NAME	CPRA		
PROJECT LOCATION	Orleans / St. Bernard Parishes, Louisiana		OWNER'S PROJECT MANAGER	Vida Carver	
OWNER'S ADDRESS, PHONE, EMAIL	150 Terrace Ave, Baton Rouge, LA 70802, 225-342-2799, vida.carver@la.gov				
SERVICES COMMENCED BY THIS FIRM (MM/YY)	07/20	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)	\$ 950		
SERVICES COMPLETED BY THIS FIRM (MM/YY)	08/22	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)	\$ 688		

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

The Golden Triangle wetlands are an important natural buffer that is one of the multiple lines of defense protecting vulnerable communities in and around the city of New Orleans from storm surge. The goal of the Golden Triangle Ecosystem Restoration Project was to restore wetland habitat and reduce wave erosion outside of the Inner Harbor Navigation Canal surge barrier.

Whitney Thompson, P.E., led the data collection and engineering & design phases of this project as the Engineer of Record. Once the State of Louisiana was ready to put the project out for Bid, Southern Shores Engineering, LLC was retained to prepare the bid documents, assist with bidding, and conduct construction administration and oversight for CPRA. Christopher Paul and John Darnall were design engineers on the environmental design, permitting, and planning efforts. Field and data collections including the identification of a suitable borrow area within Lake Borgne were conducted utilizing a variety of remote sensing and in-situ investigations. The main project components included:

- Collecting geophysical (sidescan sonar, seismic, magnetometer, bathymetry) and geotechnical (vibracores, grab samples) data
- Collecting oceanographic data (waves, currents, wind) to support design and numerical modeling
- Identification of potential foraging habitat for Atlantic sturgeon
- Cultural resource investigation & Environmental Assessment
- Wetland and Pond Design
- Permitting
- Development of Plans and Specifications and an opinion of probable cost
- Bid Support & Construction Administration and Observation

The final design of this project consisted of the creation of 780 acres of marsh, utilizing a borrow source within Lake Borgne. The design also included several pond features. SSE engineers developed the project layout, utilizing existing geomorphic features to design containment & facilitate wetland construction, focusing on the most degraded sections of marsh requiring restoration.



Firm Members Involved: Christopher Paul, Whitney Thompson, John Darnall

FIRM NAME		Southern Shores Engineering, LLC		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*		Environmental, Planning		**	
PROJECT NAME		Bayou Dularge Ecosystem Restoration Project				FIRM RESPONSIBILITY (PRIME OR SUB?)		Sub	
PROJECT NUMBER		TE-0170		OWNER'S NAME		CPRA			
PROJECT LOCATION		Terrebonne Parish, Louisiana			OWNER'S PROJECT MANAGER		Todd Baker		
OWNER'S ADDRESS, PHONE, EMAIL		150 Terrace Ave, Baton Rouge, LA 70802, 225-342-4807, Todd.Baker@la.gov							
SERVICES COMMENCED BY THIS FIRM (MM/YY)		07/22		TOTAL CONSULTANT CONTRACT COST (\$1,000'S)				\$ 200	
SERVICES COMPLETED BY THIS FIRM (MM/YY)		Ongoing		COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)				\$ 21	

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

Sigma Consulting Group, Inc. subcontracted SSE for planning, engineering, and design services of the Bayou Dularge Ecosystem Restoration Project. SSE's role was to lead dredging and equipment access design as well as performing independent technical review of marsh and coastal ridge habitat restoration features. Score protection and bank stabilization features were designed to mitigate impacts from the hydrologic control structure that were observed within the numerical models.

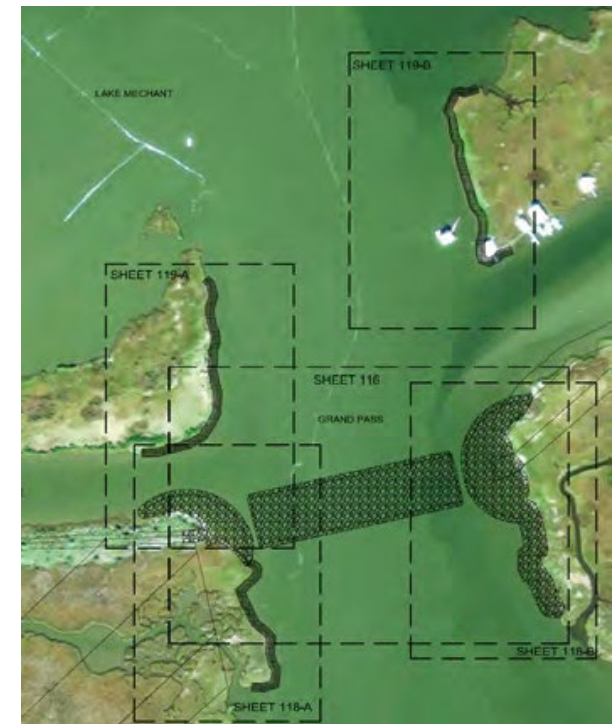
SSE collaborated with Sigma and the Owner to develop a borrow area and sediment conveyance corridor alternatives designed to minimize or eliminate impacts to camp residences and oyster leases in the area while maximizing dredging efficiency.

SSE also collaborated with Sigma and the Owner to develop shoreline and scour protection designs within Grand Pass. A hydrodynamic modeling study of the sheet pile wall structure was conducted by others, and results indicated several upstream and downstream eddies were generated as a result of reducing the cross-sectional area through Grand Pass. It was indicated that these eddies could potentially result in scour at the toe of the sheet pile structure and along the eastern and western banks of Grand Pass. Bank stabilization was addressed via a combination of riprap revetment and gabion mattresses.

