



San Leon Municipal Utility District

Grant Application and Administrative Services, RFP-20201-CDBG-MIT

July 1, 2020



ARDURRA

COLLABORATE. INNOVATE. CREATE.

TRANSMITTAL LETTER



Ardurra Group, Inc.
2032 Buffalo Terrace
Houston TX 77019

San Leon Municipal Utility District
Attn: Stephen DonCarlos
2514 E Cedar Bayou Lynchburg Rd
Baytown, TX 77521

RE: Grant Application and Administrative Services, RFP 20201-CDBG-MIT

Selection Committee:

Ardurra Group, Inc. (Ardurra) is pleased to submit our qualifications to assist San Leon Municipal Utility District (the District) with CDBG-MIT grant application and administration services. Ardurra commends the District for taking proactive measures to secure a propositioned contract to capture and manage CDBG-MIT funds. Ardurra is currently assisting Galveston County Water Control & Improvement District 19, Bolivar Peninsula Special Utility District and the City of Port Arthur with CDBG-MIT grant application and management services. In addition, we are assisting 15 Texas communities and agencies with Harvey recovery efforts to include FEMA and CDBG-DR grant management, hazard mitigation, engineering advisory, environmental services, overall compliance and design for City infrastructure. As you evaluate the submittals, we ask that you keep the following strengths of the Ardurra team in mind:

Hurricane Harvey Recovery Efforts and CDBG-MIT. Since Harvey hit in 2017, Ardurra has been on the ground in cities and counties throughout Texas, assisting our clients with emergency repairs, facility damage assessments, grant application and management, environmental services, design, hazard mitigation and overall program compliance — to date we have managed \$2.5B in Harvey FEMA funds. We understand the funding flows and have established relationship with FEMA, HUD and Texas GLO. We know WHERE the funding sources are, WHEN they become available, and HOW to access — which is critical to maximize reimbursement. We have helped clients use combinations of regular FEMA PA funds, 406 Hazard Mitigation funds, and CDBG-DR funds to recover AND rebuild more resilient and more functional facilities. **Our HUD CDBG Subject Matter Experts have been tracking the CDBG-MIT program and have an excellent understanding of the program's intent, opportunities, restrictions and rules that must be adhered to.** We welcome this opportunity to assist the District to fully leverage CDBG-MIT funds and avoid passing the burden of infrastructure costs to residents through bond issues or rate increases.

Depth of Staff. Ardurra is a multi discipline engineering and disaster recovery firm with 450+ staff in 20 offices throughout the US— to include FEMA and HUD subject matter experts; professional civil, structural, transportation, environmental, mechanical and electrical engineers; environmental scientists; geologists; ecologists; surveyors; GIS professionals; land planners; certified construction managers; and water and wastewater plant operators. We have a proven history of rebuilding infrastructure and communities – bringing lessons learned from 25+ federally-declared disasters and \$20B in recovery programs.

We Know the Local Landscape. We have worked with the City of Galveston and Galveston County for 15 years furnishing engineering and disaster recovery services. Our proposed program manager, Nick Foster, served as project coordinator for the Galveston County \$65M CDBG-DR recovery program following Ike, including **multiple backup generators and the elevated Control Room Mezzanine for San Leon MUD.** He assisted public officials to ID eligible projects and prepared grant applications; served as liaison to the Texas GLO; supervised delivery and compliance for \$65M in construction projects including the replacement of waterlines and roads within Galveston County neighborhoods.



TRANSMITTAL LETTER

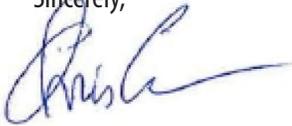
Ardurra is currently working with the Texas GLO in varying capacities and we are working in Houston, League City, Port Arthur and Beaumont on Harvey recovery efforts. For Port Arthur, we prepared preliminary engineering for over **80 individual projects totaling \$200M and assisted the City to secure \$30M in FEMA 404 funds** to be utilized on flood-proofing electrical buildings, civic center, City hall and municipal theater and for improvements to City infrastructure. We assisted Beaumont to identify **8 FEMA 404 applications totaling \$22.6M** including 5 building flood proofing projects, 2 increased capacity of mitigated space for buildings projects and 1 new drainage pump station. We are currently assisting **TX GLO with development and review of FEMA and CDBG-DR compliant environmental services.**

Disaster Related Engineering Capabilities. For 15 years Ardurra has been furnishing post disaster assessment, design, construction and federal funds management services to harden wastewater, water and drainage facilities, streets & bridges and levees, floodwalls and floodgates and to repair and restore shorelines. We have assisted our clients to develop 404 and 406 hazard mitigation opportunities and identify and secure additional, alternative funding opportunities to repair and rebuild their facilities in a more resilient and functional manner. We understand the specific issues involved in assessments, emergency repairs, design, construction and closeout services as they relate to state and federal authorities – we know the rules to ensure funding sources are not jeopardized and are maximized. We offer the **District 140 local staff (45 TX Registered Professional Engineers)** focused solely on water, wastewater, drainage and recovery projects in the region – more than any local competitor can claim.

Environmental Review & Compliance. Each FEMA and HUD project must comply with hundreds of regulations. For example 24 CFR Part 58 (HUD Environmental Regulations), is a regulation that can force you to return all funds spent on a project if certain rules are not followed. Congress has simplified the process allowing governments to use another agency's Environmental Review (ER), however there are strict processes that must be adhered to remain in compliance with HUD. Ardurra's staff has completed thousands of HUD compliant ERs. When requesting funds it is important to know how the environmental compliance process may impact the projects implementation.

Statements. Ardurra will furnish services in-house with existing staff working from our Houston offices. Ardurra will commit all necessary resources to carry out the scope of work on schedule and within budget. Ardurra takes no exceptions to the Required Contract Provisions.

Sincerely,



Chris Canonico PE

Principal, Ardurra Group, Inc.



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TAB 1

QUALIFICATIONS & EXPERIENCE



1

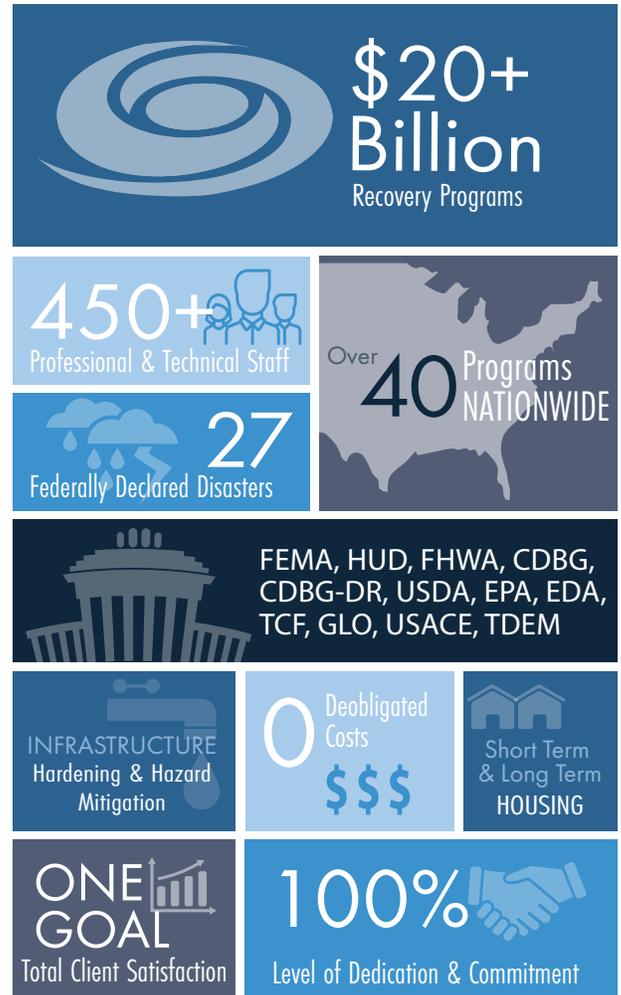
PROPOSAL - QUALIFICATIONS & EXPERIENCE

ARDURRA GROUP, INC.

Although Ardurra may be a relatively new name to San Leon Municipal Utility District (the District), we are certainly not new to Texas. The Ardurra Group of companies dates to 1950, furnishing engineering consulting and construction management services to municipal and government agency clients. Ardurra's disaster recovery division specializes in disaster planning, mitigation, recovery and federal funds management. We have a proven history of rebuilding infrastructure and communities – bringing **lessons learned from 27+ federally-declared disasters and \$20B in recovery programs** throughout the US. This includes extensive post-disaster rehabilitation work in coastal regions using multiple funding sources and that must adhere to strict FEMA's PA, 404 and 406 HMGP, HUD CDBG-DR, FHWA-ER, USDA Emergency Watershed Program, Community Disaster Loan, National Flood Insurance Program and Natural Resources Conservation Service (NRCS) as well as other state and federal agency guidelines.

Ardurra's 450+ professional and technical staff throughout the US includes FEMA and HUD subject matter experts; professional civil, structural, transportation, environmental, mechanical and electrical engineers; architects; environmental scientists; geologists; ecologists; surveyors; GIS professionals; land planners; certified construction managers; and water and wastewater plant operators.

Hurricane Harvey Recovery Efforts and CDBG-MIT. Since Harvey hit in 2017, Ardurra has been on the ground in cities and counties throughout Texas, assisting our clients with emergency repairs, facility damage assessments, grant application and management, environmental services, design, hazard mitigation and overall program compliance — to date we have managed \$2.5B in Harvey FEMA funds. We understand the funding flows and have established relationship with FEMA, HUD and Texas GLO. We know WHERE the funding sources are, WHEN they become available, and HOW to access — which is critical to maximize reimbursement. We have helped clients use combinations of regular FEMA PA funds, 406 Hazard Mitigation funds, and CDBG-DR funds to recover AND rebuild more resilient and more functional facilities. **Our HUD CDBG Subject Matter Experts have been tracking the CDBG-MIT program and have an excellent understanding of the program's intent, opportunities, restrictions and rules that must be adhered to.** We welcome this opportunity to assist the District to maximize all available funding mechanisms.



We Know the Local Landscape. We have worked with Galveston County and the City of Galveston for 15 years furnishing engineering and disaster recovery services. Our proposed program manager, Nick Foster, served as project coordinator for the Galveston County \$65M CDBG-DR recovery program following Ike. He assisted public officials to ID eligible projects and prepared grant applications; served as liaison to the Texas GLO; supervised delivery and compliance for \$65M in construction projects including the total replacement of all waterlines within the District service area as well as all of the roads within the adjacent neighborhood.

Ardurra is currently working with the Texas GLO in varying capacities and we are working in Houston, League City, Port Arthur and Beaumont on Harvey recovery efforts. For Port Arthur, we prepared preliminary engineering for over **80 individual projects totaling \$200M and assisted the City to secure \$30M in FEMA 404 funds** to be utilized on flood-proofing electrical buildings, civic center, City hall and municipal theater and for improvements to City infrastructure. We assisted Beaumont to identify **8 FEMA 404 applications totaling \$22.6M** including 5 building flood proofing projects, 2 increased capacity of mitigated space for buildings projects and 1 new drainage pump station. We are currently assisting TX GLO with **development and review of FEMA and CDBG-DR compliant environmental services.**

Hazard Mitigation, Engineering Assistance and Alternative Funding Sources. In the last ten years, Ardurra has managed 30+ recovery programs. We have assisted our clients to develop 404 and 406 hazard mitigation opportunities and identify and secure additional, alternative funding opportunities to repair and rebuild their facilities in a more resilient and functional manner. By providing grant management and engineering staff experienced in FEMA policy, Ardurra can develop highly effective scope of works and cost estimates for repair and hazard mitigation of damaged facilities. With recent shifts in FEMA policy to allow greater acceptance of scope of work and cost estimates as stamped by the applicant's engineers, this expertise has been essential to achieving our clients' goals. Ardurra further leverages this expertise through our knowledge and use of FEMA's alternative funding mechanisms such as the 428 Program which allows the use of FEMA funds to rebuild damaged infrastructure differently, rather than simply replacement in kind. Rebuilding systems in a different manner can often result in more effective and more resilient infrastructure.

Disaster Related Engineering Capabilities. For 15 years Ardurra has been furnishing post disaster assessment, design, construction and federal funds management services to harden wastewater, water and drainage facilities, streets & bridges and levees, floodwalls and floodgates and to repair and restore shorelines. We have assisted our clients to develop 404 and 406 hazard mitigation opportunities and identify and secure additional, alternative funding opportunities to repair and rebuild their facilities in a more resilient and functional manner. We understand the specific issues involved in assessments, emergency repairs, design, construction and closeout services as they relate to state and federal authorities – we know the rules to ensure funding sources are not jeopardized and are maximized. **We offer the District 140 local staff (45 TX Registered Professional Engineers)** focused solely on water, wastewater, drainage and recovery projects in the region – more than any local competitor can claim.



We Understand CDBG-DR. When considering utilization of CDBG funds, the constraints on the funding need to be evaluated during the selection of projects. Particularly for infrastructure, the environmental clearance requirements could delay implementation and in some instances prevent the use of CDBG funds. Also, dependent upon disaster specific HUD guidance, the project may need to meet the urgent need or low to moderate income requirements, etc. Thus, proper screening of projects and needs is essential to determining the timely and successful implementation of CDBG funds for District projects.

Unmet Needs. We understand the importance of documenting unmet needs for the District. We have led multiple unmet needs studies throughout the nation. We understand the importance of demonstrating the actual needs and not relying completely on FEMA and SBA data. The better the unmet need can be documented, the better chance you will receive the appropriate funds from the State. The first role of the team will be review of the State Unmet Needs Report with you to determine any deficiencies in the State's analysis. The team will then collect appropriate data to provide the District with a more realistic analysis. This assessment can assist with requests for additional funding where gaps exist. In your case, this may be better establishing the uninsured damages to homes throughout the District.

