


DOTD FORM: 24-102

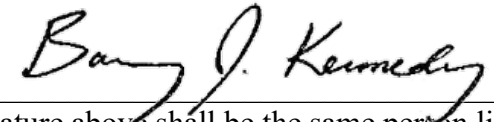
(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

1. Contract Name as shown in the advertisement	IDIQ Contract for Professional Hydrographic Surveying Services Statewide with Majority of Work in Districts 04,05,08, and 58
2. Contract Number(s) as shown in the advertisement	Contract No. 4400027687
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	Louisiana Engineering Firm #5462 Louisiana Land Surveying Firm#714
6. Prime consultant mailing address	631 South Hollywood Road Houma, LA 70360
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	631 South Hollywood Road Houma, LA 70360
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Chad Robichaux, PLS 985-655-3100 chad.robichaux@deltacoastllc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Barry Jason Kennedy, PE, PLS Principal 985-655-3100 jason.kennedy@deltacoastllc.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

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.



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

9-19-23

Date:


Firm(s): N/A

Firm(s)' %: N/A

12. Past Performance Evaluation Discipline Table:

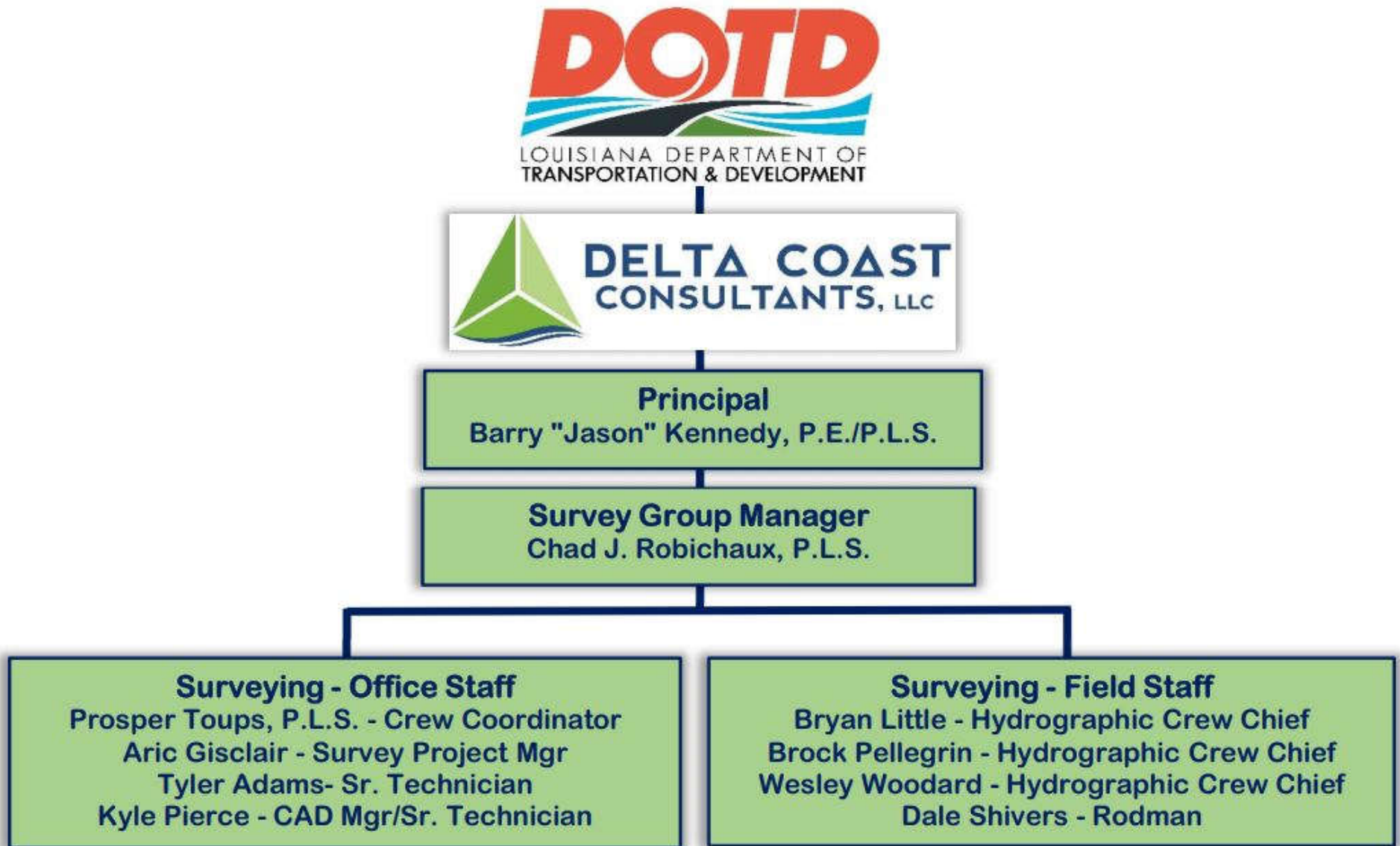
Past Performance Evaluation Discipline(s)	% of Overall Contract
Survey	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.	
Percent of Contract	100%

13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Engineer		5
	Engineer Intern		1
	Party Chief	3	6
	Biologist/Wetlands		1
	Environmental Manager		1
	Environmental Professional		1
	Principal	1	2
	Administrative		1
	Project Office Manager		1
	Inspector		4
	Rodman	1	4
	Instrument Man		1
	Professional Land Surveyor	2	2
	Other (Project Manager)	1	2
	Other (Land Surveyor Intern)		1
	CADD Drafter		0
CADD Technician		2	
Senior Technician	2	4	

(Add rows as needed)

14. Organizational Chart:



15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Barry “Jason” Kennedy PE, PLS	 DELTA COAST CONSULTANTS, LLC	PLS 4982 15 Years PE 33218 (Civil) 16 Yrs	LA LA	9/30/2023 9/30/2023
2	Chad Robichaux, PLS	 DELTA COAST CONSULTANTS, LLC	PLS 4882 22 Years	LA	9/30/2025

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Barry “Jason” Kennedy	Years of relevant experience with this employer	9
Title	PE, PLS, Principal	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	B.S. Civil Engineering / 2002 – M.S. Coastal Engineering / 2011		
Active registration number / state / expiration date	PLS 4982 / LA / 9/30/2023 – PE 33218 / LA / 9/30/2023		
Year registered	2008 / 2007	Discipline	Survey / Civil Engineering
Contract role(s) / brief description of responsibilities	QA / QC Manager		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<p>Mr. Kennedy is a Louisiana native and a licensed professional engineer and land surveyor with 21 years of engineering experience in the design and surveying of a wide variety of civil engineering projects. He has specialized experience in the planning and design of flood protection and coastal restoration projects in south Louisiana. His background in data collection and analysis aids in development of scientifically defensible solutions to engineering projects. Work experience includes grant applications, feasibility reports, damage assessments, hydraulic modeling, engineering design, construction management, topographic surveys, hydrographic surveys, technical reports, and permitting.</p>			
8/21 - Ongoing	<p><u>Emergency Response Services for Hurricane Ida-Terrebonne Levee and Conservation District (Terrebonne Parish, LA)</u> Mr. Kennedy served as the project manager for emergency response and associated services assisting TLCD in emergency repairs and assessments following Hurricane Ida. These services included coordinating other consultants and contractors, identifying damage along TLCD levees and structures, coordinating resources deployed to each location, and ultimately organizing the FEMA PW applications for federal assistance. This work also included numerous underwater sonar surveys (SS & MB) of various floodgates and waterways to identify damage and provide route clearance for marine vessels and equipment.</p>		
6/18 - Ongoing	<p><u>Mid-Breton Sediment Diversion Project, CPRA (Plaquemines Parish, LA)</u> - The Mid-Breton Sediment Diversion Project is located on the east bank of the Mississippi River at Willis Point and is being designed to use the Mississippi River to move sediment and freshwater from the river into nearby basins, mimicking the natural deltaic land-building processes. Mr. Kennedy serves as the project team lead for data collection, instrumentation, and surveying services. Mr. Kennedy helped to develop the data collection procedures and scope used by the project team to validate and calibrate the project modeling efforts. Mr. Kennedy also assisted the project team in development of innovative data collection procedures to gather valuable sediment and flow data in the near-bed regions of the Mississippi River channel.</p>		

