

2025 DIMP GAS DISTRIBUTION SYSTEM IMPROVEMENTS

**Greenville Utilities Commission
14 October 2025**



Mr. Cleve Haddock

Procurement Manager

Greenville Utilities

PO Box 1874

Greenville, NC 27835

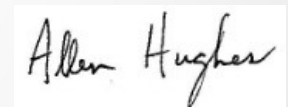
14 October 2025

Magnolia River of NC, PLLC (MR of NC), a member of the Magnolia River family of companies (which includes Magnolia River Services, Inc. (Magnolia River)), specializes in utility engineering in North Carolina. MR of NC is pleased to submit this statement of qualifications to Greenville Utilities Commission (GUC). Magnolia River is part of the overarching Kinetic Infrastructure Group, which consists of six company brands and includes almost 1,000 employees across 22 U.S. based offices.

Our engineering core competencies reflect the depth of knowledge and experience within our technical and production teams, positioning us to serve clients in critical areas of their operations. These competencies include compliance (MAOP validation/reconfirmation), linear design (distribution and transmission), permitting (USACE, RR, city, county, state), infrastructure replacement programs, and facility design. Our facility design expertise covers metering and regulator stations (sizing and design), launchers/receivers, filters, heaters, and civil-engineered site design and preparation. These services apply to both new construction and replacement or reinforcement projects.

Additionally, our team provides turnkey management for all design services, covering subcontractor selection and oversight, financial forecasting, scheduling, construction support, and documentation closeout. We support projects from conception to completion, offering services such as FEED studies, system modeling, route analysis, planning, budgeting, design, and permitting, along with ongoing construction support, contractor management and tracking, as-builts, and MAOP verification during project closeout. Most importantly, we understand the strategic importance of allocating capital expenditures across system expansion, reinforcement, and replacement—ensuring a balanced focus on growth, public safety, and customer satisfaction.

We appreciate the opportunity to provide our response for this project. If there are any questions pertaining to this proposal, please contact Jared Willingham, at (256) 606-3383, or by email at jared.willingham@magnolia-river.com.



Allen Hughes

Manager, MR of NC

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HISTORY OF FIRM

With a large team of over 30 engineers and technicians solely focused on the natural gas industry, our engineering staff, which consists of professional engineers, project managers, GIS professionals, and supporting production personnel, provides both manpower and expertise and have successfully completed numerous major linear projects, including steel and plastic replacements, casing replacements, station design, and MAOP verification work. Our engineering staff continually works to verify our clients' projects are executed accurately, timely, and on budget.

Our engineering staff provides services ranging from permitting and replacement programs to turn-key engineering and project management. Our engineering staff specializes in distribution and transmission facility designs, including linear pipeline projects, meter and regulator (M&R) stations, SCADA and electrical systems, horizontal directional drilling (HDD), route selection class location analyses, site design, and system modeling.

Industry Knowledge		Products and Platforms
Gas Distribution	Railroad Permitting	AutoCAD Plant 3D
Gas Transmission	Town / County Permitting	AutoCAD Civil 3D
Linear Design	As-Built Drawings	AutoCAD LT
Master Meter	Service Card / Map Digitization	MicroStation
Compliance	Skid Fabrication Design	ArcGIS / ArcMAP
O&M Manuals	Cable and Conduit Schedules	GASWorkS/Synergi
Modeling	Grading Plans	GDO - Smallworld
HDD Design	Maintenance of Traffic	BoreAid
M&R Station Design	Route Selection	Technical Toolboxes
Permitting	Route Studies	Google Earth
DOT Permitting	MAOP Verification	Trimble Units
Tie-in and Retirement Plans	Hazardous Classification Analysis	Pathfinder
Renewable Natural Gas (RNG)	Land Acquisition Support	GASPurge
TIMP Review/Development	DIMP Review/Development	FieldLogIQ

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PROFESSIONAL QUALIFICATIONS

MR of NC strives to maintain long-term relationships with our clients. To that end, our proven staffing philosophy is to assign specific personnel to a project team for both the lifecycle of the project and future opportunities. This commitment ensures both continuity and efficiency because of the project team members' in-depth knowledge of the project's progress and other project team members' activities. All projects undertaken are led by a designated project manager in conjunction with a professionally qualified technical lead (Professional Engineer), with support provided by a core team of lead personnel including design technicians and design engineers.

With our natural gas expertise, our team is well prepared to implement GUC's scope of work (SOW) by utilizing personnel who are both experienced and customer focused. We realize the importance of being responsive and executing project requirements to meet GUC's project standards.

Please find resumes for our selected project team in Appendix A - Resumes at the end of this proposal.

PAST PERFORMANCES

Relevant Experience

Our team has provided planning, management, design, inspection, and construction management services for a wide variety of natural gas systems. In performing these services, MR of NC has performed modeling, created infrastructure designs (including pipelines and regulator stations), developed mapping, and established inspection standards for the proper oversight of the infrastructure improvements. A wide range of software tools have been used in providing these services, including AutoCAD, AutoCAD CIVIL3D, Esri GIS products, GASWorkS, Synergi, and FieldLogIQ (Magnolia River's internally developed software). With these software tools, MR of NC has provided clients a complete range of asset management and compliance monitoring services for client systems and projects to update, improve, and expand the infrastructure from inception to project close-out.