The unmet needs assessment must draw the picture and set the road map to where the limited HUD funds should be used to best recover from the flooding and storm conditions. It is important to have a clear understanding of the needs and all the resources that will be used to recover from the disaster. This will reduce any duplication of benefit and best utilize all available resources.

Low to Moderate Income (LMI) Compliance. As with all HUD programs, the majority of the funding must benefit LMI families. The metrics of this requirement must be well documented. We can help ensure the District's needs are aligned with key State LMI and other key programmatic compliance to better their funding success.

Environmental Review & Compliance. Each FEMA and HUD project must comply with hundreds of regulations. For example 24 CFR Part 58 (HUD Environmental Regulations) in particular, is a regulation that can force you to return all funds spent on a project if certain rules were not followed. In addition, Congress has simplified the process allowing governments to use another agency's Environmental Review (ER), however there are strict processes that must be adhered to remain in compliance with HUD. Ardurra's staff has completed thousands of HUD compliant ERs. When requesting funds it is important to know how the environmental compliance process may impact the projects implementation.



Labor Compliance, Particularly Davis Bacon and Related Acts (DBRA). Labor compliance is the second major category in which HUD will force you to return funds if a project is out of compliance. Complying with DBRA requires up front technical assistance and continued monitoring throughout the program. We can review all construction contracts to ensure the appropriate language for Davis Bacon, EEO labor compliance and federal requirements are included. Labor compliance is monitored by the weekly payroll review process and periodic site visits. These measures will enhance program quality and eliminate any variation of unsatisfactory performance. We will use the recent HUD guidance on the crosscutting rules for DBRA. These rules pertain to using CDBG when funding the match for FEMA projects in most cases. Knowing the rules, as this team does, provides insight for some flexibility of DB depending on when the project was completed.

Documentation for CDBG-MIT Funded Activities. Understanding close-out is critical and one cannot close out a file without a good file system. Regardless if the system is a hard copy system or electronic system, there are specific files that must be retained. Understanding the proper documentation requirements is key responsibility in administering CDBG funds.

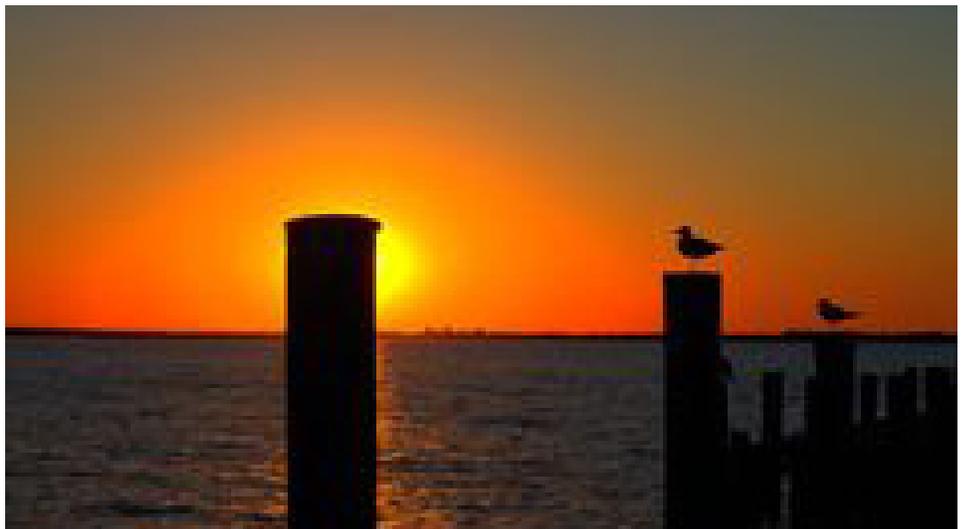
Planning, Administration & Implementation of Eligible CDBG Activities per 24 CFR 570. Ardurra's proposed staff have managed billions of HUD CDBG-DR funds. Members come from HUD, State CDBG Agencies, CDBG Entitlement Agencies and non-profits. We have implemented single family and multifamily housing rehabilitation, reconstruction and new construction; acquisitions; buyouts; infrastructure; FEMA match; FEMA global match; economic development; workforce training; agriculture and many hybrid programs to meet the needs of the disaster to get people back in the homes or back to work as quickly as possible. In each of these programs, we have developed and implemented - Policies, Procedures, Guidelines, Compliance Tools and Reports.



HUD Requirements for Infrastructure & Public Infrastructure Including FEMA PA Match Programs. CDBG is the only federal program that allows their funds to be used as the non-federal match. It is very important to develop programs to allow quick reimbursement of these funds back to the local government. The District needs to assess if this is one of their critical needs.

HUD Requirements for Economic Development. Economic Development may be some of the hardest projects to develop under a disaster program. This team has created hundreds of different economic development programs – from job retention to job creation and agriculture programs that are eligible under economic development. Understanding the constraints will be critical to convey any of these needs for the District.

HUD Requirements for Calculating Duplication of Benefits, Stafford Act. In a disaster program, it is required to verify duplication of benefits. It is important to begin early getting data agreements with the major players such as FEMA, SBA and insurance companies. It is not good enough just to say the program checked for DOB. It is important to document that efforts were made and other forms of assistance have been verified. Most people believe that DOB is a reduction of benefits. When done correctly, in many cases, you can show that the other funds were already used for the correct purposes and a reduction does not occur. In other cases, such as in contractor fraud or when the insurance company requires a homeowner to use the money to pay off the debt, these costs do not have to reduce the award available for the project. This team has created policies for DOB and have managed every programs (billions of HUD dollars) in reviewing to assure no DOB occurred.



PROPOSAL - QUALIFICATIONS & EXPERIENCE

Recovery Experience. Ardurra’s proposed staff have unmatched expertise in recovery program management to include Pre Award and Post Award Services, Engineering Advisory, Hazard Mitigation, Infrastructure Assessment and Design as well as Acquisition services. Project experience includes...

PROJECT	FUNDS MANAGED	SERVICES PROVIDED							
		Pre Award Services - Damage Assessm't, Engineering, Hazard Mitigation Opps, Scope Dvprmt, Grant Application Development	Pre Award Services - Grant Admin, Compliance, Financial Mgmt, Documentation Mgmt, Owner's Rep for FEMA, HUD, GLO etc.	Environmental Documentation & Compliance	Infrastructure (Drainage, Water, Wastewater, Roads)	Hazard Mitigation, HMGP, FEMA		Acquisition	
						404	406		
City of Port Arthur, Harvey Recovery	\$80M FEMA, CDBG-DR	X	X	X	X	X	X		
City of Beaumont, Harvey Recovery	\$50M FEMA, CDBG-DR	X	X	X	X	X	X		
City of League City TX Harvey Recovery	\$10M FEMA, CDBG-DR	X	X	X	X	X	X	X	
City of Pearland TX Harvey Recovery	\$5M FEMA, CDBG-DR	X	X	X	X	X		X	
City of Seabrook TX Harvey Recovery	\$5M FEMA, CDBG-DR	X	X	X	X	X	X		
City of Humble TX Harvey Recovery	\$5M FEMA	X	X	X	X	X			
City of Houston Harvey Wastewater Plant Recovery	TBD	X	X	X	X	X	X		
City of Mont Belvieu TX Harvey Recovery	\$5M FEMA	X	X	X	X	X	X		
Texas General Land Office Harvey Env Services	\$10M FEMA	X	X	X	X	X	X		
Gulf Coast Water Authority TX Harvey Recovery	\$70M FEMA, CDBG-DR	X	X	X	X	X	X	X	
Fort Bend MUD 25 TX Harvey Recovery	\$5M FEMA	X	X	X	X	X	X		
Porter SUD TX Harvey Recovery	\$5M FEMA	X	X	X	X	X			
Houston TX Harvey Damage Assessments	\$20M FEMA	X	X	X	X	X	X	X	
Harris County Unmet Needs TX Harvey Recovery	\$5.5M FEMA	X	X	X	X	X	X		
City of Galveston Wastewater Plant Ike Recovery	\$75M FEMA	X	X	X	X	X	X		
NY Bay Park Wastewater Plant Sandy Recovery	\$810M FEMA	X	X	X	X	X	X	X	
Nassau County NY Sandy & Irene Recovery	\$1.6B FEMA, HMGP, USDA CDBG-DR, FHWA, NY EFC, EFC-SMLP	X	X	X	X	X	X	X	
Sea Gate NY Superstorm Sandy Recovery	\$30M FEMA, CDBG-DR	X	X	X	X	X	X		
St Bernard Parish LA Katrina/Rita Recovery	\$1.5B FEMA, CDBG-DR	X	X	X	X	X	X	X	
Louisiana Hazard Mitigation Grant Program	\$750M HMGP	X	X	X	X	X	X	X	
Livingston Parish LA Sheriff's Office Flood Recovery	\$12M FEMA, CDBG-DR	X	X	X	X	X	X		
East Baton Rouge Parish Flood Recovery	\$13M FEMA, CDBG-DR	X	X	X	X	X	X		
Cameron Parish LA Hazard Mitigation	\$35M FEMA, CDBG-DR	X	X	X	X	X	X	X	
St Johns County FL Matthew Recovery	\$100M FEMA, CDBG-DR	X	X	X	X	X	X	X	
New Hanover County NC Florence Recovery	\$20M FEMA, CDBG-DR	X	X	X	X	X	X		
Pender County NC Florence Recovery	\$20M FEMA	X	X	X	X	X	X		
Craven County NC Florence Recovery	\$20M FEMA	X	X	X	X	X	X		
City of Sumter SC FEMA Flood Recovery	\$6M FEMA	X	X	X	X	X	X	X	
East Richland County SC Flood Recovery	\$8.3M FEMA, CDBG-DR	X	X	X	X	X	X	X	



GCWA HURRICANE HARVEY FACILITY ASSESSMENTS AND RECOVERY SERVICES

Following Hurricane Harvey, Ardurra was selected to furnish emergency damage assessment of GCWA facilities – many in locations with limited access. Ardurra's scope of work included a summary of damages report; engineering advisory services; FEMA PW development; development of expedited Cat B PW; HMGP applications; validation of force account equipment labor and materials; and hazard mitigation. Ardurra prepared FEMA documentation to include scope of work, cost estimates and hazard mitigation activities for damages to three major water supply intakes and pumping stations, two water supply reservoirs, 50 MGD water purification plant and 300 miles of water supply canals.

Critical activities included detailed assessments of the Briscoe, May and Shannon Pumping Plants. With a combined capacity in excess of 100 MGD which are critical to GCWA's function. The assessments included establishing damages and repairs required to the intake structure, upstream and downstream wingwalls and embankments at the Shannon Pumping Plant and Palisades and embankment repairs at the Briscoe and May Pumping Plants. Also, detailed damage assessments were provided for approximately 300 miles of transmission canals, the Mustang Reservoir and the 50 MGD Thomas S. Mackey Water Treatment Plant (WTP). Ardurra assisted with the development of unique repair and hazard mitigation scope of works for each of these locations as further described below.

Ardurra followed up with conceptual design and project management services for repair of riverbank slope failures and Palisade system failures repair of the May and Shannon Intake Pumping Stations.

Hazard Mitigation and Alternative Funding Sources. Ardurra has assisted GCWA to leverage available hazard mitigation funding to include FEMA's 428 program and other improved project programs to enhance the long-term resiliency of GCWA infrastructure. Activities include:

- Working with FEMA and GCWA to gain approval of a comprehensive re-design of critical water supply intake at the 100 MGD Shannon Pumping Station to prevent future damage. This severely damaged structure would be rebuilt as an off-channel inlet to eliminate damages from any future severe flooding on the Brazos River. Although still under review, it appears Ardurra has helped obtain initial approval to have the entire intake replaced utilizing an off-channel inlet.
- Developed conceptual repair report to assist with pursuit of improved project to use existing funds to repair, provide hazard mitigation and provide additional storage for the Mustang Reservoir, maximizing its ability to mitigate both hurricane and potential drought impacts to GCWA.
- Developed proposal under FEMA 428 Program for 300 miles of water transmission canals, focusing on most critical and vulnerable components of the system. By focusing on erosion protection of control structures, proposal should protect against severe system failures during future events of Harvey magnitude.
- For Mackey WTP assisted to gain initial FEMA approval for replacement of one of the existing electrical transmission lines. Also assisted to gain initial approval to use trench box system as a less cost alternative to replacing the electrical cable and conduit in kind.

Date: 2017 - 2018

Staff Involved: Taffaro, Canonico, Faschan, Nelson, Foster

Client Contact:

James Vanderwater - District Engineer
(409) 935-2438
jvanderwater@gcwater.org



PROJECT HIGHLIGHTS



- Developed conceptual hazard mitigation approaches to natural hazards to obtain FEMA funding for major water intake and pumping facilities (>100 MGD), water supply transmission canals, major reservoirs and 50 MGD Water Treatment Plant.
- Assisted with obtaining FEMA grant funding and developing methods to maximize the use of funding to improve and harden GCWA facilities through use of FEMA's 428 program and improved project alternatives.



CITY OF PORT ARTHUR HURRICANE HARVEY RECOVERY PROGRAM MANAGEMENT, 2018-ONGOING

Harvey resulted in flood damage to almost all of the City’s public structures as well as drainage conveyance systems. The City selected Ardurra to furnish disaster recovery program management services to assist with FEMA and CDBG-DR grant management and administration. Ardurra’s work included damage assessments; project development including scope of work and cost estimates; preparation of PW’s; engineering advisory services; preliminary engineering; grant management; overall compliance; and closeout. To date Ardurra has prepared preliminary engineering for over 80 individual projects totaling approximately \$200M.

Hazard Mitigation and Alternative Funding Sources. Ardurra assisted the county to identify hazard mitigation opportunities to include FEMA 406 and 404 strategies. Ardurra assisted the City to secure \$30M in FEMA 404 funds to be utilized on flood-proofing electrical buildings, civic center, City hall and municipal theater and for improvements to City infrastructure. Infrastructure projects included a new raw water pump station as well as drainage capacity improvements and improvements to the water clarifier improvement to increase processing capacity to move water through treatment system.