1/22 - Ongoing	<p><u>Instrumentation and Monitoring System for the Terrebonne Levee and Conservation District (Terrebonne Parish, LA) -</u></p> <p>Mr. Kennedy serves as the program lead for TLCD's critical data collection and floodgate monitoring systems installed throughout Terrebonne Parish, LA. This system was started in 2014 with the installation of hydrodynamic monitoring equipment at 3 critical floodgates. Mr. Kennedy developed an online interface for TLCD staff to view water levels, flow, and windspeed in real-time over a mobile connection. This system now includes monitoring systems at 11 total floodgate locations in Terrebonne Parish.</p>
11/17 – 09/19	<p><u>Valhi Drainage Improvements Project, Terrebonne Parish Consolidated Gov't (Terrebonne Parish, LA) -</u>Mr. Kennedy serves as the modeling / H&H lead on this project. Mr. Kennedy developed a coupled 1D/2D HEC-RAS model to combine the flow effects of the many small interconnected ditches and drainage canals with the 2D flow effects of flooded storage basins and wetlands within the system. This model was built from survey data collected by DCC and combined with LIDAR data of the various drainage basins. The model runs were performed in version 5.0.5 of HEC-RAS.</p>
05/21 - Ongoing	<p><u>Bayou Lafourche Pumping Capacity Improvements Project, Bayou Lafourche Freshwater District (Ascension Parish, LA)</u></p> <p>Mr. Kennedy served as the Assistant Project Manager for the project team (Stantec Prime Consultant). Mr. Kennedy coordinated design efforts with the Owner and helped to guide the project through the modeling, design, and permitting process. Mr. Kennedy also developed the data collection program for in-river hydrodynamic and sediment data to aid in model calibration and validation. In-river sediment sampling was used to determine the sedimentation effects from increased flows into Bayou Lafourche and ultimately design mitigation efforts to reduce these effects.</p>

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Prosper Toups, III	Years of relevant experience with this employer	8
Title	Professional Land Surveyor	Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization	Bachelor of General Studies-1991 Applied Science/ 30-hrs Survey Course for LA PLS Licensure		
Active registration number / state / expiration date	4967 /LA		
Year registered	2007	Discipline	Survey
Contract role(s) / brief description of responsibilities	PLS/Survey Project Manager/Crew Coordinator		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<p>Mr. Toups is a Louisiana licensed land surveyor with over twenty-seven years of land surveying experience ranging from 3D seismic surveys, exploration permitting, pipeline anomaly repair, unit surveys, right-of-way surveys, boundary & mortgage surveys, land reclamation surveys, property line shifts & subdivision of property surveys, construction layout & topographic surveys, geodetic control surveys, and hydrographic & marsh restoration surveys. His background as a field surveyor performing countless hours of data collection and years behind the desk reviewing, processing, and applying this data to projects brings valuable experience to the team.</p>			
10/22 - Ongoing	<p>Grande Cheniere Ridge Marsh Creation Project BA-240, CPRA (Plaquemines Parish, LA) – Mr. Toups Served as the survey and data collection manager for the duration of this project. The purpose of this project is to restore over 300 acres of marsh habitat adjacent to the eastern shoreline of Bayou Grande Cheniere by pumping nearly 3 million cubic yards of material from the Mississippi River. Mr. Toups is tasked with managing the magnetometer surveys, hydrographic surveys of borrow areas and access routes, and the topographic surveys of the marsh creation areas. Mr. Toups also checks outgoing data for validity and compliance with the scope of work provided by CPRA and the client (Weeks Marine).</p>		
06/18 - Ongoing	<p>Mid-Breton Sediment Diversion Project, CPRA (Plaquemines Parish, LA) - The Mid-Breton Sediment Diversion Project is located on the east bank of the Mississippi River at Willis Point and is being designed to use the Mississippi River to move sediment and freshwater from the river into nearby basins, mimicking the natural deltaic land-building processes. Mr. Toups serves as the lead for data collection and surveying services. Mr. Toups helped to develop the data collection procedures and scope used by the project team to validate and calibrate the project modeling efforts. Mr. Toups also assisted the project team in the development of innovative data collection procedures to gather valuable sediment and flow data in the near-bed regions of the Mississippi River channel.</p>		
05/21 - Ongoing	<p>Bayou Lafourche Pumping Capacity Improvements Project, Bayou Lafourche Freshwater District (Ascension Parish, LA) - Mr. Toups served as the Survey and data Collection Manager for the project team (Stantec Prime Consultant). Mr. Toups assisted in developing the data collection program for in-river hydrodynamic and sediment data to aid in model calibration and validation. In-river sediment sampling was used to determine the sedimentation effects from increased flows into Bayou Lafourche and ultimately design mitigation efforts to reduce these effects.</p>		

01/23 - Ongoing	<i>Ward 7 Levee Mitigation – Marsh Creation Project, Terrebonne Parish Consolidated Government, (Terrebonne Parish, LA)</i> - This project will create 37 acres of marsh along the eastern shoreline of Lake Boudreaux as mitigation for impacts associated with the Ward 7 Levee Improvements project. Prosper served as the professional surveyor of record for the construction phase of this project as a subcontractor to the overall construction contractor. Prosper was responsible for completion of magnetometer surveys, pipeline probing and location, hydrographic surveys of the borrow area, shallow water topographic surveys of the marsh creation area and rock dike alignments, and compliance / payment surveys.
06/16 – 11/16	<i>Falgout Canal Freshwater Enhancement (CIAP) Project (Terrebonne Parish, LA)</i> - The goal of this CIAP project is to reestablish historical north to south flow by constructing a new channel between the Houma Navigation Canal and the interior marshes north of Falgout Canal. Prosper was the professional surveyor of record for the construction phase of this project as a subcontractor to the overall construction contractor. Prosper was responsible for completion of magnetometer surveys, pipeline location, pre-construction cross-sections, post-construction payment surveys, and certified dredging volume calculations.

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Chad Robichaux	Years of relevant experience with this employer	2
Title	PLS/Survey Manager	Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization	Bachelor of Science / 1997 / Civil Engineering Technology - 30-hrs Survey Course for LA PLS Licensure		
Active registration number / state / expiration date	4882/LA		
Year registered	2001	Discipline	Survey
Contract role(s) / brief description of responsibilities	Supervising Surveyor		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<p>Mr. Robichaux is a Louisiana licensed land surveyor with over 29 years of land surveying experience including boundary, ALTA, residential & commercial land development, topographic, elevation certification, hydrographic/bathymetric (single-beam & multibeam), hazard/geophysical (side scan sonar, magnetometer/gradiometer, sub-bottom profiler), pipeline construction (new-build and maintenance), pipeline depth of cover/navigable waterway crossing inspections, tank containment, dredging, construction stakeout, as-built, oil & gas exploration, and utility surveys. Mr. Robichaux also has experience with wetland permitting at the local, state and federal level, land rights/ROW platting and legal descriptions, terrain modeling, volumetric cut/fill calculations, levee and road layout, horizontal directional drill layout, route analysis and feasibility studies. His diverse background brings valuable experience to the team.</p>			
08/21 – 09/21	<p><u>Post Hurricane Ida Emergency Hydrographic Survey for Newpark Drilling Fluids in Fourchon</u> – The purpose of this project was to perform an emergency side scan sonar and single-beam survey of 2 slips in Fourchon to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to dock their vessels to resume operations of transporting drilling fluids to their clients in the Gulf of Mexico. During the survey we discovered a conex box underwater right next to the dock that was standing upright only a few feet below the surface of the water. Our side scan sonar also indicated other storm related debris resting on the seafloor. Mr. Robichaux managed the field surveys, data processing and drawing preparation. Field surveys included <u>a side scan sonar and water depth survey</u>. Office work consisted of processing the side scan sonar and single beam echosounder data that collected. Drawings were prepared showing plan views of the side scan imagery, areas that were safe for mooring and coordinates of the sonar contacts (hazards).</p>		
08/21 – 10/21	<p><u>Post Hurricane Ida Emergency Hydrographic Survey of 24” Mars & 24” Amberjack Pipelines for Shell in the Gulf of Mexico</u> – The purpose of this project was to perform a side scan sonar and multibeam survey of 2 pipelines in response to an oil leak after Hurricane Ida from the beach out to the 3-mile limit line. During the survey we found several broken pipelines and were able to determine that the pipelines were not for our client. Mr. Robichaux managed the field surveys, data processing and drawing preparation. Field surveys included <u>a side scan sonar and magnetometer survey</u>. Office work consisted of processing the side scan sonar and magnetometer data that was collected. Drawings were prepared showing plan views of the side scan imagery, magnetic targets and coordinates of key features.</p>		

08/21 – 10/21	<p><u>Post Hurricane Ida Emergency Hydrographic Survey of 10” Ethylene Pipeline for Shell in the Bonnet Carre Spillway –</u> The purpose of this project was to perform a side scan sonar and multibeam survey of an exposed pipeline in the Bonnet Carre Spillway. The pipeline was exposed before Hurricane Ida hit and our client wanted to ensure that the pipeline was not impacted by any storm debris or moved by the high intensity winds. We discovered that there was in fact some debris hung up on the pipeline. Mr. Robichaux managed the field surveys, data processing and drawing preparation. Field surveys included a <u>side scan sonar and multibeam survey</u>. Office work consisted of processing the side scan sonar and multibeam data that was collected. Drawings were prepared showing plan and profile views of the side scan imagery, multibeam data and coordinates of key features.</p>
08/21 – 09/21	<p><u>Post Hurricane Ida Emergency Hydrographic Survey for Magellan Midstream in Gibson –</u> The purpose of this project was to perform an emergency side scan sonar and water depth survey of Bayou Black in Gibson to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to access their docks. During the survey we discovered some storm related debris resting on the seafloor. Mr. Robichaux managed the field surveys, data processing and drawing preparation. Field surveys included a <u>side scan sonar and multibeam survey</u>. Office work consisted of processing the side scan sonar and multibeam echosounder data that collected. Drawings were prepared showing plan views of the side scan imagery and multibeam data, along with areas that were safe for mooring and coordinates of the sonar contacts (hazards).</p>
06/23 – 08/23	<p><u>Hydrographic Surveys for Shell’s 22” Zydeco Pipelines in Berwick –</u> The purpose of this project was to perform a multibeam inspection survey of Shell’s abandoned and active Zydeco pipelines across Bayou Shaffer and the Atchafalaya River to check the depth of cover over the pipelines. During the survey we discovered that the abandoned pipeline was still suspended off of the seafloor at both waterway crossings. Mr. Robichaux managed the field surveys, data processing and drawing preparation. Field surveys included a <u>multibeam survey</u>. Office work consisted of processing the side scan sonar and multibeam echosounder data that collected. Drawings were prepared showing plan and profile views of the multibeam data and coordinates of key features.</p>