The project will use borrow material from Lake Mechant to create and nourish 629 acres of marsh on the south side of Bayou Dularge; restore 21,500 linear feet of ridge along the southern bank line of Bayou Dularge; and reestablish historic hydrologic and salinity conditions by installing a structure that reduces the cross-sectional area and flow through Grand Pass and the saltwater intrusion into the project area.

SSE engineers assisted Sigma consulting with the final design of the project, including the development of Plans, Specifications, and the Engineer's Opinion of Probable Cost. This project was completed on-time and within budget.

Firm Members Involved: Christopher Paul, Whitney Thompson, John Darnall



FIRM NAME	Southern Shores Engineering, LLC		PAST PERFORMANCE EVALUATION DISCIPLINE(S)*	Environmental, Planning	**
PROJECT NAME	Proctor Point Ecosystem Restoration and Shoreline Stabilization Feasibility Study			FIRM RESPONSIBILITY (PRIME OR SUB?)	Prime
PROJECT NUMBER	N/A	OWNER'S NAME	Restoration Systems, LLC		
PROJECT LOCATION	St. Bernard Parish, Louisiana		OWNER'S PROJECT MANAGER	Worth Creech	
OWNER'S ADDRESS, PHONE, EMAIL	1101 Haynes Street, Suite 211, Raleigh, NC 27604, 919-389-3888, worth@restorationsystems.com				
SERVICES COMMENCED BY THIS FIRM (MM/YY)	03/21	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)			\$ 4
SERVICES COMPLETED BY THIS FIRM (MM/YY)	11/21	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)			\$ 4

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

In 2021, SSE was contracted by Restoration Systems to conduct a feasibility study for the Proctor Point Ecosystem Restoration and Shoreline Stabilization Project.

The Proctor Point wetlands are an important natural buffer that is one of the multiple lines of defense protecting vulnerable communities in and around the city of New Orleans from storm surge. It is one of the last remaining marsh areas adjacent to Lake Pontchartrain and Lake Borgne. The Proctor Point wetlands consist of brackish and saline marshes and serve as valuable habitat for wildlife, fish, and shellfish.

Specific goals of the feasibility study are to evaluate potential 1,000-acre marsh enhancement sites, identify potential existing borrow areas, conceptually estimate volume and cost to construct the project, and identify potential shoreline protection features. Additional tasks include evaluating water level, vegetation classifications, and wind and wave characteristics of the project area.

SSE evaluated the feasibility of multiple marsh creation areas and borrow areas throughout Proctor Point and Lake Borgne. Marsh creation area alternatives were proposed along Proctor Point and consisted of approximately 1,000 acre areas. In addition, approximately 16,500 LNFT of shoreline protection features were recommended along the Proctor Point shoreline.

This project was completed on-time and within budget.

Firm Members Involved: Christopher Paul, Whitney Thompson, John Darnall



Section 18

WHAT THEY'RE SAYING

LADOTD Environmental Project Manager stated the following regarding GEC's performance as a prime consultant for H.004987 US 190 Collins Blvd Environmental Assessment:

Overall NEPA Document and Project Management

NEPA document quality was very good and approved by FHWA without substantive comments or additions. Jeff Robinson and his group at GEC worked through numerous project changes and timeline starts and stops with a "can-do" attitude. Jeff handled and coordinated issues that arose, including changes in right-of-way requirements and additional landowner outreach. Excellent coordination with DOTD Environmental.

Wetlands, T&E, and Biological Assessment

Barry McCoy of GEC has exceptional knowledge of procedures for field surveys and needs little to no guidance from DOTD. Submittals required no major edits prior to submittal to regulatory agencies.

Public Outreach

The Public Meetings and Public Hearing held were very well attended. GEC used an innovative technique to reduce the noise overlap of the presentation and discussions at the exhibits. By providing multiple computer terminals with headphones, meeting attendees could watch and hear the PowerPoint presentation then move to the exhibit station for Q&A with the project team. An excellent solution for meetings in small rooms or rooms with no dividers.

18. Approach and Methodology

Summary of Experience

G.E.C., Inc. (GEC) is pleased to present LADOTD with a team of highly qualified experts to meet the requirements of any task orders issued as a part of this IDIQ contract. GEC has over 36 years of environmental experience, including wetland delineations, biological assessments, phase 1 environmental site assessments, permitting, NEPA, and asbestos and lead inspections for transportation, drainage, bridge, lighting, and park facilities projects. GEC sub-consultants include **Southern Shores Engineering, LLC (SSE), a woman-owned, DBE**, to provide assistance in wetland delineations and permitting, and **ENCOS, Inc., a LED Certified Small and Emerging Business Enterprise and Hudson Initiative Firm**, to perform underwater biological surveys and oyster surveys and analysis. **This strategically selected team consists of recognized experts in each of the elements of work required to complete any task orders that may be issued under this contract. The GEC Team will provide the required services needed to provide the highest quality and success for projects to advance to future phases.**

Scope Understanding

Task Orders that may be issued align exceptionally well with GEC Team expertise. These tasks may include permitting, wetland delineations, and biological assessments for a new bridge crossing or roadway widening. For planned transportation projects traversing the Calcasieu and Sabine Lake, evaluations of oyster water bottoms in accordance with LDWF may be required, as well as other possible locations. The GEC Team has significant experience navigating the environmental planning and permitting process that addresses all aspects of environmental review, including identification, avoidance, and mitigation of potential impacts to the environment. **The GEC Team understands the importance of protecting natural resources and will make this a top priority.** This team has provided environmental consulting services for thousands of projects including wetland delineations, permit applications, Environmental Site Assessments (ESA), biological assessments, mitigation plans, public outreach, T&E surveys, oyster assessments, bird surveys, and is familiar with the process and coordination with all required entities. GEC is fortunate to have acquired environmental work experience through the extensive previous work conducted, including for both the U.S. Army Corps of Engineers (USACE), New Orleans District, and the Corps nationwide. **GEC has developed a reputation with USACE as a nationally recognized technical resource for infrastructure planning and design.** The GEC Team provides clients with a multi-disciplinary environmental staff that includes engineers, biologists, divers, foresters, botanists, ecologists, geologists, geographers, GIS professionals, landscape architects, and archaeologists.