Project Owner:	Magnolia River Services, Inc.
Client:	Confidential
Project Name:	Cast Iron and Bare Steel Replacement
Project Description:	Magnolia River provided engineering services for pipeline replacement projects identified in the client's DIMP as high-risk due to leak-prone cast iron and bare steel infrastructure.
Scope Responsibility:	One project involved replacing approximately 5.6 miles of cast iron main pipe ranging from 2-inch to 6-inch in diameter, along with 396 bare steel and legacy plastic service lines totaling 3.4 miles. Another project addressed one mile of 2-inch steel main pipe installed in 1970 with dresser couplings every 40 feet, along with five bare steel service lines totaling 225 feet. Magnolia River developed cost-effective design solutions, sized replacement pipe, prepared construction drawings, material lists, and budget estimates, and managed bid

	packages and pre-construction meetings. The team conducted environmental assessments for PHMSA NGDISM Tier 2 compliance, supported GIS updates, inspected construction activities, and delivered GPS-accurate as-built mapping with full tracking and traceability documentation.
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Project Owner:	Magnolia River Services, Inc.
Client:	Confidential
Project Name:	System Model
Project Description:	Magnolia River modeled the client’s gas distribution system.
Scope Responsibility:	Magnolia River provided comprehensive modeling services to assess pressure concerns and support long-term system planning. The team performed GIS data cleanup, imported customer demand data, and built a GASWorkS model incorporating customer load profiles. Model calibration and system optimization were conducted to address low-pressure areas. Magnolia River also ran future growth scenarios to evaluate whether the existing infrastructure could accommodate projected demand without requiring system updates.

PHMSA Grant Services

Since 2022, Magnolia River has worked with 20 municipalities in applying for funding through PHMSA NGDISM grants. Since the program’s inception, Magnolia River has successfully guided numerous utilities through the grant application process, offering a wide range of support services including:

- Developing comprehensive project budgets and scope proposals.
- Compiling grant application packages.
- Conducting audits and reviewing applications for potential projects.
- Reviewing existing system data, including existing information on mains, services, leak history, etc.
- Researching and analyzing available GIS data sources to support grant submission requirements.
- Evaluating proposed projects or programs against the PHMSA NGDISM grant criteria.
- Providing administrative and technical support during the submission process.
- Assisting clients with grant compliance recordkeeping and reporting.

Project Owner:	Magnolia River Services, Inc.
Clients:	Confidential
Project Name:	Grant Management and Tier 2 Assessment

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Project Description:	Magnolia River and its teaming partner guided the 2023 funding recipient through the Tier 2 environmental assessment process and are currently awaiting PHMSA approval.
Scope Responsibility:	Magnolia River collaborated with McFadden Engineering to complete Tier 2 environmental assessment tasks for the 2023 PHMSA NGDISM funding recipient. The Tier 2 tasks included: 1) Project planning, management, and coordination of activities; 2) A site visit to review project route for environmental concerns; 3) The review of individual maps for environmental conditions; 4) The development of documentation for addressing environmental considerations identified in Tier 2 assessment process; and 5) Input PHMSA Tier 2 assessment information into Power Apps online portal for submittal. Magnolia River also advanced to the design phase for the replacement plan, aligning with the intent of the client’s grant application.

Project Owner:	MR of NC
Clients:	Confidential Clients
Project Name:	PHMSA NGDISM Grant Management
Project Description:	PHMSA NGDISM Grants
Scope Responsibility:	We have successfully navigated the 2022 funding recipients through the Tier 2 environmental assessment process, pre-award approval, reimbursement of expenses, quarterly progress reports, and engineering design. Currently, we are collaborating with the 2023 recipients on their Tier 2 environmental assessments and pre-approval award letters. For clients successfully awarded funding, Magnolia River has taken the next step in designing the actual replacement plan adhering to the intent of the client’s grant application.

References

City of Shelby, NC

Ronnie Davis

Energy Services Operations Manager

Phone: (704) 669-6552

ronnie.davis@cityofshelby.com

City of Rocky Mount, NC

Bradley Walters

Utility Director

Phone: (252) 467-4827

william.walters@rockymountnc.gov

City of Lexington, NC

Andy Thomas
Natural Gas Utility Director
Phone: (336) 248-3970
JAThomas@LexingtonNC.gov

Cordova Water and Gas Board

Susan Brown
Office Manager
Phone: (205) 483-9235
cordovah2o.gasutilities@gmail.com

SUBCONSULTANTS

In order to best serve GUC, MR of NC will engage SGC Engineering, LLC (SGC). SGC, an affiliated entity under the overarching Kinetic brand. SGC has offices in Charlotte, NC, and can be utilized for land survey. SGC, founded in 1999, has extensive experience providing survey, SUE, geospatial, GIS and mapping services to natural gas transportation, maintenance, and distribution industries. SGC is licensed to provide survey services in 35 states, and understands our client's need for the highest quality survey data, delivered on time and on budget, to support critical project development. SGC achieves these goals by leveraging a highly skilled workforce equipped with the latest in modern measurement technology and robust, attentive project management.

In addition, Magnolia River will utilize McFadden Engineering Inc. (McFadden) for environmental services. McFadden brings nearly a century of combined experience in civil and environmental engineering to the Southeast. Their team of professional engineers and professional geologists are licensed in multiple states,. McFadden's broad environmental engineering experience includes the developing best management practices for facility compliance, providing spill and response plan development for industrial clients, and determining treatment alternatives for meeting permitted discharge limits. McFadden works closely with the U.S. Environmental Protection Agency (EPA), the U.S. Geological Survey (USGS) and many other local, state, and federal agencies to ensure their work exceeds expectations on the highest levels. In addition, McFadden is an active member of the Water Environment Federation, Partners for Environmental Progress, and the Geological Society of America.