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Brock J. Pellegrin	Years of relevant experience with this employer	3
Title	Survey Party Chief	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	High School Graduate, 2010 / TWIC		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Brock will serve as a hydrographic survey party chief		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<p>Mr. Pellegrin has over 13 years of surveying experience. He has performed surveys in the Louisiana coastal environment, is proficient in GPS surveying principles and operation. He also has extensive experience in the operation of nearly all types of watercraft used in the coastal surveying environment, including Airboats, Marsh-buggies, and various outboard-powered vessels. Furthermore, Brock has performed numerous hydrographic surveys utilizing single beam fathometers, multibeam echosounders, side scan sonar, magnetometers and gradiometers.</p>			
08/21 - Ongoing	<p><i>TLCD – Flood Gate Side scan and Multibeam Survey (Terrebonne Parish, LA)</i> - Brock was one of the Party Chiefs that performed annual side-scan and multibeam surveys on all flood gates within Terrebonne Parish. Brock was responsible for collecting side-scan and multibeam data used to visually inspect the locking structures of the floodgates for obstructions.</p>		
10/21 – 11/21	<p><i>LA Scrap Metal and Recycling – Multibeam and ALTA Survey (Terrebonne Parish, LA)</i> – The project required a multi-beam survey of the slips that were to be purchased by LA Scrap Metal and Recycling in conjunction with a topographic survey of the surrounding property. Brock was responsible for the collection of significant features surrounding the slips, as well as the multi-beam data of the slips used to display usable water depths and any underwater obstructions.</p>		
08/21 – 09/21	<p><i>Post Hurricane Ida Emergency Hydrographic Survey for Newpark Drilling Fluids in Fourchon</i> – The purpose of this project was to perform an emergency side scan sonar and single-beam survey of 2 slips in Fourchon to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to dock their vessels to resume operations of transporting drilling fluids to their clients in the Gulf of Mexico. During the survey we discovered a conex box underwater right next to the dock that was standing upright only a few feet below the surface of the water. Our side scan sonar also indicated other storm related debris resting on the seafloor. Brock performed the field data collection work which included a <u>side scan sonar and water depth survey</u>.</p>		
08/21 – 10/21	<p><i>Post Hurricane Ida Emergency Hydrographic Survey of 10” Ethylene Pipeline for Shell in the Bonnet Carre Spillway</i> – The purpose of this project was to perform a side scan sonar and multibeam survey of an exposed pipeline in the Bonnet Carre Spillway. The pipeline was exposed before Hurricane Ida hit and our client wanted to ensure that the pipeline was not impacted by any storm debris or moved by the high intensity winds. We discovered that there was in fact some debris hung up on the pipeline. Brock performed the field surveys, which included a <u>side scan sonar and multibeam survey</u>.</p>		

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Bryan Little	Years of relevant experience with this employer	6
Title	Survey Party Chief	Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization	High School Graduate, 1997 / USCG Boaters Safety/ TSA/ TWIC		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Bryan may serve as a hydrographic survey party chief		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the -years of experience specified in the applicable MPR(s).		
<p>Bryan is a Louisiana native and has over 26 years of field experience performing surveys in the Louisiana coastal environment. Experience includes operation of nearly all types of surveying equipment. Proficient in GPS surveying principles and operation. Bryan also has extensive field experience with deployment and troubleshooting of various water level sensors and Acoustic Doppler Velocimeters (ADV’s) for measurement of real-time water levels and flows in various waterways. He has extensive experience in the operation of nearly all types of watercraft used in the coastal surveying environment, including Airboats, Marsh-buggies, and various outboard-powered vessels. Bryan is proficient in the HyPack Max – Hydrographic Survey Software, as well as Sea-Spy magnetic data collection software. Bryan was responsible for field data collection activities for numerous task orders issued through an A/E CWPPRA Surveying Services contract with USDA/NRCS at a previous job.</p>			
08/21 - Ongoing	<p><i>TLCD – Flood Gate Side scan and Multibeam Survey (Terrebonne Parish, LA)</i> - Bryan was one of the Party Chiefs that performed annual side-scan and multibeam surveys on all flood gates within Terrebonne Parish. Bryan was responsible for collecting side-scan and multibeam data used to visually inspect the locking structures of the floodgates for obstructions.</p>		
08/21 – 09/21	<p><i>Post Hurricane Ida Emergency Hydrographic Survey for Magellan Midstream in Gibson</i> – The purpose of this project was to perform an emergency side scan sonar and water depth survey of Bayou Black in Gibson to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to access their docks. During the survey we discovered some storm related debris resting on the seafloor. Bryan performed the field surveys, which included <u>a side scan sonar and multibeam survey</u>.</p>		
08/21 – 10/21	<p><i>Post Hurricane Ida Emergency Hydrographic Survey of 24” Mars & 24” Amberjack Pipelines for Shell in the Gulf of Mexico</i> – The purpose of this project was to perform a side scan sonar and multibeam survey of 2 pipelines in response to an oil leak after Hurricane Ida from the beach out to the 3-mile limit line. During the survey we found several broken pipelines and were able to determine that the pipelines were not for our client. Bryan performed the field surveys, which included <u>a side scan sonar and magnetometer survey</u>.</p>		

06/23 – 08/23	<i>Hydrographic Surveys for Shell's 22" Zydeco Pipelines in Berwick</i> – The purpose of this project was to perform a multibeam inspection survey of Shell's abandoned and active Zydeco pipelines across Bayou Shaffer and the Atchafalaya River to check the depth of cover over the pipelines. During the survey we discovered that the abandoned pipeline was still suspended off of the seafloor at both waterway crossings. Bryan performed the field surveys, which included data collection with a <u>multibeam echosounder</u> .
10/22 - Ongoing	<i>Weeks Marine – Grande Cheniere Ridge Marsh Creation Project (BA-0240)</i> – Bryan served as survey lead for a borrow area survey performed in the Mississippi River. Bryan was tasked with collecting magnetometer and multi-beam data in the borrow area prior to dredging. The data collected was used in volume calculations and locating magnetometer anomalies that may interfere with the dredge cutter head. The purpose of this project is to restore over 300 acres of marsh habitat adjacent to the eastern shoreline of Bayou Grande Cheniere by pumping nearly 3 million cubic yards of material from the Mississippi River.

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Wesley Woodard	Years of relevant experience with this employer	3
Title	Survey Party Chief	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Wesley may serve as a hydrographic survey crew member		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the -years of experience specified in the applicable MPR(s).		
<p>Wesley is a Louisiana native and has over 8 years of field experience performing surveys in the Louisiana coastal environment. Experience includes operation of nearly all types of surveying equipment including Trimble GPS, digital levels, total stations, drones, etc. He has extensive experience in the operation of nearly all types of watercraft used in the coastal surveying environment, including Airboats, Marsh-buggies, and various outboard-powered vessels. Wesley is proficient in the HyPack Max – Hydrographic Survey Software, as well as Sea-Spy magnetic data collection software, and also has an FAA license to fly UAV (drones). He is also a certified diver.</p>			
08/21 - Ongoing	<p><i>TLCD – Flood Gate Side scan and Multibeam Survey (Terrebonne Parish, LA)</i> - Wesley assisted with the annual side-scan and multibeam surveys on all flood gates within Terrebonne Parish. The crew was responsible for collecting side-scan and multibeam data used to visually inspect the locking structures of the floodgates for obstructions.</p>		
11/22 - Ongoing	<p><i>Tchefuncte Marsh Creation Project in St. Tammany Parish</i> – Wesley was responsible for performing a bathymetric and magnetometer survey on the North shore of Lake Pontchartrain. He performed surveys of the borrow area, access corridor and fill areas to assist with the design of the marsh creation project.</p>		
08/21 – 10/21	<p><i>Hydrographic Survey for Bank Erosion Adjacent to an Entergy Transmission Tower</i> - Wesley was responsible for performing a topographic, bathymetric and magnetometer survey of Port Allen Canal. The purpose of the survey was to gather data to remediate a transmission tower that was at risk of falling into the canal.</p>		
10/22 - Ongoing	<p><i>Weeks Marine – Grande Cheniere Ridge Marsh Creation Project (BA-0240)</i> – Wesley was responsible for collecting topographic, bathymetric and magnetometer data along the access corridor and fill areas. The purpose of this project is to restore over 300 acres of marsh habitat adjacent to the eastern shoreline of Bayou Grande Cheniere by pumping nearly 3 million cubic yards of material from the Mississippi River.</p>		