Date: 2018 - Ongoing
Staff Involved: Taffaro, Faschan, Canonico, Foster, Nelson
Client Contact:
City of Port Arthur
Ron Burton, City Manager
(409) 983-8135

PROJECT HIGHLIGHTS



- \$80M program
- Strategic planning
- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406

CITY OF LEAGUE CITY HARVEY CDBG-DR NON-HOUSING RECOVERY PROGRAM, 2018-ONGOING

Ardurra is furnishing CDBG-DR grant management and administration services for non-housing CDBG-DR projects. Ardurra’s responsibilities include coordination with the City and GLO, program and project compliance as well as pre- and post-funding services. Pre-funding services include development of project scope and completion of CDBG-DR application and related documents. Post-funding services include grant admin, compliance and closeout of all infrastructure, acquisition and eligible projects approved for CDBG-DR funding.

Ardurra project managers integrated seamlessly with League City staff to review eligibility and create project applications. League City focused on a variety of Drainage Projects to recover from Hurricane Harvey and Ardurra created the rationale for meeting required National Objectives. In addition to reviewing HUD eligibility of projects, Ardurra’s engineers we able leverage their local engineering experience for project feasibility, permitting and scheduling.

Date: 2018 - Ongoing
Staff Involved: Taffaro, Faschan, Canonico, Foster, Nelson
Client Contact:
City of League City
John Baumgartner, City Manager
(281) 554-1414

PROJECT HIGHLIGHTS



- Financial mgmt
- Grant mgmt
- Hazard mitigation
- CDBG-DR, FEMA 404 & 406

CITY OF BEAUMONT HURRICANE HARVEY RECOVERY PROGRAM, 2019-ONGOING

Ardurra was selected to provide FEMA HMGP grant application and administration services and overall recovery assistance to the City of Beaumont. Ardurra assisted the City to identify eight FEMA 404 applications totaling \$22.6M. This includes five building flood proofing projects, two increased capacity of mitigated space for buildings projects, and one new drainage pump station. Projects proposed for FEMA 404 funding iwth a 75%/25% cost share with City include:

Date: 2017 - Ongoing
Staff Involved: Taffaro, Faschan, Canonico, Foster, Nelson

PROJECT HIGHLIGHTS



- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406

- Water Treatment Plant Electrical Bldg Floodproof - \$51K
- Civic Center Flood Proofing - \$292K
- City Hall Flood Proofing - \$198K
- Jefferson Theater Flood Proof - \$89K
- Point of Distribution Warehouse Flood Proof - \$864K
- Water Treatment Plant Chemical Storage Tank - \$761K
- Chemical Building Improvements - \$360K
- New Raw Water Pump Station - \$19,518K



NASSAU COUNTY NY HURRICANES SANDY AND IRENE RECOVERY PROGRAM MANAGEMENT

Ardurra is serving as program manager providing recovery assistance and expert advisory services to the county. Funds secured and managed to date exceed \$1.6B. Ardurra scope of work included advisory services related to FEMA, HUD CDBG-DR and multiple funding mechanisms; grant management and administration; damage assessments; engineering support; debris management and oversight; financial tracking and data management; procurement support; and development of federally compliant contracts. Facilities affected include fire stations, public safety facilities, parks & recreation facilities, various buildings and equipment, roads and bridges, shoreline, utilities, water control structures and sewage treatment plant. Ardurra has overseen the development of over 115 PWs, 10 FEMA HMGP 404 grant applications, 16 DDIRs with FHA and other disaster grants. Ardurra is administering \$853M in PW that are in the FEMA Public Assistance Alternative Procedures (PAAP) that allow for extended coverage in Mitigation as well as Alternate Project scopes. The program started with 65 PW - Ardurra's staff assisted the County to develop 50 additional PW totaling \$777M.

Six Funding Sources

Ardurra identified five additional funding sources (in addition to FEMA) and is currently managing these projects. Sources include HUD CDBG-DR, Federal Highway Administration, US Department of Agriculture, NY Environmental Facilities Corp., NY Environmental Facilities Corp. Storm Mitigation Loan Program.

Hazard Mitigation and Alternative Funding Sources

Bay Park Sewage Treatment Plant. Ardurra was instrumental in securing funds for the largest single project ever funded by FEMA through the 428 program – the \$810M Bay Park STP. Ardurra key staff worked closely and tirelessly with the County, Senator Chuck Schumer, Governor Andrew Cuomo, and Director of FEMA Craig Fugate both in the State of New York and through visits to Washington DC. Ardurra is currently working with FEMA, Nassau County, NYDHSES and the Governor's Office of Storm Recovery to implement the FEMA and HUD funds.

Ardurra developed new protocols for the \$830M FEMA 428 funds being utilized on the Bay Park STP. Ardurra was integral to the implementation of two major program policies that give the County greater control and oversight of their awarded funds – 1. Proposing that the entirety of the 10% match be accounted for in one contract, as opposed to 10% of each contract; and 2. Advocating for the use of advanced funding from the Dept of Homeland Security and Emergency Services.

Ardurra's team put forth the idea that one project large enough to cover the \$81M cost of the 10% Match would be a more efficient and auditable way to account for the funds. We argued that this setup would create a clean break between the FEMA and HUD funds and allow for better cash flow and cash management of each. Further, the regulations for the HUD funding (MWBE, Section 3, etc.) would be compartmentalized into one contract and therefore would be simpler to manage and document. Ardurra's standpoint was adopted and the Phase E3 (E3) electrical contract was selected to serve as the 10% Match. This project works on a reimbursement basis from GOSR while the remainder of the \$810M is funded completely by FEMA.

Date: 2013 - Ongoing

Staff Involved: Taffaro, Faschan, Foster, Simmons, Boehning

Client Contact:

Nassau County Public Works
Roseann D'Alleva, Deputy Commissioner
(516) 571-9604

PROJECT HIGHLIGHTS



- \$1.6B program
- Strategic planning
- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406



ST. JOHNS COUNTY FL HURRICANES MATTHEW AND IRMA DISASTER RECOVERY PROGRAM MANAGEMENT

St Johns County selected Ardurra to serve as program manager for this recovery program. Hurricane Matthew caused surge heights of more than seven feet in several coastal areas causing storm damage to roads, bridges, drainage infrastructure, fire stations and other permanent infrastructure. Impacts to existing beaches and associated debris generation were a substantial portion of the impacts to the County. Ardurra's scope of work includes FEMA and HUD CDBG-DR advisory services as well as debris removal oversight. Ardurra's responsibilities include review and management of all eligible Cat A and B activities and all needed permanent repairs for Cat C through G, including HMGP. This included approval of \$100M of repairs to roads, bridges and sand dunes throughout the County. As it relates to debris, Ardurra is responsible for oversight to ensure eligibility, assist with PW preparation and reimbursement and in general provide QA/QC of the activities performed.

Hazard Mitigation and Alternative Funding Sources

Ardurra assisted the county to identify hazard mitigation opportunities and developed hazard mitigation and resilient recovery approaches. Two critical efforts for the county involved hazard mitigation of Old Route A-1-A at Summer Haven North and South and effective restoration of their beach dunes.

Old Route A-1-A. At Summer Haven North Ardurra proposed storm drain piping from the landward side of the roadway to the beach side to prevent scour in future events, extension of sheet pile system and elevation of the existing roadway by 1.5 feet. Also, changes from asphalt to concrete was recommended. At Summer Haven South, Ardurra assisted with approval of a bolstered protective dune for this location and addition of increased vegetation as hazard mitigation measures.

Beach Dunes. Ardurra conducted a variety of preliminary beach damage assessments; developed preliminary reach-by-reach mitigation alternatives; coordinated with federal and state disaster recovery agencies for beaches county wide; participated in meetings with local stakeholder groups; and participated in county's seawall permitting workshops.

The preliminary damage assessments consisted of visual observations of six sections of beach. Using these observations, Ardurra provided the county with a range of beach sand volume losses and replacement costs, which formed the basis for damage estimates reported to FEMA. At the request of the county, a white paper was prepared describing what actions could be taken and identified various federal and state cost share partners to provide emergency and/or long-term protection to the entirety of the county beaches.

Date: 2016 - Ongoing
Staff Involved: Taffaro, Faschan, Foster, Simmons
Client Contact:
St. Johns County
Joe Giammanco, Purchasing Manager
(904) 209-0152

PROJECT HIGHLIGHTS

- \$100M program
- Strategic planning
- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406



FORT BEND COUNTY MUD 25 HURRICANE HARVEY RECOVERY PROGRAM

Ardurra serves as program manager for this District which serves 15,000 residents. Ardurra develops, designs, manages and oversees \$10M in construction/year. Projects range from water and wastewater plant improvements, park improvements, hydrologic improvements to Oyster Creek and Red Gully, rehabilitation of aged underground water, storm and sanitary systems. Following Harvey, Ardurra furnished recovery and grant management services to maximize the funding for repair and mitigation for damaged facilities. Ardurra's scope of work included damage assessments; project development including scope of work and cost estimates; preparation of PW's; engineering advisory services; preliminary engineering; grant management; overall compliance; and closeout.

Ardurra prepared design for WWTP's No 1 and 2. WWTP No 1 included submersible influent pumps, mechanical fine screen/screenings wash press, centrifuge feed pumps and new RAS/WAS pump stations. Improvements at both plants included digester piping improvements; aeration DO and TSS probes, pH sensors and chlorine residual analyzers at the chlorine contact basins, and replacement of valves and gates to improve operation.

Hazard Mitigation and Alternative Funding Sources

Hazard mitigation projects included new outfalls in Oyster Creek as elevated flows with the flood control channel eroded the banks near 15 District structures which required emergency shoring and repair. Mitigation projects for each of the outfalls will be implemented with a combination of FEMA PA, 406 mitigation and 404 funds from TDEM.

Date: 2016 - Ongoing
Staff Involved: Canonico, Taffaro, Faschan, Nelson
Client Contact:
FBC MUD 25
Mary Hayes, Executive Assistant General Manager
(281) 207-5300

PROJECT HIGHLIGHTS



- Strategic planning
- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406

CITY OF MONT BELVIEU HURRICANE HARVEY RECOVERY PROGRAM

Ardurra served as program manager to assist with FEMA and CDBG-DR grant management and administration. Ardurra's work included damage assessments; project development including scope of work and cost estimates; preparation of PW's; engineering advisory services; preliminary engineering; grant management; overall compliance; and closeout. Ardurra prepared bid packages for the City administration building interior repairs and roof repair projects.

Hazard Mitigation and Alternative Funding Sources

Ardurra also assisted the City to develop a 428 project to decommission three sewer lift stations, damaged by floodwaters, and replace them with new gravity sewer. Ardurra developed cost estimates for restoration of the existing lift stations in kind, assessed the availability of FEMA 406 hazard mitigation funds, and confirmed the availability of FEMA funding. Once the available funding was confirmed, Ardurra developed the 428 project to be completed in lieu of repair and hazard mitigation of the damaged lift station components. Ardurra prepared a FEMA HMGP 404 application for the lift station decommissioning and new gravity sewer described in the previous paragraph to supplement the overall funding available to complete the alternate project.

Date: 2018 - Ongoing
Staff Involved: Faschan, Taffaro, Canonico, Peters, Nelson, Foster
Client Contact:
City of Mt. Belvieu
Ricardo Villagrand PE, Community Development Director
(281) 576-2213 x232

PROJECT HIGHLIGHTS



- Strategic planning
- Financial Management
- Grant Management



EAST RICHLAND COUNTY SC FLOOD RECOVERY PROGRAM MANAGEMENT

Ardurra was selected to assist East Richland County Public Service District with debris removal and emergency repairs to public infrastructure. Infrastructure sustained significant flood damage including road washouts, extensive sewage collection system damage, dam breaches and debris and electrical damage to the Gills Creek wastewater treatment plant and Quail Lane pump station. Ardurra's work includes preliminary damage assessments; oversight of temporary emergency repairs to roadway, dams, water and wastewater facilities; project development including scope of work and cost estimates; preparation of PW's; engineering advisory services; grant management; overall compliance and closeout.



Hazard Mitigation and Alternative Funding Sources

Ardurra assisted to identify hazard mitigation opportunities encompassing FEMA 404 & 406 Hazard Mitigation, HUD CDBG-DR and State Revolving Loan funds. Ardurra identified \$3M in FEMA funds through additional engineering evaluation to uncover additional damage of buried 42" and 54" diameter sewer mains. These funds were

combined with available State Revolving Loan funds to construct a new 60-inch diameter sewer main to prevent future damages and better serve the District. Ardurra assisted the district to pursue three 404 grants to rebuild and raise a critical access road to their main treatment plant, harden and hazard mitigate multiple sewer lift stations and re-route an additional gravity main out of the existing floodplain.

Date: 2015 - 2017

Staff Involved: Faschan, Simmons, Boehning

Client Contact:

East Richland County PSD
Larry Brazell, Executive Director
(803) 788-1570

PROJECT HIGHLIGHTS



- \$8.3M program
- Strategic planning
- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406

SEA GATE NY SUPERSTORM SANDY AND HURRICANE IRENE RECOVERY PROGRAM

Ardurra was selected to furnish grant program management and construction management services for this community which incurred severe storm damage to their police/public safety building, a major sea wall and virtually the entire sewer system. Ardurra's scope of work includes damage assessment, engineering advisory, PW development, grant application/management, admin and compliance, design and construction oversight and hazard mitigation services. Ardurra is also assisting with procurement of professional services and development of federally compliant contracts. Ardurra has assisted with the approval of ~ \$30M of available funding.

