

**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	Calcasieu River Bridge (HBI) (ENV)
2. Contract Number(s) as shown in the advertisement	<b>CONTRACT NO. 4400027470</b>
3. State Project Number(s), if shown in the advertisement	<b>STATE PROJECT NO. H.003931.6</b>
4. Prime consultant name ( <b>name must match as registered with the Louisiana Secretary of State where such registration is required by law</b> )	<b>WSP USA Inc.</b>
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.0000623
6. Prime consultant mailing address	WSP USA Inc. 301 N. Main Street Suite 2200 Baton Rouge, LA 70802
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	WSP USA Inc. 301 N. Main Street Suite 2200 Baton Rouge, LA 70802
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Max Nassar, Senior Vice President 225-218-3584 max.nassar@wsp.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Max Nassar, Senior Vice President 225-218-3584 max.nassar@wsp.com

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

WSP

**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.



Signature above shall be the same person listed in Section 9:

Date: **8/10/23**

**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): Firm(s)' %:  
 APS Engineering & Testing: 4%

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

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

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

**With Supplemental Agreement (Tasks 1.0 to 8.0):**

Past Performance Evaluation Discipline(s)	% of Overall Contract	Prime: WSP USA Inc.	Firm B Matrix New World Engineering	Firm C APS Engineering & Testing (dbe)	Firm D Walker-Hill Environmental, Inc.	Firm E SGS North America Inc.	Each Discipline must total to 100%
Environmental	90%	50.5%	20%	0	24.5%	5%	<b>100%</b>
Data Collection	5%	80%	20%	0	0	0	<b>100%</b>
Geotech	5%	20%	0	80%	0	0	<b>100%</b>
Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	<b>100%</b>	50.45%	19%	4%	22.05%	4.5%	

**13. Firm Size:**

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

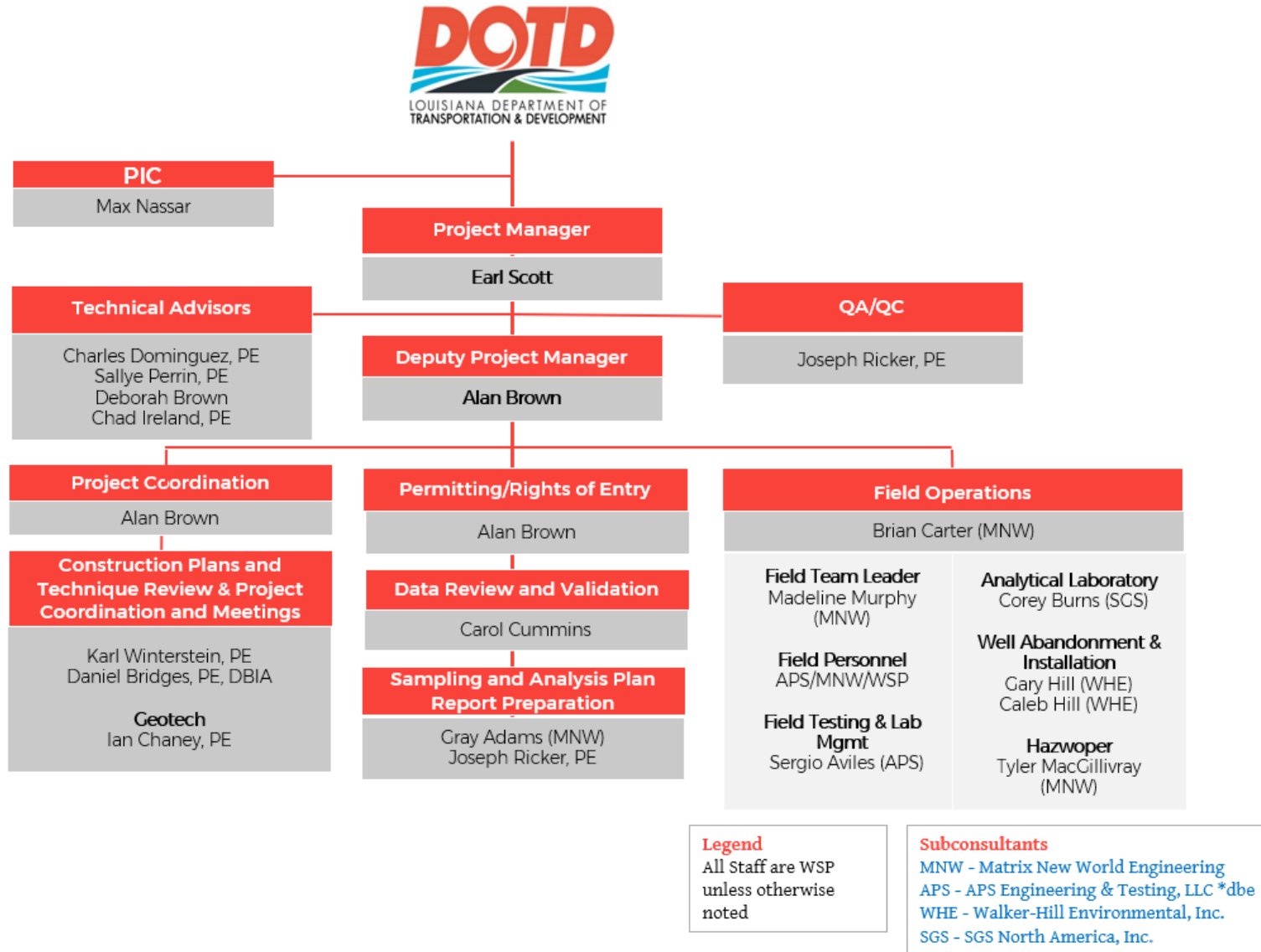
The DOTD Job Classification(s) to be used can be found at the following link:

[http://www.sp.dotd.la.gov/Inside\\_LaDOTD/Divisions/Engineering/CCS/Job\\_Qualification/Job%20Classifications%20with%20Descriptions.pdf](http://www.sp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf)

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
WSP USA Inc.	Principal	1	3
	Supervisor-Other	2	5
	CADD	5	11
	Drafter	5	10
	Engineer	10	30
	Environmental Pro	15	23
	Environmental Manager	8	13
	Geologist	16	22
Matrix New World Engineering	Technician	14	21
	Geologist	2	4
	Engineer	1	2
	Environmental Pro	3	5
APS Engineering & Testing, LLC (dbe)	Engineer	3	3
	CADD Technician	2	2
	Driller	6	6
	Technician	11	11
Walker-Hill Environmental, Inc.	Administrative	1	3
	Environmental Manager	3	11
	Supervisor - Other	2	6
	Driller	2	26
	Technician	4	36
SGS North America Inc.	Other (Laboratory)	38	38

**14. Organizational Chart:**

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



**15. Minimum Personnel Requirements:**

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

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Charles Dominguez	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0027879)	LA	9/30/2024
	Sallye Perrin	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0027847)	LA	3/31/2024
	Chad Ireland	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0044325)	LA	9/30/2024
2	Charles Dominguez	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0027879)	LA	9/30/2024
	Sallye Perrin	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0027847)	LA	03/31/24
	Chad Ireland	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0044325)	LA	9/30/2024
3	Charles Dominguez	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0027879)	LA	9/30/2024
	Chad Ireland	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0044325)	LA	9/30/2024
4	Sergio Aviles	APS Engineering & Testing, LLC	Professional Engineer, Civil Engineering (PE.0033571)	LA	3/31/2024
5	Madeline Murphy	Matrix New World Engineering	P.G. 377/ Professional Geologist 08557/Am. Institute of Professional Geologists	LA	12/31/2023
	Brian Carter	Matrix New World Engineering	PG – 0606	LA	3/10/2024
6	Joe Ricker	WSP USA Inc.	Professional Engineer, Civil Engineering (PE.0031191)	LA	9/30/2024
7	Tyler MacGillivray	Matrix New World Engineering	HAZWOPER Site Supervisor		

**16. Staff Experience:**

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

<b>Firm employed by: WSP USA Inc.</b>				
<b>Name</b>	<b>Max Nassar, SVP</b>		<b>Years of relevant experience with this employer</b>	4
<b>Title</b>	Sr. Vice President / Senior Director		<b>Years of relevant experience with other employer(s)</b>	42
<b>Degree(s) / Years / Specialization</b>			BA, 1976, Psychology	
<b>Active registration number / state / expiration date</b>			N/A	
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>			Principal-in-Charge	
<b>Experience dates (mm/yy – mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>4/20 – present</b>	<b>LADOTD, Contract For Innovative Procurement and Alternative Delivery Support Services, LA:</b> Project Principal, the project includes provision of engineering, financial, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of Design Build, Construction Management at Risk, and/or Public Private Partnerships (P3) projects. The current effort includes leading the procurement of the Calcasieu Bridge in Lake Charles, Louisiana. To be included in the effort is a Level 2 Toll Study. The current Calcasieu Bridge is one of the most critical projects in Louisiana’s Transportation System <b>and</b> has been identified as the most detrimental to economic development.			
<b>10/19 – present</b>	<b>LADOTD Level 1 Toll Feasibility Study for a new Mississippi River Bridge between LA 1 and LA 30 (Project I.D. No. Number 101, a Priority B Megaproject in the Louisiana Statewide Transportation Plan):</b> Project Principal, the project includes enhancing the Capital Region Planning Commission (CRPC) Travel Demand Model (TDM to include a toll diversion model in order to be able to use the model to evaluate demand for the 3 <sup>rd</sup> Crossing alternatives under different tolling scenarios. Additionally, WSP will generate estimates of annualized gross toll revenue based on the demand as well as prepare a conceptual plan to implement tolling including public outreach, economic impacts, toll infrastructures, institutional requirements, revenue risk, etc.			
<b>5/2019 – Present</b>	<b>Board of Commissioners, Port of New Orleans, New Orleans, LA: Seabrook Bridge Span Replacement Project, New Orleans, LA:</b> Project Principal for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.			

<b>5/2019 – Present</b>	<b>Board of Commissioners, Port of New Orleans, New Orleans, LA: Almonaster Bridge Span Replacement Project, New Orleans, LA:</b> Project Principal for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.
<b>6/2019 – 5/2020</b>	<b>NCDOT Design-Build Bridge Replacement, Structure #1: I-485 over Westinghouse Blvd., Mecklenburg County, NC:</b> Principal in Charge for local bridge staff designing this bridge replacement and widening. Staff assignments include modeling, analysis, and design of the prestressed bridge along with preparing bridge final design plans, as well as quality control of other prepared plans.
<b>6/2017 – Present</b>	<b>LADOTD, IDIQ Contract For Electrical And Mechanical Engineering Services:</b> Project Principal for this Task Order based engineering services contract which supports efforts on mechanical and electrical services related to roadways, pump stations and other mechanical and electrical needs. <ul style="list-style-type: none"> <li>✓ Task Order 1: State Project No. H.010439: Boyd Street &amp; 21ST Street Pump Station Improvements</li> <li>✓ Task Order 2: State Project No. H.010439.5: Boyd Street &amp; 21St St Pumping Station Improvements I-110</li> <li>✓ Task Order 3: State Project No. H.010565 Acadian St. Pumping Station Improvements</li> <li>✓ Task Order 4: State Project No. H.010565.5 Acadian Street Pumping Station</li> <li>✓ Task Order 5: State Project No. H.972249.1 Generator Site Investigation and Load Study for Airline Drive Pump Station and LADOTD Maintenance Facility and Construction Docs for Airline Drive Pump Station</li> <li>✓ Task Order 6: State Project No. H.010253: Bluebonnet Blvd Pump Station Improvements LA 1248</li> <li>✓ Task Order 7: State Project No. H.010251: Chippewa St Pumping Station Improvements US61/190</li> </ul>
<b>2/2021-Present</b>	<b>Pontchartrain Levee District (PLD), St. Charles Parish, LA:</b> Project Principal for assessment of the Cross Bayou Pumping Station, a flood control pumping station with influent from the canal along the Airline Highway and effluent to Lake Pontchartrain via the Cross Bayou canal. Equipped with five main diesel and one electrical low flow submersible pumps, the pumping station can deliver a total capacity of over a half million gallons per minute; it is a key pumping facility in the St. Charles Parish flood control infrastructure. The assessment involved pump and pump drives, the on-site fuel storage and delivery system, various mechanical and electrical systems and included an opinion of probable construction costs to rehabilitate the station to a state of good repair.



<b>Firm employed by: WSP USA Inc.</b>				
<b>Name</b>	<b>Earl Scott</b>		<b>Years of relevant experience with this employer</b>	25
<b>Title</b>	Senior Director – Vice President, Earth & Environment		<b>Years of relevant experience with other employer(s)</b>	12
<b>Degree(s) / Years / Specialization</b>			<b>B.Sc. Geology, M.Sc. Geological Science (Geophysics Concentration)</b>	
<b>Active registration number / state / expiration date</b>			<b>Tennessee</b>	
<b>Year registered</b>	N/A	<b>Discipline</b>	<b>Geologist</b>	
<b>Contract role(s) / brief description of responsibilities</b>			<b>Project Manager</b>	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>05/20 - Ongoing</b>	<b>LADOTD Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge Task Order), Calcasieu Parish, LA.</b> Environmental Compliance/Hazardous Materials. The project includes provision of engineering, financial management, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of design-build, CMAR, and/or Public Private Partnership (P3) Projects. The current effort includes leading the procurement of the \$ 1 billion Calcasieu Bridge in Lake Charles, Louisiana. Included in the effort is a Level 2 Toll Study. The Calcasieu Bridge is one of the most critical projects in Louisiana’s Transportation System as well as along the I-10 East West Trade Route. It has been identified as detrimental to economic development.			
<b>06/05-Ongoing</b>	<b>Confidential CERCLA Site - Lake Charles, LA Confidential Client.</b> Senior Consultant, Assessment and Remediation. This project included assessment and complex negotiations regarding PCB contamination in sediment. Services included evaluation of complex data set, fingerprinting of PCB Aroclors and congeners, negotiation with LDEQ and other responsible parties. Design of an assessment strategy to investigate PCBs in sediment in a ditch that discharges to an estuary.			
<b>08/99-Ongoing</b>	<b>Former Firestone Polymers Site - Orange, Texas, Confidential Client:</b> Senior Consultant, Assessment, Remediation and Closure of Waste Management Units. Site was occupied by multiple waste management and release sources involving volatile organic compounds, metals and PCBs. Services including design of site investigation including human health and ecological risk assessment, design and closure of former waste management areas including landfills, product and waste tanks, waste storage areas. Successful completion of designing and implementing cover systems over former landfills.			
<b>12/03-Ongoing</b>	<b>Former Tire Manufacturing Plant - Albany, Georgia, Bridgestone Americas Tire Company:</b> Senior Consultant. Assessment and Remediation. Site was listed on the National Priorities List (NPL) under CERCLA. EPA had required a \$25M remedy for metals and carbon disulfide in groundwater. Designed an innovative			

	groundwater sampling strategy that resulted in vacating the remedy determination saving the client \$25M. Also assisted in the design and implementation of the remediation of PCB-impacted soil. Implemented long-term groundwater monitoring program after the successful negotiation with EPA for termination of groundwater pump & treat system in favor of monitored natural attenuation. Currently working on removal of the site from the NPL.
<b>07/21-Ongoing</b>	<b>Former Wood Treating Facility - Wiggins, Mississippi. International Paper Company.</b> Senior Consultant. Permit Compliance and Monitoring. Services included providing strategic guidance to client regarding permit compliance, groundwater monitoring and ecological risk assessment of metals and pentachlorophenol in sediment in a tributary.
<b>05/12-12/19</b>	<b>Former Tire Manufacturing Plant - Memphis, TN. Bridgestone Americas tire Company.</b> Senior Consultant. Assessment, Remediation, Demolition and Redevelopment. Site was a long-closed tire manufacturing plant that was identified for redevelopment by the city of Memphis. Assisted client in negotiations with the First Tee program to convert the property to a life-skills and leadership training facility. Services including assessment of soil, groundwater and asbestos, demolition of large former manufacturing plant, cover of the site with soil suitable for use as a 9-hole golf course. Developed innovative strategy for enclosure of a former boiler house to avoid mitigation of asbestos.
<b>05/16-Ongoing</b>	<b>IEL Superfund Site - Akron, Ohio. Confidential Client.</b> Senior Consultant. Assessment and Remediation, Long-term Monitoring. Site was a former industrial landfill that was listed on the NPL as a Federal Superfund site. Activities include long-term monitoring of landfill gas and groundwater and the maintenance of a Wildlife Habitat Council remedy. Recent development included the discovery of 1,4-dioxane and PFAS in groundwater. Designed and implemented a groundwater monitoring strategy, sampling and closure of private wells, connection of parcels to municipal water supplies.
<b>02/14-Ongoing</b>	<b>State Superfund Site - South Gate, CA. Bridgestone Americas Tire Company.</b> Senior Consultant, Assessment, Remediation. Site was former manufacturing plant subject to a consent decree with the California EPA for the monitoring of soil, groundwater, and soil gas on multiple parcels. Involved in multiple real estate transactions for multiple parcels assisting in the evaluation of historical data, review of Phase 2 studies and working with Cal EPA in obtaining no further action determination. Currently working toward a MNA remedy for chlorinated VOCs in groundwater.