GEC's approach to task order completion within this IDIQ contract is characterized by a deep awareness of the broader project context. By expediting services while maintaining a high level of quality, GEC contributes to the seamless progression of subsequent engineering and construction stages, ultimately contributing to the overall success of the project.

Approach

The GEC Team understands the importance of having an IDIQ as a valuable tool to assist LADOTD in providing environmental related services. **The GEC Team will adopt a strategic**

and proactive approach when it comes to fulfilling the task orders issued as a part of this IDIQ contract, recognizing the significant impact that these task orders can have on subsequent phases of engineering and construction phases for future transportation projects. Therefore, the GEC Team will place a strong emphasis on expediting services to ensure a seamless progression of the projects without any unnecessary delays.

Methodology

The GEC Team understands the typical approach to task orders. Our approach to this IDIQ will vary depending on the scope & previous studies/work that may have already been performed. The GEC Team stands ready to serve as an extension of LADOTD staff to provide effective solutions while implementing cost-saving methods, where identified, while being responsive & attentive throughout the project. Following is an overview of the project development process GEC will follow for a standard project that may be issued as a part of this IDIQ; however, it will be altered appropriately for each independent task order scope. A sample project schedule is included (Figure 1) displaying a typical task order that would be issued as a part of the IDIQ contract.

Project Kickoff & Field Visit

Within one week of Notice to Proceed (NTP), GEC will schedule a kickoff meeting with LADOTD staff to define the scope, determine areas of concern and establish procedures for the project. The GEC Team will perform a team site visit to assess conditions & identify constraints. Additionally, a comprehensive list of expected deliverables, organized according to submittal stages will be shared with all attendees. Steps include:

1. Project points of contact, schedule, budget, invoicing procedures, QA/QC procedures & other project management tasks will be reviewed at the meeting.
2. Discuss identified constraints, request and review any design data, as-builts, environmental documents, and other relevant data that is available.
3. Minutes from this meeting will be prepared and distributed to all attendees and will become a part of the official project record.

The GEC Team's Project Manager, Jeff Robinson, will develop an initial Work Plan that associates the scope items of work, project schedule, and budget in one concise document and format. This initial framework will be developed early on to create man-hours, budget, and schedule. It is then used throughout the duration of the project to further manage submittal deadlines and progress.

Within one week of the kickoff meeting, GEC will submit the revised Work Plan, confirming the scope of services and schedule for the project.

Desktop Environmental Analysis

Within one week of the approval of the Work Plan, GEC will initiate environmental services, beginning with the desktop environmental analysis. The routine permitting, wetland delineation, biological assessments, T&E surveys and other related environmental tasks' procedures begin with a desktop evaluation including preliminary data gathering and synthesis including reviews and GIS base mapping of aerial photography; U.S. Department of Agriculture, Natural Resource Conservation Service (NRCS) soil survey maps; U.S. Geological Survey (USGS) topographic quadrangle maps; U.S. Fish and Wildlife

Service, National Wetland Inventory maps, scenic streams query, landowner data, public oyster seed grounds, USFWS IPac Planning tool, NOAA Fisheries, and other pertinent data.

Following data synthesis, the appropriate level of wetland delineation effort and required permits is determined. A cursory site visit is conducted, if practicable, to verify that the site conditions identified in the synthesized data still prevail, and a survey plan is designed if a Level 2 or 3 determination is required.

If necessary, any listed species (threatened and endangered species and designated critical habitat) will be identified in the project area and potential impacts of construction on those species will be addressed. The locations of any species of concern or critical habitat found will be incorporated in the GIS database, allowing visual representations of potential impacts to be depicted and quantified.

GIS & CADD

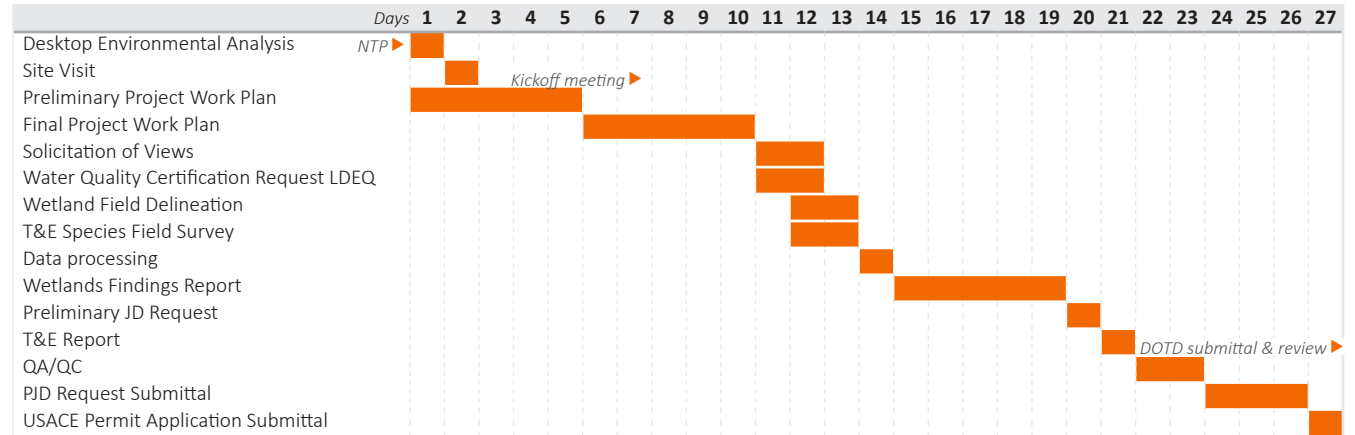
A GIS database will be created and maintained throughout the project. It will be updated at each step of the project. Following completion of the preliminary base map development, individual features, or data layers, will be combined to identify environmental factors within each corridor. For example, jurisdictional wetlands must meet three criteria. A wetland must have hydrophytic vegetation, hydric soils and wetland hydrology. The preliminary base map will contain soils, hydrology, and land use/land cover features. A model will be developed to identify geographic areas within each layer meeting the wetland criteria, and then combine the layers with wetlands identified as those areas meeting the jurisdictional definition. Similar processes will be performed for each of the other identified environmental factors. Once each environmental factor is identified, maps showing the location of each factor will be produced and statistics extracted to quantify each factor within each project.