Hazard Mitigation and Alternative Funding Sources

Ardurra assisted to identify hazard mitigation opportunities for the sea wall and its sewer system as follows:

- **Sea Wall.** An existing sea wall that protects the entire community is in poor condition but not eligible for regular FEMA PA funds from Sandy. The condition of the sea wall leaves the entire community vulnerable to flooding from future storm surges if left as is. Ardurra assisted Sea Gate to develop a 404 Hazard Mitigation application and is working with the State to obtain \$2.8M in funding to rebuild the sea wall to protect from future events. This included providing conceptual engineering and Benefit Cost Analysis to obtain approval of the project and detailed engineering upon project approval.
- **Sewer System Replacement.** Close to the entire combined sewer system was damaged by Sandy. Ardurra assisted with the detailed damage assessment of the entire system, including assistance to obtain approval for various hazard mitigation measures - changes in pipe material from vitrified clay to cast iron and full pavement replacement at damage locations.

Date: 2016 - Ongoing

Staff Involved: Faschan, Taffaro, Nelson

Client Contact:

Sea Gate Association
JoAnna Crowe, Community Manager
(929) 275-4518

PROJECT HIGHLIGHTS



- \$30M program
- Strategic planning
- Financial mgmt
- Grant mgmt
- Hazard mitigation
- FEMA 404 & 406



TEXAS GENERAL LAND OFFICE HARVEY RECOVERY ENVIRONMENTAL SERVICES

Texas GLO selected Ardurra for all encompassing environmental services related to Harvey recovery programs and projects throughout Texas. Ardurra's services include:

- Preparation of environmental compliance documentation and review of documentation completed by other entities and consultants, including completed Environmental Review Records (ERR)
- Preparation and review of Environmental Site Assessments (ESA), Environmental Assessments (EA) and Categorical Exclusions (CEST) in compliance with related federal laws and authorities (24 CFR 50.4, 58.5, and 58.6.)
- Preparation and review of Tier I Broad Reviews for accuracy and to confirm they complied with HUD Tiering regulations found at 24 CFR Part 58.15.
- **Screening of Applicant Information** - reviewed applicant provided information including Environmental Questionnaire and Project Narrative, Site Plans, existing Phase I ESAs and other information as provided to confirm the degree of environmental and Phase I ESAs activities proposed for each site.
- **Site Designated for CEST** – review of files to assess if any substantial new ground disturbance due to rehabilitation, reconstruction or construction is proposed for the site. Also, assessing the site for potential historical significance. If present, a recommendation to provide an EA in lieu of an CEST is made.
- **Site Designated for EA** – review to confirm that new ground disturbance or other potential significant impact to natural or historic resources will occur. If none is apparent, a recommendation to provide a CEST in lieu of an EA is made.
- **Sites Requiring Phase I ESAs** – review of sites to establish if a previous Phase I ESA has been completed within six months. If not a new Phase I ESA will be completed, and any previous Phase I ESA utilized as reference material as appropriate. If a Phase I ESA has been completed within the last six months, the document will be reviewed for compliance with ASTM E-1527-13. If compliant, the GLO will be notified that a Phase I ESA will not be required for this site.
- **Scattered Sites** – Review of proximity of sites to establish if one environmental clearance and Phase I ESA will suffice. Sites greater than 2,500 feet apart will require more than one Phase I ESA and CEST/EA. An additional CEST/EA may be required for sites closer than 2,500 feet dependent on the activity being performed at each site.
- **Project Advertisement**– Ardurra complies with 24 CFR Part 55, Subpart C- Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. If the project site was located within or will impact a 100-year floodplain as identified by FEMA, then HUD's Floodplain Management Regulations 8-Step Decision-Making Process (8-Step) of §55.20 is conducted. If the proposed project site is located in a 100-year floodplain and/or a wetland, Ardurra notifies public and applicable agencies at the earliest possible time to involve the public, and relevant regulatory agencies in the decision-making process.
- Upon completion of the CEST/EA and Phase I ESA, a notice is published that follow HUD protocols including Emergencies and Condensed Comment Periods (24 CFR 58.33(b)) as follows - CEST NOI/RROF- 7 days per 24 CFR 55.20(g)(2); EA NOI/RROF- 15 days per 24 CFR 55.20(b)(2); Combined or Concurrent Notices- 15 days per 24 CFR 58.45(c)

Date: 2016 - Ongoing

Staff Involved: Faschan, Nelson, Peters, Canonico, Simmons, Foster

PROJECT HIGHLIGHTS



- Work closely with GLO
- FEMA & HUD Compliance
- Env Assessments, Phase I ESA & Categorical Exclusions
- QAQC & Compliance



TAB 2

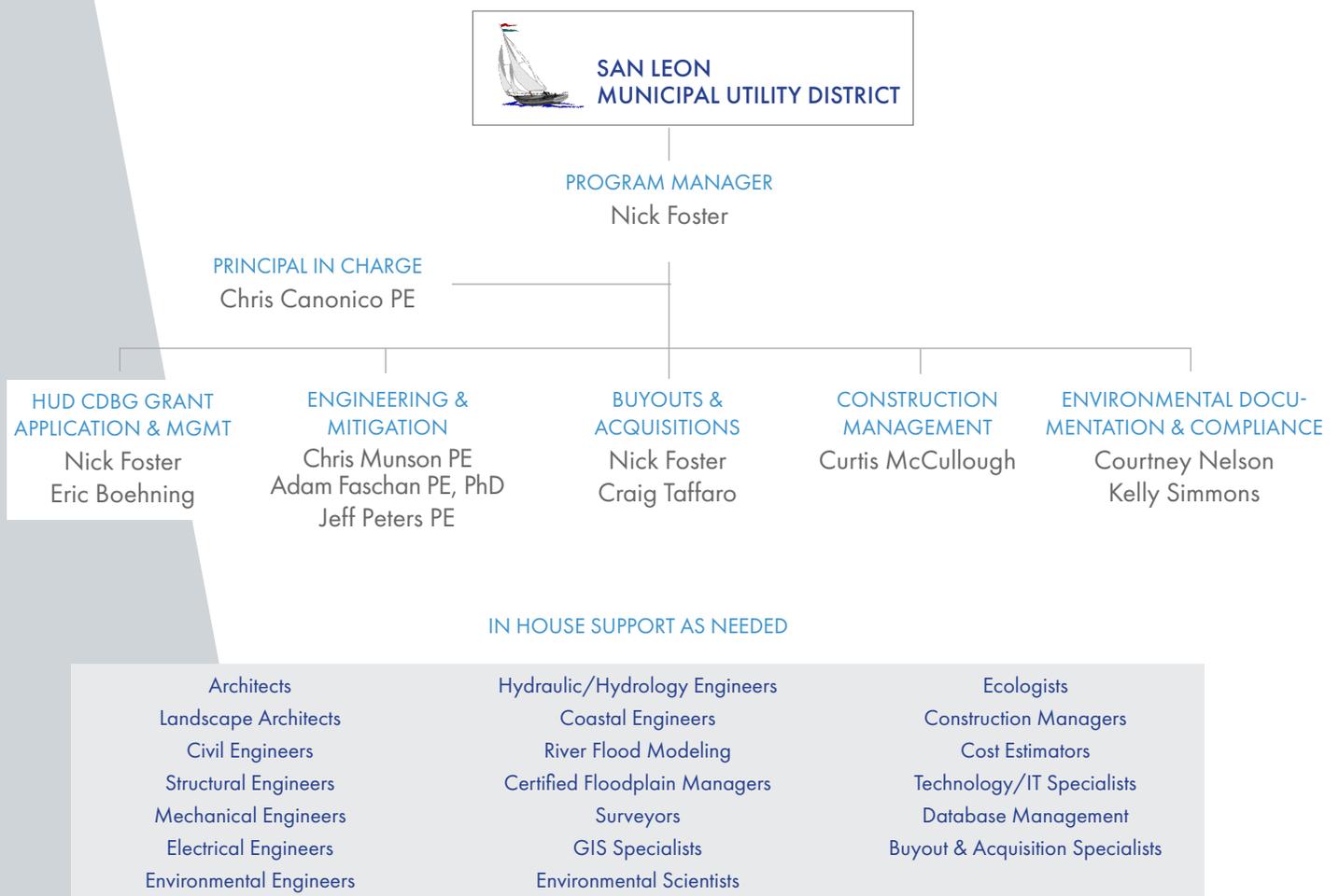
ORGANIZATION & RESUMES

2

PROPOSAL - ORGANIZATION & RESUMES

ORGANIZATION

Ardurra brings to the District a deep bench of local talent— Texas registered professional engineers, environmental specialists, disaster managers and hazard mitigation and HUD CDBG subject matter experts. *Since Hurricane Harvey, proposed staff have managed \$2.5B in FEMA and CDBG-DR recovery funding throughout Texas*, to include ongoing contracts with Texas GLO. From provision of damage assessments, emergency repairs and design for water/wastewater, drainage, roads and buildings, to grant funds management, FEMA and HUD CDBG advisory services and overall program support — Ardurra’s key proposed staff have a thorough understanding of recovery funding sources and compliance. We have excellent established relationships with GLO and FEMA Region VI. We also understand that it is critical to place the RIGHT staff in the RIGHT place for only the amount of time required. We know HOW to train and TRANSFER our knowledge, and WHEN to turn our job over to District staff. Ardurra’s proposed team:





Nick Foster

Program Manager, Grant Application & Management, Buy Outs & Acquisitions

Education

MA, Ancient History, Louisiana State University

BA, Cultural Geography, Louisiana State University

Years Experience

15

Nick has 15 years of experience with the implementation and administration of federal grant and construction programs with emphasis on HUD CDBG-DR. He is familiar with all aspects of CDBG including labor compliance issues such as Davis Bacon, project eligibility, grant applications, real property acquisition, environmental review and construction management. Nick assisted in the training, coordination, and implementation of several federally funded programs from Louisiana, Texas and Illinois. He remains abreast of the CDBG-MIT program, it's intent, parameters, restrictions and overall guide to implementation.

Relevant Experience:

Galveston County \$65M HUD CDBG Program, TX. Community Development Project Coordinator. Provided technical assistance to public officials for the identification of eligible projects. Responsible for the approval and installation of permanent emergency generators for Bolivar Peninsula SUD as well as several other projects benefiting Bolivar Peninsula. Provided expert guidance on CDBG regulations and applicability and served as liaison to Texas GLO. Developed grant applications; advised on applicability of proposed projects; and coordinating a team of engineers and GIS staff for the needs of application

completion. Led training sessions for the dissemination of HUD ethnicity and income data sets and presented application documentation for Commissioners Court approval. Supervised the delivery \$65M in HUD funds for construction projects responsible for the procurement, compliance and financial management of the infrastructure projects.

City of League City Hurricane Harvey CDBG-DR Acquisition and Non-Housing Recovery Program.

CDBG Advisor. Responsible for grant management and administration services for the City's acquisition and non-housing CDBG-DR projects. Responsibilities include coordination with City and Texas General Land Office, program and project compliance, as well as pre- and post-funding services. Pre-funding services include development of project scope and completion of CDBG-DR application and related documents. Post-funding services include grant admin, compliance and closeout of all infrastructure, acquisition and eligible projects approved for CDBG-DR funding.

Port Arthur Harvey Disaster Recovery Grant Management and Administration, TX.

Technical Advisor. Damage assessments, FEMA, HMGP and CDBG-DR grant program management and administration for \$100M in public infrastructure. Work includes public structures, drainage conveyance systems and roadways as well as FEMA 406 and 404 grants. Ardurra is managing grants and preliminary engineering for 80 individual projects. Ardurra assisted the City to identify five FEMA 404 projects totaling \$30M. Projects include 4 drainage capacity improvements and 1 water clarifier improvement to increase capacity to move water through treatment system.

City of Beaumont FEMA Public Assistance, 404 Mitigation, and CDBG-DR, Beaumont TX.

Technical Advisor. Damage assessments, environmental advisory, FEMA, HMGP and CDBG-DR grant management and hazard mitigation. Identified eight FEMA 404 applications totaling \$22.6M. This includes five building flood proofing projects, two increased capacity of mitigated space for buildings projects, and one new drainage pump station.

City of Sugar Land CDBG Entitlement Program, Sugar Land, TX.

CDBG Consultant. Managed City's CDBG program which included housing rehabilitation, public facilities and public services. Completed environmental assessments necessary for HUD approval and performed outreach for public service providers in order to foster better compliance with federal regulations. Wrote and submitted the Program Yr '08-'10 Consolidated Annual Performance and Evaluation Report and input Program Yrs '09-'11 CDBG activities and projects into HUD IDIS. Led public hearings to solicit comments regarding city action plan. Developed 2010 and 2011 Annual Action Plans.

Harris County CDBG-DR Program, Hurricane Ike, Harris County, TX. CDBG Consultant. Assessed needs for incorporated and unincorporated areas. Provided technical assistance to ID eligible projects. Led meeting for guidance on CDBG regulations and applicability. Supervised grant applications; project applicability of proposed projects; and coordination of team of engineers and GIS staff for the needs of application completion. Conducted training sessions for the dissemination of HUD ethnicity and income data sets and presented application documentation for client approval.



ARDURRA



Chris Canonico, PE
Principal in Charge

Education

MS, Environmental
Water Resources,
University of Texas
Austin

BS, Civil &
Environmental
Engineering, Duke
University

Registration

Professional
Engineer – Texas

Years Experience

24

Chris has 24 years of experience in environmental water resource engineering and disaster recovery programs. His project experience includes design of water, wastewater and drainage facilities throughout Texas. He served as project principal for \$2.5B in Harvey recovery work throughout Texas including ongoing contracts with Texas GLO. He has been actively involved in recovery work throughout the gulf coast region post Hurricanes Katrina, Rita, Ike and Harvey.

Relevant Experience:

Port Arthur Harvey Disaster Recovery Grant Management and Administration, TX. Project Principal. Damage assessments, FEMA, HMGP and CDBG-DR grant program management and administration for \$100M in public infrastructure. Work includes public structures, drainage conveyance systems and roadways as well as FEMA 406 and 404 grants. Managing grants and preliminary engineering for 80 individual projects. Assisted the City to identify five FEMA 404 projects totaling \$30M. Projects include 4 drainage capacity improvements and 1 water clarifier improvement to increase capacity to move water through treatment system.