RATE SCHEDULE

Please find a copy of MR of NC's Professional Services Rate Schedule in Appendix B - Rate Schedule at the end of this proposal.

PROJECT SCHEDULE

See below conceptual project schedule.

Greenville Replacement Schedule															
Event	Week														
	1	2	3	4	5	6	7	8	9	10	11	12	13 - 37	38	39
Project Management	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Kickoff Meeting	X														
Horizontal Alignment	X	X													
Engineering		X	X	X	X	X									
HDD/JAB Design				X	X										
Permits (Highway)				X	X	X									
Environmental Permitting				X	X	X	X								
Procurement						X	X	X	X	X					
Final Plans/Review/Adjustments						X	X								
Pre-Bid Meeting								X							
Bid Packages/Bid Review									X	X	X				
Pre-Construction Meeting												X			
Construction and inspection													X		

Note: No right-of-way or easement acquisition is necessary for this project. The project schedule includes periods for community input through public comment. Schedule includes time for all required project approvals.

OFFICE LOCATION

Office Locations

We have a highly proficient staff locally in Kings Mountain, NC that is augmented by additional design and drafting personnel in our Decatur, AL headquarters location. We are focused on providing excellent support for our clients, which has resulted in a significant history of repeat customer engagements.

Name: Magnolia River of NC, PLLC

Address: 700 W King Street / Kings Mountain, NC 28086

Year Established: 1960

Type of Ownership: Management-Owned North Carolina Professional Limited Liability Company

Size of Company and Staff: 5

Name: Magnolia River Services, Inc. (Headquarters)

Address: 408 Bank Street / Decatur, AL 35601

Year Established: 2000

Type of Ownership: C Corporation

Size of Company and Staff: 475+

SPECIAL CONSIDERATIONS

Below are some of the special considerations for the project:

- Erosion and sediment control: Compliance with local and state stormwater management regulations.
- Traffic and pedestrian control: Roadway work zones must comply with NCDOT standards and local requirements.
- Emergency access: Maintaining access for fire and emergency services during construction.
- Customer communication: Advanced notification of potential service interruptions or property impacts.
- Restoration requirements: Roadway, landscaping, or hardscape restoration expectations from local authorities or private owners.
- Permit timing and review delays: Regulatory approvals can extend project duration.
- Unexpected field conditions: Discovery of undocumented utilities, abandoned infrastructure, or inclement weather.

FORMS

Please find the completed forms in Appendix C - Forms.

APPENDIX A – RESUMES

Confidentiality Disclaimer:

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EDUCATION

BS in Civil Engineering,
Auburn University



CREDENTIALS

Professional Engineer (PE):
AL (#19483), CT (#35988),
DE (#19731), GA (#20379),
KS (#28183), KY (#31898),
MD (#45979), ME (#17585),
NC (#49023), NH (#17265),
NJ (#24GE05674800),
NY (#106627), OH
(#86903), PA (#084240),
VA (#402063794), and WV
(#24958)

Member of the National
Society of Professional
Engineers (NSPE)

INDUSTRY KNOWLEDGE

Gas, Water, Wastewater

QUALIFICATIONS

Mr. Hughes has an extensive background in the gas, water, and wastewater industries with over 41 years of experience. Mr. Hughes is a registered Professional Engineer and has been the engineer of record for various projects within the utility industry. From his field engineering experience to the design side, Mr. Hughes has seen all aspects of transmission work. He has been involved with the broad concepts of desktop surveys for estimating routes/pipeline costs down to the details of overpressure calculations for hydrotest requirements and all designs in between. Some of his design capabilities include route selection, hydraulic sizing, HDD design, wheel load calculations, M&R station design, tie-in and retirement plans and as-built drawings. Mr. Hughes manages all phases of each project's life cycle and is responsible for day-to-day engineering services.

EXPERIENCE

TECO Peoples Gas / Fernandina Upgrading / FL Technical Lead.

- Develop a 58-page purge out of service plan for 17.5 miles of 12" transmission main. The plan includes five days of cross-compression to eliminate unnecessary releases of gas to the atmosphere.
- Develop 32-page purge into service plan including detailed nitrogen injection/pigging operations.

Liberty Utilities / 16" Transmission Pipeline / GA Technical Lead.

- Review client's estimate of nine miles of 16-inch pipeline and suggest adjustments based on experience and knowledge of pipeline construction. This new pipeline is more challenging than a single cross-country line as it shares an existing ROW with two 4-inch mains and an 8-inch main.
- Perform design reviews for HDDs to determine pipe strength analysis, adequate pipe cover for heavy equipment crossings, and hydrotest calculations.

TECO Peoples Gas / Fernandina Upgrading / FL

Technical Lead.

- Serve as team member reviewing 80,000 documents to sort and organize for client's Mega Rule evaluation of their 19 transmission lines.
- Serve as Professional Engineer for final report to determine if pipeline met TVC requirements of Mega Rule.
- Present final TVC findings to the client.

TECO Peoples Gas / Regulator Pilot Project / FL

Technical Lead.

- Review 10 district regulator stations to determine adequate sizing of regulators and to verify OPP. This involves calculating equivalent lengths of all piping and modeling the system to determine if pressure reductions prevented proper operation of the relief valves. Project requires a thorough understanding of manufacturer's regulator/relief valve operations.

Atmos Energy / Mid-States Division Design Projects / TN and KY

Senior Engineering Manager.