<b>Firm employed by: WSP USA Inc. MPR 1, 2, 3</b>				
<b>Name</b>	Charles Dominguez, PE		<b>Years of relevant experience with this employer</b>	30
<b>Title</b>	Senior Vice President, Earth & Environment		<b>Years of relevant experience with other employer(s)</b>	0
<b>Degree(s) / Years / Specialization</b>			ME, Civil Engineering, 2001; BS, Civil Engineering, 1993	
<b>Active registration number / state / expiration date</b>			PE.0027879 / Louisiana / 9/30/24	
<b>Year registered</b>	1998	<b>Discipline</b>	Civil Engineer	
<b>Contract role(s) / brief description of responsibilities</b>			Technical Advisor	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>01/21- Ongoing</b>	As Senior Vice President and leader of the Central E&E Region for WSP USA, responsible for the management and direction of 29 offices across the Central US with net revenues of approximately \$65M. Responsibilities include financial performance, budgeting and expense management, business development, strategic planning and implementation, project and enterprise risk management, merger and acquisition due diligence and integration activities, and year over year revenue growth.			
<b>01/18-01/21</b>	As Vice President of the Central US Operation of Golder’s United States Operations, responsible for the management and direction of nine offices across the Central US with net revenues of approximately \$40M to \$50M. Responsibilities include financial performance, budgeting and expense management, business development, strategic planning and implementation, project and enterprise risk management, and health and safety performance. As Project Director, responsible for overall direction, delivery, and client interaction for major projects related to waste facility permitting, design, and construction. As Interim COO of Golder’s US Operations, responsible for coordinating and managing US Leadership Team meetings, developing budgets, business plans forecasts, quarterly operations reports, and restructuring plans, and coordinating six business units across the company (including directly leadership of the Central US).			
<b>01/16-01/18</b>	As Vice President of the Central Sub-region of Golder’s North America Operations, responsible for the management and direction of 12 offices across the Central US and Canada with net revenues of \$80M to \$90M. Responsibilities include financial performance, budgeting and expense management, business development, strategic planning and implementation, project and enterprise risk management, and health and safety performance.			
<b>01/09-12/15</b>	As Vice President of the Central Region of Golder’s US company, responsible for the management and direction of multiple Central Region offices with net revenues of \$60M to \$70M. Responsibilities include business development, financial performance, quality control, recruiting, training, health and safety implementation, interacting with regional clients, sales, and mentoring. Worked with the rest of the management team to implement consistent internal policies and facilitate communication between senior personnel in the region.			

<b>Firm employed by: WSP USA Inc. MPR 1, 2, 3</b>				
<b>Name</b>	Chad Ireland, PE		<b>Years of relevant experience with this employer</b>	25
<b>Title</b>	Assistant VP, Geological Engineer		<b>Years of relevant experience with other employer(s)</b>	0
<b>Degree(s) / Years / Specialization</b>			BS / 1998 / Geological Engineering; MBA / 2007	
<b>Active registration number / state / expiration date</b>			PE.44325 / Louisiana / 9/30/24	
<b>Year registered</b>	1998	<b>Discipline</b>	Civil Engineer	
<b>Contract role(s) / brief description of responsibilities</b>			Technical Advisor	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
10/99 - 7/00	CWM / Lake Charles Facility, LA – Multiple liner cell and biopad construction soil testing of compacted clay liners, documenting geosynthetic materials and leachate collection systems installation, managing field personnel, and preparing certification documents.			
12/01 - 1/05	WM / Security Landfill, and Lake Charles Facility Expansion / TX – Performed site layout and geometric civil design, slurry wall design, geotechnical analyses, aided in unit design plans, and performed surface water analyses.			
8/07 - 3/10	MBO / Lacassine E&P Permitting / LA -Performed site layout and geometric civil design. Created unit design plans for E & P regulatory permitting requirements.			
9/07 – 8/12	WCA / Ruffino Hills, Hardy Road, and Ralston Road Transfer Stations and Fort Bend County Material Recycling Facility Permitting / TX – Performed land use studies, site layout design, and feasibility studies. Developed plans required for permitting.			
12/09 - 10/11	WCA / Tall Pines, Greenbelt, Ralston Road, and Fort Bend County Landfill Design and CQA / TX – Development of detailed construction drawings for disposal units. Performed engineering analysis of geosynthetic materials, material quantity estimations, developed construction specifications, prepared bid packages, and evaluated bids received for award. Also, I reviewed all laboratory tests, field documents, and supervised construction for certification as the Engineer of Record.			
4/12 - 11/12	Newmont / Twin Creek /NV - Provided heap leach pad conceptual layouts for expansion. Engineering activities include developing design criteria, layout and grading design, liner system design, and development of detailed construction design drawings, leach pad capacity and life evaluations, and construction material quantity estimations.			
8/12 - 10/12	Chevron / McKinley Mine / NM - Land reclamation design for mine closure and supervised construction activities.			

<b>2/14 - 10/12</b>	<b>Luminant / Oak Grove Power Plant / TX</b> - Design and permitting of ash containment facility, closure plans, and reservoirs including preparation of permit application, construction drawings, material quantities, bid document preparation, and supervise on-site engineering during construction.
<b>10/12 - Present</b>	<b>City of Edinburg / Engineering Services / TX</b> – Permit Engineer of record for major landfill expansion – permit granted 11/19. Work included site feasibility study, environmental impact assessments, subsurface investigations, geotechnical analyses, unit geometric design, stability analyses, stormwater analyses, site operations evaluations, and prepare all plans and documents required for permitting. Development of detailed construction drawings and bid documents of disposal units and supervised construction for certification as the Engineer of Record. Supervised surface water, groundwater, air, and landfill gas environmental monitoring for assessments and remediation plans. Prepare capital forecasting for proposed landfill development and review of operational efficiencies.
<b>11/20 – 6/21</b>	<b>CWM / Lake Charles Facility, LA</b> – Permitting, design, and closure of a debris disposal cell used in landfilling waste generated from a hurricane.
<b>2/20 – Present</b>	<b>CWM / Lake Charles Facility, LA</b> – Detail design and construction quality assurance for numerous disposal cells at the facility. Development of detailed construction drawings for disposal units. Performed engineering analysis of geosynthetic materials, material quantity estimations, developed construction specifications, prepared bid packages, and evaluated bids received for award. Also, I reviewed all laboratory tests, field documents, and supervised construction for certification as the Engineer of Record.

<b>Firm employed by: WSP USA Inc.</b>				
<b>Name</b>	<b>George “Alan” Brown, CSP, CPEA</b>		<b>Years of relevant experience with this employer</b>	3
<b>Title</b>	Senior Consultant		<b>Years of relevant experience with other employer(s)</b>	45
<b>Degree(s) / Years / Specialization</b>			<b>BS-ET 1977 Safety</b>	
<b>Active registration number / state / expiration date</b>			N/A	
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>			<b>Deputy Project Manager/Project Coordination/Permitting/Rights of Entry</b>	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>01/22- 6/22</b>	<b>Repsol, Three Rivers, Texas.</b> Senior Consultant. Services include ergonomic surveys of field locations in Kenedy, Texas, Cotulla, Texas, Three Rivers, Texas and offices in Austin, Texas.			
<b>06/22-12/22</b>	<b>Confidential Site - Sulphur, LA. Confidential Client.</b> Senior Consultant. Water sampling. Services included quarterly outfall sampling over a 24-hr. period analyzed for PCB’s.			
<b>09/22-09/22</b>	<b>Valero Port Arthur, Texas Refinery.</b> Senior Consultant. Remediation. Services included the identification and removal of mercury contaminated soil within the refinery.			
<b>01/90-01/21</b>	<b>Total Port Arthur, Texas Refinery.</b> Coordinator for TOTAL Petrochemicals & Refining USA, Inc. US Operations based in Houston, Texas. Total is a major producer of polypropylene, polystyrene, styrene, and base chemicals in the United States. The Cray Valley division develops and produces additives for tires, automobile belts, sealants, paints, and golf balls. IH duties included the three-year WEA assessments of all manufacturing, research, and development sites across 6 states and 11 locations, including the three main sites: Port Arthur Refinery (TX), Carville Polystyrene Plant (LA) and La Porte Polypropylene Plant & Technology Center (TX). HAZWOPER 40 Hour certified.			
<b>09/21-10/21</b>	<b>Enbridge, Houston, Texas.</b> Senior Consultant. Services include emergency response to pipeline explosion in Logansport, LA. Industrial hygiene monitoring for asbestos, VOC’s and benzene.			

<b>Firm employed by: WSP USA Inc. MPR 1, 2</b>				
<b>Name</b>	Sallye Perrin, PE		<b>Years of relevant experience with this employer</b>	20
<b>Title</b>	Sr. Vice President, National Director P3s		<b>Years of relevant experience with other employer(s)</b>	23
<b>Degree(s) / Years / Specialization</b>				
<b>Active registration number / state / expiration date</b>		PE.0027847 / Louisiana / 3/30/24		
<b>Year registered</b>	1998	<b>Discipline</b>	Civil Engineer	
<b>Contract role(s) / brief description of responsibilities</b>		Technical Advisor		
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>01/21- Ongoing</b>	<b>LADOTD New I-10 Calcasieu River Bridge P3:</b> lead technical advisor responsible for development of the technical provisions and performance requirements for the \$900 million replacement bridge on I-10 in Lake Charles, Louisiana. Duties also include coordination on risk assessments, development of capital and O&M cost estimates, and coordination with commercial and legal advisors in development of procurement documents and support for the RFQ and RFP evaluation process.			
<b>08/17- Ongoing</b>	<b>I-75 Modernization: Owner's Representative Consultant Task 5, Detroit, MI:</b> senior technical advisor for Segment 3 of the Interstate 75 Modernization Program. Assisted in the evaluation of procurement options for delivery of Section 3 of I-75 in Michigan. Upon selection of a public-private partnership procurement approach, led the development of the technical provisions and coordinated with legal and financial advisors on the integration of the contract documents. Also led the strategy evaluation to determine the approach to operations and maintenance responsibilities and developed performance requirements. Duties also include supporting WSP's role as Owners Representative during the implementation phase. The project achieved financial close in November 2018. WSP serves as the owner's representative to the Michigan Department of Transportation for the modernization of approximately 18 miles of Interstate 75, which includes Michigan's first high-occupancy vehicle lane. WSP is responsible for project management, planning and environmental studies, traffic and intelligent transportation systems, and engineering and construction. Key components include bridge rehabilitation, roadway and ramp reconstruction, utility relocation, lighting, pavement marking, and additional services.			
<b>01/19- Ongoing</b>	<b>I-495/Interstate 270 General Engineering Consultant Services, Baltimore, MD:</b> (O&M Technical Lead) responsible for supporting the general engineering contract providing technical and commercial advisory services for the procurement of the managed lane P3 for the Maryland portion of the Washington, DC Beltway. Sallye is focusing on operations and maintenance and development of performance requirements and overall strategy for the procurement of all segments. Sallye's duties also have included independent estimates, development of liquidated damage regimes for non-compliance, and support for evaluation of			

	proposals. WSP is providing programmatic general engineering consultant services for the Interstate 495 and Interstate 270 public-private partnership program.
<b>06/16-07/17</b>	<b>Los Angeles World Airports Planning and Project Management, LAX Automated People Mover (APM), Los Angeles, CA:</b> senior manager responsible for development of the P3 procurement documents and for support during the procurement process for the Automated People Mover at Los Angeles International Airport. The automated people mover will connect the Central Terminal Area to the future Consolidated Rental Car Facility and other transit facilities. The system will be approximately 2 miles in length and provide six passenger stations and an off-line operations and maintenance facility. Capital costs are nearly \$2 billion dollars. Sallye's duties also included coordination with the financial and legal advisors and support for the P3 procurement process for the AMP.
<b>11/21- Ongoing</b>	<b>Otay Mesa New Border Crossing Procurement Support:</b> technical advisor responsible for leading the initial task to evaluate procurement options and select the best option to deliver a tolled new port of entry between Mexico and California. Developed and led a series of five workshops to present and evaluate a range of delivery options for delivering the new port of entry to meet an aggressive schedule to open the port in 2024. Coordinated with legal and procurement to define options and timeframes.