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Dale Shivers	Years of relevant experience with this employer	3
Title	Survey Assistant (Rodman)	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Dale will serve as a survey assistant (rodman)		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the -years of experience specified in the applicable MPR(s).		
08/21 - Ongoing	<i>TLCD – Flood Gate Side scan and Multibeam Survey (Terrebonne Parish, LA)</i> - Dale assisted with the annual side-scan and multibeam surveys on all flood gates within Terrebonne Parish. The crew was responsible for collecting side-scan and multibeam data used to visually inspect the locking structures of the floodgates for obstructions.		
12/19 – 06/22	<i>Terrebonne Basin Barrier Island and Beach Nourishment/West Belle Headland Restoration Project (TE-143 and TE-118), for CPRA (Terrebonne and Lafourche, LA)</i> – The project will restore three critical barrier islands/headland within the Terrebonne Basin barrier shoreline system: West Belle Headland, Timbalier Island, and Trinity Island by hydraulically dredging 9,730,000 cubic yards of material from three sites located in State and Federal waters of the Gulf of Mexico. The sustainable restoration of beach, dune, and marsh habitat in a highly eroded area will help to protect the fragile landscape. Dale assisted with the field data collection for various types of surveys including bathymetric, topographic, magnetometer, and dredge progress/payment surveys.		
06/18 - Ongoing	<i>Mid-Breton Sediment Diversion Project, for CPRA (Plaquemines, LA)</i> –The project will reconnect the Mississippi River with the construction of a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, and a conveyance channel. This project is considered key to reversing the coastal land loss trend that has plagued Louisiana for the past hundred years. Dale assisted in the field data collection for various types of surveys including bathymetric (single and multi-beam), topographic, magnetometer, ADCP and sediment sampling.		
10/22 - Ongoing	<i>Weeks Marine – Grande Cheniere Ridge Marsh Creation Project (BA-0240)</i> – Dale assisted with the collection of topographic, bathymetric and magnetometer data along the access corridor and fill areas. The purpose of this project is to restore over 300 acres of marsh habitat adjacent to the eastern shoreline of Bayou Grande Cheniere by pumping nearly 3 million cubic yards of material from the Mississippi River.		

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Kyle Pierce	Years of relevant experience with this employer	9
Title	CAD Manager / Senior Technician	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Data processing and drafting		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<p>Mr. Pierce has been a CADD Technician since 1997 and has twenty-six years of drafting experience in several disciplines. He is currently trained on the latest AutoCAD Civil 3D software and is responsible for performing duties such as developing construction bid documents from concepts prepared by professional engineers. He also has experience with Bentley MicroStation.</p>			
08/21 - Ongoing	<p><i>TLCD – Flood Gate Side scan and Multibeam Survey (Terrebonne Parish, LA)</i> – Kyle performed the bulk of the drafting work for the annual side-scan and multibeam surveys on all flood gates within Terrebonne Parish.</p>		
08/21 – 10/21	<p><i>Post Hurricane Ida Emergency Hydrographic Survey for Newpark Drilling Fluids in Fourchon</i> – The purpose of this project was to perform an emergency side scan sonar and single-beam survey of 2 slips in Fourchon to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to dock their vessels to resume operations of transporting drilling fluids to their clients in the Gulf of Mexico. During the survey we discovered a conex box underwater right next to the dock that was standing upright only a few feet below the surface of the water. Our side scan sonar also indicated other storm related debris resting on the seafloor. Kyle prepared drawings showing plan views of the side scan imagery, areas that were safe for mooring and coordinates of the sonar contacts (hazards).</p>		
08/21 – 09/21	<p><i>Post Hurricane Ida Emergency Hydrographic Survey for Magellan Midstream in Gibson</i> – The purpose of this project was to perform an emergency side scan sonar and water depth survey of Bayou Black in Gibson to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to access their docks. During the survey we discovered some storm related debris resting on the seafloor. Drawings were prepared by Kyle showing plan views of the side scan imagery and multibeam data, along with areas that were safe for mooring and coordinates of the sonar contacts (hazards).</p>		
09/18 – 08/20	<p><i>Bayou Lafourche Emergency Water Control Structure (Assumption Parish, LA)</i> -Mr. Pierce was responsible for the preparation of the plans for a hydraulic steel water control structure located in Bayou Lafourche to be used in emergency situations when the freshwater pump station located in Donaldsonville, La. would need to be shut down. The water control structure, consisting of a steel sheet pile floodwall, four (4) sluice gates, and a 35-foot wide swing gate (for marine vessels) would be closed allowing Bayou</p>		

	Lafourche to act as a freshwater reservoir until the pump station could be re-started. The project is currently estimated to cost \$2,500,000.
05/14 – 08/17	<i>Morganza to the Gulf, Reach G2 & H1 Mitigation / Marsh Creation Project, (Terrebonne Parish, LA)</i> - Delta Coast Consultants was contracted as the prime consultant for this 205-acre marsh creation project near Dulac, LA. The project provided compensatory mitigation for impacts associated with the construction of two nearby levee alignments. The scope of the project included hydraulically dredging material from the Houma Navigation Canal and pumping over 4 miles to the target fill area just north of the Bayou Sale ridge. Mr. Pierce was responsible for processing survey data, calculating quantities, creating terrain models, preparing project plans, checking payment survey drawing packages, & preparing the As-Built survey drawing package. This project was completed in August of 2017.

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Aric Gisclair, CST	Years of relevant experience with this employer	7
Title	Survey Project Manager	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization	A.A.S. in Computer Aided Drafting & Design / 1999		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Project Management and data processing		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
Aric is a Louisiana native and Project Manager with a diverse background of experience in sectors such as pipeline, exploration & production, public works, levees, coastal restoration, and marine construction projects.			
8/21 – 10/21	<i>Hydrographic Survey of Dock Facilities for M-I Swaco (Schlumberger) in Fourchon, LA</i> – The purpose of this project was to perform an emergency side scan sonar survey of 5 facilities located in Fourchon to look for storm debris located underwater near the client’s docks so that they could resume loading and unloading vessels. This survey was performed Post-Hurricane Ida. Our survey discovered various objects that required removal by our client prior to resuming normal loading and unloading operations. Mr. Gisclair processed the data and managed the field surveys and drawing preparation. Field surveys included a side scan sonar survey. Office work consisted of processing side scan sonar survey data collected. Drawings were prepared showing plan views of the side scan mosaics and coordinates for all observed sonar contacts (hazards).		
08/21 – 10/21	<i>Post Hurricane Ida Emergency Hydrographic Survey for Newpark Drilling Fluids in Fourchon</i> – The purpose of this project was to perform an emergency side scan sonar and single-beam survey of 2 slips in Fourchon to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to dock their vessels to resume operations of transporting drilling fluids to their clients in the Gulf of Mexico. During the survey we discovered a conex box underwater right next to the dock that was standing upright only a few feet below the surface of the water. Our side scan sonar also indicated other storm related debris resting on the seafloor. Aric handled all of the data processing.		
12/19 – 06/22	<i>Terrebonne Basin Barrier Island and Beach Nourishment/West Belle Headland Restoration Project (TE-143 and TE-118), for CPRA (Terrebonne and Lafourche, LA)</i> – The project will restore three critical barrier islands/headland within the Terrebonne Basin barrier shoreline system: West Belle Headland, Timbalier Island, and Trinity Island by hydraulically dredging 9,730,000 cubic yards of material from three sites located in State and Federal waters of the Gulf of Mexico. The sustainable restoration of beach, dune, and marsh habitat in a highly eroded area will help to protect the fragile landscape. Aric’s role as a survey consultant in the project was to oversee field data collection and mapping for various types of surveys including bathymetric, topographic, magnetometer, and dredge progress/payment surveys. He also handled all of the data processing.		