Wetland Delineations/Findings & Wetland Permitting

In general, wetlands and other Waters of the U.S. are federally protected under Section 404 of the Clean Water Act. The definition of wetlands (40 Code of Federal Regulations §230.3(t)) is "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas."

GEC Biologists perform a wetlands/waters delineation of the survey area in accordance with the three-parameter methodology outlined in the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual (Manual; Environmental Laboratory, 1987); the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Environmental Laboratory, 2010); and guidance

Figure 4. Sample Project Schedule



This schedule assumes the project includes a two-lane rural bridge replacement, crossing a named, non-navigable, non-scenic bayou, outside of the coastal zone, where IPac indicates the potential for bat species, which were not observed during subsequent field survey.

issued jointly by the U.S. Environmental Protection Agency and the USACE that resulted from the Rapanos vs. U.S. and Carabell vs. U.S. Supreme Court decisions (Rapanos, et al., 2006; Carabell et al., 2005). The three parameters required for identifying a wetland are as follows:

- *The presence of hydrophytic vegetation* - Hydrophytic vegetation is determined by the dominant species present at any given data point, where each species is assigned a plant indicator status as to its preference/tolerance for wetland conditions. Data points with dominant species that are greater than 50 percent facultative or wetter are considered to meet the hydrophytic vegetation criterion.
- *The presence of hydrology* - At each data point, the delineator evaluates the area for evidence of hydrology. The Manual identifies both primary and secondary hydrologic indicators, where one primary indicator or two secondary indicators must be observed in order for the data point to meet the hydrology criterion. Indicators include saturated soils in the upper 12 inches, inundation, water marks, drift lines, sediment deposits, drainage patterns, oxidized root channels in the upper 12 inches, water-stained leaves, local soil survey data, etc.
- *The presence of hydric soils* - Evaluating the presence of hydric soils requires the delineator to sample the upper 12 inches of soil to obtain a profile description and identify hydric soil indicators, such as histosols, histic epipedons, sulfidic odor, aquatic moisture regime, reducing conditions, gleyed or low-chroma colors, concretions, etc. In most cases, hydric soils are most efficiently identified by the profile description, where the soil coloration is compared to the Munsell Color chart system to determine if the material meets hydric conditions.

GEC will notify the LADOTD Environmental Section when fieldwork is scheduled to begin and end. On-site wetland surveys greater than 5 acres are completed using pedestrian surveys conducted on equidistant transect lines, and meander surveys are conducted on sites less than 5 acres. Once wetland sites are identified, they are delineated in accordance with the 1987 Corps of Engineers Wetlands Delineation Manual as augmented by the

applicable regional supplement, and typical parameters for jurisdictional determination/delineation are recorded including, soil samples, site proposals, surrounding area and soil sample and Corps datasheets including descriptions of vegetation and hydrology. Wetlands are described in the field using Cowardin classification (Cowardin, et al., 1979), which categorizes wetlands based on the associated ecological system: marine, estuarine, riverine, lacustrine, & palustrine. Wetland and upland data sheets are documented, and photographs are taken at each area of interest. Surveys are performed until all areas have been observed, and all wetlands are mapped using GPS equipment and processed in GEC's GIS laboratory to facilitate analyses and reporting. Interviews with current and past property owners, operators, and occupants will be conducted if necessary.

All environmental data will be collected using global positioning system (GPS) equipment, and field data will be stored, managed, merged with plan and profile computer-aided design and drafting (CADD) files and analyzed using geographic information systems (GIS) to facilitate reporting and regulatory coordination. Using this methodology, GEC will be able to expedite regulatory review and permitting, and all permits necessary for project construction. GEC GIS data include, in part, aerial photography, USGS topographic maps, NWI maps, soil surveys, wetlands, Other Waters and T/E field survey data, highway plan and profile designs, NRCS WRP and CRP properties, state and federally owned stewardship areas, CBRS, LDWF natural heritage data and scenic streams. GEC will create permit drawings using all previously collected data.

GEC performs wetland delineations at an accelerated pace. **For roadway widening projects, GEC biologists can typically delineate, on average, one-two miles per day.** Drainage improvements to existing waterways can take longer; however, GEC can typically delineate up to 1,000 feet of streambank per day. Discrete roadway improvements (e.g. intersection, bridge, culvert) typically take one day or less.