<b>Firm employed by: WSP USA Inc. MPR 3</b>				
<b>Name</b>	<b>Joseph Ricker, PE</b>		<b>Years of relevant experience with this employer</b>	21
<b>Title</b>	Sr. Technical Principal		<b>Years of relevant experience with other employer(s)</b>	8
<b>Degree(s) / Years / Specialization</b>			<b>MS / 1998 / Civil Engineering</b>	
<b>Active registration number / state / expiration date</b>			<b>PE.0031191 / Louisiana / 9/30/24</b>	
<b>Year registered</b>	2004	<b>Discipline</b>	<b>Civil Engineer</b>	
<b>Contract role(s) / brief description of responsibilities</b>			QA/QC	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>01/02-11/22</b>	<p><b>Various clients, Plume Analytics of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Sites, Ohio, Tennessee, Illinois, Georgia, New Jersey and Indiana:</b> Project manager who worked closely with various project requirement planning groups to demonstrate the behavior of contaminant plumes as part of remedial investigations and actions for various CERCLA sites. These included:</p> <ul style="list-style-type: none"> <li>-Remedial investigation and feasibility study, and remedial design and remedial action in Ohio (2010, \$50,000).</li> <li>-Industrial chemical treatment, storage and disposal facility: remedial design and remedial action, operations and management in Hamilton, Ohio (2014 – 2022, \$600,000).</li> <li>-Municipal and industrial landfill remedial investigation and feasibility study, and remedial design and remedial action in Dayton, Ohio (2012, \$75,000).</li> <li>-Industrial chemical mixing and blending, pesticides and chlorinated solvents: remedial investigation and feasibility study, remedial design and remedial action, and operations and management in Arlington, Tennessee (2002 – 2022, \$400,000).</li> </ul>			
<b>06/94-11/22</b>	<p><b>Various clients, Plume Analytics of Resource Conservation and Recovery Act (RCRA) Sites, Tennessee, Maryland and California:</b> Project manager who utilized groundwater plume analytics to help the client view and understand plume behavior for various RCRA sites. The information developed during this process helped the client evaluate alternatives and negotiate with the regulators during a Corrective Measure Study and Corrective Measures Implementation under RCRA. These included:</p> <ul style="list-style-type: none"> <li>-RCRA facility investigation and corrective measure study and corrective measures implementation, Chattanooga and Memphis, Tennessee (1994 – 2022, \$1,000,000).</li> <li>-Corrective measure study and corrective measures implementation, Chestertown, Maryland (1998 – 2018, \$200,000).</li> </ul>			

	<p>-Corrective measure study, Torrance, California (2016, \$125,000).</p> <p>-Corrective measure study and corrective measures implementation, Beaumont, California (2018, \$125,000).</p>
<b>04/16-10/18</b>	<p><b>US Department of Energy, Plume Analytics of Department of Energy Sites, Ohio and Kentucky:</b> Project manager who utilized groundwater plume analytics to assist the client view and understanding plume behavior, and to achieve significant reductions in operation and management scope including reductions in sampling network and frequency of sampling. These included the Paducah Gaseous Diffusion Plant in Paducah, Kentucky and the Portsmouth Gaseous Diffusion Plant in Piketon, Ohio</p>
<b>10/18-10/22</b>	<p><b>Chem-Dyne Trust, Plume Analytics Evaluation, Hamilton, Ohio:</b> Principal engineer responsible for groundwater plume analytics including a Ricker Method® plume stability analysis in support of decommissioning a groundwater pump and treat system. The system consisted of two groundwater extraction wells located in the upgradient portion of a chlorinated ethene plume. A Ricker Method® analysis was conducted in order to understand the overall stability of the chlorinated volatile organic constituent plume in terms of area, average concentration, mass indicator and center of mass. At the time of the analysis, the chlorinated volatile organic constituent plume was shown to be increasing for the previous seven years. Upon cessation of the system, the overall plume decreased substantially. The evaluation demonstrated that not only would the chlorinated volatile organic constituent plume be contained intrinsically, but the operation of the groundwater extraction system was also actually deleterious to the remediation of the chlorinated volatile organic constituent plume. Based on the outcome of the evaluation, the remedy was permanently changed with regulatory approval from the pump and treated to monitored natural attenuation.</p>

<b>Firm employed by: WSP USA Inc.</b>				
<b>Name</b>	<b>Deborah Brown</b>		<b>Years of relevant experience with this employer</b>	9
<b>Title</b>	Senior Vice President, Managing Director, Technical Advisory		<b>Years of relevant experience with other employer(s)</b>	28
<b>Degree(s) / Years / Specialization</b>			<b>MBA / 1992; BS / 1983 / Accounting</b>	
<b>Active registration number / state / expiration date</b>			N/A	
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>			<b>Technical Advisor</b>	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>05/20 - Ongoing</b>	<b>Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge Task Order), Calcasieu Parish, LA. LADOTD.</b> P3 Technical Advisor PM. This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increase the capacity of I-10 through the Lake Charles region, and relieve a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement and upcoming negotiation process. Deborah has led the team currently serving as Technical Advisor in development of the technical provisions, providing commercial advisory for development of other procurement documents including the Instructions to Proposers and Contract Documents, and Technical Provisions including requirements for well plugging and abandonment and delineation of responsibilities between LADOTD and the Developer.			
<b>08/20 – Ongoing</b>	<b>Pennsylvania Department of Transportation P3 Office - Major Bridge Initiative. PennDOT.</b> Senior P3 Procurement Advisor Advised PennDOT on the procurement of a Developer Team to collaborate on the replacement and rehabilitation of nine major bridge crossings throughout the Commonwealth of Pennsylvania including the design, financing, construction, and maintenance of the bridge crossings under Progressive P3/availability payment regime.			
<b>02/17– 08/20</b>	<b>On-Call Alternative Project Delivery Administration Consultant, Phoenix, AZ. ADOT.</b> Senior Technical Advisor. Advised Arizona Department of Transportation (ADOT) on alternative delivery and preparation and development of the design-build procurement contract documents (Request for Information – RFI, Request for Qualification – RFQ, and Request for Proposal – RFP). She led the development of evaluation criteria sensitivity analysis and other procurement related analysis during the project. WSP is providing ADOT with construction management and various on-call design support services for the development of alternative delivery projects.			

08/17 – 02/19	<p><b>D.C. Office of Public-Private Partnerships Advisory Services, Washington, DC. <i>DC Office of Public-Private Partnerships.</i></b> Technical Advisor. Deborah providing public-private partnership (P3) procurement advisory support and leading the procurement of a team to finance, construct, and maintain a secure facility on behalf of a government agency. Tasks include project management; pre-procurement and procurement advisory; and supporting the client with evaluation, selection, award, and execution. WSP provided business management services to the D.C. Office of Public-Private Partnerships, including program/project management, administrative business support services, research assistance, and long-term as-needed project monitoring services. Scope of work included technical and engineering reviews, development of procurement documents, and advice and analysis on a range of technical matters.</p>
05/14 – 03/16	<p><b>Maryland Purple Line Light Rail Public-Private Partnership Project, Baltimore, MD. <i>MTA.</i></b> Technical Advisor. Advised the Maryland Transit Administration (MTA) on the public-private partnership (P3) procurement process for the Purple Line project, leading evaluation, selection, and negotiation processes for the MTA's Purple Line Light Rail project in the Metropolitan Washington, DC area, including development of an evaluation manual, training for the evaluation process participants, and development of a secure electronic platform for completing and compiling evaluation responses. Deborah also advised the MTA on the P3 solicitation for the Red Line Light Rail project in Baltimore, Maryland and led the development of the solicitation documents. In addition, Deborah served as the alternative delivery advisor who led the policy and alternative procurement analysis for the MTA in consideration of delivery options for the Corridor Cities Transitway (CCT) bus rapid transit project. WSP, in a joint venture, provided program management for new mass transit initiatives including the Red Line, Purple Line, and Corridor Cities Transitway light rail projects. Work involved systems preservation, enhancement, and expansion of all existing Maryland Transit Administration transport modes including bus, metro subway, light rail, Maryland Area Regional Commuter Rail, commuter bus, paratransit, and freight.</p>

<b>Firm employed by: WSP USA Inc.</b>				
<b>Name</b>	Carol Cummins		<b>Years of relevant experience with this employer</b>	6
<b>Title</b>	Project Scientist		<b>Years of relevant experience with other employer(s)</b>	20
<b>Degree(s) / Years / Specialization</b>			BS / 1983 / Chemistry	
<b>Active registration number / state / expiration date</b>			N/A	
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>			Data Review and Validation	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>03/05-Ongoing</b>	<p><b>Multiple Clients, Data Validation, Tennessee, California, Oklahoma, Louisiana, Texas, Ohio, Mississippi, Alabama:</b> Project scientist performing data validation and reviewing analytical results to ensure data is reported within accuracy and precision limits set by work plans, United States Environmental Protection Agency functional guidelines, Texas Risk Reduction Program 13 guidelines, and other guidelines mandated by the project. Tasks include reviewing incoming data entry and potential analysis errors and ensuring analytical data is within accepted quality assurance/quality control criteria. Works with the laboratory to resolve any data quality issues. Uploads and manages data in the company database and prepares data for final reporting.</p>			
<b>06/18-05/21</b>	<p><b>International Paper, Project Management, Baton Rouge, Louisiana and Mobile, Alabama:</b> Project manager who provided project management and site oversight to closed landfill sites. Coordinated sampling and analysis events, site inspections, and maintenance and upkeep at the site. Communicated regularly with the client and developed monitoring reports to meet site reporting requirements.</p>			
<b>01/08-04/17</b>	<p><b>Multiple Clients, Mercury Remediation, Louisiana, Texas, Oklahoma, \$3 million, 2008 to 2017:</b> Project scientist who managed the successful implementation and completion of mercury remediation projects under voluntary cleanup programs at client sites in Louisiana, Texas and Oklahoma. Tasks included implementing scopes of work to ensure the projects are completed on time and within budget. Provided routine updates to clients on project progression. Maintained health and safety requirements, coordinated waste disposal and maintained ISNETWorld requirements. Prepared closure reports for remediated locations and submitted them to state agencies.</p>			
<b>02/08-07/14</b>	<p><b>Enterprise Products, Data Tracking System, Houston, Texas:</b> Project scientist who developed a data information and tracking system for a large mercury remediation project. Compiled and maintained a database containing sketches, drawings and other pertinent information relating to over 6,000 mercury metering stations. This database could be accessed online by the client, allowing them to track the status and progress of site verification and assessment and review any sketches or documents that were available for each mercury site.</p>			

Firm employed by: <b>WSP USA Inc.</b>			
<b>Name</b>	<b>Karl Winterstein, PE</b>	<b>Years of relevant experience with this employer</b>	32
<b>Title</b>	Sr. VP, Civil Engineer	<b>Years of relevant experience with other employer(s)</b>	10
<b>Degree(s) / Years / Specialization</b>		<b>BS / 1980 / Civil Engineering</b>	
<b>Active registration number / state / expiration date</b>		<b>28727 / Washington / 7/7/25</b>	
<b>Year registered</b>	1992	<b>Discipline</b>	<b>Civil Engineer</b>
<b>Contract role(s) / brief description of responsibilities</b>		Construction Plans and Technique Review	
<b>Experience dates (mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>		
<b>05/21-Ongoing</b>	<b>I-10 Calcasieu River Bridge Public Private Partnership (P3) Advisory Services, Baton Rouge, LA. LADOTD.</b> Engineering Technical Advisor. Engineering technical advisor lead responsible for development of the technical and performance requirements for the \$ 1.5 billion replacement bridge and interstate reconstruction on I-10 in Lake Charles, Louisiana. Responsibilities included technical provision and Design Build and O & M Limit drawing preparation, preliminary design coordination with the Phillips 66 Pipe Rack over I-10 relocation, Alternative Technical Concept review and assessment, coordination on risk assessments and mitigations, development of capital and O&M cost estimates, and coordination with commercial and legal advisors in development of procurement documents and support for the RFQ and RFP evaluation process.		
<b>05/15-05/17</b>	<b>LAX People Mover P3, Los Angeles, CA. LAMP.</b> Lead Civil. Lead Civil on the P3 Program Management team for Los Angeles World Airports (LAWA), WSP lead the LAMP improvement program focused on better airport landside access, including an intermodal transportation facility, consolidated rental car facility, a new terminal concourse, roadway and transit improvements, and the \$2 Billion US Automated People Mover (APM). The scope of work also includes an analysis of delivery options for all program elements and an evaluation of related LAWA operational and financial interests. The APM System formed the centerpiece of LAMP, connecting the Central Terminal Area (CTA) airline terminals and CTA airport parking garages with two future Intermodal Transportation Facilities (ITFs), a future Consolidated Rental Car Facility (ConRAC) and Metro facilities. It will significantly reduce traffic congestion in the CTA. It features approximately 2.25 miles of elevated, grade-separated Guideway connecting passenger terminals in the CTA with new airport landside facilities east of the CTA.		
<b>07/10-01/15</b>	<b>Honolulu Rail Transit Project High-Capacity Corridor, Honolulu, HI. HART.</b> Contract Manager. Contract manager for the Airport and City Center Sections Guideway and Utilities Relocation Contracts. Karl faced unique issues during final design, including significant staging issues thru the HNL, limited right of way		

	<p>availability, major utility relocations, including a 138-kilovolt transmission line, downtown Honolulu maintenance of traffic, and avoiding archaeological and cultural resources. WSP provided construction management, technical expertise, and public involvement services for the elevated light rail metro system, the first fully automated driverless urban light rail metro system in the U.S. The 20-mile, 21-station system connects the region of West Oahu with downtown Honolulu and the Ala Moana Center via the Daniel K. Inouye International Airport. Powered by electricity, the system benefits from advances in alternative energy sources including solar, wind, and biofuels.</p>
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Firm employed by: <b>WSP USA Inc.</b>				
<b>Name</b>	<b>Daniel Bridges, PE, DBIA</b>		<b>Years of relevant experience with this employer</b>	29
<b>Title</b>	Sr. Project Manager, Alternative Delivery		<b>Years of relevant experience with other employer(s)</b>	0
<b>Degree(s) / Years / Specialization</b>			<b>MS / 1997 / Civil Engineering</b>	
<b>Active registration number / state / expiration date</b>			<b>023924 / North Carolina / 12/30/24</b>	
<b>Year registered</b>	1998	<b>Discipline</b>	<b>Civil Engineer</b>	
<b>Contract role(s) / brief description of responsibilities</b>			Construction Plans and Technique Review	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>10/20–Ongoing</b>	<ul style="list-style-type: none"> <li>• <b>I-95 Widening between Exit 13 and 22, Fayetteville, North Carolina:</b> Daniel served as Pursuit Manager for the pursuit phase of this \$430M design-build project. WSP provided design services for the widening of I-95 between exits 13 and 22.</li> </ul>			
<b>08/18–Ongoing</b>	<ul style="list-style-type: none"> <li>• <b>Taxiway F Extension, Deicing Pad and South Crossfield Taxiway, Charlotte Douglas International Airport, Charlotte, North Carolina:</b> project manager during the later design phases and construction of the project. WSP provided engineering design services for a new de-icing pad and south crossfield taxiway at the Charlotte Douglas International Airport. The proposed de-icing pad accommodates up to five Group 5 aircraft de-icing positions. The crossfield taxiway provides efficient taxi flow for de-icing aircraft to the runway ends and provide relief to the air carrier ramp.</li> </ul>			
<b>11/18–Ongoing</b>	<ul style="list-style-type: none"> <li>• <b>I-3819B/U-6039, I-40/I-77 Interchange Reconstruction, Statesville, North Carolina:</b> design project manager through right of way plans for this \$260 million project which includes a new system-to-system turbine interchange and access management solutions on East Broad Street. WSP provided design, construction, and management services for the North Carolina Department of Transportation for the reconstruction of Interstate-40 and Interstate-77 interchange. The project provided Interstate-40 collector-distributor roadways between the U.S. Route 21 and Interstate-77 interchanges, modified the Interstate-40 and Mocksville Road interchange, modified the Interstate-77 and East Broad Street interchange, and widened Interstate-77 to eight lanes.</li> </ul>			
<b>10/18–Ongoing</b>	<ul style="list-style-type: none"> <li>• <b>I-5507, I-485 (Charlotte Outer Loop) Express Lanes, Mecklenburg County, North Carolina:</b> design project manager through right of way plans for this \$350 million design build project. WSP, as the lead engineering firm, is providing design-build services for the North Carolina Department of Transportation to widen a 17.5-mile portion of Interstate 485 from Interstate 77 to U.S. Route 74 (Independence Boulevard). The project will also provide express lane direct connectors at Westinghouse and Johnston Road interchanges, a new Interstate 485 and Weddington Road interchange, and modify the Interstate 485 and East Johns Street - Old Monroe Road interchange. The firm is responsible for the</li> </ul>			



	<p>design of roadway, drainage, structures, water and sewer, traffic control plans, permitting, signals, signing and pavement markings, intelligent transportation system, and all-electronic tolling. WSP will also be responsible for providing design services during construction.</p>
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Firm employed by: <b>WSP USA Inc.</b>				
<b>Name</b>	Ian Chaney, PE, VP		<b>Years of relevant experience with this employer</b>	20
<b>Title</b>	VP, Geotech		<b>Years of relevant experience with other employer(s)</b>	0
<b>Degree(s) / Years / Specialization</b>			MS / 2002 / Geotechnical Engineer BS / 2001 / Mining Engineering	
<b>Active registration number / state / expiration date</b>			PE0042288 / Louisiana / 9/30/2024	
<b>Year registered</b>	2018	<b>Discipline</b>	Civil Engineering	
<b>Contract role(s) / brief description of responsibilities</b>			Geotech	
<b>Experience dates (mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>2011 - Ongoing</b>	<b>VDOT, City of Chesapeake 2011 - Present Civil Engineering Open-End Annual Contract, Chesapeake, VA:</b> as pursuit manager and design manager for the pursuit, Ian was responsible for preliminary designs of both an immersed tunnel option and a bored tunnel option, including manmade island extensions, ground improvement, and protection of the existing tunnels and islands, built in the Atlantic Ocean on a subsurface consisting of up to 80 feet of soft compressible clays. WSP provided a variety of general civil engineering services under an annual contract for the City of Chesapeake. Project elements included stormwater management and drainage, water quality improvements, utility design and coordination, site development, traffic analysis, roadway design, highway lighting, and landscape design.			
<b>01/17 - Ongoing</b>	<b>LACPRA Mid-Barataria Sediment Diversion Project – Plaquemines Parish, LA:</b> As part of this CMAR project to design an intake structure and 2-mile long conveyance channel from the Mississippi River, Ian is the Lead designer and WSP Project Manager providing designs for floating U-structures and immersed tube tunnels, over which a RR bridge and the LA 23 bridge will be constructed. Ian is responsible for the design of the U-structure to support both the highway bridge and the RR bridge. Conceptual plans have been developed for both standard through girder designs and for a flood-proof design that could potentially lower the profile and reduce the overall bridge length by several thousand feet. At completion, the project will accommodate a diverted flow of more than 75,000 cfs of sediment-laden water that will ultimately be deposited and dispersed into the Barataria Bay, enabling marsh creating for future decades.			
<b>2015</b>	<b>District of Columbia Water and Sewer Authority, First Street Tunnel Design, Washington, DC:</b> as geotechnical engineer, Ian was responsible for the design of all near surface structures and their support of excavations, the development of Instrumentation and monitoring plans, as well as preparing construction impact assessment reports, which evaluated the existing structures and facilities because of tunneling, construction and excavation. WSP, in joint venture, provided architectural and engineering, and related services for the District of Columbia Water and Sewer Authority’s First Street Tunnel design-build project, a major component of their Clean Rivers Project. The tunnel was designed to temporarily store excess storm water and mitigate surface flooding and sewer backups in the district’s Bloomingdale and LaDroit Park neighborhoods.			