City of Beaumont FEMA Public Assistance, 404 Mitigation, and CDBG-DR, Beaumont TX. Project Principal. Damage assessments, environmental advisory, FEMA, HMGP and CDBG-DR grant management and hazard mitigation. Identified eight FEMA 404 applications totaling \$22.6M. This includes five building flood proofing projects, two increased capacity of mitigated space for buildings projects, and one new drainage pump station.

Gulf Coast Water Authority Facility Assessments, Hurricane Harvey, Houston, TX. Project Principal.

This project included damage assessments, engineering, advising on validating force account, equipment, labor, PW development, grant application/ management, admin and compliance, conceptual design of repairs and construction oversight, hazard mitigation, close out work includes large pump stations, conveyance canals and reservoirs, and a water treatment plant for approximately \$40M to \$50M of construction. Ardurra is currently assisting GCWA with a conceptual assessment of the ability to raise the external embankments of the Mustang Reservoir utilizing soils from the existing wind breaks. This assessment is critical to establish both the technical feasibility and cost feasibility of utilizing available FEMA funding to develop this improved project.

Fort Bend County MUD 25 Harvey Recovery and Facility Assessments, TX. Project Principal. This project includes damage assessment, engineering advisory validating force account equipment labor & materials, PW development, grant management, admin and compliance, design & construction oversight, hazard mitigation and close out.

Emergency Facility Assessment Teams, Houston Wastewater Harvey Recovery, Houston, TX. Project Principal. This project involved the immediate evaluation of Houston wastewater treatment facilities and development of condition assessments and recovery recommendation plans.

City of Galveston \$75M Main Wastewater Treatment Plant, Galveston, TX. Project Principal. Improvements to the plant following Hurricane Ike including rebuilding and relocating the influent list station and grit removal system and changing to a submersible pump station design; rebuilding the existing biological treatment system with a new SBR, air diffusers and blowers; rebuilding the disinfection system and converting to UV disinfection; and necessary site work, stand-by power and modifications to the existing solids handling processes to accommodate gravity flow under 100 year (and appropriate storm surge) flood plain water surface elevation conditions.

City of Pearland / Reflection Bay Water Reclamation Facility Emergency Design-Build, Pearland, TX. Project Principal. This project includes a comprehensive analysis on City's wastewater treatment and collection system to determine what improvements need to be made to accommodate both a 10-year planning window of growth and development within the facility service area and the ultimate expected build-out of the service area.





Craig Taffaro

Buyouts & Acquisitions

Education

MS, Counseling
Psychology,
University of
Southwestern
Louisiana

Years Experience

20

Craig has 20 years of experience in public administration and disaster recovery grant management. He served as project director or program manager for \$3B in recovery programs throughout the gulf coast and remains abreast of developments and implementation of the CDBG-MIT program. He is currently involved in Harvey recovery efforts for the Cities of Port Arthur, Beaumont, League City and the Gulf Coast Water Authority. As Director of the State of Louisiana's Office of Community Development Disaster Recovery Unit HMGP, he was responsible for \$750M hazard mitigation program. As St Bernard Parish President, Craig was responsible for a \$65M annual operating budget and \$1.6B CIP

Relevant Experience:

Port Arthur Harvey Disaster Recovery Grant Management and Administration, TX.

Program Manager. Damage assessments, FEMA, HMGP and CDBG-DR grant program management and administration for \$100M in public infrastructure. Work includes public structures, drainage conveyance systems and roadways as well as FEMA 406 and 404 grants. Managing grants and preliminary engineering for 80 individual projects. Assisted the City to identify five FEMA 404 projects totaling \$30M. Projects include 4 drainage capacity improvements and 1 water clarifier improvement to increase capacity to move water through treatment system.

City of Beaumont FEMA Public Assistance, 404 Mitigation, and CDBG-DR, Beaumont TX. Technical Director. Damage assessments, environmental advisory, FEMA, HMGP and CDBG-DR grant management and hazard mitigation. Identified eight FEMA 404 applications totaling \$22.6M. This includes five building flood proofing projects, two increased capacity of mitigated space for buildings projects, and one new drainage pump station.

City of League City Hurricane Harvey Recovery, League City, TX. Subject Matter Expert. Responsible for identifying a successful recovery strategy related to FEMA/CDBG-DR/Insurance well after the disaster period had ended; overseeing PW development, implementation, and prepping projects to be closeout ready upon completion for claims; and identifying potential Hazard Mitigation opportunities.

Gulf Coast Water Authority Facility Assessments, Hurricane Harvey, Houston, TX. FEMA Technical Advisor for damage assessments, engineering, advising on validating force account, equipment, labor, PW development, grant application/ management, admin and compliance, conceptual design of repairs and construction oversight, hazard mitigation, close out work includes large pump stations, conveyance canals and reservoirs, and a water treatment plant for approximately \$40M to \$50M of construction. Currently assisting GCWA with hazard mitigation opportunities for riverbanks, pump stations and reservoirs.

Nassau County NY Superstorm Sandy FEMA & CDBG-DR Recovery, Nassau County, NY. \$1.6B. Project manager and closeout specialist performing all closeout tasks for FEMA PWs. Work includes coordination with admin and financial teams to gather invoices and all documents necessary as well as ensuring all vendors have been paid. Responsible for organization of all documents and ensuring compliance.

Hazard Mitigation Grant Program and Recovery Coordination, State of Louisiana OCD-DRUHMGP, New Orleans, LA. \$750M. Governor's appointee/Director. include directing a program of 250 team members; establishing policies and procedures; coordinating with State and Federal agencies and State and Federal Legislators to implement programs and resolve obstacles to program implementation; budget establishment and compliance. He also serves as a voting member on behalf of the State's Administration on Coastal Protection and Restoration Authority which oversees project selection and funding for an anticipated \$50B of restoration and protection activities over the next three decades.

Program Manager, St. Johns County Florida Hurricane Matthew Recovery, St. Augustine, Florida. \$300M. Program manager for this FEMA and CDBG-DR recovery program which includes extensively damaged roads, bridges, drainage infrastructure, fire stations and beach/waterfront areas. Responsibilities include review and management of all eligible Category A and B activities, and all needed permanent repairs for Category C through G. Assisting with hazard mitigation opportunities.



Eric Boehning

HUD CDBG Grant Application & Management

Education

MBA, Adelphi University

BS, SUNY New Paltz

Registration

Certified Floodplain Manager

Years Experience

12

Eric has 12 years of experience in disaster recovery. He served as program manager for Nassau County NY \$1.6B Superstorm Sandy recovery program which included FEMA and CDBG-DR grant management for water/wastewater infrastructure, drainage facilities, roads, government buildings and public safety buildings and shorelines and PAAP Pilot Program. He served as worked as a reporting specialist for Louisiana's Hazard Mitigation Grant Program, a \$750M housing recovery program following Katrina.

Relevant Experience:

Superstorm Sandy Nassau Sandy Long-Term Recovery Program, Nassau County, NY. As program manager, Eric oversees the day-to-day operations of the \$1.6B Nassau Long Term Recovery project for the Nassau Department of Public Works. He gives bi-weekly updates on all CDBG-DR and FEMA funded projects to the Commissioner of Public Works. The CDBG-DR scope of the program involves several project managers involved with ongoing construction projects funded by CDBG-DR including two police precincts, a pump station and force main sewer project with EFC SMLP funding, a \$101M electrical substation, and \$19M in 10% Match. The FEMA scope of the program has 65 project worksheets in varying stages of development, from submitted for obligation to closed out pending appeal, worth more than \$300M. In addition, the program contains an \$810M PAAP grant to repair and mitigate the Bay Park Sewage Treatment plant that services 500K population in Nassau County.

Bay Park Wastewater Treatment Plant Reconstruction Superstorm Sandy Recovery, Nassau County, NY. Eric tracked critical paths and payments on the \$810M Bay Park Wastewater Treatment Plant - the largest project funded by FEMA in the US. He scheduled and implemented Nassau County's bid and RFP procurement process to comply with the Governor's office of Storm Recovery's (GOSR) rules and regulations. Eric guided contractors through their completion of reports in the State's Elation Systems reporting platform. He also monitored contractor compliance with CDBG-DR's M/WBE, Section 3, and EEO policies including coordinating with Nassau County's Office of Minority Affairs and the State's Department of Civil Rights. He was responsible for reviewing contractor invoices against their Utilization Plans for MWBE certification, changes in contracts, and payments issued and developing task list and budgets for project delivery and administrative costs.

Project Manager, Seagate Community Association Superstorm Sandy FEMA and CDBG-DR Recovery Program, Sea Gate, NY. Providing overall guidance and grant program management services for this community which incurred severe storm damage to their police/public safety building, a large bulkhead and the sewer system. Scope of work includes damage assessment, engineering advisory, PW development, grant application/management, admin and compliance, design & construction oversight and hazard mitigation services. Ardurra is also assisting with procurement of professional services and development of contracts that are compliant with federal funds guidelines.

Louisiana's Hazard Mitigation Grant Program, LA. As a reporting specialist, Eric reported to the program director of the \$750M OCD-DRU HMGP on payments, contractors, construction progress, and grant recovery. He oversaw the recovery of \$10M in applicant misuse of grant dollars and contractor fraud. He coordinated with the Office of Inspector General and New Orleans District Attorney on prosecution of misappropriations and communicated with Certified Floodplain Managers on matters of NFIP and FEMA regulations and facilitates solutions to complex grant issues. Developed an email communication system for informing contractors of sanctions, policy change, payments, compliance violations, insurance expiration, and contact information for mitigation analysts. He also established methods of analyzing data related to active grants to give metrics to judge contractor progress and internal production. He collaborated on a system for managing the State's contracted engineering firms to ensure that they meet their deliverables and monitored construction methods of projects receiving grant funding. Eric prepared audit records to ensure contractors are properly licensed and insured compliant to the Governor's Executive Order, and he reviews proposed and completed grant projects for eligibility with 44 CFR and the Stafford Act.





Chris Munson, PE
Engineering & Mitigation

Education
MS, Civil
Engineering,
Pennsylvania State
University

BS, Civil
Engineering,
Pennsylvania State
University

Registration
Professional
Engineer – Texas

Years Experience
17

Chris has 17 years of experience in the evaluation and design of water and wastewater treatment facilities. The majority of his water plant design experience has been focused in Texas and Louisiana, working alongside Adam Faschan, Jeff Peters and Chris Canonico. His experience includes the design of large water and wastewater capital improvements for the Cities of Pearland, Alvin, League City, Houston, New Orleans and Baton Rouge.

Relevant Experience:

Gulf Coast Water Authority Facility Assessments, Harvey Recovery, Houston, TX. Project Engineer. Damage assessments, engineering, validating force account, PW development, grant application/ management, admin and compliance, conceptual design of repairs and construction oversight, hazard mitigation. Work includes large pump stations, conveyance canals and reservoirs, and a water treatment plant for approximately \$40M to \$50M of construction. Assisting with a conceptual assessment of the ability to raise the external embankments of the Mustang Reservoir utilizing soils from the existing wind breaks. This assessment is critical to establish both the technical feasibility and cost feasibility of utilizing available FEMA funding to develop this improved project.

Houston Airport System, International Terminal Redevelopment Program (ITRP) Enabling Utilities, Houston, TX. Design Project Manager. Design-Build program to improve water service to the Central Terminal Area. Project includes the design and construction of a new groundwater plant including two wells, two 1.2 million gallon ground storage tanks, approximately 7.5 MGD in high service

pumping capacity and a chlorine/liquid ammonium sulfate feed system for disinfection. Includes installation of new water line ranging from 30-inch diameter to 12-inch diameter from the new groundwater plant into the CTA to service all terminals and bldgs.

Hurricane Katrina Water Treatment Plant Repairs, St Bernard Parish, LA. Project Manager. Responsible for \$12M in repairs to this plant due to wind and water damage. Included assurance of continued reliable water production; hazard mitigation; replacement of distribution valves and filter gallery valves; repair to clarifier mechanisms in the existing precipitators; rehabilitation of existing high service pumps; replacement of damaged electrical equipment, MCCs, emergency generators, wiring, transformers and associated equipment damaged by the storm surge; relocation of electrical equipment; and updating instrumentation and control technologies.

Fort Bend County MUD No. 25 Wastewater Treatment Plants No. 1 & 2 Rehabilitation, TX. Project Manager. WWTP 1 includes: submersible influent pumps, mechanical fine screen/screenings wash press, and centrifuge feed pumps; new RAS/WAS Pump Stations. Improvements at both plants includes digester piping improvements; aeration DO and TSS probes, pH sensors and chlorine residual analyzers at the chlorine contact basins, and replacement of valves and gates to improve operation.

Pearland John Hargrove Water Reclamation Facility PER, Pearland, TX. Lead Engineer. Analysis of the service area including determination of the ultimate plant flow; providing recommendations for improvements and/or replacement of existing equipment to allow for a phased capacity expansion in accordance with current design standards; regulatory requirements; and end of service life improvements. Detailed scope included condition assessment and process analysis of both of the existing on-site influent lift stations; a new grit system for the ultimate peak flow; new sequencing batch reactors (SBR's); retrofit of the existing SBR decanters; accommodation for additional filtration; expanding the ultra violet disinfection; replacing the non-potable water system; evaluation of the existing aerated sludge holding tank system; and replacement of the existing centrifuge dewatering system with belt filter presses.

City of Houston Wastewater Infrastructure Damage Assessments Hurricane Harvey, Houston, TX. Project Manager. Led multiple project teams to provide damage assessments of wastewater lift stations and treatment facilities. Including preparation of assessment reports and alerting the City to critical needs such as emergency measures to restore operation of damaged infrastructure.