The process concludes with the preparation of a Wetlands Finding Report complying with current FHWA guidance and mapping of the jurisdictional wetlands on the roadway plan sheets. GEC's experience and understanding of wetlands and regulatory requirements for development within wetlands offer LADOTD the ability to take jurisdictional wetlands within a proposed project area from the design stage through construction, including identification and quantification of wetland acreage, obtaining jurisdictional determinations, preparation of the Section 404 permit application, including all supporting documentation and mapping, development and implementation of mitigation plans, and construction and post construction monitoring to ensure compliance with all conditions of the Section 404 permit. **GEC prepares a wetlands findings report within one week of fieldwork, and after review/concurrence with LADOTD, is prepared to submit a preliminary jurisdictional determination (PJD) request to USACE.** USACE review timelines run longer. The New Orleans District currently takes four-six months to approve PJD requests, and if an individual wetlands permit application is submitted consecutively, an additional two-four months to approve the permit application. GEC attempts to mitigate this potentially 10-month process by:

- Initiating wetland delineations as early as possible in the project implementation schedule;
- Completing high-quality wetlands finding reports as rapidly as possible;

- Conducting pre-application meetings with USACE upon completion of the wetlands findings report;
- Where possible, submitting a combined PJD / wetland permit application; and
- When possible, permitting a project with a Nationwide Permit (NWP) pre-construction notice instead of individual Section 404 permit applications.

MITIGATION The project team can provide services relative to mitigating the loss of wetlands and in the preparation of mitigation plans, if necessary. A wetland enhancement, restoration, creation and/or preservation project that serves to offset unavoidable wetland impacts is known as wetland mitigation or compensatory mitigation. The ecological benefits of a mitigation project should compensate for the functional loss resulting from the permitted wetland impact. Compensatory mitigation activities may include, but are not limited to, onsite mitigation, offsite mitigation, offsite regional mitigation, and the purchase of mitigation credits from permitted mitigation banks. The GEC Team has developed and employed a multi-step process in developing mitigation plans, should LADOTD require this step. GEC has not only evaluated mitigation requirements associated with the filling of wetlands, but also has worked with clients in developing 14 mitigation banks, including two of the largest wetland mitigation banks established in Louisiana.

OTHER PERMITS In conjunction with wetland delineations, GEC is experienced in the coordination of **Clean Water Act Section 401/402 permits**, wetland management plans and the preparation and implementation of wetland mitigation plans necessary for compliance with agency regulations. Extensive experience in wastewater issues has been acquired by the staff over the years. The team has prepared state and Federal permit applications for the discharge of wastewater, including storm water discharges, to the **Water of the U.S. under the National Pollution Discharge Elimination System (NPDES)** requirements for numerous public and private clients. For each of these projects the GEC team prepared a **Stormwater Pollution and Prevention Plan (SWPPP)** to meet the NPDES requirements. Surface water quality ambient studies have been provided to Federal agencies throughout the United States. These have included sampling the water column and sediments for chemical constituents, water quality biological assessments, pollutant mapping, environmental impact assessments, risk and uncertainty assessment, and water quality modeling. The GEC team is also experienced with the requirements and processes of the **Coastal Zone Management Act of 1972**, particularly regarding consistency statements, negative determinations, and coastal development permits. The GEC team has innovative technology approaches to evaluating coastal environments (e.g., designed data-driven GIS to access, display, and analyze aerial imagery and vertical profile data for coastal processes). Experienced, multidisciplinary staff coupled with sound scientific methods is our key to assessing coastal zone issues. When a project requiring a 404 permit also calls within Louisiana's Coastal Zone, a **Joint Coastal Use Permit/404 Permit** application is often required. If necessary, GEC will prepare bridge site location selection, planning and permitting with the **U.S. Coast Guard** in accordance with the General Bridge Act of 1946, the **Rivers and Harbors Act of 1899**, as amended and Scenic stream design and permitting with the LDWF in accordance with the **LA Natural and Scenic Rivers Act**.

Biological Assessments

Simultaneous with the wetland delineation, a qualified biologist will conduct a T&E species habitat survey of the proposed project area, based on Federal and State listed species for the proposed area. The GEC Team will generally begin by assessing the list of threatened or endangered species that could occur in the project area via review of the USFWS's IPaC, NMFS' state list of T&E Species, and the LDWF's state-listed species by parish. The compiled list of species is considered against the environmental characteristics of the project area prior to any wetland delineation/field investigation. Upon completion of the wetland delineation, the GEC Team will assess the compiled field and desktop data to develop an effects determination for federally listed species and any critical habitat in the form of a T&E species report; this report is used to initiate consultations with the required agencies. The GEC Team can provide consultations with USFWS regarding the presence of migratory birds and/or eagles within the area that could be affected by project activities.

Qualified scientists will perform general surveys for protected wildlife, T&E species, migratory birds, and plant species. Locations of direct and indirect observations will be recorded using GPS. Protected species identified during general surveys will be recorded as with all other observations but may require species-specific surveys prior to permitting/consultation with the appropriate regulatory agencies. GEC biologists will develop field methodologies (when survey protocols have not been previously formatted) for the presence/absence of the species of concern. The survey results, field data analysis, and aerial photo interpretation will be used to develop maps which will be digitized and incorporated into the GIS system. In the event a listed species is found to occur within the project limits, the GEC Team will prepare a Biological Assessment (BA). Our protected species practice will support the development of the Biological Opinion to streamline the permitting. This involves having a full understanding of species and their habitats and being able to implement suitable minimization and mitigation offset measures for the proposed action.

Oysters

The GEC team conducted numerous oyster bottom assessments that involve impacts on both public oyster seed grounds and lease holders impacted by activities that disturb the water bottom. The team is familiar with the protocols and deliverables required by LDWF. In addition, the team is familiar with protocols and methodology conducting water bottom assessments for oysters according to Oyster Lease Damage Evaluation Board (OLDEB) methods for Coastal Protection and Restoration Authority (CPRA) coastal restoration projects.