<b>Firm employed by: APS Engineering and Testing, LLC MPR 4</b>				
<b>Name</b>	<b>Sergio Aviles, PE</b>		<b>Years of relevant experience with this employer</b>	11
<b>Title</b>	Project Scientist		<b>Years of relevant experience with other employer(s)</b>	10
<b>Degree(s) / Years / Specialization</b>			<b>BS / 2001 / Geotechnical</b>	
<b>Active registration number / state / expiration date</b>			<b>PE.0033571 / Louisiana / 3/31/24</b>	
<b>Year registered</b>	2007	<b>Discipline</b>	<b>Civil Engineer</b>	
<b>Contract role(s) / brief description of responsibilities</b>			Field Testing and Lab Management	
<b>Experience dates (mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
<b>09/19– Ongoing</b>	<b>Project No. H.001352 and H.002273 Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA- 19:</b> APS was selected with the winning team for the design of the diversion CMAR project. APS will be the geotechnical designers for the project. Sergio is the project manager for the project design team.			
<b>09/19– Ongoing</b>	<b>Project No. H.004100: I-10 Widening LA 415 to Essen LN:</b> APS was tasked through our DOTD geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington exit and ending at the LSU Lakes. Along with this drilling and sampling, APS will also test for strength and engineering characteristics of the soils with total of eight over the waterborings and 44 land borings with approximately 1,000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Sergio is the project manager to the geotechnical investigations.			
<b>12/19–3/20</b>	<b>Project No. H.010155: US 90 Railroad Overpass SE of LA 85:</b> APS was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six deep borings were drilled and tested for geotechnical recommendation. Sergio was the project manager for the project design team.			
<b>03/19–05/19</b>	<b>Project No. H.001344: US 190 over Bogue Falaya River:</b> APS was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Sergio was the project manager for the project design team.			
<b>08/16–10/19</b>	<b>Project No. H.012422: I-110 Interchange Modification at Terrace Ave:</b> APS was tasked through our DOTD geotechnical retainer to drill and sample a total of six deep borings for the design of the Terrace Ave Exit. APS tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained or Undrained (UU) and Atterberg Limits performed by APS Laboratory. Sergio was the project manager to the geotechnical investigations.			

<b>11/17–2/18</b>	<b>Project No. H.013193: US 61 Thompson Creek Bridge Replacement:</b> APS was tasked thru our DOTD geotechnical retainer to drill and sample a total of eight deep borings for the replacement bridge at US 61 over Thompson Creek. APS tested for strength and engineering characteristics of the soils. Sergio was the project manager to the geotechnical investigations and analysis assigned for roads and bridges.
<b>07/14–08/14</b>	<b>Project No. 700-51-0110: US 90 elevated portion for the future I-49 corridor:</b> APS performed all the preliminary drilling, testing, and CPT for US 90 and Highway 318 intersection. A total of 46 borings and 11 CPTs along with all the testing required by LADOTD was completed. Sergio was the project manager to the geotechnical investigations and analysis as assigned for roads and bridges design.
	<p>The following list consists of projects that Sergio did the design or assisted on the design while at LADOTD. These projects include pile design, slope stability, settlement analysis, and construction services (PDA, CAPWAP, and WEAP).</p> <p><b>ONSYSTEM PROJECTS LIST:</b></p> <p>Sergio served as the staff geotechnical engineer while at the Pavement and Geotechnical Section for the following projects below. Projects include Embank Design, Pile Design, Drilled Shaft Design, MSE Wall Design, and Construction Supervision.</p> <p>Major project costs estimated over one million dollars:</p> <ul style="list-style-type: none"> <li>• 015-04-0037 LA524-LA123 Route US165, 015-05-0035 LaSalle, 015-07-0044 (Route 165 Cadwell, 276-03-0016 Tangipahoa River Bridge, 3132 Innerloop 427-01-0029, 362-01-0009 Rat Bois, 452-01-0039 I-55 CrossOvers, 742-07- 0098 Susek Drive, Bayou Perrie and Sand Beach Bayou 103-01-0025, Broadway Ave.700-40-0127, Cameron Route La. 27 193-02-0042, Causeway Boulevard interchange Route I-10 450-15-0098,Clayton-Greenville 026-03-0025, Crescent City Connection 283-08-0143(46), Cross Bayou Bridge 090-01-0020, Flannery at Florida 742-17-0008.</li> </ul>

Firm employed by: <b>Matrix New World Engineering</b>		<b>MPR 5</b>	
<b>Name</b>	Madeline Murphy	Years of relevant experience with this employer	1.5
<b>Title</b>	Professional Geologist	Years of relevant experience with other employer(s)	35
<b>Degree(s) / Years / Specialization</b>		BS, Geology, Louisiana State University, 1987	
<b>Active registration number / state / expiration date</b>		P.G. 377/LA/December 2023; Certified Professional Geologist 08557/Am. Institute of Professional Geologists/December 2023	
<b>Year registered</b>	2014	<b>Discipline</b>	Geology
<b>Contract role(s) / brief description of responsibilities</b>		Field Team Leader	
<b>Experience dates (mm/yy–mm/yy)</b>	<b>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).</b>		
5/2023	<b>Installation of Multiple Soil Borings for Assessment of Contaminants, Lafayette Regional Airport, Lafayette, Louisiana</b> Directed and oversaw the installation of soil borings and collection of samples to determine the level of contamination, if any. Samples were collected and tested in the field to determine the most probable depth of contamination. Samples were evaluated with a photoionization detector and representative samples were obtained for laboratory analysis to ensure construction in the area would not be impacted by potential contamination.		
3/2022	<b>Installation of Geotechnical Borings for Construction of a Proposed Landfill Expansion, Private Client, DeRidder, Beauregard Parish, Louisiana</b> Oversaw the drilling and collection of geotechnical borings to determine physical properties of the soils and their relative suitability for the construction of additional cells for an industrial landfill.		
1/22 – 7/21	<b>Installation of Geotechnical Borings for Construction of a Proposed Landfill Expansion, Private Client, Fayette, Jefferson County, Mississippi</b> Oversaw the drilling and collection of geotechnical borings to determine physical properties of the soils and their relative suitability for the construction of additional cells for a municipal landfill.		
4/16-5/18	<b>Installation of Multiple Soil Borings for the Assessment of Contaminants, Private Client, Sulphur, Louisiana.</b> Directed and oversaw the installation of multiple soil borings to define the extent of horizontal and vertical contamination at a fuel storage facility (salt dome). Drilling was done in a swamp area which required construction of temporary berms prior to-drilling to allow unrestricted access and prevent cross-contamination of samples. Soil and groundwater samples were collected at multiple locations and depths to allow for accurate determination of the extent of contamination in both media.		
1/2016	<b>Installation of a Groundwater Monitoring Well, Packaging Corporation of America, DeRidder, Beauregard Parish, Louisiana</b> Directed and oversaw the installation of a groundwater monitoring well to meet the requirements of the Louisiana Department of Environmental Quality (LDEQ) solid waste program and determine the natural variations of metals in groundwater at the site. Project included determining the geologic unit below the existing monitored unit that would most likely produce water to meet the LDEQ requirements.		

10/13	<p><b>Installation of Temporary Groundwater Monitoring Wells and Collection of Soil and Groundwater Samples, Port Facility, St. Bernard Parish, Louisiana</b></p> <p>Directed and oversaw the installation of multiple soil borings and temporary monitoring wells to determine the impact to geologic formations at a Port facility in southeast Louisiana. Project required obtaining a Corps of Engineers permit prior to drilling and coordination with the Corps to establish proper drilling dates and depths as dictated by the water level in the Mississippi River. Samples were evaluated with a photoionization detector and representative samples were obtained for laboratory analysis to determine any potential impact from surface spills in the area.</p>
4/07	<p><b>Installation of a Groundwater Monitoring Well and Plugging and Abandonment of Existing Well, Packaging Corporation of America, DeRidder, Beauregard Parish, Louisiana</b></p> <p>Directed and oversaw the installation of a groundwater monitoring well to meet the requirements of the LDEQ solid waste program and the plugging and abandonment of an existing well that no longer produced water. Project included determining the geologic unit that would most likely produce water and be screened as near as possible to the (P&amp;Aed) well to meet the LDEQ requirements.</p>

Firm employed by: <b>Matrix New World Engineering</b>			<b>MPR 5</b>
<b>Name</b>	Brian Carter	<b>Years of relevant experience with this employer</b>	2
<b>Title</b>	Professional Geologist	<b>Years of relevant experience with other employer(s)</b>	30
<b>Degree(s) / Years / Specialization</b>		Ph.D., Geology, Louisiana State University, 1992 MS, Geology, Louisiana State University, 1984 BA, Geology, North Dakota State University, 1980	
<b>Active registration number / state / expiration date</b>		Registered Professional Geologist: Alabama, Arkansas, Kansas, Kentucky, Louisiana, Mississippi, Tennessee	
<b>Year registered</b>		<b>Discipline</b>	Geologist
<b>Contract role(s) / brief description of responsibilities</b>			
<b>Experience dates (mm/yy–mm/yy)</b>	<b>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).</b>		
2/08-11/16	<b>Lake Charles Area Gas Field   Independent Energy Company   Lake Charles, Louisiana</b> - Provided senior level technical support to help the client evaluate risk and satisfy regulatory requirements related to natural gas blowout. <ul style="list-style-type: none"> <li>• Oversaw visual and electrical logging of 600+ foot monitor well</li> <li>• Prepared Louisiana (LDEQ) risk evaluation (RECAP) report</li> <li>• Provided technical support including groundwater modeling for remedial alternatives design</li> </ul>		
1/90-1/23	<b>Underground Storage Tank sites   Multiple Major Fuel Distributors   Louisiana, Texas, Arkansas, South Carolina, Tennessee, and Mississippi</b> - Provided senior level technical support to help the clients evaluate site conditions, evaluate risk and satisfy regulatory requirements related to leaking USTs. <ul style="list-style-type: none"> <li>• Oversaw logging of soil borings and monitor wells</li> <li>• Performed multiple aquifer tests</li> <li>• Prepared Louisiana, Texas, Arkansas, South Carolina and Mississippi risk evaluation reports</li> <li>• Provided technical support including groundwater modeling for remedial alternatives designs</li> </ul>		
4/90-1/23	<b>Legacy Oil and Gas Exploration and Production Facilities   Major Oil and Gas Corp.   Louisiana</b> Provided senior level technical support to help the clients evaluate risk and satisfy regulatory requirements related to legacy hydrocarbon and produced water releases. <ul style="list-style-type: none"> <li>• Performed geological assessments with traditional drilling, LIF/ROST, CPT and electrical conductivity surveying</li> <li>• Performed multiple aquifer tests</li> <li>• Developed groundwater models</li> <li>• Prepared Louisiana (LDNR) risk evaluation (RECAP) reports</li> <li>• Provided technical support for remedial alternatives design</li> <li>• Negotiate settlements with regulators</li> </ul>		

7/90-4/22	<b>Solid Waste Facilities   Multiple Clients   Louisiana</b> – Provided assistance on the geological and geotechnical development of solid waste landfill permits, negotiated with regulators, and the statistical analysis of groundwater monitoring for facilities.
6/06-8/12	<b>Hydrogeologist FERC facilities   Multiple Energy Companies   Louisiana, Mississippi, Texas, Michigan, New Mexico</b> - Provided assistance to companies developing Federal Energy Regulatory Commission applications for the development of gas storage caverns, gas storage fields and pipelines, and assess and develop water resources for storage facilities.
8/04-Ongoing	<p><b>Hydrogeologist Multiple facilities   Multiple Companies   Louisiana, Mississippi, Colorado, Oklahoma, New Mexico and Arkansas</b> - Provided assisted companies negotiate complex lawsuits for soil and groundwater impairment by evaluating site conditions, preparing expert reports, providing depositions and court testimony. He has successfully reduced the clients exposure to large monetary claims.</p> <p>Dr. Carter has provided forensic support services within the technical areas listed below:</p> <ul style="list-style-type: none"> <li>• Hydrogeology and impact to soils</li> <li>• Risk Assessment for Groundwater Protection Standards</li> <li>• Groundwater Fate and Transport Assessment</li> <li>• Remedial Investigation and Feasibility Studies</li> <li>• Industrial facilities, Underground Storage Tank Sites, Dry Cleaner Facilities, and Oil and Gas Exploration and Production Sites</li> </ul>
4/90-Ongoing	<p><b>Presented below are specific projects for which he has provided forensic technical services, and/or depositions/expert testimony.</b></p> <ul style="list-style-type: none"> <li>• 2021: 12th United States District Court for the District of New Mexico. Alesia Gonzalez v. IMTT EPIC LLC.; Retained on behalf of defense to evaluate the allegations and prepare an expert report. Provided deposition. Counsel: Modrall, Sperling, Roehl, Harris &amp; Sisk, P.A.</li> <li>• 2021: 16th Judicial Court, Iberia Parish, Louisiana. Pigeon Land Company v. Hunt Oil Company; Retained on behalf of defense to evaluate the allegations, assess the site, and prepare an expert report. Counsel: Kean Miller LLP (Kean Miller) and Cook, Yancey, King, and Galloway, APLC.</li> <li>• 2020: 12th Judicial Court, Avoyelles Parish, Louisiana. Reuben R. Paul and Chris D. Paul v. Hunt Oil Company and Total E&amp;P USA, Inc.; Retained on behalf of defense to evaluate the allegations, assess the site, and prepare an expert report. Counsel: Kean Miller LLP (Kean Miller) and Cook, Yancey, King, and Galloway, APLC.</li> <li>• 2018: 19th Judicial Court, East Baton Rouge Parish, Louisiana. Lexington Land and Development, LLC v. Chevron Pipe Line Company, et al. Retained on behalf of defense to evaluate the allegations, assess the site, and prepare an expert report. Counsel: Johnson Gray McNamara, LLC.</li> <li>• 2018: 16th Judicial Court, St. Mary Parish, Louisiana. New 90, LLC and Louisiana Wetlands, LLC v. Grigsby Petroleum, Inc. and Chevron U.S.A., Inc. Retained on behalf of defense to evaluate the allegations, assess the site, prepare an expert report and provided a deposition; case settled. Counsel: Cook, Yancey, King, and Galloway, APLC.</li> </ul>