- Perform technical reviews of 13 HP steel replacement projects totaling 48 miles throughout Kentucky and Tennessee.
- Participate in all aspects of linear projects from route selections to QA reviews of as-built drawings.

Kinder Morgan / Multiple Projects / GA

Senior Engineering Manager.

- Manage a multiple-task project that involved reversing the natural gas flow in piping to a LNG facility.
- Design facilities to install the separation of existing 30-inch lines, including converting a 30-inch receiver trap into a launcher, converting a 30-inch launcher into a receiving trap, and removing check valve assemblies.
- Design multiple launcher/receivers and OPP controls to allow bidirectional flow to and from multiple pipelines.

EDUCATION

BS in Occupational Health and Safety, Columbia Southern University

AS in Process Technology, Calhoun Community College



PRODUCTS / PLATFORMS

AutoCAD, MicroStation, Microsoft Office Suite

INDUSTRY KNOWLEDGE

Gas, DoD

QUALIFICATIONS

Mr. Willingham is an experienced professional with over a decade of design and management experience within the natural gas industry. As a project manager, Mr. Willingham has consistently exhibited an exceptional ability to deliver high-quality projects to the diverse range of clients that Magnolia River serves. Mr. Willingham is dedicated to upholding established standards, technical directives, and client requirements, ensuring compliance throughout every step of the project. His expertise lies in applying specifications, standards, and quality assurance procedures ensuring the utmost quality and client satisfaction.

EXPERIENCE

Multiple Clients / Various Projects / Multiple States

Project Manager.

- Oversee and manage engineers, production teams, and subcontracting firms providing survey, land acquisition, geotechnical, environmental, cathodic protection design, and construction for various transmission and distribution piping projects.
- Provide services including proposal development, pipeline route development and analysis, development of design aspects for pipeline and facilities, procurement management, development of construction documents, permitting through state and local authorities, cost tracking, and project close-out.

TECO Peoples Gas / MAOP Verification / FL

Project Manager.

- Review transmission line documents which consist of 23 mainlines totaling approximately 195 miles.
- Review digitized documents and records to confirm the records are traceable, verifiable, and complete (TVC).
- Provide a Gap Analysis Report for each mainline summarizing the gap between the provided records and the needed records to confirm MAOP in accordance to PHMSA Mega Rule.

Atmos Energy / As-Builts / KY, TN, and VA

Project Manager.

- Manage design team for as-built and records review for various projects throughout the Mid-States region. The projects consisted of the replacement/addition of new pipelines and the installation of new meter and regulator facilities which tap into existing Atmos pipelines.

EDUCATION

MBA, University of South Florida

MS in Mechanical Engineering, University of North Florida

BS in Mechanical Engineering, Oil and Gas University, Romania



CREDENTIALS

Professional Engineer (PE): CT (#PEN-0036316), FL (#93051), MI (#6201311592), MO (#PE-2023042576), NY (#107015), NC (#54810), RI (#14618), TN (#127238), TX (#146693)

PRODUCTS / PLATFORMS

Technical Toolbox, GASWorkS

INDUSTRY KNOWLEDGE

Gas, Power Generation, LPG, Compliance

QUALIFICATIONS

Mrs. Orasheva is experienced in designing transmission lines, with valve sites and city gate stations, and is competent in leading engineering teams to execute time and budget sensitive projects to ensure product quality.

EXPERIENCE

TECO Peoples Gas / RNG / FL

Technical Lead.

- Lead design of M&R site projects, including regulator, control valve, meter specification, prefab skid design, launcher and receiver design, grounding plan design, electrical design, and pressure test planning.
- Lead the design of a 4-inch STL mainline pipe and coordinated permit support activities for county and state-regulated road crossings.

Consumers Energy / MMPL 100A 36" Pipeline / MI

Technical Lead.

- Lead design team on linear project.
- Linear design includes material specification and strength calculations, HDD design and calculations, hydrotest planning and calculations, and tie-in design and material specifications.
- Lead team on permitting requirements and permit document preparations. Permitting agencies include road commission, drain commission, and railroad permits.

Liberty Utilities / TIMP Gap Analysis / MO

Technical Lead.

- Lead team and provide guidance on TIMP Gap analysis.
- Provide recommendation on edits to TIMP to meet 49 CFR 192 Subpart O requirements.
- Develop task calendar for client to use as reference.

Lewisburg Gas Department / Waste Management Extension / TN

Technical Lead.

- Design 6-inch HDPE extension to the existing system with multiple HDDs and creek and wetland crossings.

APR Energy / Various Projects / Outside U.S.

Lead Performance Engineer.

- Validate and assess fuel and water consumption based on given ambient conditions and power requirements.
- Manage fuel and water testing method standards to determine acceptable use within APR power generating units.

APR Energy / Various Projects / U.S. Virgin Islands

Mechanical Engineer.

- Design power generation fuel and water piping systems for LPG projects.
- Serve as site lead mechanical engineer during installation.
- Manage and supervise day-to-day activities and work permitting requirements.
- Manage QA on pressure testing the piping systems, according to AMSE B31.1 standards.

EDUCATION

MS in Civil Engineering,
University of Alabama

BS in Civil Engineering,
University of Alabama



CREDENTIALS

Engineer in Training (EIT):
AL (#EI50334)

Land Surveyor in Training:
AL (#LSI50063)

PRODUCTS / PLATFORMS

AutoCAD, ArcGIS Pro,
ArcMap

INDUSTRY KNOWLEDGE

Gas, Land Survey

QUALIFICATIONS

Ms. Clark brings three years of experience in the natural gas industry, with a specialized focus in linear transmission pipelines HDD design, specifications, drafting, and cost estimation. Her expertise also encompasses land surveying, including boundary, topographic, and utility surveys. Additionally, Ms. Clark possess a strong working knowledge in DOT and county permitting processes.