In preparation of conducting the water bottom assessment the team will create drawings of the proposed work area, type of activity to the water bottom (i.e., dredging, jetting, etc.), Coastal Use Permit (CUP) number, anticipated equipment to be used, proposed access routes, and work location. It is important to provide details of the means of removing material from the water bottom as this affects the assessed area size based on the activity proposed. A desktop review of the provided details is conducted to set up the spacing of the transect lines and the bottom sample points in the field computer. The transects are spaced at 100-ft. apart with poling points set no more than 50-ft.

intervals along the transect lines that fall within the assessment boundaries as defined the activity limits in the LDWF protocols. The team will collect all data on a field rugged Panasonic computer running Hypack software to record poling data and water depth data concurrently. All water depth and poling data are georeferenced using a Trimble R2 wide area augmentation system global positioning system (WAAS-GPS) with submeter accuracy that interfaces with the Hypack software. Water depth data are collected using a SonTek M9 River Surveyor upgraded with Hydrosurveyor firmware.

The most widely used method is the poling method. The team uses a carbon fiber pole to determine the water bottom categories for soft mud, moderately firm mud, firm mud or sand, buried shells, exposed shell or reef without live oysters, and exposed shell or reef with live oysters. Poling data provides an indication of whether potentially productive oyster bottom exists within the potential impact limits of the project. This data may sometimes indicate the presence of exposed shell or reef. However, this bottom type may be buried under a layer of soft mud, which can be anywhere from several inches to several feet thick. The indication of buried shell, exposed reef without live oysters, and exposed shell reef with live oysters is a presumptive test for potentially productive oyster bottom. This is the first step in confirming the presence of viable oyster reef within the project area. To verify areas identified as soft mud, moderately firm mud, and firm mud and sand, three-minute dredges are conducted using a 2-ft. wide oyster dredge. The dredge is recovered after three minutes and the contents, if any, are photographed. Areas identified as exposed shell or reef are sampled by a diver using a one-meter aluminum sample square. All items within the margins of the aluminum square, up to a depth of six inches, are recovered and brought to the surface for inspection. Photographs of the sample are taken. Any live oysters are counted and tallied on field sheets and then returned to the water. All organisms identified in the sample are counted for inclusion in the final report. The final report summarizes the field findings and includes figures of the bottom types identified, bathymetry of the area corrected to mean low water (MLW) using data from the nearest gauging station, quantity of marketable or sack oyster that measure 75 mm or greater, and acreage of each bottom category. In addition to the previous items, the report is provided to LDWF in PDF format and all map shapefiles are provided in the latest ESRI mapping software version.

Coordination

GEC will coordinate with the appropriate agencies to secure the required permit(s). This coordination can include obtaining records from parish courthouses or from other entities, attending pre-application and other regulatory meetings, attending and/or hosting public meetings, public notices, and other required coordination. Consultation with non-permitting agencies may also be required, and GEC will obtain any statements of objections as needed. If Solicitation of Views (SOVs) are required, GEC will submit the project description and maps to LADOTD for approval and distribute to the required mailing list. GEC will organize any comments received, and if necessary, will also prepare the environmental determination checklist to obtain any environmental clearance, if necessary. GEC is also fully staffed to perform NEPA analyses, Environmental Site Assessments, lead and asbestos inspections, environmental justice analyses, and other environmental services if required as a part of any task orders issued.

Sections 19-23

WHAT THEY'RE SAYING

LADOTD's Nicholas Olivier, P.E. stated the following, regarding GEC's performance as a prime consultant for an Environmental Assessment:

I have reviewed the US 11 EA and offer the following: in all of the EA's that I have reviewed, this format and organization is by far the best that I've seen. GEC has done a great job revising this document. Thanks for your help."

19. Workload

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**
G.E.C., Inc.	Road	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	70,810
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	800,000
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	49,160
G.E.C., Inc.	Bridge	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	79,407
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Bridge & Sound Walls) (Sub to Huval)	350,000
		S.P. # H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	124,800
		44-04900, H.004540.5	Leeville to Golden Meadow, Route LA 1 Relocated, Const. Engineering Services (Sub to HNTB)	219,878
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	802,000
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	148,795
G.E.C., Inc.	Environmental	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	34,447
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	200,000
G.E.C., Inc.	ITS	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	19,447
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	320,829
G.E.C., Inc.	CE&I/OV	44-23074, H.010724.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Pecan Island Road Over the Chenal	0
		44-23074, H.012465.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Flashing Yellow Arrow Part 3	409,400
		44-23074, H.010960.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 30 Roundabouts at Tanger Mall and I-10	662,294
		44-23074, H.015022.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 976: LA 81 - US 190	0
		44-23074, H.014694.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 426: LA 73 - Sherwood Forest	164,027
		44-23074, H.014930.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Rumble Strips: District 61 - Area C	83,674
		44-19950, H.002735.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - Bayou Vermillion Bridge	31,498
		44-19950, H.003003.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-10: I-49 - LA 328	0
		44-19950, H.002868.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-49 S: Amb Caffery / US 90 Interchange	638,588
		44-19950, H.013265.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - US 90: LA 14 to LA 83	493,345
		44-14315, H.003370.6	IDIQ for Painting Inspection & Environ. Monitoring with CE&I, Statewide - I-220/I-20 Interchange IMP & BAFB Access	0
		44-14315, H.010000.6	IDIQ for Painting Inspection & Environ. Monitoring with CE&I, Statewide - US 171: Calcasieu River Bridge Repairs	52,602
		44-17006, H.011670.6	I-10/Loyola Interchange Improvements, Jefferson Parish	573,589
		44-23897, H.011965.6	LA 47: IWGO Bridge Rehabilitation (HBI) (CE&I) (sub to GPI)	1,732,222
		44-24438, H.010673.6	US 90: Harvey Canal Tunnel Rehab (CE&I), Jefferson Parish	1,728,360