Firm employed by: <b>Matrix New World Engineering</b>			<b>MPR 6</b>	
<b>Name</b>	Linda McConnell		Years of relevant experience with this employer	5
<b>Title</b>	Environmental Engineer		Years of relevant experience with other employer(s)	32
<b>Degree(s) / Years / Specialization</b>			BS, Mathematics, Louisiana State University 1972	
<b>Active registration number / state / expiration date</b>			PE 0020434 / Louisiana /3-31-23	
<b>Year registered</b>	1/25/1983	<b>Discipline</b>	Civil Engineer	
<b>Contract role(s) / brief description of responsibilities</b>			Environmental Pro for Permit Preparation and Plans	
<b>Experience dates (mm/yy–mm/yy)</b>	<b>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).</b>			
<b>01/85 - 03/87</b>	Project Engineer: FEMA, Flood Insurance Studies, Southwest LA. Project Engineer for several Flood Insurance Studies in southwestern Louisiana. Participated in numerous other flood study and channel design projects. Studies included field surveys and data collection, report preparation, participation in public meetings, modeling of hydrology and hydraulics, determination of base flood elevations, floodway boundaries, etc.			
<b>01/06 – 12/08</b>	Project Manager, FERC 7(c) Pipeline Certification; Tarpon Gas Storage; Houston, TX Preparation of environmental resource reports for the Federal Energy Regulatory Commission 7(c) permits. Managed environmental investigations and preparation of NEPA documents for FERC. Work included oversight of field investigations and report preparation for fish, wildlife, and vegetation reports; coordination and/or preparation of reports on land use, recreation, and aesthetics, alternatives, cultural resources, soils, and geological resources, as well as summary of NEPA potential impacts.			
<b>01/09 – 12/11</b>	Project Manager: St. James Rail Terminal, New Rail Terminal Permitting, St. James, Louisiana. Managed environmental services, including permitting, for a new rail terminal providing unit train delivery of crude oil. The project also included a pipeline from the offloading pipe rack to the receiving terminal, on an adjacent property. Work included initial Environmental Site Assessment of property, Phase II Baseline Assessment, wetlands delineation, Joint Application to the Louisiana Department of Natural Resources, Office of Coastal Management, for a Coastal Use Permit, and to the Corps of Engineers, New Orleans District, for a Nationwide General Permit 3; application to the Louisiana Department of Environmental Quality for Water Quality Certification; preparation of a Stormwater Pollution Prevention Plan and Spill Prevention, Control, and Countermeasures Plan; coordination of application to the State Fire Marshal for construction permit approval.			
<b>01/10 – 12/11</b>	Project Manager: Port Eads Reconstruction Project, Plaquemines Parish, LA. – On behalf of Plaquemines Parish Government, conducted environmental reviews and applied for and obtained permits related to the reconstruction of Port Eads in the aftermath of Hurricane Katrina. Permits/approvals included Louisiana Department of Natural Resources, Office of Coastal Management, Coastal Use Permit (P20100263), Corps of Engineers Permit (MVN-2010-0966-EPP), Louisiana Department of Environmental Quality Water Quality Certification (WQC 100521-01/AI 171168/CER 20100001), and other related consultations.			
<b>09/12 – 04/14</b>	East Baton Rouge City-Parish, Environmental Reviews for FONSI for Old Hammond Highway Improvements, Baton Rouge, LA. Managed environmental investigations and prepared Findings for FONSI (Finding of No Significant Impact)			

	for expansion of Old Hammond Highway (LA 426) from Boulevard de Province to Millerville Road (Phase II). Studies included Phase I ESA, evaluation of wetlands and other water bodies, threatened and endangered species, and cultural resources, as well noise survey and modeling for impact assessment and evaluation of impact to air.
<b>05/16 – 07/17</b>	Project Manager: Livingston Parish, NEPA Environmental Reviews for Cook Road Improvements and extension, Livingston Parish, LA. Managed environmental investigations and prepared documents for NEPA EA.
<b>10/14 – 12/18</b>	Project Manager: East Baton Rouge City-Parish, Environmental Assessment for Old Hammond Highway Improvements, Baton Rouge, LA. Managed environmental investigations and completed NEPA Environmental Assessment (EA) for expansion of Old Hammond Highway (LA 426) from Boulevard de Province to Millerville Road (Phase II), City/Parish Project No.: 12-CS-HC-0045, State Project No.: H.007970, F.A.P. No.: H007970, Baton Rouge, East Baton Rouge Parish, Louisiana. The EA included Phase I ESA, evaluation of wetlands and other water bodies, threatened and endangered species, and cultural resources, as well noise survey and modeling for impact assessment and evaluation of impact to air.

Firm employed by: <b>Matrix New World Engineering</b>		<b>MPR 7</b>
<b>Tyler MacGillivray</b>	Years of relevant experience with this employer	5
<b>Title:</b> Environmental Pro	Years of relevant experience with other employer(s)	5
<b>Degree(s) / Years / Specialization</b>		BA, Gettysburg College, Environmental Science, 2018
<b>Active registration number / state / expiration date</b>		
<b>Year registered</b>	<b>Discipline</b>	
<b>Contract role(s) / brief description of responsibilities</b>		Environmental Pro
<b>Experience dates (mm/yy–mm/yy)</b>	<b>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).</b>	
9/2020-2/2021	<i>Colby College, Brownfields Remediation, Waterville, ME:</i> Project Monitor for this multi-dimensional project and oversaw the abatement of asbestos, mercury, and PCB containing materials and soils. Maintained daily site logs and conducted site safety audits. Conducted daily background environmental air sampling and personal exposure monitoring for on-site workers. Performed final re-occupancy air clearance testing and PCB substrate verification sampling	
6/2021-2/2022	<i>Travelers Insurance Main Campus Restack Inspection, Hartford, CT:</i> Site inspector/Project Monitor for the Travelers Insurance company Hartford Campus renovation. Mr. MacGillivray performed bulk asbestos samples and conducted lead screens throughout this multiple building facility. Upon completion of the building inspection Mr. MacGillivray served as the project monitor for abatement oversight where he performed daily air monitoring, final air clearances.	
3/2021-5/2021	<i>Milone &amp; Macbroom, Abandoned Nike Missile Site, Abatement &amp; Demolition Oversight, Cromwell, CT:</i> Project Monitor for this multi-phase project. As part of the planned demolition of several buildings, Mr. MacGillivray performed daily Job Safety Analyses and monitoring of abatement activities across the property. This included maintaining daily site logs and the sampling and recording of daily air monitoring; both on the workers inside the contained work areas and outside the work areas, as well as final re-occupancy air clearance testing. An alternate work practice (AWP), approved by the State of Connecticut Department of Public Health was utilized to demolish several of the buildings onsite due to the unsafe conditions of the buildings, which would not allow for traditional abatement techniques. Mr. MacGillivray worked closely with the abatement and demolition contractors to ensure they worked within the parameters of the AWP and OSHA regulations to ensure each building was safely demolished.	
4/2019-9/2020	<i>United Illuminating, English Station Property, Asbestos Abatement, New Haven, CT:</i> Project Monitor for this multi-phase project. As part of the planned demolition of several buildings, Mr. MacGillivray performed site safety audits and daily monitoring of abatement activities across the property. This included maintaining daily site logs and the sampling and recording of daily air monitoring; both on the workers inside the contained work areas and outside the work areas, as well as final re-occupancy air clearance testing.	
12/2018	<i>CT Department of Construction Services, Camp Isola Bella the American School for the Deaf, Salisbury, CT:</i> Lead Asbestos Inspector for the 3-Year AHERA re-inspection of the facility. This included the physical re-assessment of known asbestos in the school building as well as the sampling of any newly discovered suspect materials.	
10/2018-11-2018	<i>TSKP Studio of Hartford, Woodrow Wilson Elementary School, Middletown CT:</i> Served on a team of inspectors for the comprehensive pre-demolition survey of Woodrow Wilson Elementary School and performed bulk asbestos and	

	PCB sampling as well as PCB substrate sampling and Waste Stream Characterization.
12/2018-3/2019	<i>United Illuminating, English Station Power Plant, Pre-Demolition PCB Inspection, New Haven, CT:</i> Served on a team of inspectors for the comprehensive pre-renovation PCB inspection of the building. This included surveying the main power plant and auxiliary buildings for PCB containing caulks, glazes, and paints.
	<p><b>Professional Registrations and Certifications</b></p> <p>HAZWOPER 40 &amp; 8hr Refresher  HAZWOPER Site Supervisor, 9/2021  NYCDEP Asbestos Investigator  NYS DOL Asbestos Inspector  AIHA Asbestos Analyst (# 9725)  Asbestos Inspector, Connecticut, (# 001021)  Asbestos Project Monitor, Connecticut, (# 000848)  10 Hour OSHA Safety Training  40 Hour OSHA HAZWOPER  CTDOT/Metro North Railroad Safety Awareness  Bowen EHS ASP / CSP Course  EPA AHERA Asbestos Inspector  EPA AHERA Asbestos Project Monitor  EPA Lead Based Paint Inspector  Niton X-Ray Fluorescence Spectrum Analyzer  NIOSH 582 Equivalency (Phase Contrast Microscopy) – Airborne Asbestos Fiber Analysis  USDOT Hazardous Materials Shipper</p>

<b>Firm employed by: Walker-Hill Environmental</b>				
<b>Name</b>	Gary Hill		<b>Years of relevant experience with this employer</b>	26
<b>Title</b>	President		<b>Years of relevant experience with other employer(s)</b>	17
<b>Degree(s) / Years / Specialization</b>				
<b>Active registration number / state / expiration date</b>				WWC#574 / Louisiana / 6/30/24
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>				Well abandonment & installation
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
5/79-4/87	Driller/ Technician (Installing Wells, P&A, Remediation, etc.)			
5/87-5/91	Environmental Superintendent (Installing Wells, P&A, Remediation, etc.)			
6/91-6/96	Environmental Manager (Installing Wells, P&A, Remediation, etc.)			
6/96-Ongoing	President/ Owner (Installing Wells, P&A, Remediation, etc.)			

<b>Firm employed by: Walker-Hill Environmental</b>				
<b>Name</b>	Caleb Hill		<b>Years of relevant experience with this employer</b>	5
<b>Title</b>	Project Manager		<b>Years of relevant experience with other employer(s)</b>	0
<b>Degree(s) / Years / Specialization</b>				BS / 2016 / Sport Administration & Business
<b>Active registration number / state / expiration date</b>				WWC#574 / Louisiana / 6/30/24
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>				Well abandonment & installation
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
12/17-12/19	Driller and Project Manager for Environmental Operations (Installing Wells, P&A, Remediation, etc.)			
12/19- Ongoing	Project Manager and Drill Supervisor for Environmental Operations (Installing Wells, P&A, Remediation, etc.)			

Firm employed by: <b>Matrix New World Engineering</b>			
<b>Name</b>	Gray W. Adams, PG	Years of relevant experience with this employer	2
<b>Title</b>	Senior Program Manager	Years of relevant experience with other employer(s)	20
<b>Degree(s) / Years / Specialization</b>	Bachelor of Science/1997/Geological Sciences Master of Science/2001/Geology		
<b>Active registration number / state / expiration date</b>	450/LA/January 13, 2024		
<b>Year registered</b>	2015	<b>Discipline</b>	Professional Geoscientist
<b>Contract role(s) / brief description of responsibilities</b>	Sampling and Analysis Plan/Report Preparation		
<b>Experience dates (mm/yy–mm/yy)</b>	<b>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).</b>		
12/15 – 12/18	<b>In Situ Thermal Remediation, Interstate I-10 Median, South Louisiana:</b> Project Manager and Partner in Charge for the planning, permitting, assessment, and remediation of trichloroethylene (TCE) in soil within the median (between the east- and west-bound interstate lanes) of Interstate I-10. The TCE in soil was a result of a 1,200-gallon spill from an overturned tanker truck. Prepared work plans and remediation design documents, managed stakeholder engagement and regulatory communications (LDEQ, LDNR, and LDOTD), and provided oversight for the implementation of an Electrical Resistivity Heating (ERH) remediation project. 39 remediation electrodes, 20 vapor recovery wells, 6 temperature monitoring points, and 6 monitor wells (including completions within the Chicot aquifer), soil borings, and extraction lines were installed / abandoned during the investigation and remediation. The vapor from heating the soil was transferred via piping installed under the interstate, to a temporary treatment unit installed north of the interstate. The vapor / condensate was treated via carbon, and condensate was discharged under a general permit. Subsidence along the interstate, and air monitoring, were conducted throughout the project. The project resulted in the removal of TCE from clay soils to a depth of ~50 feet below ground surface. The remediation goal [Risk Evaluation / Corrective Action Program (RECAP) screening standard for soil protective of groundwater] was achieved within 281 days of heat initiation.		
8/16 – 4/18	<b>Historic Waste Pile Investigation and Remediation, Manufacturing Facility, Lake Charles, Louisiana:</b> Project Manager for the investigation / delineation to remove over 37,000 tons of PCB- and PAH- impacted soil and debris from a former waste pile in an active manufacturing facility. The pile was delineated using sonic drilling technology. Managed the preparation of design specifications, contractor bidding and procurement, and contractor oversight.		
11/15 – 08/17	<b>Comingled PCB and VOC Groundwater Plume Study, Manufacturing Facility, Lake Charles, Louisiana:</b> Prepared and implemented multiple interim work plans to investigate a comingled groundwater plume in south Louisiana. Contaminants included PCBs and chlorinated solvents in groundwater. The investigation included source area delineation, and assessment of treatment technologies, including hot spot removal and reactive permeable barrier installation.		
04/15 – 09/16	<b>Former Burn Pit Remediation, Southern Louisiana</b> – Project Manager for preparation and implementation a remedial action work plan for the removal of oil and gas related waste from a former burn pit associated with an oil and gas plant in south Louisiana. Investigation included installation of multiple soil borings for the delineation of the impacted soil. Remediation included removal and backfill of approximately 3,300 cubic yards of material, impacted with contaminants including PAHs, metals, VOCs and dioxins, as well as the use of soil amendments to treat Louisiana Statewide Order No.		

	29-B parameters in surface soil. Activities included significant storm water management and treatment onsite under an LPDES Short Term and Emergency Discharge permit.
05/09 – 01/14	<b>Marine Shale Processors Site Demolition / IRM, Amelia, Louisiana</b> - Project Manager for the demolition/ remediation of the former Marine Shale Processors Site in Amelia, Louisiana on behalf of a PRP Group. Project duties included development of a Remedial Investigation Work Plan, conducting a hazard assessment and structural assessment of site buildings / tanks, waste characterization sampling, implementation of hazardous and non-hazardous waste removal / disposal, storm water management, decontamination and demolition of site structures, health and safety oversight, contractor management, and asset recovery. Waste removed included 350 tons of hazardous waste for incineration, 6,700 tons of hazardous waste for landfill/stabilization, 42,000 gallons of hazardous liquids, 193,000 tons of non-hazardous liquids. 950,000 gallons of contact water was also disposed offsite.