06/18 - Ongoing	<p><i>Mid-Breton Sediment Diversion Project, for CPRA (Plaquemines, LA)</i> –The project will reconnect the Mississippi River with the construction of a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, and a conveyance channel. This project is considered key to reversing the coastal land loss trend that has plagued Louisiana for the past hundred years. Aric’s role as a survey consultant in the project was to oversee field data collection and mapping for various types of surveys including bathymetric (single and multi-beam), topographic, magnetometer, ADCP and sediment sampling. He also handled all of the data processing.</p>
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16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Tyler Adams	Years of relevant experience with this employer	6
Title	Senior Technician	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization	A.A.S. in Computer Aided Drafting & Design / 2012		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Survey
Contract role(s) / brief description of responsibilities	Drafting and data processing		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
Aric is a Louisiana native and Project Manager with a diverse background of experience in sectors such as pipeline, exploration & production, public works, levees, coastal restoration, and marine construction projects.			
8/21 – 10/21	<i>Hydrographic Survey of Dock Facilities for M-I Swaco (Schlumberger) in Fourchon, LA</i> – The purpose of this project was to perform an emergency side scan sonar survey of 5 facilities located in Fourchon to look for storm debris located underwater near the client’s docks so that they could resume loading and unloading vessels. This survey was performed Post-Hurricane Ida. Our survey discovered various objects that required removal by our client prior to resuming normal loading and unloading operations. Tyler prepared drawings showing plan views of the side scan mosaics and coordinates for all observed sonar contacts (hazards).		
10/22 - Ongoing	<i>Grande Cheniere Ridge Marsh Creation Project BA-240, CPRA (Plaquemines Parish, LA)</i> –The goal of the project is to create multiple marsh areas Southwest of West Pointe a La Hache using spoil dredged from the Mississippi River. The project involved magnetometer surveys, hydrographic surveys of borrow areas and access routes, and the topographic surveys of the marsh creation areas. Tyler is responsible for handling the majority of the drafting and deliverable preparation.		
12/19 – 06/22	<i>Terrebonne Basin Barrier Island and Beach Nourishment/West Belle Headland Restoration Project (TE-143 and TE-118), for CPRA (Terrebonne and Lafourche, LA)</i> – The project will restore three critical barrier islands/headland within the Terrebonne Basin barrier shoreline system: West Belle Headland, Timbalier Island, and Trinity Island by hydraulically dredging 9,730,000 cubic yards of material from three sites located in State and Federal waters of the Gulf of Mexico. The sustainable restoration of beach, dune, and marsh habitat in a highly eroded area will help to protect the fragile landscape. This project included field data collection and mapping for various types of surveys including bathymetric, topographic, magnetometer, and dredge progress/payment surveys. Tyler was responsible for handling the majority of the drafting and deliverable preparation.		
06/23 – 08/23	<i>Hydrographic Surveys for Shell’s 22” Zydeco Pipelines in Berwick</i> – The purpose of this project was to perform a multibeam inspection survey of Shell’s abandoned and active Zydeco pipelines across Bayou Shaffer and the Atchafalaya River to check the depth of cover over the pipelines. During the survey we discovered that the abandoned pipeline was still suspended off of the seafloor at both waterway crossings. Tyler handled the drafting duties for this project.		

16. Staff Experience:

Firm employed by	Delta Coast Consultants, LLC		
Name	Kevin Rizzo	Years of relevant experience with this employer	3
Title	Engineering Manager, P.E. , PMP	Years of relevant experience with other employer(s)	31
Degree(s) / Years / Specialization	BS Mathematics /1991 ; BS Civil Engineering/1998		
Active registration number / state / expiration date	PE #30575 / LA / 03/31/2025		
Year registered	20	Discipline	Professional Engineer (Civil)
Contract role(s) / brief description of responsibilities	Engineering Supervisor		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/14 – 12/17 Previous Employer	07-EXT-22, Bayou Gardens Blvd. Extension: LA 660 to LA 316, Terrebonne Parish Consolidated Government, Terrebonne Parish, LA – Engineering Supervisor. Supervised roadway design including drainage, geometrics, subsurface drainage, left turn lane widening, Traffic Management Plans and utility relocation. Supervised the compilation of all project pay items, quantities and cost estimates for a new, 1.6 mile, four-lane roadway extension (Urban Arterial) connecting state routes LA 660 and LA 316. Also supervised Construction Support services including shot drawing review, asphalt mix designs, and reviewing and responding to Contractor RFIs.		
10/14 – 12/17 Previous Employer	07-EXT-22, Bayou Gardens Blvd. Extension: LA 660 to LA 316, Terrebonne Parish Consolidated Government, Terrebonne Parish, LA – Engineering Supervisor. Provided supervision and quality control of all preliminary and final roadway design including H&V alignments, drainage, joint layouts, graphical grading, superelevation, sequence of construction and utility relocation design and coordination for a 1.6 mile, 4-lane divided roadway extension of Bayou Gardens Blvd. Also responsible for design of the intersection layouts and coordination of the signal improvements at state routes LA 660 and LA 316.		
01/14 – 06/21 Previous Employer	S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), LADOTD, St. Tammany Parish, LA – Engineering Supervisor. Supervising engineer for preliminary and final roadway design including H&V alignments, drainage, and R-Cut and median U-turns for a new, 5.5 mile, 4-lane, divided median, Rural Arterial Roadway from LA 435 to LA 40/41 near Bush, LA. Also provided Quality Control of the 100% Final Plan Submittal and reviewed the Final Cost Estimate and Calculations Book.		
09/16 – 08/19 Previous Employer	S.P. No. H.011152, I-12 Widening (US 190 to LA 59), LADOTD, St. Tammany Parish, LA – Engineering Supervisor. Supervising engineer and performed quality control of several roadway design elements including H&V alignments, drainage, median barriers and sequence of construction. Also assisted in the development of a Level 4 Traffic Management Plan and oversaw the preparation of preliminary and final plan submittals and cost estimates.		

17. Firm Experience:

Firm name	Delta Coast Consultants, LLC	Past Performance Evaluation Discipline(s)*	Survey
Project name	Emergency Response to Damage from Hurricane Ida on the Morganza Hurricane Protection System	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Terrebonne Levee and Conservation District (TLCD),
Project location	Terrebonne Parish, Louisiana	Owner's Project Manager	Reggie Dupre, Jr.
Owner's address, phone, email	220A Clendenning Road, Houma, LA 7036 , 985.262.85233,		
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost (\$1,000's)	Ongoing
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$5,600

This project demonstrates DCC's ability and expertise in managing large scale emergency conditions, involving multi-disciplinary project teams for storm damaged repairs of Flood Control Structures.

Relevance to Scope of Services:

- ✓ Post Hurricane Emergency Response
- ✓ Public Safety Concern
- ✓ Responsiveness
- ✓ High Quality Deliverables
- ✓ Excellent Communication Skills During an Emergency

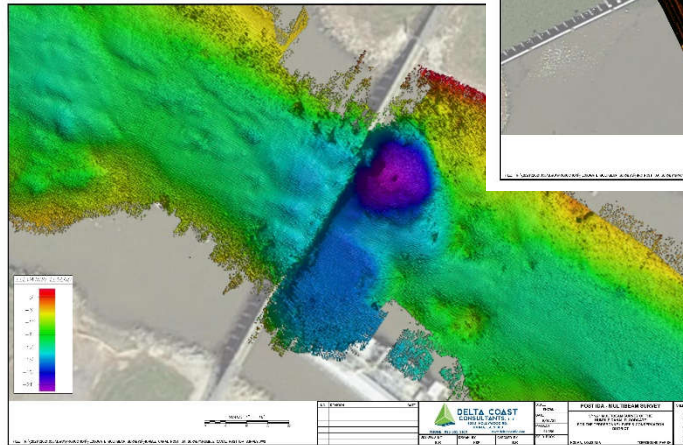
Services Provided:

- ✓ Side Scan Sonar Surveys
- ✓ Multibeam Surveys
- ✓ Data Collection & Processing
- ✓ Mapping Services
- ✓ Assessment of Flood Protection Services
- ✓ Technical Presentations
- ✓ Cost Estimating
- ✓ Project Scoping
- ✓ Report Preparation and Presentation
- ✓

Key Personnel:

M. Marmande, J. Kennedy, K. Rizzo, D. Boudreaux, P. Toups, K, Pierce. A. Gisclair

Delta Coast Consultants provides overall Program Management services for the Terrebonne Levee and Conservation District on the Morganza to the Gulf – Hurricane Protection Project. Through this contract, DCC provides multi-level



oversight and assists TLCD with nearly every aspect of project implementation including Emergency Response after tropical events. During Hurricane Ida, both the Bubba Dove and Humble Canal flood control structures failed and needed repair.

Immediately following the storm, DCC's team was able to access each of these structures with the use of side-scan sonar to determine the extent of the underwater damage and provide a competent repair plan that was then implemented by contractors and managed by DCC to put these structures back into service for the remainder of the 2021 hurricane season.

17. Firm Experience:

Firm name	Delta Coast Consultants, LLC		Past Performance Evaluation Discipline(s)*	Survey
Project name	Emergency Response to Hurricane Ida – 10” Ethylene Pipeline Inspection At Bonnet Carre Spillway		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner’s name	Shell Pipeline Company LP	
Project location	St. Charles Parish, Louisiana		Owner’s Project Manager	Shane Degruise
Owner’s address, phone, email	15601 Airline Highway, Norco, LA 70079 , 985-856-7572, shane.degruise@shell.com			
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost (\$1,000’s)		\$8.5
Services completed by this firm (mm/yy)	10/21	Cost of consultant services provided by this firm (\$1,000’s)		\$8.5

This project demonstrates DCC’s ability and expertise in quickly responding to the needs of our clients during emergency conditions to ensure the integrity of their assets and the safety of the public.

The purpose of this project was to perform a hydrographic survey of an exposed pipeline in the Bonnet Carre Spillway. The pipeline was exposed before Hurricane Ida hit and our client wanted to ensure that the pipeline was not impacted by any storm debris or moved by the high intensity winds. We discovered that there was in fact some debris hung up on the pipeline (see image to the right). Delta Coast performed the field surveys, data processing and drawing preparation. Field surveys included a side scan sonar and multibeam survey. Office work consisted of processing the side scan sonar and multibeam data that was collected. Drawings were prepared showing plan and profile views of the side scan imagery, multibeam data and details of key features.