G.E.C., Inc.	Other (Electrical)	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	301,419
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	300,000
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	45,000
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	54,012
		44-11354, H.013442.6	IDIQ Contract for Electrical Statewide-I-10: Crowder Boulevard Interstate Lighting (Expires 7/3/24)	43,000
		44-11354, H.013617.6	IDIQ Contract for Electrical Statewide-I-10: I-610E Interchange Lighting, T.O. #1 (Expires 7/3/24)	134,346
		44-11354, H.014552.5	IDIQ Contract for Electrical Statewide-I-49: LA 31 Interchange Lighting (Opelousas), T.O. #2 (Expires 7/3/24)	205,598
		44-11354, H.014556.5	IDIQ Contract for Electrical Statewide-I-49: US 190 Interchange Lighting (Opelousas), T.O. #3 (Expires 7/3/24)	234,567
		44-11354, H.014557.5	IDIQ Contract for Electrical Statewide-I-49: Judson Walsh Drive Interchange Lighting (Opelousas), T.O. #4 (Expires 7/3/24)	220,907
		44-11354, H.014553.5	IDIQ Contract for Electrical Statewide-I-49: LA 3233 Interchange Lighting (Opelousas), T.O. #5 (Expires 7/3/24)	376,863
		44-11354, H.015598.5	IDIQ Contract for Electrical Statewide-I-210: Hurricane Laura Lighting Repairs, T.O. #6 (Expires 7/3/24)	55,964
		44-05660, H.012874.6	Retainer Contract for Electrical Services - I-55: LA 22 Interstate Lighting (Sub to Buchart-Horn)	20,153
G.E.C., Inc.	Other (DOTD Support Services)	44-17329	Retainer Contracts for Innovative Procurement and Alternative Delivery Support Services (Sub to HNTB Corporation) (No Task Orders Issued) (NOTE: No work expected for GEC under this Contract.)	0
G.E.C., Inc.	Other (Program Management)	44-16958	Road Transfer Program Management, Statewide (NOTE: The Average Annual billing is approx. \$290,000/year. We are in year 3 of 6. This billing represents 1 person stationed at DOTD. Thus, unlikely to bill this entire remaining balance. (Program Management ONLY – NO Planning, Road or Bridge Design work).	1,397,753
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A. #1 (Note: Work will be performed over 4 years)	187,000
		44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	176,554
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	200,000
ENCOS, Inc.	N/A	N/A	N/A	N/A
Southern Shores Engineering, LLC	N/A	N/A	N/A	N/A

20. Certifications/Licenses


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


Bliss Bernard


Certificate of Completion
presented to
Bliss Bernard
for completing the
**Traffic Engineering Analysis Process & Report
Module 1**


Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5


Authorized Instructor


Authorized Instructor



Authorized instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT


Certificate of Completion
presented to
Bliss Bernard
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**


Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5


Authorized Instructor


Authorized Instructor



Authorized instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT


Certificate of Completion
presented to
Bliss Bernard
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**


Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5


Authorized Instructor


Authorized Instructor


Authorized instructor


LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Bliss K Bernard

has attended

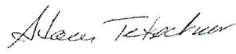
Traffic Control Supervisor Refresher-LA State Specific

Training Course

3/12/2021 to 3/12/2021
Date

Baton Rouge, LA
Location


Director of Training


President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



American Traffic Safety Services Association ATSSA.com





DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

ENCOS, INC.

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

This certification is valid from 8/9/2023 to 8/9/2024 .

Certification No. 4617

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

Stephanie Hartman,
Director, Entrepreneurial Services



Division of Small and Emerging Business Development

SEBD CERTIFICATION

ENCOS, INC.

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 11/20/2017 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