Firm employed by: <b>SGS North America Inc.</b>				
<b>Name</b>	Corey Burns		<b>Years of relevant experience with this employer</b>	<1
<b>Title</b>	Environmental Scientist		<b>Years of relevant experience with other employer(s)</b>	20
<b>Degree(s) / Years / Specialization</b>			BS, Environmental and Sustainable Resources, 1999	
<b>Active registration number / state / expiration date</b>			N/A	
<b>Year registered</b>	N/A	<b>Discipline</b>	N/A	
<b>Contract role(s) / brief description of responsibilities</b>			Analytical Laboratory	
<b>Experience dates(mm/yy–mm/yy)</b>	<b>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</b>			
06/06-05/23	<ul style="list-style-type: none"> <li>• <b>Environmental Scientist for AECOM:</b> Conduct desktop NEPA reviews for FEMA, after Mississippi and Texas hurricane disasters. Coordinate and assist with lead-based paint inspections for homes effected by Hurricane Katrina. Perform AST searches and GPS mapping for NEPA reviews requested by Mississippi Development Authority (MDA). GPS location mapping of effected homes in Mississippi for MDA Hurricane Katrina Disaster Recovery effort. Project Manager for Plantation Pipeline and Chevron environmental remediation sites. Site Maintenance Manager and Site Safety Officer for Combustion Superfund Phyto-Remediation site in Denham Springs, LA. Lead quarterly groundwater sampling activities inside Clooney Loop and East Tank Farm at Phillips 66 refinery in Lake Charles, LA. Schedule and provide safety oversight for transfer, transport and disposal of product recovered from Phillips 66 remediation site in Egan, LA. Generate Health and Safety Plans for quarterly sampling events, operation and maintenance of facilities, and installation of remediation systems. Manage groundwater monitoring activities within terminals, retail sites, pipeline Right-of-Ways and tank farms for Plantation Pipeline Company, Shell, Maples Gas Company, and Chevron throughout Louisiana and Mississippi. Supervise/Assist with installation, provide operational support, and safety oversight for the following systems: <ul style="list-style-type: none"> <li>• Operation and Maintenance of Air Sparge/Soil Vapor Extraction System (Shell Motiva Fuel Terminal, Meridian, MS)</li> <li>• Installation of Air Sparge/Soil Vapor Extraction System (Plantation Pipeline Company, Zachary, LA)</li> <li>• Site Safety Officer and Site Lead for Semi-Annual Groundwater Monitoring and Monthly Inspection Events (Maples Gas Company Terminal, Meridian, MS)</li> <li>• Site Safety Officer for Annual Groundwater Monitoring Event (Chevron Fuel Terminal, Collins, MS)</li> <li>• Response Coordinator for AECOM at Plantation Pipeline Company Fuel Releases (Collins Tank Farm, Collins, MS)</li> </ul> </li> </ul>			

	<ul style="list-style-type: none"> <li>• Demolition and closure of Air Sparge/Soil Vapor Extraction System (Plantation Pipeline Company, Zachary, LA)</li> <li>• Installation and maintenance of Groundwater Treatment/Product Recovery System (Targa refinery, Egan, LA)</li> <li>• Installation and Maintenance of Passive Oxygen Diffusion System (Plantation Pipeline Company, Kentwood, LA)</li> <li>• Oversight of Wetland Reclamation Project at Sabine Wildlife Refuge (Phillips 66, Hackberry, LA)</li> </ul>
03/04-01/06	<ul style="list-style-type: none"> <li>• <b>Environmental Scientist at Shaw Environmental &amp; Infrastructure:</b> Manage two locations in Baton Rouge for Jefferson Parish Jump Start Program permitting re-entry of business owners into Jefferson Parish after Hurricane Katrina. Facilitate delivery of emergency rations and supplies to East Jefferson General Hospital during Hurricane Katrina relief effort. Environmental testing for Home Depot corporation at locations in New Orleans East and Chalmette, LA clearing them to re-open after flooding from Hurricane Katrina. Facilitate surface water sampling of canals, and Lake Pontchartrain in New Orleans following flooding from Hurricane Katrina. Execute site audits for Spill Prevention Control and Countermeasures Plans (SPCC) and Storm Water Pollution Prevention Plans (SWPPP) for new Wal-Mart Super Store and Sam's Club locations in Arkansas and Louisiana. Compile Environmental Management Guides for Wal-Mart locations in Arkansas, Louisiana, and Georgia. Research and compose Solid Waste Permit Applications for CLECO Rodemacher Power Station near Alexandria, LA, NRG Big Cajun Power Stations I and II in New Roads, LA, and Honeywell Specialty Chemical in Geismar, LA. Conduct groundwater sampling for Plantation Pipeline Company in Kentwood, LA, Honeywell Specialty Chemical in Geismar, LA and NRG Big Cajun Power Station near New Roads, LA.</li> </ul>
02/02-02/04	<ul style="list-style-type: none"> <li>• <b>Business Development Manager at Hulcher Professional Services, Port Allen, LA:</b> Establish Hulcher Services as a new Emergency Response and Remediation Service in Louisiana, Mississippi, east Texas, and southern Arkansas. Provide 24-hour support for Train Derailment and Haz-mat crews including customer and regulatory relations, as well as supply and material procurement. Manage projects including product transfers from rail cars, brokering sale of damaged loads, and maintenance of Union Pacific, Canadian National, Norfolk-Southern, CSX, BNSF and KSC rail yards and track. Collaborate with local and state authorities at highly-publicized rail incidents in Amite and Vacherie, LA, to contain initial threats to the public and return people to their homes. Develop quarterly marketing plans for targeting and capturing opportunities for Rail and Environmental Divisions in Port Allen, LA</li> </ul>

**17. Firm Experience:**

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

Firm name	WSP USA, Inc.	Past Performance Evaluation Discipline(s)*	**
Project name			Firm responsibility (prime or sub?)
Project number	Owner’s name		
Project location	Owner’s Project Manager		
Owner’s address, phone, email			
Services commenced by this firm (mm/yy)		Total consultant contract cost (\$1,000’s)	
Services completed by this firm (mm/yy)		Cost of consultant services provided by this firm (\$1,000’s)	

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).

Firm name	WSP USA		Past Performance Evaluation Discipline(s)*	Environmental Engineering
Project name	Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge Task Order)		Firm responsibility (prime or sub?)	Prime
Project number	H.003931.5	Owner's name	LADOTD	
Project location	Calcasieu Parish, LA		Owner's Project Manager	Peggy Jo Paine
Owner's address, phone, email	225.379.1065; peggy.paine@la.gov			
Services commenced by this firm (mm/yy)	02/21	Total consultant contract cost (\$1,000's)		\$6,708k
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$5,997k

This Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk Project replaces the 70-year-old Calcasieu River Bridge, increases the capacity of I-10 through the Lake Charles region, and relieves a national freight bottleneck. LADOTD selected WSP as the technical advisor to work side-by-side with them in the management of the P3 procurement and upcoming negotiation process. WSP is also providing Level 2 Traffic and Revenue (T&R) Analysis forecasts in support of the P3 procurement process.

WSP is currently serving as technical advisor leading development of the technical provisions and providing commercial advisory for development of other procurement documents including the instructions to proposers and contract documents. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria. WSP is supporting the Q&A process as well as the one-on-one meetings with the shortlisted proposers providing support to LADOTD in review of alternative technical concepts (ATCs) and other avenues for potential contractor innovation helping to refine the RFP documents.

WSP reviewed and summarized the Phase I Environmental Site Assessment (ESA) and provided expert guidance in the development of requirements for managing hazardous materials and contamination risks in the project design and construction limits. Prior to the RFP process, WSP supported the development of the RFQ and performed a comprehensive technical review of the submitted Statements of Qualifications (SOQ) assisting the LADOTD with its shortlisting process.

#### Services Performed:

- Traffic and Revenue Analysis - Level 2
- Developing performance specifications, technical provisions, and design criteria
- Providing technical services for evaluation of SOQs and proposals
- Technical support for 1-on-1 meetings and evaluation of ATCs
- Hazardous materials and environmental risk management
- Federal major projects and grant support

#### Proposed Team Members Who Worked on This Project:

- **Max Nassar** – Project Principal
- **Earl Scott** – Env. Hazardous Materials SME
- **Deborah Brown** – Project Manager
- **Sallye Perrin** – Lead Technical Advisor
- **Karl Winterstein** – Technical Advisor



Firm name	<b>WSP USA Inc.</b>		Past Performance Evaluation Discipline(s)*	Environmental Engineering
Project name	<b>Chemical Waste Management – Lake Charles Facility</b>		Firm responsibility (prime or sub?)	Prime
Project number	Various	Owner's name	Waste Management Inc.	
Project location	Sulphur, LA		Owner's Project Manager	Ron Wagnon (left organization); Amanda Olson (225-667-6138); Mark Fritchie (337-583-3798)
Owner's address, phone, email	7170 John Brannon Road, Sulphur LA 70665, (866) 909-4458			
Services commenced by this firm (mm/yy)	06/97	Total consultant contract cost (\$1,000's)		\$4,000
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$4,000

WSP and predecessor firms have been working on the Lake Charles Facility since the 1980's and the proposed project team members have been working on the site since 1997. Various services and projects have been conducted at the facility, including:

- Detail design and construction quality assurance for numerous disposal cells at the facility. Tasks included developing grading plans and construction details, preparing technical specifications, monitoring, testing, and documenting the construction of low-permeability compacted clay, flexible membrane liner, geosynthetic drainage layer, and a protective cover layer.
- Detail design and construction quality assurance of closure for multiple disposal units. Tasks included developing grading plans and construction details, preparing technical specifications, monitoring, testing, and documenting the construction of low-permeability compacted clay, flexible membrane liner, geosynthetic drainage layer, and a vegetative cover layer.
- Construction quality assurance for the construction of the stormwater management system included monitoring, testing, and documenting construction of a concrete outlet structure, pond liner system, vinyl sheet pile walls, culvert crossings, and surface water drainage channels.
- Design and construction quality assurance of a bioremediation facility located above an existing hazardous waste cell. The project included conducting a geotechnical investigation, monitoring a test fill with settlement plates, designing a double-liner system, designing a leachate collection and piping system, and monitoring construction quality assurance of facility construction. A building was constructed over the biopad to reduce leachate generation and provide for effective operation during inclement weather.
- Permit-level design of a new double-lined hazardous waste cell. Conducted a geotechnical investigation, installed piezometers in three distinct groundwater systems to characterize the hydrogeology. Designed a stormwater management system consisting of add-on berms, perimeter channels, and a retention pond.
- Design and construction quality assurance of a 7,400-foot long slurry trench cut-off wall around a hazardous waste landfill cell. Used the results from a previous geotechnical investigation consisting of borings and cone penetrometer soundings to design the slurry mix and determine the depth of the slurry trench. The slurry trench was tied into an existing slurry wall.
- Permitting, design, and closure of a debris disposal cell used in landfilling waste generated from a hurricane.

#### Proposed Team Members Who Worked on This Project:

- **Charles Dominguez** – Project Manager
- **Chad Ireland** – Project Manager/Technical Lead

Firm name	<b>WSP USA Inc.</b>		Past Performance Evaluation Discipline(s)*	Environmental Engineering
Project name	<b>Firestone Polymers Site Investigation and Closure</b>		Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Bridgestone Americas Tire Operation (BATO)	
Project location	Orange, Texas		Owner's Project Manager	Jane Johnson
Owner's address, phone, email	200 4 <sup>th</sup> Avenue South Nashville, Tennessee 37201; (615) 579-7356; jane@novards.com			
Services commenced by this firm (mm/yy)	07/98	Total consultant contract cost (\$1,000's)	3,500	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	2,900	

WSP was retained by BATO to provide environmental consulting services related to RCRA Corrective Action requirements at their Firestone Polymers chemical manufacturing plant located in Orange, Texas (approximately 3 miles from the Louisiana border) under and Agreed Order with the Texas Commission on Environmental Quality (TCEQ). The plant is located on 125 acres of land and manufactures synthetic rubber and other chemical products. The plant process area also included wetland areas that were adjacent to Cow Bayou.

Proposed Team Members Who Worked on This Project:

- Earl Scott – Project Principal

A total of 26 Waste Management Areas (WMAs) were listed in the Agreed Order that required investigation and closure. Investigations involved installation of groundwater monitoring wells, collection and chemical analyses of surface water, sediment, soil, waste and groundwater samples, preparation of ecological and human health risk assessments under the Texas Risk Reduction Rules and preparation of site investigation work plans and reports. Subsequent to the investigation WSP planned and implemented closure activities, including cover system enhancement of several WMAs and implementation of a Long-Term Monitoring Program Plan (LTM).

In addition to the monitoring well investigation work, a total of nine wells were properly plugged and abandoned (P&A) at the site leaving approximately 13 monitoring wells. There were six distinct hydrogeologic zones beneath the site and groundwater elevation measurements were obtained in order to develop potentiometric surface maps and determine horizontal and vertical flow gradients. Samples were analyzed for a broad array of constituents including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals.

Subsequent to the completion of the Site Investigation Report and risk assessments, WSP was able to successfully obtain TCEQ concurrence for a Monitored Natural Attenuation (MNA) remedy for groundwater at the site. In the LTM, WSP proposed that after a period of monitoring the site data trends would be evaluated and if concentrations were consistent or lower than baseline data the groundwater monitoring program could be ended. Based on the results of LTM monitoring, TCEQ subsequently agreed to a cessation and groundwater monitoring and the remaining thirteen wells were properly plugged and abandoned. Following the closure of several WMAs (including the design and installation of enhanced cover systems) the Order was terminated and WSP continues to provide annual inspection of the closed WMAs with reporting to TCEQ.



Firm name	WSP USA		Past Performance Evaluation Discipline(s)*	Environmental Engineering
Project name	Arlington Blending & Packaging Superfund Site		Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Velsicol Chemical Corporation	
Project location	Arlington, TN		Owner's Project Manager	George Harvell
Owner's address, phone, email	1199 Warford Street, Memphis, TN 38108; (901) 351-8773; gharvell@velsicol.com			
Services commenced by this firm (mm/yy)	06/94	Total consultant contract cost (\$1,000's)		1,500
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		1,000

The Arlington Blending & Packaging Site is the former location of the Arlington Blending and Packaging (ABAP) Company. The ABAP Company operated from 1971 to 1978 and mainly blended technical grade chemicals with solvents and emulsifiers and packaged the products for commercial sale. The primary products formulated were pesticides. Previous Site investigations detected contaminants in soil and groundwater including chlordane, endrin, heptachlor, heptachlor epoxide, pentachlorophenol (PCP), and arsenic. An RI/FS was completed in early 1991 and a Record of Decision (ROD) was issued in late 1991. The site remedy, as described in the ROD, was excavation and treatment of contaminated soil using low-temperature thermal desorption (LTTD) and long-term treatment of groundwater using pump and treat technology.

Proposed Team Members Who Worked on This Project:

- **Joe Ricker** – Project Principal

During 1995 and 1996, Joe managed the soil remedy component of the site remedy and was the principal project engineer through the completion of the remedy. The soil remedy consisted of the excavation of more than 42,000 tons of contaminated soil, onsite treatment using LTTD, and backfilling of treated soil. Prior to completion of the soil remedy, site preparation logistical issues included the relocation of a fiber optic cable, removal of a railroad siding and negotiations with the railroad company (CSX) to excavate on both sides of an active railroad, and the plugging and abandonment (P&A) of 13 monitoring wells. After completion of the soil remedy, three monitoring wells were re-installed in the excavated areas.

Starting in 1996, a large-scale groundwater modeling effort, including innovative groundwater plume stability analyses (precursor to the Ricker Method®) that resulted in a modification of the ROD for the groundwater remedy from pump and treat to monitored natural attenuation (MNA). The ROD modification resulted in a site cost savings of more than \$5.5 million.

Starting in 2004, Joe worked with a group of citizens and local government representatives to develop a community vision for a neighborhood park. The site was purchased by the Town of Arlington and secured a federal grant to fund the park's design and construction. In June 2009, Franklin Hill, Director of USEPA Region 4 Superfund Division presented EPA's "Excellence in Site Reuse" Award to the Town of Arlington, Tennessee. The award was one of the first "Ready for Recreational Reuse" designations in EPA Region 4.