Adam Faschan, PHD, PE
Engineering & Mitigation

Education

Ph.D., Civil
Engineering,
Louisiana State
University, 1992

MS, Civil
Engineering,
Louisiana State
University

BS, Civil
Engineering,
Bucknell University

Registration

Professional
Engineer – Texas,
Louisiana, Florida,
Mississippi

Years Experience

30

Adam has 30 years of experience in environmental / civil engineering and recovery programs. Following Hurricanes Katrina, Rita, Gustav, and Ike, Adam served as a senior technical resource for the oversight of multiple disaster recovery projects and programs throughout TX, LA, FL, MS, SC, NC and NY. Adam is Ardurra's subject matter expert on resiliency and hazard mitigation. He has performed assessments and provided guidance as well as design for FEMA-funded permanent repairs and hazard mitigation programs throughout Texas following Harvey. He understands how to scope projects for FEMA and CDBG-DR funded infrastructure repair as well as develop risk and resiliency assessments and scopes to maximize funding and minimize damage from future storms.

Relevant Experience:

Gulf Coast Water Authority Facility Assessments, Harvey Recovery, Houston, TX. Project Manager. Damage assessments, engineering, validating force account, PW development, grant application/ management, admin and compliance, conceptual design of repairs and construction oversight, hazard mitigation. Work includes large pump stations, conveyance canals and reservoirs, and a water treatment plant for approximately \$40M to \$50M of construction. Assisting with a conceptual assessment of the ability to raise the external embankments of the Mustang Reservoir utilizing soils from the existing wind breaks. This assessment is critical to establish both the technical feasibility and cost feasibility of utilizing available FEMA funding to develop this improved project.

Munster Wastewater Treatment Plant Expansion/Consolidation, Katrina FEMA Recovery, St. Bernard Parish, LA. Senior Technical Advisor for wastewater consolidation program following Hurricane Katrina which involved \$63M in FEMA funding for expansion and consolidation of the Munster Wastewater Treatment Plant to an average daily capacity of 15 MGD and a peak capacity of 50 MGD. Prepared design of influent and effluent pump station capacity upgrades, new headworks, new aeration basins, two new final clarifiers, RAS/WAS facilities, new digesters, and yard piping.

Port Arthur Harvey Disaster Recovery Grant Management and Administration, TX. Senior Technical Advisor. Damage assessments, FEMA, HMGP and CDBG-DR grant program management and administration for \$100M in public infrastructure. Work includes public structures, drainage conveyance systems and roadways as well as FEMA 406 and 404 grants. Ardurra is managing grants and preliminary engineering for 80 individual projects. Ardurra assisted the City to identify five FEMA 404 projects totaling \$30M. Projects include 4 drainage capacity improvements and 1 water clarifier improvement to increase capacity to move water through treatment system.

City of Beaumont FEMA Public Assistance, 404 Mitigation, and CDBG-DR, Beaumont TX. Senior Technical Advisor Damage assessments, environmental advisory, FEMA, HMGP and CDBG-DR grant management and hazard mitigation. Identified eight FEMA 404 applications totaling \$22.6M. This includes five building flood proofing projects, two increased capacity of mitigated space for buildings projects, and one new drainage pump station.

Bay Park Wastewater Treatment Plant, Sandy Recovery, Nassau County, NY. Senior FEMA and Hazard Mitigation Advisor. Assisted with damage assessments, project scoping and securing funds for the largest single project ever funded by FEMA – the \$810M Bay Park STP. Worked tirelessly with the County, Senator Chuck Schumer, Governor Andrew Cuomo, and Director of FEMA Craig Fugate both in the State of New York and through visits to Washington DC. Currently working with FEMA, Nassau County, NYDHSES and the Governor's Office of Storm Recovery to implement the FEMA and HUD funds.

East Richland County Public Service District FEMA Flood Recovery Program, East Richland County, SC. \$6M. Senior Engineer. Assisted with FEMA, 406 and 404, HUD CDBG-DR, hazard mitigation as well as State Revolving Loan funds management and administration. Infrastructure included roads, sewage collection system, pump stations and dams. Provided temporary emergency repairs, procurement support and construction oversight.





Jeff Peters, PE, BCEE
Engineering & Mitigation

Education
BS, Civil
Engineering,
University of Texas
Austin

Registration
Professional
Engineer – Texas

Years Experience
26

Jeff has 26 years of experience in municipal engineering and disaster recovery. He has prepared master plans and design and provided construction oversight for large water, wastewater, drainage and paving facilities and programs throughout Texas. Following Harvey, he has been assisting multiple TX municipalities with damage assessments, recovery efforts, engineering design and hazard mitigation to reduce impact from future storms. He managed the largest FEMA wastewater reconstruction program in Texas - the Galveston \$75M wastewater treatment plant.

Relevant Experience:

City of Galveston \$75M Main Wastewater Treatment Plant, Galveston, TX.

Project Manager. This project includes improvements to the plant following Hurricane Ike including rebuilding and relocating the influent list station and grit removal system and changing to a submersible pump station design; rebuilding the existing biological treatment system with a new SBR system, air diffusers and blowers; rebuilding the disinfection system and converting to UV disinfection; and necessary site work, stand-by power and modifications to the existing solids handling processes to accommodate gravity flow under 100 year (and appropriate storm surge) flood plain water surface elevation conditions.

GCWA Facility Assessments & Emergency Recovery Services, Harvey Recovery, Houston, TX. Engineer/FEMA Advisory. Advisory services related to FEMA PA, 406 & 404 and CDBG-DR programs as well as assisting to identify hazard mitigation opportunities.

Harris County Harvey Disaster Recovery Facility Assessments. Lead Engineer/FEMA Advisory. This project includes damage assessments, engineering advisory, grant application/ management, unmet needs assessment, agency coordination.

City of League City Harvey Disaster Recovery Facility Assessments. This project includes damage assessment, engineering advisory grant application/ management, unmet needs assessment, agency coordination.

City of Pearland Harvey Disaster Recovery Facility Assessments. This project includes damage assessment, engineering advisory grant application/ management, unmet needs assessment, agency coordination.

Fort Bend County MUD 25 Harvey Disaster Recovery Facility Assessments. Lead Engineer/FEMA Advisory. This project includes damage assessment, engineering advisory grant application/ management, unmet needs assessment, agency coordination.

Emergency Facility Assessment Teams, City of Houston Wastewater Facilities, Harvey Recovery, Houston, TX. Lead Engineer/FEMA Advisory. This project includes the immediate evaluation of Houston wastewater treatment facilities and development of condition assessments and recovery recommendation plans.

Reflection Bay Water Reclamation Facility Emergency Package Plant Design-Build, Pearland, TX.

Principal In Charge. This facility was under design to expand from 2 MGD to 6 MGD, but the design and construction schedule was still several years from completion. As a result, the City elected to pursue an emergency design build project to expand the plant by an additional 1 MGD until the permanent plant is completed. Jeff is responsible for package plant design as well as serving as the technical project manager over construction. The scope of the project included modifications and addition of a new mechanical bar screen, new influent pumping system to the package plant, package plant splitter tower, 16 individual aeration basins, aeration blowers, four secondary clarifiers, return/waste pumping system, tertiary filters for both the package and existing permanent plants, and miscellaneous site work ,piping, electrical, and instrumentation.





Courtney Nelson

Environmental Documentation & Compliance

Education

BS, Coastal and Environmental Science, Louisiana State University

Years Experience

8

Courtney has eight years of experience in environmental analysis, site assessments, disaster recovery and risk management. She is well versed in federal and state environmental regulations and permitting, such as NEPA, CERCLA, RCRA and RECAP. She served as environmental specialist for multiple Harvey recovery programs in the greater Houston region – GCWA, League City, Pearland, Houston, Mt Belvieu, Port Arthur and Beaumont.

Relevant Experience:

Gulf Coast Water Authority Facility Assessments, Harvey Recovery, Houston, TX. Environmental Lead. This project included damage assessments, environmental advisory, PW development, grant application/ management, admin and compliance, and hazard mitigation. Work includes large pump stations, conveyance canals and reservoirs, and a water treatment plant for approximately \$40M to \$50M of construction. Courtney assisted with assembling cost document for emergency repairs at the Canal G

at Highway 3 site and all remaining Category B activities.

Port Arthur Harvey Disaster Recovery Grant Management and Administration, TX. Environmental Lead. Damage assessments, FEMA, HMGP and CDBG-DR grant program management and administration for \$100M in public infrastructure. Work includes public structures, drainage conveyance systems and roadways as well as FEMA 406 and 404 grants. Ardurra is managing grants and preliminary engineering for 80 individual projects. Ardurra assisted the City to identify five FEMA 404 projects totaling \$30M. Projects include 4 drainage capacity improvements and 1 water clarifier improvement to increase capacity to move water through treatment system.

City of Beaumont FEMA Public Assistance, 404 Mitigation, and CDBG-DR, Beaumont TX. Environmental Lead. Damage assessments, environmental advisory, FEMA, HMGP and CDBG-DR grant management and hazard mitigation. Identified eight FEMA 404 applications totaling \$22.6M. This includes five building flood proofing projects, two increased capacity of mitigated space for buildings projects, and one new drainage pump station.

City of Humble and Gulf Coast Water Authority Hurricane Recovery, Humble, TX. Environmental Specialist. Responsible for Cat A and B PW's for the FEMA applicants. Work includes projects for emergency protective measures, buildings and equipment, and debris removal. This data is used to develop the scope of work, work completed, work to be completed, project cost estimation, and documentation: Force Account Labor, material amounts, Direct Administrative Costs (DAC).

City of League City Hurricane Harvey Recovery Program, League City, TX. Environmental Specialist. Assisted the City to identify hazard mitigation opportunities to further harden infrastructure and facilities for future potential events. Prepared 24 FEMA 404 applications and worked closely with the City to scope the projects base on the Notice of Intent submitted to Texas was to work with the City to scope the project based on their NOI's that were submitted to TDEM.

Superstorm Sandy CDBG-DR Recovery Program Bay Park Sewage Treatment Plant, Nassau County, NY. Environmental Specialist. Assisted with overall compliance of local, state, and federal regulations including ensuring that the project is in full compliance with HUD CDBG-DR. Responsibilities also included tracking waste manifest documentation to ensure compliance with environmental regulations. She reviewed environmental testing procedures.

West Virginia Floods (2016). Environmental Specialist. Courtney was responsible for completing Environmental Reports. This is a CDBG-DR project using HUD and NEPA standards.

South Carolina Housing Mitigation, Columbia, SC. Environmental Specialist. Responsible for completing Environmental Reports for this CDBG-DR project using HUD and NEPA standards. She also conducts some GIS analyses.

John Hargrove WRF Intermediate Expansion Project, Pearland, TX. Environmental Scientist. Wrote Environmental Information Document (EID) for the funding application process of this wastewater treatment plant expansion.





Kelly Simmons

Environmental Documentation & Compliance

Education

MS, Marine
Biology,
University of Mass
Dartmouth

BS, Biology,
University of Mass

Years Experience
15

Kelly brings 15 years of experience in environmental compliance and documentation for municipal and recovery programs. She has assisted multiple municipalities with all aspects FEMA and CDBG-DR processes and procedures as it relates to environmental compliance and grant management and administration. She has extensive knowledge of the National Environmental Policy Act (NEPA) programs, wetland delineation and ecology and is proficient in the analysis of scientific data and the writing of grants and technical reports.

Relevant Experience:

St Johns County Hurricane Matthew & Irma Recovery Program Management, St Johns County, FL. Program manager for this FEMA and CDBG-DR recovery program which includes extensively damaged roads, bridges, drainage infrastructure, fire stations and beach/waterfront areas.

Responsibilities include review and management of all eligible Category A and B activities, and all needed permanent repairs for Category C through G. Assisting with hazard mitigation opportunities. Kelly was part of the team that reviewed the state's Action Plan as required by the January 18, 2017 Federal Register (Vol. 82,

No. 11). The county was allocated \$46.8M in CDBG-DR funds for long-term recovery.

Nassau County Superstorm Sandy and Hurricane Irene Recovery Program Management, Nassau County, NY. As a Project Specialist/Project Manager, Kelly prepared environmental compliance documentation under NEPA for proposed infrastructure disaster recovery/resiliency projects funded by HUD CDBG-DR. Work requires collaborating with County, State and Federal staff to obtain and prepare documentation necessary for the County to seek federal reimbursement for disaster recovery efforts directly relating to Superstorm Sandy.

New York Rising Community Reconstruction (NYRCR) Program. Project Manager. Kelly collaborated with Nassau County and the New York State Governor's Office of Storm Recovery (GOSR) to prepare ten separate Pre- and Final Applications for a combination of infrastructure construction projects as well as drainage studies that will be done to the 30% design phase. The applications allowed Nassau County to be the Sub recipient of over \$157,700,000 in HUD CDBG-DR funding.

Galveston and Harris County, Texas Hurricane IKE CDBG Housing Recovery Program, TX. Environmental Scientist. Kelly collaborated with the City of Galveston, Harris County and their corresponding Disaster Recovery Case Managers to complete Environmental Record Reviews (ERRs) for over 1,500 homes that required repair or reconstruction due to damage resulting from Hurricane Ike. Kelly assisted the County with applications for its Homeowner Buy-out program.

Nassau County Police Department 4th Precinct and 8th Precinct Station Houses, Nassau County, NY. Project Manager. \$27M in CDBG-DR funds were used to demolish the existing NCPD 4th Precinct and 8th Precinct Station Houses and associated facilities and construct new station houses. The new station houses were designed to withstand severe storm event conditions, such as high winds and heavy snow loading, and will include improved Information Technology capability for utilization before and after storm events. Kelly and her team prepared the required federal (NEPA) and state (SEQR) environmental compliance documentation for these projects.

Governors Island Potable Water, Governors Island, NY. Environmental Scientist. As part of the Governors Island restoration project, Kelly assisted the Trust for Governors Island by preparing the State and Federal permits necessary to construct 2,500 linear feet of new pipe from Red Hook to Governor's Island. The pipe was installed via horizontal directional drilling through bedrock beneath the Buttermilk Channel.

Suffolk County Vector Control and Wetlands Long Term Management Plan, Suffolk County, NY. Environmental Scientist. Field reconnaissance salt marshes to determine the species present and the health of the marshes for use with assisting the County in developing and preparing Vector Control and Wetlands Long Term Management Plan.