EXPERIENCE

Consumers Energy / Line 100A Transmission / MI

Design Engineer.

- Create checklists for DOT and county requirements.
- Prepare alignment design.
- Draft design plans.
- Perform HDD calculations.
- Create KMZ files.
- Assist with valve site designs.

Liberty Utilities / Gainesville Linear / GA

Design Engineer.

- Oversee and coordinate permitting processes in compliance with GDOT, CSX, and county regulations.
- Design alignments.
- Develop and manage KMZ files for spatial data visualization and project planning.

TECO Peoples Gas / Polk County Landfill / FL

Design Engineer.

- Create checklists for DOT and county requirements.
- Design alignments.
- Create MOT drawing.

Multiple Clients / PHMSA NGDISM Grants / Multiple Locations

Design Engineer.

- Prepare and compile forms for federal fundng.
- Review existing system data, including existing information on mains, services, leak history, etc.
- Assit with developing comprehensive project budgets and scope proposals.

EDUCATION

AAS in Drafting and Design
Technology, Northwest
Shoals Community College



PRODUCTS / PLATFORMS

AutoCAD, MicroStation

INDUSTRY KNOWLEDGE

Gas, Chemical, Piping

QUALIFICATIONS

Mr. Bunt has eight years of experience as a CAD technician. Mr. Bunt has designed many projects for utility clients and is responsible for designing pipeline in CAD and/or GIS. Mr. Bunt has expertise in the linear design and distribution replacement of natural gas pipelines and designs during the project lifecycles. He also has worked on linear design of projects in MicroStation. Mr. Bunt has also been able to produce as-built packages for construction projects involving natural gas pipelines.

EXPERIENCE

CenterPoint Energy / Pre-1984 Steel and Plastic Replacement / TX Senior Design Technician.

- Work on replacement design (over 50 miles per year) of pre-1984 steel and plastic replacement.
- There are more than 300 projects in central and southern regions of Texas in residential, commercial, and industrial areas that have been worked on.

Consumers Energy / Transmission Line Installation / MI Senior Design Technician.

- Design 36 miles of steel pipe. The pipeline is divided among more than 30 project sheet alignments in the central and northern region of Michigan in residential, commercial, and industrial areas.
- Draft the gate stations along the 36-mile pipeline.
- Create as-built drawing packages per construction.
- Utilize survey markups and field data to complete drawings.

Duke Energy / Line 22 and Line 36 Replacement / NC Design Technician.

- Create as-built alignment and profiles for installed pipe per construction survey data.
- Utilize field survey to provide as-builts for gate stations and regulator stations along the pipeline route.

TECO Peoples Gas / Station As-builts / FL Design Technician.

- Create as-built drawing packages per construction.
- Utilize survey markups and field data to complete drawings.



Jason Leadingham PS
Vice President

With over 30 years of experience in the consulting industry, with the majority focused on the oil and gas market, Jason Leadingham has been a leader in the development of transmission and gathering pipeline systems in the emerging NGL, oil products, and natural gas plays. Jason has certifications in refinery and chemical operations and has intimate knowledge of linear pipeline projects. Licensed in multiple states, he has fostered a reputation for professionally executed work coupled with longstanding integrity and experience. Mr. Leadingham is a participating member in multiple trade organizations and sits on the Board of Directors for the INGAA foundation. Having managed over 2,500+ miles of pipeline projects for clients such as Energy Transfer, Nisource, Columbia Gas, Access Midstream, Mark West, Caiman Energy, Blue Racer Midstream, Duke, and others, he has developed a history of quality project execution and is a nationally recognized leader in pipeline project development. As a leader in the survey industry, his vision and leadership always remained the same: always execute projects with quality and integrity.

EDUCATION

Morehead State University, Morehead, Kentucky,
1993-1994

Degree, Kentucky Tech - Applied Process
Technologies (Refinery and Chemical Operations),
Ashland, KY, 1995-1996

REGISTRATIONS

Registered Land Surveyor #SUO075314,
Pennsylvania State Board of Professional Engineers,
Land Surveyors, and Geologists

Registered Land Surveyor #4734, North Carolina
Board of Examiners for Engineers & Surveyors

Registered Land Surveyor #050736, New York State
Professional Engineering & Land Surveying Board

Registered Land Surveyor #2129, West Virginia
Board of Professional Surveyors

Registered Land Surveyor #3791, Kentucky Board of
Engineers and Land Surveyors

Registered Land Surveyor #70518, Connecticut State
Board of Examiners for Professional Engineers
and Land Surveyors.