Relevance to Scope of Services:

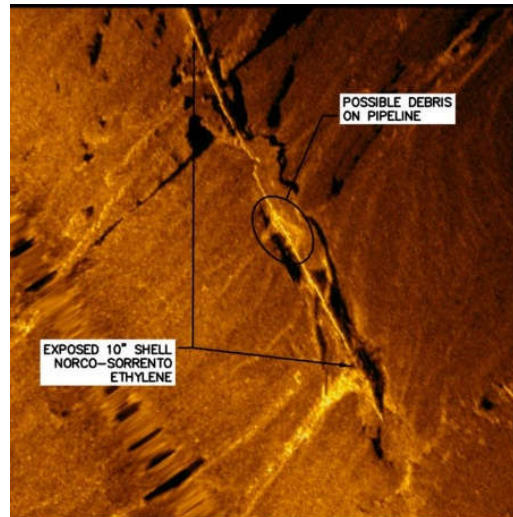
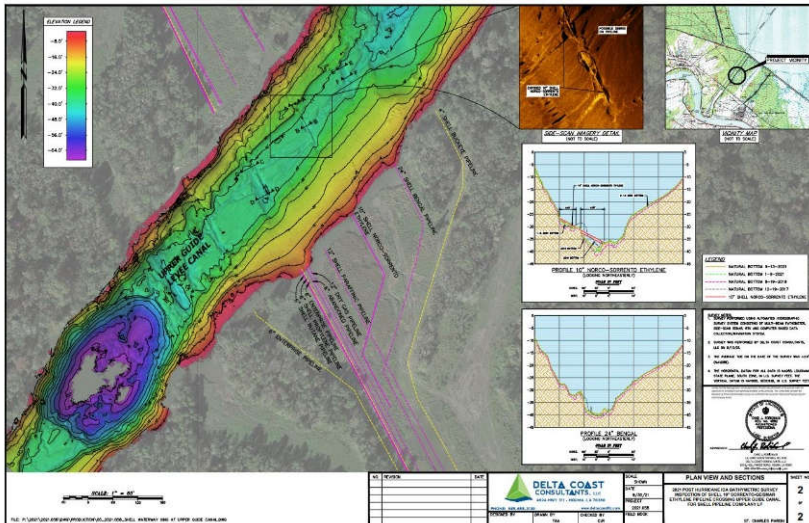
- ✓ Post Hurricane Emergency Response
- ✓ Public Safety Concern
- ✓ Responsiveness
- ✓ High Quality Deliverables
- ✓ Excellent Communication Skills During an Emergency

Services Provided:

- ✓ Side Scan Sonar Survey
- ✓ Multibeam Survey
- ✓ Data Collection & Processing
- ✓ Cost Estimating
- ✓ Project Scoping
- ✓ Mapping Services
- ✓ Deliverable & Report Preparation

Key Personnel:

M. Marmande, J. Kennedy, C. Robichaux, K. Pierce, A. Gisclair, B. Little, B. Pellegrin, T. Adams



17. Firm Experience:

Firm name	Delta Coast Consultants, LLC		Past Performance Evaluation Discipline(s)*	Survey
Project name	Emergency Response to Hurricane Ida – Side Scan Sonar Survey Inspection of Docks in Fourchon		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner’s name	Newpark Drilling Fluids	
Project location	Lafourche Parish, Louisiana		Owner’s Project Manager	Sam Smith
Owner’s address, phone, email	1340 Poydras Street, Suite 1750, New Orleans, LA 70112, 504-523-8446, ssmith@newpark.com			
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost (\$1,000’s)		\$8.5
Services completed by this firm (mm/yy)	10/21	Cost of consultant services provided by this firm (\$1,000’s)		\$8.5

This project demonstrates DCC’s ability and expertise in quickly responding to the needs of our clients during emergency conditions to ensure public safety and to allow Newpark to safely and quickly resume shipping operations to minimize down time, loss of revenue and responsiveness to their GOM clients.

Relevance to Scope of Services:

- ✓ Post Hurricane Emergency Response
- ✓ Public Safety Concern
- ✓ Responsiveness
- ✓ High Quality Deliverables
- ✓ Excellent Communication Skills During an Emergency

Services Provided:

- ✓ Side Scan Sonar Survey
- ✓ Single-beam Survey
- ✓ Data Collection & Processing
- ✓ Cost Estimating
- ✓ Project Scoping
- ✓ Mapping Services
- ✓ Deliverable & Report Preparation

Key Personnel:

M. Marmande, J. Kennedy, C. Robichaux, K. Pierce, A. Gisclair, B. Little, B. Pellegrin, P. Toups

The purpose of this project was to perform an emergency side scan sonar and bathymetric survey of 2 slips in Fourchon to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to dock their vessels to resume operations of transporting drilling fluids to their clients in the Gulf of Mexico. During the survey we discovered a conex box underwater right next to the dock that was standing upright only a few feet below the surface of the water. Our side scan sonar also indicated other storm related debris resting on the seafloor. Drawings were prepared showing plan views of the side scan imagery, areas that were safe for mooring and coordinates of the sonar contacts (hazards).



17. Firm Experience:

Firm name	Delta Coast Consultants, LLC		Past Performance Evaluation Discipline(s)*	Survey
Project name	Emergency Response to Hurricane Ida – Side Scan Sonar Survey Inspection of Docks in Gibson		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner’s name	Magellan Midstream Partners LP	
Project location	Lafourche Parish, Louisiana		Owner’s Project Manager	Mark Brown
Owner’s address, phone, email	One Williams Center, OTC-8, Tulsa, OK 74172, 918-574-7066, EMAIL			
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost (\$1,000’s)		\$8.5
Services completed by this firm (mm/yy)	10/21	Cost of consultant services provided by this firm (\$1,000’s)		\$8.5

This project demonstrates DCC’s ability and expertise in quickly responding to the needs of our clients during emergency conditions to ensure public safety and to allow Magellan to safely and quickly resume crude oil delivery operations to minimize down time, loss of revenue and responsiveness to their clients.

Relevance to Scope of Services:

- ✓ Post Hurricane Emergency Response
- ✓ Public Safety Concern
- ✓ Responsiveness
- ✓ High Quality Deliverables
- ✓ Excellent Communication Skills During an Emergency

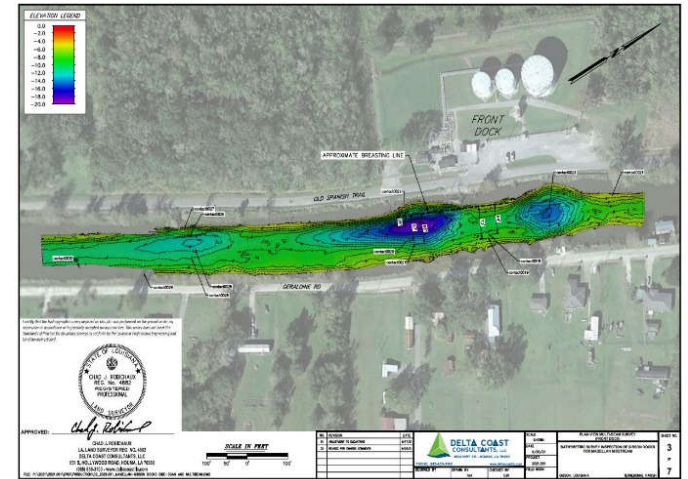
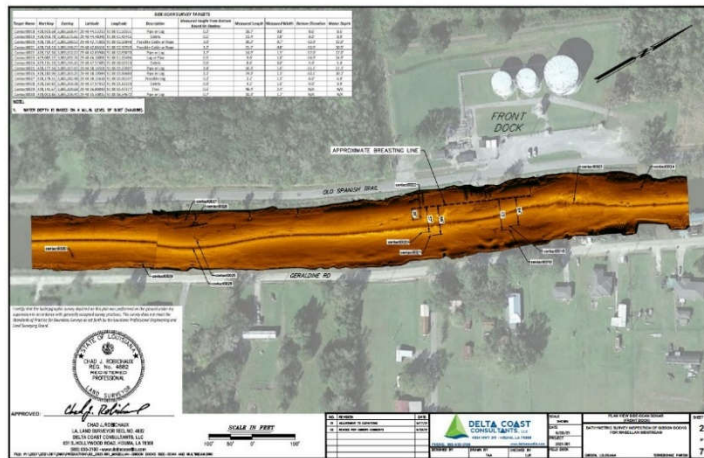
Services Provided:

- ✓ Side Scan Sonar Survey
- ✓ Multibeam Survey
- ✓ Data Collection & Processing
- ✓ Cost Estimating
- ✓ Project Scoping
- ✓ Mapping Services
- ✓ Deliverable & Report Preparation

Key Personnel:

M. Marmande, J. Kennedy, C. Robichaux, K. Pierce, A. Gisclair, B. Little, B. Pellegrin, P. Toups

The purpose of this project was to perform an emergency side scan sonar and water depth survey of Bayou Black in Gibson to determine water depths and to look for storm debris underwater near the client’s docks so that they could determine whether it was safe to access their docks. During the survey we discovered some storm related debris resting on the seafloor. Field surveys included a side scan sonar and water depth survey. Office work consisted of processing the side scan sonar and multibeam echosounder data that was collected. Drawings



were prepared showing plan views of the side scan imagery and multibeam data, along with areas that were safe for mooring and coordinates of the sonar contacts (hazards).