Joe has managed the long-term O&M for the site and continues to conduct annual evaluations of MNA using groundwater plume analytics. Currently, only three wells exhibit concentrations above cleanup levels. The analyses have been very effective in communicating site cleanup progress and are being used as a basis for delisting the site from the National Priorities List (NPL) and will be used as a basis for site closure.

Firm name	WSP USA		Past Performance Evaluation Discipline(s)*	Environmental Engineering
Project name	Bridgestone Corporate Remediation Program-Multiple Sites		Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Bridgestone Americas Tire Operation (BATO)	
Project location	Noblesville, IN; Sulphur, LA; South Gate, CA; Decatur, IL and Memphis, TN		Owner's Project Manager	Jane Johnson
Owner's address, phone, email	200 4 <sup>th</sup> Avenue South Nashville, Tennessee 37201 (615) 579-7356 jane@novards.com			
Services commenced by this firm (mm/yy)	02/99	Total consultant contract cost (\$1,000's)		8,500
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		5,900

WSP was retained by BATO to provide a comprehensive program of environmental consulting services related to assessment, remediation and demolition requirements at former tire manufacturing and chemical manufacturing sites located in Louisiana, Tennessee, Indiana, California and Illinois. WSP's role in these projects included development of technical and regulatory strategies to address requirements under consent and administrative orders with state and Federal environmental protection agencies. WSP performed assessment of all media (soil, groundwater, sediment, surface water and air) at most of the facilities. Subsequent to data collection, WSP participated in the evaluation of potential risk to human and/or ecological receptors using both state-specific and Federal (i.e., Risk Assessment Guidance for Superfund) and negotiated response actions to mitigate risk.

Proposed Team Members Who Worked on This Project:

- Earl Scott – Project Principal

Response actions included the remediation of soil, groundwater and sediment and site closure using a variety of innovative and traditional methods. Notable examples include the following:

- Assessment of soil and groundwater at multiple facilities utilizing both standard methods (i.e, boring, monitoring wells, etc.) to more cost effective/innovative techniques such as geoprobe, Membrane Interface Probe (MIP) to reduce assessment costs and time to complete.
- Successful negotiation of Monitored Natural Attenuation (MNA) of groundwater for volatile organic compounds (VOCs) instead of active remediation of groundwater with significant capital and operations and maintenance (O&M) costs.
- Demolition of multi-acre former manufacturing plant and placement of a soil cover over the facility so that it could be developed as a 9-hole golf course to be used as part of the First Tee program. This strategy significantly reduced remedial costs associated with soil contamination.
- Closure of multiple parcels of land and removal from a Consent Decree in order to facilitate property transactions. The parcels were closed using a combination of historical data and newly acquired soil and groundwater targeted to fill data gaps and then using risk assessment strategies to demonstrate no risk to human health and the environment.
- Completion of site assessment and subsequent closure of site monitoring wells (i.e., plugged and abandoned) to prepare the facility for partial demolition and sale to a third-party purchaser. Included in the process was to obtain a No Further Action letter from the state environmental protection agency using risk-based rationale.



Firm name	<b>Matrix New World Engineering</b>	Past Performance Evaluation Discipline(s)*	Environmental, Survey
Project name	<b>LADOTD IJA Off-System Bridge Program District 58</b>		Firm responsibility (prime or sub?) Sub
Project number	H.015340	Owner's name	LADOTD
Project location	Franklin, Caldwell, LaSalle, Concordia, Catahoula	Owner's Project Manager	N/A
Owner's address, phone, email	301 N. Main Street Suite 2200, Baton Rouge, LA 70802		
Services commenced by this firm (mm/yy)	06/23	Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	190

Matrix is currently providing topographic survey and ROW services for 5 rural bridges in District 58 as part of the LADOTD IJA Off-System Bridge Program. Matrix is a sub to EXP U.S. Services, Inc. Upon start of the design phase, Matrix will provide wetland regulatory compliance for each site, including wetland delineations and USACE permit applications and plans.

<b>LADOTD Project Number</b>	<b>Recall No.</b>	<b>Parish</b>	<b>Roadway</b>	<b>Stream Crossing</b>
H.015340.5	700488	LaSalle Parish	Ebenezer Tap Rd	Jones Creek
H.015464.5	700950	Franklin Parish	Bobby Woods Rd	Big Creek
H.015465.5	700136	Concordia Parish	Boggy Bayou Rd	Creek
H.015466	581026	Catahoula Parish	Doughty Road	Haha Bayou
H.015468	700239	Caldwell Parish	Caldwell Ph Road No 208	Hurricane Creek

Firm name	<b>Matrix New World Engineering</b>	Past Performance Evaluation Discipline(s)*	Environmental
Project name	<b>Lafayette Airport Cell Phone Lot Assessment</b>		Firm responsibility (prime or sub?) Sub
Project number	23-0170	Owner's name	Lafayette Regional Airport
Project location	Lafayette, LA	Owner's Project Manager	Graeme Scott
Owner's address, phone, email	113 Borman Drive, Lafayette, LA		
Services commenced by this firm (mm/yy)	05/23	Total consultant contract cost (\$1,000's)	27
Services completed by this firm (mm/yy)	07/23	Cost of consultant services provided by this firm (\$1,000's)	27

Matrix New World Engineering (Matrix – Jody Smith, Madeline Murphy) completed a soil investigation for a proposed cell phone lot at the Lafayette Regional Airport to determine if previously identified soil contamination was present at the construction site. The project included an assessment of past conditions and potential movement of contaminants in the environment to determine a sampling strategy that would most likely capture any potential impacts to the construction area. Matrix installed seven soil borings utilizing a direct push drilling method to a maximum depth of 15 feet below ground surface (bgs). Soil borings were located along the approximate centerline of the proposed cell phone lot at 50-foot intervals. Soil cores were taken on 5-foot intervals to a maximum depth of 15 feet below ground surface. For each two-foot interval per core, Matrix collected two soil samples. For each set of two samples, one sample was screened for volatile organic compounds (VOCs) using an organic vapor meter (OVM) in the field, while the other was set aside for possible laboratory analysis. For each boring, the sample depth exhibiting the highest OVM measurement was sent to the analytical laboratory for analysis of selected constituents. Soil cores were analyzed for constituents of concern based on the history of the site. Industrial derived waste (IDW) was evaluated for the potential to leach constituents into the environment utilizing the Toxicity Leaching Characteristics Procedure (TCLP). Soil borings were plugged following all appropriate methods prior to departure from the site.



Firm name	<b>Matrix New World Engineering</b>	Past Performance Evaluation Discipline(s)*	Environmental
Project name	<b>Remedial System Design, Installation, Operation &amp; Maintenance Northern New Jersey</b>	Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Confidential
Project location	Northern New Jersey	Owner's Project Manager	
Owner's address, phone, email	Confidential		
Services commenced by this firm (mm/yy)	11/18	Total consultant contract cost (\$1,000's)	1,100
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	1,100

Matrix New World Engineering (Matrix) completed the turn-key design, installation oversight, and ongoing operation and maintenance (O&M) of a remedial system to treat solvent impacted soil and groundwater at the former chemical manufacturing facility in northern New Jersey. Initial work included the assessment and characterization of solvent impact in a complex subsurface geology to facilitate initial conceptual design. Following initial data evaluation, a Remedial Action Selection Report (RASR) including a Focused Feasibility Study (FFS) was prepared to assist the client in remedy selection. The FFS included standard USEPA screening criteria. Following remedy selection, Matrix staff completed pilot testing of the subsurface to evaluate radius of influence (ROI), pressure and flow characteristics, and key parameter analysis to develop the detailed system design and develop specifications for equipment selection and sizing.

This system was installed in the late summer/early fall of 2019, with start-up commencing in October 2019, and, to date, nearly 3,000 pounds of pure chemical solvent has been removed from the subsurface and destroyed via catalytic oxidation. Ground water VOC concentrations have decreased by nearly 90% (thus far) from historic levels. The system utilizes soil vapor extraction (SVE) and air sparging to remove and strip volatile organic compounds (VOCs) from subsurface impacted soil and ground water. The design included nested sparge wells to intercept VOCs in layered geology. The stripped VOCs are treated via catalytic oxidation under NJDEP air permit. The catalyst reduces the destruction temperature of VOCs thereby reducing operating costs to treat the off-gas. System telemetry includes a wireless touchscreen that allows remote operation and system monitoring. Matrix worked collaboratively with its construction division, Blue World Construction (BWC), Inc., who installed the system and worked to develop creative solutions to solve difficult site conditions encountered during the system installation.

Matrix provides ongoing system O&M, with seasoned technicians who have worked with senior staff to optimize system operation and maximize VOC removal rates. System monitoring, operation and maintenance also includes vapor monitoring, electronic system data-logging, and optimization of system flow, pressure and vacuum in accordance with regulator workplan approval and the approved permits for the project.



Firm name	<b>Walker-Hill Environmental</b>		Past Performance Evaluation Discipline(s)*	Environmental
Project name	<b>P66 West End</b>		Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	P66	
Project location	Westlake, LA		Owner's Project Manager	N/A
Owner's address, phone, email				
Services commenced by this firm (mm/yy)	09/22	Total consultant contract cost (\$1,000's)	560	
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm (\$1,000's)	560	

Walker-Hill Environmental (WHE) was responsible for plugging and abandoning (15) 4" and (8) 2" monitoring wells. WHE also drilled (11) 6" SS recovery wells and once drilling was complete, completed an 8hr pump test on (10) wells and 24hr pump test on (1) well.

Proposed Team Members Who Worked on This Project:

- **Caleb Hill** - Supervisor

Firm name	<b>Walker-Hill Environmental</b>	Past Performance Evaluation Discipline(s)*	Environmental
Project name	<b>Block 48 – Soil and Goundwater Investigation</b>		Firm responsibility (prime or sub?) Sub
Project number		Owner's name	DOW Chemical
Project location	Plaquemine, LA	Owner's Project Manager	N/A
Owner's address, phone, email	21225 KA-1, Plaquemine, LA		
Services commenced by this firm (mm/yy)	6/23	Total consultant contract cost (\$1,000's)	21
Services completed by this firm (mm/yy)	6/23	Cost of consultant services provided by this firm (\$1,000's)	21

Installation of direct push borings to 20ft. Converted the borings to 1" temp wells with pre-pack screens. Grout borings once sampling is completed.

Proposed Team Members Who Worked on This Project:

- **Caleb Hill** – Project Manager/Supervisor

Firm name	<b>Walker-Hill Environmental</b>		Past Performance Evaluation Discipline(s)*	Environmental
Project name	<b>Calcasieu River Bridge</b>		Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	LADOTD	
Project location	Sulphur, LA		Owner's Project Manager	N/A
Owner's address, phone, email				
Services commenced by this firm (mm/yy)	04/21	Total consultant contract cost (\$1,000's)	450	
Services completed by this firm (mm/yy)	10/21	Cost of consultant services provided by this firm (\$1,000's)	450	

Walker-Hill Environmental (WHE) was responsible for building temporary board mat access roads to drilling locations. WHE completed drilling operations for soil and groundwater sampling by installing 1" and 2" temporary monitoring wells.

Proposed Team Members Who Worked on This Project:

- **Caleb Hill** – Project Manager/Supervisor

**Firm Experience:**

Firm name	<b>APS Engineering and Testing, LLC</b>		Past Performance Evaluation Discipline(s)*	** Geotech
Project name	<b>I-10 Widening LA 415 to Essen LN</b>			Firm responsibility (prime or sub?)   Sub
Project number	H.004100	Owner's name	DOTD	
Project location	Baton Rouge		Owner's Project Manager	Kristy Smith, P.E.
Owner's address, phone, email	1201 Capital Access Rd., Baton Rouge, LA 70802-4438 (225) 379-1016 <a href="mailto:Kristy.Smith2@la.gov">Kristy.Smith2@la.gov</a>			
Services commenced by this firm (mm/yy)	09/19	Total consultant contract cost (\$1,000's)	N/A	
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm (\$1,000's)	\$400	

Geotechnical investigation to provide client with the information for planning and design of I-10 widening. APS was tasked through our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU lakes. Along with drilling and sampling, APS will also test for strength and engineering characteristics of the soils. A total of eight over the water borings and 44 land borings with approximately 1,000 triaxial compression, unconsolidated drained or undrained (UU) and Atterberg limits performed.

Proposed Team Members Who Worked on This Project:

- **Sergio Aviles, PE** – Project Manager, Laboratory Testing QA/QC



SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES	
<b>X</b>	Geotechnical Explorations (GE)
<b>X</b>	Geotechnical Design (GD)
<b>X</b>	Geotechnical Construction (GC)
<b>X</b>	Topographic Survey (LC)
<b>X</b>	CMAR
<b>X</b>	Contract Management (CM)

Firm name	<b>APS Engineering and Testing, LLC</b>		Past Performance Evaluation Discipline(s)*	**Geotech	
Project name	<b>Comite River Diversion Bridge at LA-67, LA-19 AND LA-19 Railroad Bridge</b>			Firm responsibility (prime or sub?)	Sub
Project number	H.001352 and H.002273	Owner's name	Huval & Associates, Inc.		
Project location	East Baton Rouge		Owner's Project Manager	Thomas M. Gattles, III, P.E.	
Owner's address, phone, email	922 West Pont des Mouton Road, Lafayette, LA 70507 Wk: (337) 234-3798 Fax: (337) 234-2475 <a href="mailto:tgattle@huvalassoc.com">tgattle@huvalassoc.com</a>				
Services commenced by this firm (mm/yy)	05/20	Total consultant contract cost (\$1,000's)	N/A		
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm (\$1,000's)	\$150K		

Geotechnical engineering to provide client with information for planning and building of LA-19 Railroad Bridge – Slope ST. Ability (Embankment), LA-19 RR Bridge – Embankment/MSE Wall Settlement/Retaining Wall, LA 19 Twin Bridges – PPC Piles, LA-67 Bridge – Drilled Shafts. All necessary design will be performed by APS. APS drilled and sampled all the borings for LADOTD through the geotechnical retainer. Testing was performed in-house by APS Laboratory.

Proposed Team Members Who Worked on This Project:

- **Sergio Aviles, PE** – Project Manager, Laboratory Testing QA/QC

**SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES**

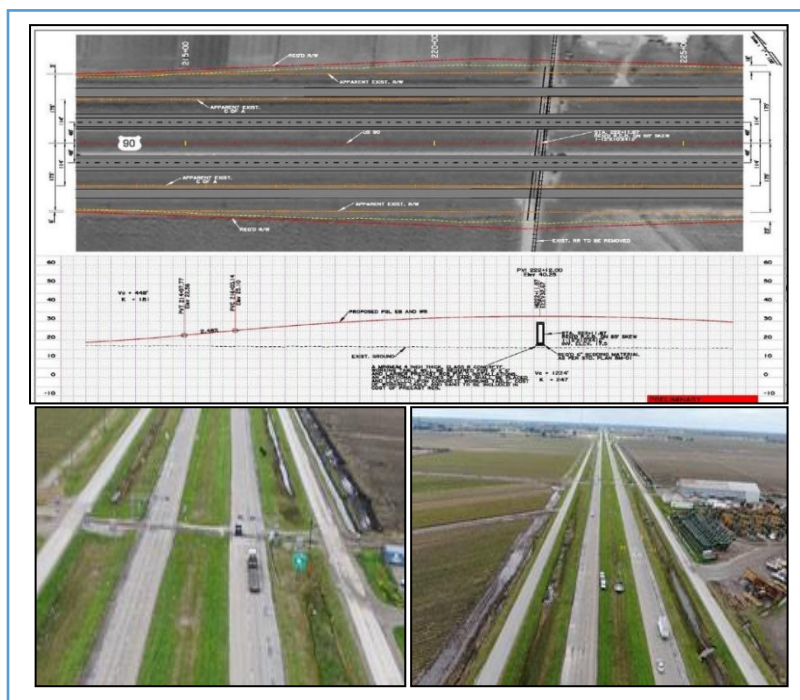
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	CMAR
X	Constructability
X	Contract Management (CM)





Firm name	APS Engineering and Testing, LLC		Past Performance Evaluation Discipline(s)*	**Geotech
Project name	US-90 Railroad Overpass (S. East of LA-85)		Firm responsibility (prime or sub?)	Sub
Project number	H.010155	Owner's name	Shread-Kurykendall & Associates, Inc	
Project location	Iberia Parish		Owner's Project Manager	Nicci D. Gill
Owner's address, phone, email	13016 Justice Ave. Baton Rouge, LA 70816 (225) 296-1335 (225) 296-1338 (fax) <a href="mailto:ngill@skaenger.com">ngill@skaenger.com</a>			
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost (\$1,000's)	N/A	
Services completed by this firm (mm/yy)	03/20	Cost of consultant services provided by this firm (\$1,000's)	\$105K	

Geotechnical investigation to provide client with information for planning and design of a 12ft x 10ft RCB, 412ft in length. A total of six deep borings were completed by APS. Over 60 Atterbergs and UUs were tested by APS with 18 consolidation tests. All testing was performed in-house by APS Laboratory.