RELATED PROJECT EXPERIENCE SAMPLING

Oil and Gas Pipelines

Blue Racer Midstream, Multiple locations, West
Virginia, Pennsylvania, and Ohio (Project Manager)
*Start to finish project management for 400+ miles of gathering
systems and 100+ mile of trunk lines in the Marcellus and Utica
Shale plays. Pipeline route selection and revision, control
networks, client relations, crew management, data preparation
and processing along with QC and verification, construction
layout, drafting oversight.*

Stage Coach, Binghamton, NY (Project Manager)
*Start to finish spread management for layout and as-built of a
28-mile FERC regulated pipeline project. Planning and
oversight, employee and sub-consultant management, filed data
collection and processing, construction calculation/layout, data
processing along with QC and verification, client meeting and
progress reporting.*

Chattanooga Gas 16" Distribution Line Replacement
(Survey Project Manager)
*Survey project management for the survey and base mapping
of a 16" steel pipeline replacement project in Chattanooga, TN
for Southern Companies Gas. control networks, client
relations, crew management, data preparation and processing
along with QC and verification, boundary calculations, drafting
oversight on TCE and PE Plats.*

Millennium Pipeline Project, Steuben County to
Rockland County, NY (Project Manager)
*Start to finish spread management for layout and as-built of a
180+mile FERC Regulated pipeline project. Planning and
oversight, crew management, QC of field data collection and
processing, construction calculation/layout, data processing
along with QC and verification, client meeting and progress
reporting.*



(800) 581-4031



www.sgcsurvey.com



3800 Red Bank Rd., Suite C
Cincinnati, OH 45227



Christopher Michaud ^{PLS}
Director of Survey

As a Director of Survey for SGC Engineering, LLC, Mr. Michaud has over twenty-three years of surveying experience. Survey projects include working on: Unmanned Aerial Vehicles, UAV Inspection Surveys, Terrestrial and Aerial Lidar Surveys, Global Positioning Systems (GPS), Real-Time Kinematic and Static Surveys, Boundary Surveys, Topographic Surveys, Hydrographic Surveys, Subsurface Investigation Surveys, Corridor/Route Surveys and Construction Surveys. As the Director of Survey, Mr. Michaud plays an integral role in all aspects of surveys from directing and overseeing projects through to the production of the final product. His skills include the use of specialized equipment and various technologies, including experience operating a host of specialized software applications. Responsibilities include providing leadership, prototyping, and implementation of new technologies, processes, and procedures across the operating footprint of SGC.

EDUCATION

University of Maine, Orono, Maine
Masters in Engineering & Business
Concentration in Survey Engineering
2022

University of Maine, Orono, Maine
B.S. Spatial Information Engineering
2002

UAS Remote Pilot # 3933834

REGISTRATIONS

Arkansas – 1840
Connecticut – 70283
Georgia – LS003380
Idaho – L-17852
Indiana – LS21900004
Kansas – 1685
Kentucky – 4197
Maine – 2385
Missouri – LS-2019030297
New Hampshire – 1116
New Jersey – 24GS04330300
New Mexico – 25018
North Carolina – L-5344
North Dakota – LS-27754
Ohio - 8753
Oklahoma – 1919
Pennsylvania – SU075244
South Dakota – 13991
Utah – 11247775-2201
Vermont – 024.0132655
Virginia – 3240
Wisconsin – 3187-8

RELATED PROJECT EXPERIENCE SAMPLING

Oil and Gas Pipelines

Enbridge – Access Northeast Project (Project Manager)

Project Manager of Terrestrial Lidar facility surveys and Subsurface Utility Engineering (SUE) along the proposed project corridor. Responsible for the overall project management, quality control, and management of attribute rich spatial data collected along the 125-mile natural gas corridor from New Jersey through Massachusetts.

Atlanta Light and Gas (Senior Project Manager)

Responsible for working with multiple project managers and teams to support preliminary and as-built surveys on over twenty miles of local distribution lines located through-out the greater Atlanta area. In addition to survey support on projects, responsibility included the implementation of 3D Ground Penetrating Radar system to supplement Subsurface Utility Engineering (SUE) efforts on multiple projects.

Tennessee Gas Pipeline Northeast Upgrade Project

(Project Manager and Supervising Professional Land Surveyor)

The 40-mile natural gas pipeline looping project in Pennsylvania and New Jersey. Project responsibilities include for Registry Research, Preliminary Survey, Boundary Determination and compilation of a 400+ property parcel mosaic, Land Plats, Condemnation Plats, Legal Descriptions, Construction Stakeout, Construction As-Built and Construction Support.

Kinder Morgan – Palmetto Pipeline Project (Project Manager)

Responsible for the overall quality control, management, and integrity for field data collected and processed by survey data technicians related to the Preliminary Survey for an approximately 370-mile liquids line from Belton, South Carolina, through Georgia, to Jacksonville, Florida.

Maritimes and Northeast Phase IV Expansion – Preliminary Survey

(Project Manager)

Responsible for multiple crews conducting preliminary survey for a proposed pipeline looping project running 120 miles through Maine. While performing the route survey, special field procedures were implemented to correctly measure wire height and span sags. This information was collected in great detail to assist the future construction of the pipeline.

Spectra Energy – New Jersey/New York Expansion Project

(Supervising Professional Land Surveyor for the state of New Jersey)

The 26-mile natural gas pipeline project route passed through metropolitan New Jersey and connected to Lower Manhattan. Responsibilities included Boundary Determination, Boundary and Existing Conditions Plats and Exhibits, Legal Descriptions, Construction Stakeout, Construction As-Built and Construction Support during the three year project lifecycle.



(800) 581-4031



www.sgcsurvey.com



501 County Road
Westbrook, ME 04092



James "Skip" Strickland
Operations Manager

Operations Manager and Professional Land Surveyor with 38+ years of Land Surveying experience overall management for Oil and Gas projects related to Piedmont, Dominion, Duke, and various other clients. Skip began his training in the U.S. Army, and specializes in MAOP, pipeline routing, construction layout, and final as-builts of completed pipeline projects. Skip has managed all aspects of pipeline and station projects from new stations, station upgrades, gathering and transmission pipeline projects. Skip is a proud member of the Carolina Natural Gas Coalition and various other trade organizations and is active and known through the Carolinas Oil and Gas and survey community.