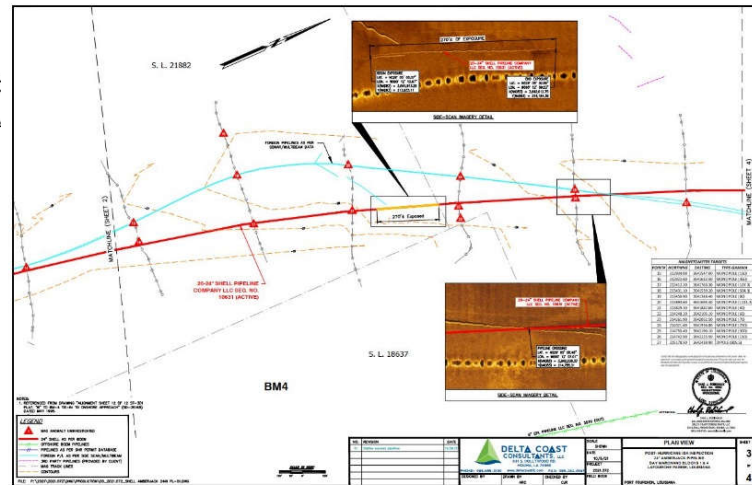
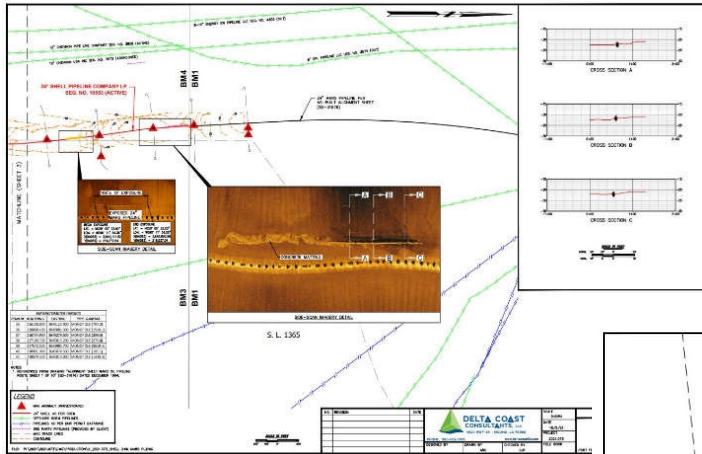
17. Firm Experience:

Firm name	Delta Coast Consultants, LLC		Past Performance Evaluation Discipline(s)*	Survey
Project name	Emergency Response to Hurricane Ida – Side Scan Survey Inspection of 24" Mars & 24" Amberjack Pipelines in GOM		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Shell Pipeline Company LP	
Project location	Lafourche Parish, Louisiana		Owner's Project Manager	Micah Shanks
Owner's address, phone, email	150 N. Dairy Ashford Road, Houston, TX 77079, 832-762-2606, micah.shanks@shell.com			
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost (\$1,000's)		\$20
Services completed by this firm (mm/yy)	10/21	Cost of consultant services provided by this firm (\$1,000's)		\$20

This project demonstrates DCC's ability and expertise in quickly responding to the needs of our clients during emergency conditions to ensure the integrity of their assets and the safety of the public

The purpose of this project was to perform a side scan sonar survey of 2 pipelines in response to an oil leak after Hurricane Ida from the beach out to the 3-mile limit line. During the survey we found several broken pipelines and were able to determine

that the pipelines were not for our client. Field surveys included a side scan sonar and magnetometer survey. Office work consisted of processing the side scan sonar and magnetometer data that was collected. Drawings were prepared showing plan views of the side scan imagery, magnetic targets and coordinates of key features.



Relevance to Scope of Services:

- ✓ Post Hurricane Emergency Response
- ✓ Public Safety Concern
- ✓ Responsiveness
- ✓ High Quality Deliverables
- ✓ Excellent Communication Skills During an Emergency

Services Provided:

- ✓ Side Scan Sonar Survey
- ✓ Single-beam Survey
- ✓ Magnetometer Survey
- ✓ Data Collection & Processing
- ✓ Cost Estimating
- ✓ Project Scoping
- ✓ Mapping Services
- ✓ Deliverable & Report Preparation

Key Personnel:

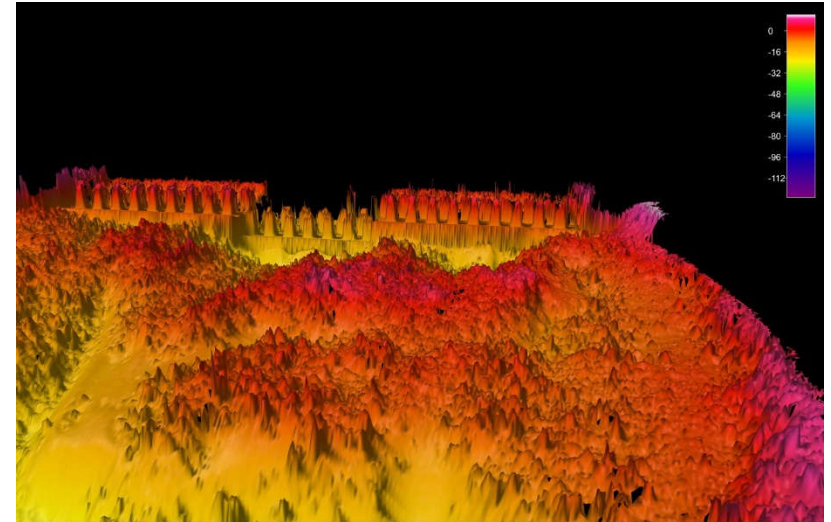
M. Marmande, J. Kennedy, C. Robichaux, K. Pierce, A. Gisclair, B. Little, B. Pellegrin, P. Toups

18. Approach and Methodology:

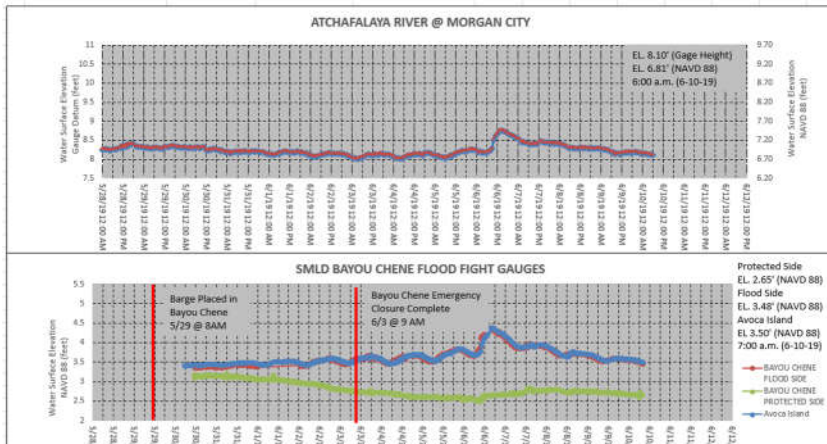
Delta Coast Consultants offers a specialized group of local experts with sound experience in engineering and surveying knowledge. We are uniquely positioned to assist with the planning, design and implementation of a wide range of projects throughout Louisiana. Our specialized experience is based on many years of hard work on coastal projects in our region; from Barrier Island restoration to the development of the Morganza to the Gulf Hurricane protection project, we have worked to fight for the implementation and continuation of these critical features. Our engineers and surveyors have an extensive working knowledge of both past and future projects planned in Louisiana. This knowledge allows our team to compile data, evaluate alternatives, and incorporate stakeholder comments more efficiently, which will translate into cost and time savings for DOTD.

Modeling Survey Support & Data Collection:

Our associates are experts at evaluating, scoping, and collecting accurate hydraulic and hydrographic data in support of modeling efforts on water resource projects. DCC is currently the data collection lead for the Mid-Breton Sediment Diversion Projects (Subconsultant to Stantec), responsible for collection of multibeam bathymetry, ADCP surveys, installation of CTD sensors (Conductivity, Temp, Depth), and other water quality parameters for validation and calibration of various modeling effects on the project. Our staff is highly skilled and experienced in deployment of various remote-sensing instrumentation; including real-time water-level gauges, ADCP's, turbidity probes, and other measurement techniques. DCC was tasked with deployment of real-time water level gauges and review/adjustment of various existing gauges throughout the Atchafalaya/Terrebonne Basin to assist the local flood protection authorities with maintaining and management of the Bayou Chene emergency Closure and other Flood-fight actions for a past Atchafalaya River Flood event. Our surveyors and engineers understand survey datum relationships and height modernization adjustments and the importance of accurate vertical adjustments to gauge data and survey data to ensure proper model validation and calibration. Our associates have performed numerous surveys for FEMA Flood Studies in accordance with FEMA Standards and Quality Control Procedures.