Curtis McCullough

Construction Management

Education

BS, Electrical
Engineering
Kennedy Western
University

AS, Petroleum
Technology, Red
Rocks Community
College

Years Experience

35

Curtis has 35 years of experience in electrical engineering and construction services. As owner's representative and construction manager he has been responsible for projects valued in excess of \$200M. Curtis' hands on experience with multiple project management software systems, drawings, specifications, safety management, environmental permitting and compliance makes him a valuable asset to any team.

Relevant Experience:

City of Houston Northeast Water Purification Plant, Houston, TX. Construction Manager for this \$1.8B water plant in Houston.

TransCanada Villa de Reyes Compressor Station, Villa de Reyes, San Luis Potosi, Mexico. As construction manager, responsible for construction of 1300 PSI natural gas pipeline including 130 Titan, Caterpillar Gas Compressors, 1300 PSI

ThyssenKrupp Inc, Denver, CO. Construction Manager responsible for multiple industrial construction programs to include - Three Oaks Coal Mine, Rockdale TX - crushing facility capacity 1200 MTPH; Los Pelambres Project, Salamanca Chile - 8,700 MTPH coarse ore conveyor system; Collahuasi Project, Iquique Chile - ship loading facility consisting of 3 conveyors, 4 feeders, tripper; Cerro Vanguardia Project, Cerro

Vanguardia Argentina - 1,200 MTPH radial stacker/reclaimer.

The Industrial Company Steamboat Springs, CO. Project Manager for construction of the Cerro San Pedro Gold Mine, San Luis Potosi Mexico; Construction Manager for the Chihuahua III Power Project, Mexico; Area Superintendent for construction of the Yak Tunnel Water Treatment Plant, Leadville CO; Electrical & Instrumentation Superintendent for Air Separation Unit, Baytown TX.

KAZ Minerals Copper Project Kazakhstan. As construction manager and owner's representative, responsible for a 100,000 ton a day facility consisting of an open pit with a Oxide and Sulphide extraction plant on site, along with a leach pad for the Oxide facility. The Sulphide plant consisted of a FLSmidth crusher, over land conveyor with stock pile feeding the largest FLSmidth Sag Mill in the world with two each second largest FLSmidth Ball mills, FLSmidth Floatation circuit and concentrated load out, Man-camp, and all support facilities including Power generation facility.

ADR Plant, Minera La India, Tarachi, Sonroa, Mexico. Construction Manager for leach pad, Crushing facility, Conveying system, ADR plant, Laboratory, Truck shop, Warehouse, Man-camp, and all support facilities including power generation facility.

Agnico-Eagle Pinos Altos Mine, Cahuisori, Chihuahua, Mexico. Construction Manager and owners representative for construction of a crushing facility with capacity of 250 tons per hour for the sag mill and ball mill; leaching tanks and thickeners; facility and laboratory; Lorax filters; conveying for waste pile, and paste backfill facility.

Dolores Gold Mine, Dolores, Chihuahua, Mexico. Construction Director responsible for construction of the leaching, processing facility, office building, laboratory, warehouse, truck shop, crushing facility consisting of a primary crusher, secondary crusher, three screens, three tertiary crushers, overland conveyor and storage, three feeders a HAC (High Angle Conveyor) and Grass hopper spreader system.



TAB 3

PROJECT APPROACH



PROJECT UNDERSTANDING

The clear direction in federally funded recovery and resiliency programs is toward preventative strategies and projects that reduce the risk of future damages to citizens and public infrastructure assets due to natural disasters. While the focus of mitigation has previously had its foundation in the FEMA world, the movement confirmed through the HUD CDBG-MIT program is that the federal-state-local partnerships that have been traditionally established are being leveraged to create new opportunities for effective protection of people and infrastructure that will also reduce the need for post-disaster funding obligations from the federal level.

In its commitment to disaster recovery and management, Ardurra has been operating by the principle of strategic recovery and sustainability for decades. Recovering smarter, stronger and better means that responding to damages due to natural disasters must include strategies to reduce the risk of the same damage recurring.

Ardurra staff knows the requirements of the HUD CDBG-MIT program which was introduced in the Federal Register on August 30, 2019. This Federal Register Notice informed the public of a \$6.875B allocation in CDBG-MIT funds to grantees recovering from qualifying 2015, 2016 and 2017 disasters. **CDBG-MIT represents the best of both worlds in disaster recovery; FEMA and HUD.** Mitigation Projects that traditionally existed only in the FEMA sphere now can be funded under HUD CDBG rules. This allows governments to take proactive steps to mitigate against future potential disasters.

The State of Texas was allocated \$4.297B of which a minimum of \$2.105B must be expended in HUD-identified "most impacted and distressed" (MID) areas. **Galveston County was listed as one of those HUD-identified MID areas impacted by Hurricane Harvey.**

TEXAS GENERAL LAND OFFICE (GLO)

GLO will administer the CDBG-MIT funds. Consequently, the GLO was tasked with creating a State Action Plan, which will be submitted to HUD for review on February 3, 2020. The Action Plan identifies the needs to be addressed with this allocation and how the funding will be allocated.

The State's Draft Action Plan enumerates several funding opportunities for Galveston County. Galveston County is designated as a HUD MID for the Hurricane Harvey State Competition and a State MID for the 2015 and 2016 Floods State Mitigation Competition.

1. Regional Mitigation Program - will create a Method of Distribution (MOD) for its members.

- a. Not a competition
- b. Method of Distribution (MOD) created by the COG will determine maximum award

2. 2015 Floods State Mitigation Competition \$23,048,475 for State MID areas

- a. Applicant can submit 2 applications
- b. Minimum award \$3M, maximum award \$10M
- c. Project must mitigate against severe coastal/riverine flooding, storms and/or tornadoes
- d. The District can compete for this however, the allocation may be utilized completely by those jurisdictions within HUD MID areas making funding unavailable

3. 2016 Floods State Mitigation Competition \$73,840,380 for State MID areas

- a. Applicant can submit 2 applications
- b. Minimum award \$3M, maximum award \$10M
- c. Project must mitigate against severe coastal/riverine flooding, storms and/or tornadoes
- d. The District can compete for this however, the allocation may be utilized completely by those jurisdictions within HUD MID areas making funding unavailable

4. Hurricane Harvey State Mitigation Competition \$2.14B

- a. Applicant can submit 3 applications for the entity plus 3 joint application - Jan 29, 2020
- b. Minimum award \$3M (formerly \$5M), maximum award \$100M - Jan 29, 2020
- c. Project must mitigate against hurricane/tropical storms/tropical depressions and severe/coastal riverine flooding

5. Local Hazard Mitigation Action Plans (LHMAP)

- a. Maximum award \$100K
- b. Approved by TDEM and FEMA

Critical to any CDBG related program is the creation of eligible projects and their ability to be funded. In the case of the larger Hurricane Harvey State Mitigation Competition, the GLO has identified a scoring matrix that helps the District and its Grant Administrator craft the projects that will be successfully approved and funded. Projects will have more success if they are weighed next to this scoring criteria.

Ardurra offers unique benefits that our competitors cannot. As a full-service engineering and consulting firm, we offer in-house environmental experts, GIS capabilities, water and wastewater engineers, project managers and FEMA and CDBG subject matter experts. Our environmental team has a standing contract with the GLO that is extremely helpful to our clients. We know the State staff and work with them daily which will speed many of the processes along.



Two of the largest Scoring Factors (45 points out of 105) for successful applications are the Low to Moderate Income (LMI) National Objective as well as the overall Project Impact.

1. LMI. To qualify for the LMI National Objective the District must show that at least 51% of the project's beneficiaries are low to moderate income. LMI is defined as households earning up to 80% of the Area Mean Income defined by HUD. The accepted method to define LMI target areas is to utilize census data provided by the American Community Survey (ACS) from the United States Census Bureau. 60% of a census tract or block group must benefit from a project in order to utilize the census data. If projects only benefit a portion of these geographic areas, then a survey must be conducted. Probably most importantly to consider is that the GLO will only approve projects in the first round of funding if they meet the LMI threshold.

2. Project Impact. This is computed by dividing the total project beneficiaries by project cost and projects benefiting residents within District jurisdiction. Larger, regional projects can be pursued as needed if Project Impact is low.

3. Management Capacity, Mitigation/Resiliency Measures, Identified Projects from Local Plans, County Composite Disaster Index Ranking, Social Vulnerability Index Ranking, and Per Capita Market Value round out the other criteria.

OUR PROJECT APPROACH

PRE-FUNDING METHODOLOGY: INFRASTRUCTURE

Kick Off Meeting

Upon notice to proceed, Ardurra staff will meet with District officials to discuss mitigation needs and potential projects. Ardurra brings subject matter experts from every level of government: HUD, FEMA, State CDBG-DR, County and entitlement City. Our experts worked for these agencies and have the 'client's' perspective that few competitors can match.

Reducing Risk. We can reduce the District's Risk by quickly determining proposed project eligibility. Our team will compare what is being proposed to what has been accepted in the past and what is possible within the regulations. We will meet with project stakeholders to gain a full understanding of the District's needs, goals and definition of 'success' as it relates to this program. During this meeting, Ardurra staff will request any of the District's policies and procedures and other plans relating to grants and financing for review. Ardurra will review and make suggestions for updates to ensure compliance.

Identifying Projects, Funding Sources. This critical first meeting will allow for a clear and frank discussion of what has worked, what can work better and what has failed. In cases of success Ardurra will capitalize; where there is failure, we will optimize and implement the needed changes that will guarantee compliance and fulfillment of grantee obligations. The District may have needs that do not meet the criteria of a HUD -funded program. It is possible that these valid and important projects can be directed to other programs on a case-by-case basis. We have worked with a variety of federally funded programs and have identified alternate funding sources from FHWA, USDA EWP and a variety of State programs – we will bring this knowledge to the program and provide guidance as needed.



Working Ourselves Out of a Job. Ardurra recognizes that while we may bring an effective and necessary level of expertise to the project, our role is to provide supportive leadership to the District in the CDBG-MIT endeavor. We take great pride in sharing in the ownership of our partner's success and when the project has reached its successful end, Ardurra steps aside and gets out of the way. **Professional and efficient support in reaching a project's end is how we measure a successful partnership.**

POST-FUNDING METHODOLOGY: INFRASTRUCTURE ADMINISTRATION & PROJECT DELIVERY

Ardurra staff has successfully overseen the construction of CDBG, CDBG-DR and FEMA Mitigation Infrastructure projects of every type — wastewater treatment plant reconstruction, waterline and sewer line replacement, drainage infrastructure improvements, fire stations rehabilitation, emergency shelter construction, street repair and replacement and emergency generator installation to name a few. We bring a unique blend of engineering, environmental, recovery program management and hazard mitigation and resilience. While we take great pride in developing pre-application partnerships, our goal is to assist our partners in achieving approval of project applications at which time Ardurra staff will begin to formerly assist the District with all phases of project design/environmental review, acquisition, procurement, construction and closeout.

ADMINISTRATIVE DUTIES

- » **A Single Point of Contact** - Program Manager, Nick Foster, will be committed for all phases of the program for coordination with District Staff and Officials.
- » **Transparency** - we are committed to a transparent program. Designated District Staff and Elected Officials will have access to real time program updates. Key staff from Ardurra and the District will remain integrated at all stages of the program.
- » **Public Advisory** - at the direction of the District, Ardurra staff will work with District staff to ensure that all Citizen Participation activities such as public notices and public hearings are scheduled appropriately. And as the District requests, Ardurra will provide project updates at public meetings and citizen forums, allowing ownership of the projects to be shared by both District government and the citizens.
- » **Filing System** - we will create a filing system based on common GLO practices that is easy to maintain and monitor. HUD requires GLO to conduct compliance monitoring for all grantees — **Ardurra's filing system was modeled after the State's which creates an easy and familiar format for monitoring purposes.**

Completion of Required Compliance Requirements

- » Ardurra will review and offer suggestions to update all required compliance plans such as Section 3, Section 504, Fair Housing, Civil Rights, etc. Ardurra commits to having all these policies and plans in place during the first phase of the post-funding period.
- » GLO will require designated signee and direct deposit forms to be completed and submitted early in the Grant process. Ardurra staff will ensure that the District meets these requirements.
- » As part of the required actions for the grant program, a Labor Standards Officer (LSO) must be appointed by the District. We have extensive experience with this role and we stand ready to serve in this capacity or to assist a District staff member filling this requirement.



PROJECT DEVELOPMENT

Coordination with District Officials

- » Upon selection, Ardurra staff will engage with District leadership and stakeholders to understand the District's immediate needs and project priorities. Together, our CDBG specialists and District experts will review lessons learned and best practices in the CDBG-MIT world focused on ensuring funding for the District's priority projects.

Coordination with Project Engineers

- » If the projects do not have procured engineers, Ardurra will assist the District to ensure that procurement complies with required federal regulations, in particular 2 CFR 200.
- » Ardurra can provide additional oversight and management to the engineering deliverables furnished by consultants and/or the District. Our in house engineers from all disciplines provide an additional 'set of eyes' that have furnished planning, design and mitigation services for all types of infrastructure projects in flood prone regions — we have successfully worked with our clients' design consultants on our CDBG recovery programs.

Environmental Services

- » Ardurra will coordinate with the engineer to schedule design update meetings and work with them on project specifics regarding environmental reviews. In past GLO programs the environmental review was not allowed to begin until after the engineer of record submitted a 30% design package to GLO. The environmental review is a critical path in any HUD funded program ensuring citizen participation, compliance with the federal regulations, and controlling the release of funds.
- » We will coordinate with the District for program update meetings and provide expert guidance on the environmental review process. Whether the projects are Categorically Excluded (Cat Ex), require an Environmental Assessments (EA's) or require Phase 1-2 Environmental Site Assessments (ESA), our CDBG environmental experts will work with the design engineer so that the environmental review is conducted concurrently with design and is cleared quickly to avoid schedule slippage. This removes the 'middle-man' and will be of great benefit to the District. **The Environmental Review must be conducted and cleared before an Authorization to Utilize Grant Funds (AUGF) can be issued.**
- » Ardurra staff will ensure that required components related to Environmental Reviews public comment notices are met —advertisement postings, advertisement language and advertisement schedules. **HUD requires Citizen Participation** through the use of public comment periods which ensures opportunities for constituent participation in the grant process. These are critical path metrics that can result in disallowed costs and canceled projects if they are not enacted properly. Having the experience to do this correctly is what sets Ardurra apart.