LICENSE INFORMATION

North Carolina Board of Examiners for Engineers and Land Surveyors L-4247

RELATED PROJECT EXPERIENCE SAMPLING

Oil and Gas Pipelines

Line 170

Hamlet NC to Wilmington NC

120 Mile Transmission Pipeline

(Project Manager)

Survey project management for the survey and base mapping of a natural gas project in North Carolina. I was responsible for the control networks, client relations, crew management, data preparation and processing along with QC and verification, boundary calculations, drafting oversight on TCE and PE Plats along with the construction support and asbuilt mapping after completion of the project.

100+ Misc. Pipeline Projects

(Project Manager)

Survey project management for the survey and base mapping of a natural gas project in North Carolina. I was responsible for the control networks, client relations, crew management, data preparation and processing along with QC and verification, boundary calculations, drafting oversight on TCE and PE Plats along with the construction support and asbuilt mapping after completion of the project.

RELATED PROJECT EXPERIENCE SAMPLING

Oil and Gas Pipelines

Transco to Concord

15 Mile Transmission Pipeline

(Project Manager)

Survey project management for the survey and base mapping of a natural gas project in North Carolina. I was responsible for the control networks, client relations, crew management, data preparation and processing along with QC and verification, boundary calculations, drafting oversight on TCE and PE Plats along with the construction support and asbuilt mapping after completion of the project.

Smithfield NC to Goldsboro NC

15 Mile Transmission Pipeline

(Project Manager)

Survey project management for the survey and base mapping of a natural gas project in North Carolina. I was responsible for the control networks, client relations, crew management, data preparation and processing along with QC and verification, boundary calculations, drafting oversight on TCE and PE Plats along with the construction support and asbuilt mapping after completion of the project.



(800) 581-4031



www.sgcsurveying.com



624 New Bridge Street,
Suite 600
Jacksonville, NC 28540

A. Frank McFadden, P.E.

President



Education

B.A. Biology/Chemistry, Asbury College, 1977 (now Asbury University)
B.S. Civil Engineering, Auburn University, 1981
M.S. Civil/Environmental Engineering, Auburn University, 1984
M.S. Coursework, Vanderbilt University, with W.Wesley Eckenfelder

Professional Registrations

Professional Engineer: Alabama – Registration Number 16189
Professional Engineer: Mississippi – Registration Number 10832
Professional Engineer: Florida – Registration Number 53782

Memberships

- ▶ Water Environment Federation (WEF)
- ▶ Alabama Water Environmental Association (AWEA)
- ▶ Partners for Environmental Progress (PEP)

Distinguishing Qualifications

- ▶ Over 34 years of experience with the incorporation of the life sciences, environmental engineering, and land development disciplines.
- ▶ Over 30 years of experience as CEO of McFadden Engineering, Inc. a civil and environmental engineering consulting firm and laboratory in Mobile, AL
- ▶ Began career by working with the Alabama Department of Environmental Management (ADEM).
- ▶ Holder of U.S. Patent Pending biological wastewater treatment process (OxyShark™) for residential, commercial, and industrial applications
- ▶ Manufacturer of (OxyShark™) patent pending wastewater system
- ▶ Prime engineering firm for delineating and cleanup of the largest known natural gas odorant groundwater release in the United States (Mobile Gas) using advanced oxidation treatment of groundwater
- ▶ Extensive experience with all aspects of permitting of onsite and larger wastewater systems through the Alabama Department of Public Health (ADPH) and the Alabama Department of Environmental Management (ADEM)
- ▶ Design and implementation of numerous ADPH onsite systems and ADEM UIC wastewater treatment plants from individual homes to a 2-million gallons per day industrial application
- ▶ Developed source code and numerous hydrology and water quality models for use in assessing waste load allocations.
- ▶ Development of innovative, site-specific water quality models for optimizing process operations and permit compliance
- ▶ Experience in assessment/analysis of water quality, surface water quality and quantity modeling and modeling scenario analysis
- ▶ Expertise in project/program management and project delivery systems
- ▶ Managed numerous successful projects for government and private/industrial sector clients
- ▶ Education and experience include multi-disciplined specialties of biology, chemistry, and engineering
- ▶ Experience in negotiating with government regulators for environmental infrastructure improvements in Kenya, East Africa
- ▶ Experience in directing the remediation of multiple dry cleaner, UST, and industrial sites.
- ▶ Directing numerous Phase I and Phase II environmental assessments.
- ▶ Experience in land development, commercial and residential real estate planning and design.
- ▶ Research and development of innovative wastewater treatment processes

Presentations and Publications

- ▶ “Diminishing the Impact of Wastewater on Treatment Infrastructure and the Environment”, presented at the American Society of Civil Engineers Alabama Conference, Orange Beach, AL, July 2017.
- ▶ “Wastewater Treatment Challenges in Developing Countries: A Case Study” presented at the Alabama Water Environment Association Annual Conference, Orange Beach, AL, April 2003.
- ▶ “Use of Water Hyacinths for Wastewater Treatment,” presented at the Innovative and Alternative Wastewater Treatment Seminar, AAWPC, Montgomery, Alabama, July 1985.
- ▶ “Nickel Removal from Nickel Plating Wastewater Using Iron, Carbonate, and Polymers for Precipitation and Co-precipitation,” presented at the 40th Annual Purdue Industrial Waste Conference, West Lafayette, Indiana, May 1985. Published in Conference Proceedings.