Multibeam Survey – Old River Structure



Real Time Water Levels During 2019 Flood Fight

Surveying and Data Collection Resources:

Our associates have provided high quality data collection and field surveying services for water resource projects throughout their careers. Mr. Chad Robichaux, PLS, has over 29 years of experience providing boundary, geodetic, control, hydrographic, and topographic surveys throughout the Gulf Coast and beyond. Delta Coast also maintains a highly efficient and skilled staff of surveying technicians and field personnel capable of collecting multiple types of data on a variety of projects. We maintain the most up-to-date surveying equipment and marine vessels to ensure the efficiency of our field personnel. Delta Coast Consultants has the personnel and equipment to complete any data collection task issued under this contract. The following is summary of our in-house equipment available for infrastructure projects:

* Indicates equipment available through existing rental contract or agreement

Topographic Surveys:

Mr. Chad Robichaux, PLS will manage all topographic survey tasks issued under this contract. Mr. Robichaux's past work history on a variety of projects includes topographic cross-sections / transects for beach nourishment projects, channel dredging projects, marsh creation projects, pipeline, land development, and construction projects. Mr. Robichaux serves as the survey manager at Delta Coast, and is responsible for daily coordination of field crews, preparation of crew field packet information, quality control checks, and data transfer. Mr. Robichaux has excellent technical knowledge of Global Positioning Satellite (GPS) principles and procedures, as well as conventional EDM style total stations, robotic total stations, and leveling equipment. Below is a listing of the topographic survey capabilities of our firm:

- Real-Time Kinematic (RTK) GPS surveys, including LSU-C4G real time network
- Robotic Total Station (EDM) surveys
- Geodetic / Static GPS/GNSS surveys for primary and secondary control
- Pipeline / Utility location using magnetic locators and jet probing
- Shallow water / wetland bathymetry surveys using conventional soundings / rod readings

Equipment Name / Type	#	Equipment Name / Type	#
RTK GPS Total Stations – Trimble R10/R12 /Spectra Precision SP80 (2 GNSS receivers per unit)	5	Proton / Cesium Magnetometer	1*
Conventional Total Stations / Robotic Total Station - Trimble	1	Gradiometer / Metal Detector	2
Single Frequency Echosounder (200kHz) – Odom Hydrotrac II	1	Twin Engine Survey Vessel (Over 24')	1
Dual Frequency Echosounder (24 / 200 kHz) – Odom Mark III	1	Single Engine Survey Vessel (Under 24')	1
Multi-beam Echosounder – Norbit Winghead B 44	1	Airboats	2
Pipeline / Utility locator – Ditch Witch Utiliguard T12	1	RTV / ATV	1
Handheld Field Data Collectors – Trimble TSC3	4	Conventional Levels	3

Bathymetric and Hydrographic Surveys:

Mr. Barry "Jason" Kennedy, PE, PLS will manage all hydrographic surveying tasks for projects issued under this contract. Mr. Kennedy has an extensive background in performance of shallow-water hydrographic surveys for offshore / inshore borrow areas, river / channel dredging, and navigation projects. Mr. Kennedy has excellent technical knowledge of hydrographic surveying software, single beam (single and dual frequency) echosounders, multi-beam echosounders, and cesium/proton magnetometers. Mr. Bryan Little will lead the inshore hydrographic field data collection efforts. Mr. Little has over 9 years of experience in performance of hydrographic surveys conforming to USACE Hydrographic Surveying Manual. Delta Coast Consultants exclusively uses RTK GPS onboard the survey vessel for real-time tidal corrections and highly accurate vertical and horizontal positioning of soundings. Below is a listing of the hydrographic surveying capabilities at Delta Coast Consultants:

- Single-Beam (Single & Dual Frequency) Bathymetric Surveys
- Multi-Beam Bathymetric Surveys
- Acoustic Doppler Current Profiler (ADCP) Surveys
- Side-Scan Sonar (Acoustic Imagery) Surveys
- Extreme Shallow-water, Light vessel, Bathymetric Surveys
- Dual-Frequency single-beam surveys for riverine / dredging turbidity layer penetration
- Hypack® Max data editing, line merging, tin-model construction, and volume calculation



Magnetometer Surveys:

Our associates have developed their surveying skills primarily in the coastal marshes and waterways of Terrebonne and Lafourche parishes. These areas contain some of the largest networks of decades-old underground oil / gas pipelines and flowlines in Louisiana. A vast majority of these pipelines are un-mapped and unmarked lines that have been abandoned or forgotten through subsequent sales of oilfield infrastructure. Mr. Chad Robichaux, PLS and Mr. Bryan Little have been providing oil/gas infrastructure and pipeline surveys for over 20 years in these areas. Mr. Kennedy also has an excellent working knowledge of underwater magnetic detection principles and procedures and has developed a proven methodology for pipeline/flowline detection in shallow coastal waters.

Property and Right-of-Way Surveys:

Mr. Prosper Toups, PLS has excellent experience in performance of boundary surveys in Louisiana, with particular expertise in riparian boundaries. He has over 27 years of experience in the surveying industry and was formerly the sole owner of a land-surveying firm in Houma, LA. Delta Coast Consultants has also gained experience with land-rights and right-of-way acquisition on coastal properties in performance of our program management responsibilities for the Terrebonne Levee and Conservation District. Our firm performs approximately 3-4 large boundary surveys each month, which keeps our associate's boundary surveying skills tested and sharp.

Capability and Capacity:

Delta Coast Consultants has the large project experience, credentials, and knowledge necessary to assist this project team and become a true local asset for DOTD. We already know the region, the people, the history and the challenges. Our team is positioned to respond quickly and efficiently.

Our firm focuses and specializes in data collection and surveying to support engineering and construction efforts on coastal restoration, flood protection and other infrastructure projects in South Louisiana. Unlike many surveying firms in our region, DCC is not committed to large oil/gas pipeline clients which require dedication of a large volume of staff and resources for their projects. We have 5 independent field crews assembled for the specific purpose of data collection needs on coastal restoration and infrastructure projects.

The capabilities of our firm are evident from the wide range of projects and clients that have used our services across Coastal Louisiana over the past 9 years. We feel that our firm is a perfect fit to assist DOTD in their effort to perform hydrographic survey inspections of their assets across the state due to our extensive experience in performing these types of surveys.

19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
N/A	N/A	N/A	N/A	N/A

20. Certifications/Licenses:

8/26/22, 10:08 AM Print Lookup Details

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

Name: Public Address:
Delta Coast Consultants, Ms. Brandi Voisin 631 South Hollywood Road
LLC Houma, Louisiana 70360

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0005462	Active	02/03/2014	09/30/2024	Mr. Barry Jason Kennedy # PE.0033218 - Active

8/26/22, 10:07 AM

Print Lookup Details

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

Name:	Public Address:
Delta Coast Consultants, LLC	Ms. Brandi Voisin 631 South Hollywood Road Houma, Louisiana 70360

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000714	Active	02/03/2014	09/30/2024	Mr. Mitchell John Marmande # PLS.0005012 - Active

21. QA/QC Plan

QC and QA Procedures for Single Beam Surveys

Procedure	Recommended Application
Bar Check	Perform calibration periodically. Frequency of bar checks can be reduced if average velocity repeatedly correlates with velocity cast data. Perform at the beginning of critical projects. Correlate with dynamic draft variations.
Dynamic Draft Corrections	Monitor every 0.1 ft trim change.
Velocity Cast Calibration	Perform, at minimum, once daily. More often in highly variable waters. Correlate with bar check velocity.
Squat/Settlement Calibration	Perform annually over different vessel speeds and loading conditions.
Latency Calibration	Perform periodically to obtain average correction over time. Perform at beginning of any critical survey.
Horizontal Position Check	Conduct daily checks to project benchmarks where possible.
Vertical Calibration (RTK)	Conduct daily checks to project benchmarks where possible.
Motion Compensation	Apply if river or sea conditions warrant correction.
Survey Coverage (Density)	On most projects, single beam cross-sections should generally not exceed 200 ft line spacing.

QC and QA Procedures for Multibeam Surveys

Procedure	Recommended Frequency or Comment
Bar Check Calibration	Perform periodically (e.g., monthly or quarterly); recommended at start of new projects.
Sound Velocity Calibration	Once daily minimum, or more often in varying conditions
Horizontal Position Check	Conduct daily checks to project benchmarks where possible.
Vertical Elevation Check (RTK)	Conduct daily checks to project benchmarks where possible.
System Alignment/Orientation Tests (e.g., Latency/Patch Test)	Perform periodically (e.g., quarterly) or as required. Recommended at start of new projects.
Vessel Squat/Settlement Test	Annually
Survey Coverage (Density)	100% coverage is recommended for maintenance dredging projects. 200% coverage is recommended for deep-draft projects with critical under keel clearances over rock.
Object or Shoal Detection: Minimum object size	3 ft cube (periodically verify by independent detection test)
Minimum number of acoustic hits to confirm a shoal or strike above grade	3 acoustic hits recommended. (successive passes over object)

22. Sub-consultant information:

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
N/A	N/A	N/A	N/A

(Add rows as needed)

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.**