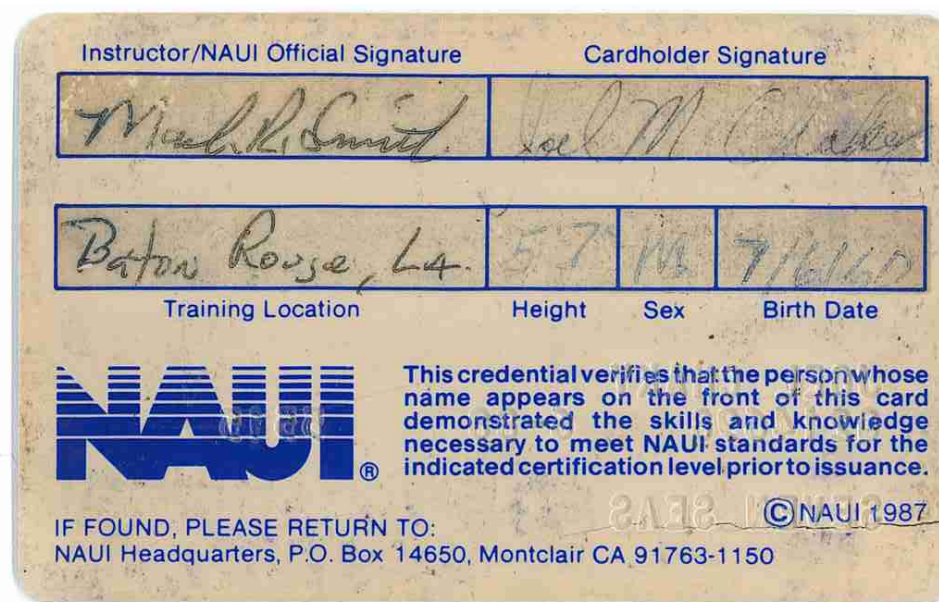
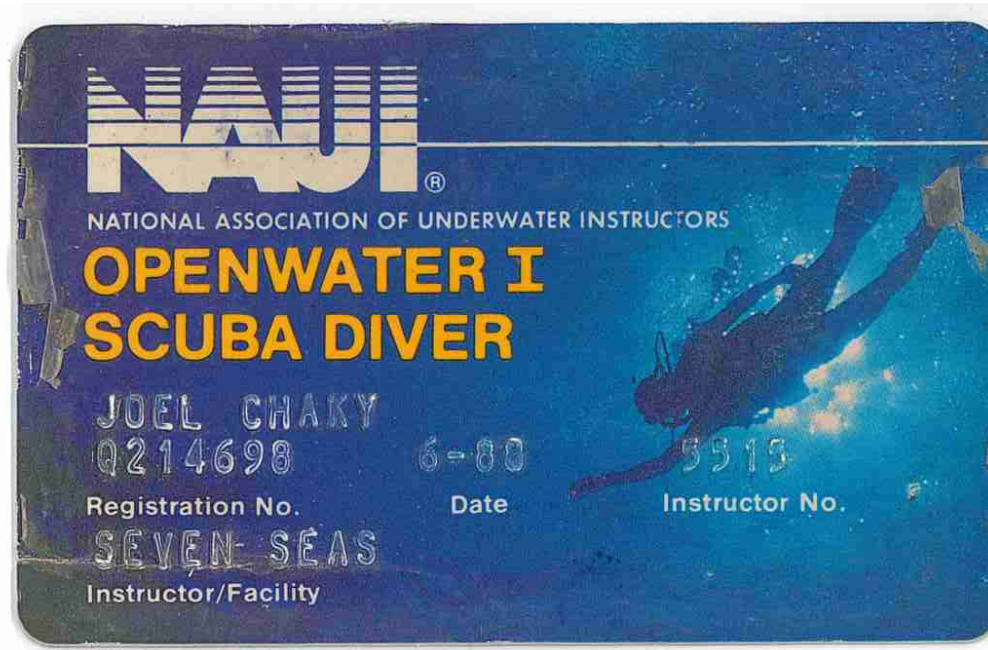
Issued at Baton Rouge, Louisiana 11/20/2017

This certification expires on: 11/20/2027

Certification No. 4617

A handwritten signature in black ink, appearing to read "John W. Matthews, Jr.", is written over a horizontal line.

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



OPEN WATER SCUBA DIVER

Jeremy Thompson

Certification #: 9F6RCBC

Certification Date: Jul 16, 2023

Suzanne Foret (#46659)



Cardholder met requirements at time of certification to engage in open water diving activities without supervision in accordance with NAUI and EUF/ISO 24801-2 Autonomous Diver Standard



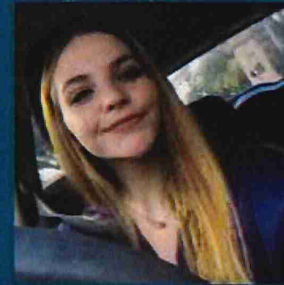
OPEN WATER SCUBA DIVER

Rachel Mixon

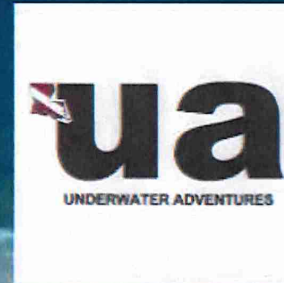
Certification #: 3597629

Certification Date: Jul 18, 2023

Suzanne Foret (#46659)



Cardholder met requirements at time of certification to engage in open water diving activities without supervision in accordance with NAUI and EUF/ISO 24801-2 Autonomous Diver Standard



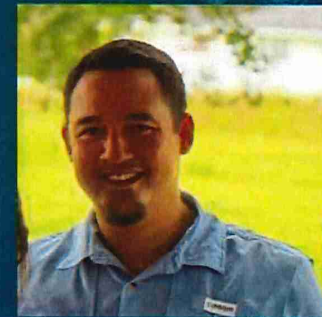
OPEN WATER SCUBA DIVER

Coklin Chi Nguyen

Certification #: 7ADR9E8

Certification Date: Jul 16, 2023

Suzanne Foret (#46659)



Cardholder met requirements at time of certification to engage in open water diving activities without supervision in accordance with NAUI and EUF/ISO 24801-2 Autonomous Diver Standard





LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations
& under the State of Louisiana United Certification Program (LAUCP)

Southern Shores Engineering, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC237990, NC541330, NC541618

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: May 2023 to May 2024

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Southern Shores Engineering, LLC

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

This certification is valid from 2/14/2023 to 2/14/2024 .

Certification No. 19845

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

**Stephanie Hartman,
Director, Entrepreneurial Services**



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.**

Per advertisement instructions for Contract Nos. 44-27474 and 44-27480, GEC will submit a QA/QC plan to the DOTD PM within 10 business days of the award notification.

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
ENCOS, Inc. 	17373 Opportunity Avenue Baton Rouge, LA 70817	Joel Chaky jchaky@encos.net	(225) 921-1353
Southern Shores Engineering, LLC 	2251 Drusilla Lane Suite D Baton Rouge, LA 70809	Whitney Thompson, wthompson@ southernshoreseng.com	(225) 252-5544

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.**