Proposed Team Members Who Worked on This Project:

- Sergio Aviles, PE – Project Manager, Laboratory Testing QA/QC

#### SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES

- |   |                                |
|---|--------------------------------|
| X | Geotechnical Explorations (GE) |
| X | Geotechnical Design (GD)       |
| X | Geotechnical Construction (GC) |
| X | Constructability               |
| X | Contract Management (CM)       |

Firm name	<b>SGS North America Inc.</b>		Past Performance Evaluation Discipline(s)*	Analytical Testing
Project name	I-10 Calcasieu River Bridge		Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	Providence Engineering and Environmental Group LLC	
Project location	Lake Charles, LA		Owner's Project Manager	Max Voitier
Owner's address, phone, email	1201 Main Street Baton Rouge, LA 70802 (225) 766-7400			
Services commenced by this firm (mm/yy)	07/21	Total consultant contract cost (\$1,000's)		4.5
Services completed by this firm (mm/yy)	12/21	Cost of consultant services provided by this firm (\$1,000's)		4.5

SGS was retained by Providence Engineering and Environmental Group LLC (Providence) to provide laboratory analytical services for the I-10 Calcasieu River Bridge Project in EDC Area 1. Providence was retained by DOTD to perform a Phase 1 Site Investigation. The project involved the installation of 20 temporary wells in both the upper and lower interbedded units with the collection of soil and groundwater samples for chemical analyses by SGS. SGS analyzed the samples for volatile organic compounds using EPA Methods 8260B, 8011 and 5035. The analysis included various quality assurance/quality control (QA/QC) samples including trip blanks, field blanks, MS/MSD and method blanks. The analytical data generated by SGS was validated and deemed to meet the accuracy and precision requirements and was usable to characterize soil and groundwater quality.

### **18. Approach and Methodology:**

The proposed services are related to the design and implementation of a groundwater monitoring program to confirm that the construction project does not mobilize contamination and proper abandonment and replacement of permanent and temporary groundwater monitoring wells within a portion of the proposed I-10 expansion project. The environmental consulting services to be provided under this Agreement will include the following tasks:

- Task 1.0 Historical Data Review**
- Task 2.0 Construction Plans and Construction Technique Review**
- Task 3.0 Develop Sampling and Analysis Plan**
- Task 4.0 Project Coordination and Meetings**

Additional tasks that may be provided under Supplemental Agreement include the following: Secure Permits and Right of Entry (Task 5.0), Installation of Monitoring Wells (Task 6.0), Phase II Site Assessment Report (SAR) (Task 7.0) and Additional Data Review (Task 8.0) in addition to designing and implementing a plugging and abandonment and replacement program in an area of the project site known as EDC-1.

- Additional tasks may include implementation of the approved Sampling and Analysis Plan (SAP) including obtaining access and permits, installation of groundwater monitoring wells, regular sampling of the wells for chemical analyses, ongoing maintenance of the wells, preparation of a Phase II SAR and annual groundwater monitoring reports and plugging and abandoning the wells at the end of the monitoring period.
- Providing additional review of data as requested by DOTD, including work performed by others (i.e., assessment, remediation, etc.) within the project area.
- Proper plugging and abandoning (P&A) of permanent and temporary monitoring wells in accordance with relevant state and Federal guidelines and preparation of a report documenting the completion of this work. Reinstallation of plugged and abandoned groundwater monitoring wells to the same design specifications following the completion of construction activities and preparation of a report documenting the reinstallation project.

#### **Task 1.0 Historical Data Review**

WSP will review available site data from the following sources: 1) LDEQ, DOTD and USEPA. This review will be focused on EDC Areas 1 and 2 and will consider the depth, breadth and quality of the available data. A report of the historical data review will be prepared and at a minimum include the following information: bibliography of documents reviewed; identification of Constituents of Concern (COCs); comparison to relevant RECAP standards (including site-specific standards developed by Conoco Phillips) and relevant geologic and hydrogeologic data. This review will form the basis for selecting the locations and depths of new monitoring wells which will be presented in the SAP. Based on WSP's experience and review of data for this submittal we do not anticipate a significant level of effort for this task.

#### **Task 2.0 Construction Plans and Construction Technique Review**

The purpose of this review is to evaluate whether and how the construction project may impact existing contamination in groundwater in EDC Area 1 to facilitate the design of the Sampling and Analysis Plan (Task 3.0) and to evaluate the existing wells that will require plugging and abandoning prior to commencement of construction and where replacement wells that will need to be installed post construction can be placed. As envisioned in the conceptual design of the I-10 project, many, and possibly all of the wells within EDC Area 1 and south of the Union Pacific railroad right of way

will have to be plugged and abandoned prior to the commencement of demolition of existing structures or construction of new structures. The list of monitoring wells potentially impacted by the construction project will be determined at a later date in consultation with the selected project Developer, Conoco Phillips, LDEQ and DOTD. Conoco Phillips and DOTD will coordinate with LDEQ to evaluate the abandoned wells needed post-construction to recover and monitor the EDC release. The viability of specific locations for well reinstatement will take into account potential obstacles and impediments created by the I-10 Bridge project.

### **Task 3.0 Develop Sampling and Analysis Plan**

Given that EDC is present in the Upper Interbedded Unit (UIU) and Lower Interbedded Unit (LIU) along the northern portion of EDC Area 1 and the direction of groundwater flow is generally to the northwest (with an easterly or westerly component), WSP will design a groundwater monitoring program that includes monitoring wells in both units located hydraulically downgradient of the project construction corridor. The program will be implemented prior to commencing construction activities near EDC Area 1 to form a baseline, will continue during construction and for a period of time after construction completion, as required by DOTD. WSP does not believe at this time that additional data collection activities will be necessary to prepare the SAP, contingent on the results of the historical data review in Task 1.

WSP will develop the *Sampling and Analysis Plan (SAP)* for DOTD review, comment and approval in accordance with industry standards and regulatory guidelines including LDEQ's *RECAP Appendix B - Site Investigation Requirements*. The installation and plugging of monitor wells, along with the sampling and analysis, shall be conducted in accordance with *Construction of Geotechnical Boreholes and Groundwater Monitoring Systems Handbook* (December 2000). The SAP will include but not be limited to the following sections:

1. Background and Purpose
2. Proposed Scope of Work
3. Field Implementation Plan (FIP)
4. Sampling and Analysis Plan (SAP)
5. Quality Assurance/Quality Control Plan (QAPP)
6. Health & Safety Plan (HASP)
7. Figures, Tables and Appendices, as necessary

The SAP will include reference to relevant state, local and Federal guidance, rules and regulations, including LDEQ requirements under RECAP. WSP anticipates that a total of ten wells will be installed at five locations northwest, north and northeast of EDC Area 1. Each location will include a well installed in the UIU and LIU. Based on WSP's understanding of the project we have developed potential nested well locations as presented in [reference to where this figure will be]. WSP will assist DOTD in gaining LDEQ approval of the SAP, including responding to comments and participation in conference calls and meetings, as necessary.

### **Task 4.0 Project Coordination and Meetings**

WSP will coordinate the work required under this contract at all times with DOTD's Owner/Verification (OV) Consultant and the DOTD Environmental Project Manager and/or the DOTD Project Manager, as appropriate. Any coordination with LDEQ will be maintained at the direction of the DOTD Environmental Project Manager.

### **Additional Services Under Supplemental Agreement (Tasks 5.0 through 8.0)**

WSP will obtain access agreements from private landowners, railroads or state/local agencies for the proposed monitoring well network and will obtain the necessary permits and utility clearance prior to implementing the field work (**Task 5.0**). Well installation under **Task 6.0** will be performed by Walker-Hill Environmental, a Louisiana licensed driller who have already installed wells in EDC Area 1 for DOTD. Wells that are installed as specified in the SAP will be developed prior to purging and sampling. After purging WSP will obtain groundwater samples from each well for chemical analysis following RECAP and LDEQ procedures. Analyses of soil and groundwater samples will include at a minimum the following methods: 1) Volatile Organic Compounds (VOCs) using USEPA SW-846 Method 8260; and 2) 1,2-dibromo-3-chloropropane using USEPA SW-846 Method 8011 (as modified based on the results of Task 1, Historical Data Review). Analyses will be performed by SGS North America, an LDEQ-certified laboratory who have already analyzed samples obtained in EDC Area 1. Samples will be collected prior to construction (to establish baseline conditions), on a quarterly or semi-annual basis during construction and for a period of years following construction completion as determined in consultation with DOTD. Split-sampling will be performed, if required by DOTD.

Unless directed otherwise by DOTD, upon completion of the post-construction monitoring period WSP will properly plug and abandon newly installed wells. WSP will provide a *Well Abandonment Report* upon completion of this task.

WSP under a Supplemental Agreement will provide to DOTD an initial *Phase II Site Assessment Report (SAR)* focused on EDC Area 1<sup>1</sup> and annual reports thereafter of the results of the groundwater monitoring during the previous year (**Task 7.0**). The initial Phase II SAR will establish baseline conditions of groundwater beyond the limits of EDC Area 1 that will be impacted by the construction project. The reports shall include at a minimum the following information.

- Quarterly groundwater elevation data and potentiometric surface maps for each unit (UIU and LIU).
- Results of quarterly groundwater sampling analysis in tables and figures with comparison to historical data and relevant RECAP Standards.
- Conclusions regarding the nature and extent of EDC in each unit relative to historical and baseline data and potential future migration pathways.

WSP will also review additional data obtained by LDEQ or other third parties as requested by DOTD, including monitoring data, proposed remedial technologies, implemented remedial technologies and other relevant data (**Task 8.0**). This review will focus on the impact of data and technologies on the proposed right of way, if any.

If requested under a Supplemental Agreement, WSP, in conjunction with Walker-Hill Environmental will properly plug and abandon the selected wells in accordance with standard industry practices and federal, state and local regulations prior to the commencement of demolition and construction activities in EDC Area 1. Upon completion of construction, WSP and Walker-Hill Environmental, in consultation with DOTD and Conoco Phillips, will reinstall any well that was plugged and abandoned in order for Conoco Phillips to meet their obligations with LDEQ. The replacement wells will be constructed in the same manner as the well that was abandoned unless directed otherwise by DOTD. The exact scope of this task cannot be defined prior to Developer providing the list of wells to be plugged and abandoned and discussions with LDEQ as to which wells

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<sup>1</sup> In the event that the Developer conducts a Phase II ESA of the entire project area, any data obtained by the Developer in EDC Area 1 will be used in the development of the SAR, if possible.

will need to be reinstalled at their original location, at a new location to be determined in consultation with all parties or no longer required (i.e., will not have to be replaced).

### Schedule of Implementation

	Pre-Construction and Construction Phase									Post-Construction						
	Months (Year 1)							Years		Months				Years		
TASK DESCRIPTION	1	2	3	4	5	6	7-12	Yr 2	Yrs 3-10	1	2-3	4-6	7-12	Yr 2	Yr 3	Yr 4
<b>Task 1.0 Historical Data Review</b>																
<b>Task 2.0 Construction Plans/Technique Review</b>																
<b>Task 3.0 Develop Sampling and Analysis Plan</b>																
<b>Task 4.0 Project Coordination and Meetings</b>																
<b>Supplemental Agreement Tasks:</b>																
<b>Task 5.0 Secure Permits and Right of Entry</b>																
<b>Task 6.0 Installation of Monitoring Wells</b>																
Finalize Sampling and Analysis Plan			Milestone													
Field Planning																
Field Implementation of SAP																
<b>Task 7.0 Phase II Site Assessment Report</b>																
Initial Report Preparation																
Semi-Annual Sampling and Reporting																
P&A Wells																
<b>Task 8.0 Additional Data Review</b>																
<b>Plugging and Abandonment (P&amp;A) Task</b>																
Selection of Wells to be Plugged									Milestone							
Field Planning																
Field Implementation																
Report Preparation																
<b>Reinstall of P&amp;A Wells</b>																
Selection of Wells to be Replaced											Milestone					
Field Planning																
Field Implementation																
Report Preparation																
Assumes significant design-build project site work will begin in two years from contract award and take eight years to complete.																
Assumes semi-annual monitoring during and after construction.																
Assumes a total of 3 years of semi-annual monitoring post construction.																
Assumes no more than 2 weeks for LADOTD review and comment on written submittals. If more time is needed schedule can be adjusted, as appropriate.																

**19. Workload:**

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

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

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

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

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
WSP		H.010253.5; 1781T09	Elec. & Mech. Engineering On-Call TO9	\$121,183
	Bridge/Tunnel	H.004791; 194371A	Belle Chasse Bridge & Tunnel	\$357,712
	Tunnel	H.004791; 194371B	Belle Chasse Tunnel Inspection	\$26,432
		H.003931.5; 182907B	LADOTD P3 Advisory Svcs On-Call TO2	\$41,688
		H.003931.5; 182907D	LADOTD P3 Advisory Svcs On-Call TO2	\$995,650
Matrix New World Engineering	Survey & Environmental	H.015340.5, H.015464.5, H.015465.5, H.015466, H.015468	Infrastructure Investment and Jobs Act (IIJA) Off- System Bridge Program District 58	\$190,234
APS Engineering and Testing, LLC	Geotech	State Project No. H.013127	Retainer Contract for Geotechnical Services	\$216,934
Walker-Hill Environmental, Inc.		N/A	N/A	N/A
SGS North America Inc.		N/A	N/A	N/A

(Add rows as needed)

DO NOT SUM

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

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

**20. Certifications/Licenses:**

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

N/A



**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.**

N/A

**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.

<b>Firm Name (Name must match as registered with Louisiana's Secretary of State)</b>	<b>Address</b>	<b>Point of Contact and email address</b>	<b>Phone Number</b>
Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C., A Professional Corporation	2798 O'Neal Lane, Building F Baton Rouge, LA 70816	Dawn Brown; dbrown@mnwe.com	225-241-9460
APS Engineering & Testing, LLC (dbe)	1645 Nicholson Drive, Baton Rouge, LA 70802	Sergio Aviles; sergio@aps-testing.com	225-456-5714
Walker-Hill Environmental, Inc.	P. O. BOX 1147 Foxworth, MS 39483	Caleb Hill; caleb@whenv.com	225-667-3297
SGS North America Inc.	500 Ambassador Caffery Parkway Scott, LA 70583	Corey Burns; corey.burns@sgs.com	337-237-4775

**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.**

N/A