GRANT ADMINISTRATION INFRASTRUCTURE

Prepare Compliant Contracts and Contract Bid Packages

- » Working with the District and the selected engineering firm, Ardurra will assist in the creation of bid packages that have been approved by GLO. Ardurra will assist with pre-bid meetings in order to present all the program requirements to prospective bidders. Our staff members have decades of experience conducting pre-bid and pre-construction meetings which eliminate typical contractor errors.
- » Once a contractor is procured for the project and a contract is executed by the District, Ardurra will, in conjunction with the project engineer, conduct a pre-construction conference. During this meeting Ardurra will provide labor compliance and Section 3 packets to the contractors. Federal prevailing wages, under the Davis Bacon and Related Acts, are required for all infrastructure projects; we pride ourselves in our compliance record! All Section 3 requirements will be presented to the contractor.

Acquisition Activities

- » Some projects require the acquisition of real property, permanent rights of way or easements. CDBG-MIT projects must follow the Uniform and Relocation Act (URA). URA is a critical path for any CDBG project. Non-compliance can lead to disallowed costs; however, Ardurra has extensive experience with property acquisition and all that it entails.
- » Ardurra will assist the City in procuring appraisal and closing services which are necessary to comply with the Federal Regulations.

CONSTRUCTION/PROJECT MANAGEMENT

Certified Payroll Review

- » **Pre Construction Conference.** Successful compliance with Davis Bacon and Related Acts (DBRA) begins with the pre-construction conference. Ardurra educates prospective bidders on the process. Prime contractors are responsible for certifying the compliance of any subcontractor they may utilize; however, we will provide guidance and oversight to ensure success. We have worked with numerous construction contractors in East Texas and have a transparent and easy to follow procedure for review.
- » **Compliance.** We will work with the construction contractor to ensure compliance with certified payroll reporting. Contractors will mail payrolls directly to Ardurra and they will be housed in a secure location. Ardurra will perform onsite wage interviews to cross reference payrolls for contractor compliance. Monthly, we will deliver the payroll records to the District for filing — these must be maintained by the District for no less than 5 years following the completion of the grant.
- » **Non Compliance** will result in delaying payments of contractor invoices and can slow the construction process. Our payroll review method identifies contractor errors very early on and facilitates swift correction.

Section 3 Compliance

- » **Section 3** is a local, low to very low-income hiring requirement from HUD and the District is required to have a Section 3 Plan in place. Ardurra staff can review the existing Section 3 Plan and make comments upon request. All Section 3 covered contracts and subcontracts must include the Section 3 clause, verbatim from 24 CFR 135.38. Finally, all construction contracts will contain language requiring the construction contractor to submit a monthly



FINANCIAL MANAGEMENT

Ardurra has experience on billions of dollars of FEMA and CDBG projects for TX, LA, FL, NY, NC, SC, CO and many others—with no audit findings or claw backs by HUD or FEMA. The documentation procedures we put in place create an audit-proof trail from day one throughout closeout. For example, we've experienced a pre-audit performed by New York State DHSES. Ardurra's financial tracking processes and procedures for Nassau County's finances were reviewed. Through this pre-audit, DHSES was comfortable with Ardurra's cash management procedures. We were able to have DHSES agree to advance funding for an \$810M grant.

Section 3 report to show progress toward that goal. Ardurra will work with contractors to ensure compliance with the necessary outreach required to meet Section 3 goals. These reports will be maintained in the project files and will be discussed in project update meetings.

Construction Updates

- » Ardurra staff will ensure construction compliance with regularly scheduled construction update meetings. Those in attendance will be District Staff, Project Engineer, the Contractor and Ardurra's project manager.
- » Ardurra will stay in constant contact with the project engineer to ensure an on-time schedule, budget compliance, and any resolution to construction issues immediately.

Contractor Invoicing

- » When a contractor submits an invoice, it will first go to the project engineer for review of activities and quantities. Once the engineer is ready to sign off on the invoice, they will contact Ardurra to ensure there is no labor or section 3 compliance issue. Ardurra will confirm and the engineer can submit the invoice to the District.
- » The District has two options regarding payment of contractors — **pay the approved invoice and then seek reimbursement from GLO; or submit the invoices to GLO first and then upon receiving the funds, pay the contractor.** Although this is the District's choice, we encourage payment of the invoice directly and then seek reimbursement from GLO if cash flow is available. This allows for a quicker payment to the contractor and less chance of construction delays.
- » Ardurra will work on behalf of the District to ensure prompt reimbursement of requests for reimbursement of project obligations and payments made by the District
- » **Project Change Orders** will be reviewed on a case by case basis and only upon consensus with the project engineer and District staff will they be presented to District for final approval. Ardurra will consult with the GLO to ensure that the change order will be approved, and funding moved to account for the change.
- » Final retainage invoice and final labor compliance review necessitates a **full and clear Labor Record.** Ardurra will create the Final Wage Compliance Report, Certificate of Construction Completion and give the final approval to the District stating there are no lingering issues and the project is complete and final payment can be made.

PROJECT CLOSEOUT PHASE

- » Ardurra always begins a project with its end in mind. While Project Closeout technically occurs at the end of a project, documentation management and record-keeping and compliance is a priority on the project **from day one.**
- » **Formal Project Closeout** occurs when all expenditures are completed, and no further action is needed. We will submit project closeout documents to GLO. We will schedule and conduct a closeout meeting with District staff to ensure all program documents are in the District's possession. Ardurra will close the project file and ensure that it will pass a GLO monitoring audit.



TAB 4

REQUIRED DOCUMENTS

COST OF SERVICES - INFRASTRUCTURE

Please indicate No Cost Proposal if your firm is not proposing for the services specified on this Cost of Services page.

Maximum amount of grant funds firm is able and/or willing to manage: \$ 1,000,000,000

MIT

Potential Grant Award Amt.	Cost of Services	Notes:
Up to \$1 million	8% or \$80,000	
\$5 million	7% or 350,000	
\$10 million	6% or 600,000	
\$50 million	6% or 3,000,000	
\$100 million	6% or 6,000,000	
\$250 million and above	5.5%	

CERTIFICATION REGARDING LOBBYING
(To be submitted with each bid or offer exceeding \$100,000)

The undersigned certifies, to the best of his or her knowledge and belief, that:

(a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(c) The undersigned shall require that the language paragraph 1 and 2 of this anti-lobbying certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all County s shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995).

The Contractor, Ardurra Group, Inc., certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.



Signature of Contractor's Authorized Official

Chris Canonico PE, Principal In Charge

Printed Name and Title of Contractor's Authorized Official

Date: June 24, 2020

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitations for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Included prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

Approved by OMB
0348-0046

SAM RECORD SEARCH

**Insert System for Award Management (SAM) Record Search
for company and company principal(s)**

SAM Search Results List of records matching your search for : Search Term : Ardurra Group, Inc.* Record Status: Active	
ENTITY Ardurra Group, Inc.	Status: Active
DUNS: 092981521 +4:	CAGE Code: 5PTY7 DoDAAC:
Expiration Date: 08/25/2020	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 4921 Memorial Hwy Ste 300	
City: Tampa	State/Province: FLORIDA
ZIP Code: 33634-7507	Country: UNITED STATES

SAM Search Results List of records matching your search for : Search Term : Jeffrey Peters* Record Status: Active	
No Search Results	

SAM Search Results List of records matching your search for : Search Term : Christopher Canonico* Record Status: Active	
No Search Results	

SAM Search Results List of records matching your search for : Search Term : Craig Taffaro* Record Status: Active	
No Search Results	

SAM Search Results List of records matching your search for : Search Term : Nicolas Foster* Record Status: Active	
No Search Results	

STATE OF TEXAS
COUNTY OF Harris

§
§
§

AFFIDAVIT

BEFORE ME, the undersigned authority, on this day personally appeared Chris Canonico known to me to be the person whose name is subscribed to the following, who, upon oathsays:

“I am the Manager, Secretary, or other Agent or Officer or the Principal of the Proposer in the matter of the proposal to which this affidavit is attached, and I have full knowledge of the relations of the Proposer with the other firms in this same line of business, and the Proposer is not a member of any trust, pool or combination to control the price of the services in this proposal, or to influence any person to submit a proposal or not to submit a proposal thereon.

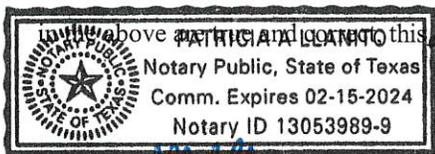
I further affirm that the Proposer has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted proposal.”

AFFIANT FURTHER SAYETH NAUGHT



AFFIANT

SWORN TO AND SUBSCRIBED BEFORE ME by the above Affiant, who, on oath, states that the facts contained



23 day of June, 2020.



NOTARY PUBLIC – STATE OF TEXAS

Proposer: _____ Signed By: Chris Canonico

Title: Principal

Address: _____ Phone: 2022 Durant, Franklin, Houston TX 77019

_____ Fax: _____

_____ Email: CANONICO@ARDURKA.com

_____ 713-590-5512

NOTE: PROPOSALS NOT ACCOMPANIED BY THIS AFFIDAVIT WILL NOT BE CONSIDERED

San Leon MUD is an Affirmative Action/Equal Opportunity Employer. The District does not discriminate on the basis of race, color, national origin, sex, sexual orientation, gender identity, religion, age or handicapped status in employment or the provision of services. Section 3 Residents, Minority Business Enterprises, Small Business Enterprises, Women Business Enterprises, and labor surplus area firms are encouraged to submit proposals

CERTIFICATE OF INTERESTED PARTIES

Form 1295

CERTIFICATE OF INTERESTED PARTIES		FORM 1295	
Complete Nos. 1 - 4 and 6 if there are interested parties. Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.		OFFICE USE ONLY	
1 Name of business entity filing form, and the city, state and country of the business entity's place of business.		Must file online at www.ethics.state.tx.us/File	
2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.			
3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.			
4 Name of interested Party	City, State, Country (place of business)	Nature of Interest (check applicable)	
		Controlling	Intermediary
5 Check only if there is an Interested Party. <input type="checkbox"/>			
6 UNSWORN DECLARATION My name is _____, and my date of birth is _____ My address _____ (street) (city) (state) (zip code) (country) I declare under penalty of perjury that the foregoing is true and correct. Executed in _____ County, State of _____, on the _____ day of _____, 20____ (month) (year) <div style="text-align: right; margin-top: 10px;"> _____ Signature of authorized agent of contracting business entity (Declarant) </div>			
ADD ADDITIONAL PAGES AS NECESSARY			

CONFLICT OF INTEREST QUESTIONNAIRE
Form CIQ

CONFLICT OF INTEREST QUESTIONNAIRE		FORM CIQ
For vendor doing business with local governmental entity		
<p>This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.</p> <p>This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).</p> <p>By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.</p> <p>A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.</p>	OFFICE USE ONLY	
<p>1 Name of vendor who has a business relationship with local governmental entity.</p> <p align="center">none</p>	<p>Date Received</p>	
<p>2 <input type="checkbox"/> Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)</p>		
<p>3 Name of local government officer about whom the information is being disclosed.</p> <p align="center">_____</p> <p align="center">Name of Officer</p>		
<p>4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.</p> <p style="margin-left: 40px;">A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?</p> <p align="center" style="margin-left: 80px;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-left: 40px;">B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?</p> <p align="center" style="margin-left: 80px;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
<p>5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.</p>		
<p>6 <input type="checkbox"/> Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).</p>		
<p>7 </p> <p>Signature of vendor doing business with the governmental entity</p>		<p align="center">June 24, 2020</p> <p align="center">Date</p>

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

...

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

- (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
- (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

- (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
- (B) that the vendor has given one or more gifts described by Subsection (a); or
- (C) of a family relationship with a local government officer.

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Ardurra Group, Inc.</p> <p>2 Business name/disregarded entity name, if different from above</p>	
	<p>3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.</p> <p> <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ▶ _____ </p>	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any) _____</p> <p>Exemption from FATCA reporting code (if any) _____</p> <p><small>(Applies to accounts maintained outside the U.S.)</small></p>
	<p>5 Address (number, street, and apt. or suite no.) See instructions. 4921 Memorial Hwy, STE 300</p> <p>6 City, state, and ZIP code Tampa, FL 33634</p> <p>7 List account number(s) here (optional)</p>	<p>Requester's name and address (optional)</p>

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

	<p>Social security number</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; height: 20px;"></td> </tr> </table> <p style="text-align: center;">or</p> <p>Employer identification number</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">5</td> <td style="width: 15%; text-align: center;">9</td> <td style="width: 15%; text-align: center;">-</td> <td style="width: 15%; text-align: center;">1</td> <td style="width: 15%; text-align: center;">7</td> <td style="width: 15%; text-align: center;">8</td> <td style="width: 15%; text-align: center;">2</td> <td style="width: 15%; text-align: center;">9</td> <td style="width: 15%; text-align: center;">0</td> <td style="width: 15%; text-align: center;">0</td> </tr> </table>					5	9	-	1	7	8	2	9	0	0
5	9	-	1	7	8	2	9	0	0						

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	<p>Signature of U.S. person ▶ </p>	<p>Date ▶ 11/26/19</p>
------------------	------------------------------------	------------------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



ARDURRA

COLLABORATE. INNOVATE. CREATE.

2032 Buffalo Terrace
Houston TX 77019