Relevant Experience

Mr. McFadden has extensive experience in environmental engineering, environmental planning, process design, water and sewer design, water quality model development and utilization, environmental assessments, and remediation of contaminated sites. As a former regulator with the Alabama Department of Environmental Management, a former environmental scientist with Oak Ridge National Lab, and current CEO of an environmental engineering consulting firm, he has the perspective on projects from all stakeholder positions, i.e., regulator, owner, engineer/scientist, and third parties. Having participated in “blue ribbon” panels with EPA, state regulators, industry, and environmental groups, he has the expertise, temperament, and inter-personal skills to mediate disputes arising out of environmental projects. In addition, Mr. McFadden has performed dozens of environmental assessments, developed numerous water quality models and waste load evaluations, water and wastewater process design, and remediation of contaminated commercial and industrial sites. He was appointed by the Governor of Alabama as a member of the Governor’s Environmental Advisory Council, providing expertise on environmental matters within the state.

Representative Projects

Principal/Design Engineer, Eight Mile Odor Investigation, Mobile Gas Service Corporation, Mobile, AL, Primary consultant for addressing an odorant release in the Eight Mile community near Prichard, Alabama. Assisted Mobile Gas with the assessment and investigation of the release and addressing the odor issue in the community with the design and implementation of two water treatment facilities. Served as liaison for Mobile Gas with ADEM and other state and federal regulatory agencies. Lead engineer on development and application of water treatment technologies used for mitigation purposes at the site.

Principal Engineer, Manufactured Gas Plant Remediation, Mobile Gas Service Corporation, Mobile, AL, Directing the voluntary cleanup of the historical ca. 1930 manufactured gas plant in Mobile, AL. Duties include managing the team of consultants employed to assist the Gas Co. in the ADEM Voluntary Cleanup Program and remediation of the site. In addition, MEI was responsible for the Preliminary Assessment and performing the associated tasks of determining the extent of contamination, developing hydrologic models of the stream (One Mile creek), directing air monitoring and a field meteorological station, providing documents for stakeholder meetings and the technical advisory committee, liaison for Mobile Gas with ADEM and other state and federal regulatory agencies, data evaluation from surface and subsurface investigation, and ongoing tasks as they develop.

Principal Engineer, Chaney Creek Watershed Assessment, USACE, Camp Shelby, MS, Directing fieldwork for data collection related to erosion/sedimentation issues from a tank range under construction. Managed field data collection portion of a study to determine effects of erosion and sedimentation from the MPRC-H site. Installation of field water quality sampling equipment, flow measurements, dye tracer studies and data reports were tasks performed in this study.

Principal/Design Engineer, CMOM Program Assistance, City of Robertsdale, AL, Developed Infiltration/Inflow (I/I) Reduction Program using GIS – based protocol as part of an initial effort to reduce I/I from the city’s aged sewer collection system. Project included the development of GIS sewer infrastructure maps, identification of problem areas in the system, and providing recommendations to City for managing its capacity issued from I/I. System was divided into sewer collection subareas to assist City personnel with maintenance schedules and evaluations were performed of all manholes, collection lines, and pump stations within the system. MEI also trained City personnel training in evaluation criteria so that problem areas can be identified in the future. Technology used was slip lining, CCTV, smoke testing, manhole and lift station repairs.

Principal/Design Engineer, CMOM Program Assistance, City of Robertsdale, AL, Evaluation of interceptor sewer lines for alternatives to in-situ repairs for I/I reduction. Evaluation considered new gravity construction, in-situ repairs of existing lines, pipe bursting technology for line replacement, and eliminating gravity sewers in favor of force mains and pump stations. As a result of the evaluation, a series of 5 pump stations and associated force main sewers were designed, thus replacing approximately 2.3 miles of interceptor sewers located in floodways.

Principal/Design Engineer, New River Bayou Restoration Project, Gonzales, LA., As a subconsultant, assisted in developing water quality criteria for evaluating the restoration of New River Bayou as a part of the overall impact on Lake Pontchartrain. Project included water quality monitoring plan, field surveys, and recommendations for continued evaluation of the Lake Pontchartrain Water Quality Initiative.

Water Quality/Process Design Expert Engineer, Buckeye Paper Environmental Permitting and Litigation, Perry, FL, Retained by the Florida Department of Environmental Quality in cooperation with the U.S. Environmental Protection Agency (EPA), Buckeye Paper, and the

Clean Water Network/ National Resource Defense Council to provide expertise on water quality and WWTP process design in a long-standing permit dispute between the stakeholders on the issuance of a 50 MGD NPDES permit for Buckeye. Tasks included review of the water quality model for the Fenholloway River, developing alternatives to the EPA recommendations for advanced wastewater treatment technology, and serving as a technical expert for the stakeholders.

Principal/Design Engineer, Choctaw Point Mitigation Project, Alabama State Port Authority, Mobile, AL. Sub-consultant responsible for generating hydraulic model and tidal creek design for overall wetland mitigation project. Tasks include directing design and installation of temporary tide stations, data collection, and model development. Developed a site-specific tidal model for the project.

Principal Engineer, Mobile Area Water and Sewer Service (MAWSS) CMOM Program Development Inspection and Evaluation of Lift Stations, Mobile, AL. As a sub consultant on this project, MEI conducted the evaluation of over 200 lift stations in the system including the determination of pump curves and the evaluation of pump performance. In addition, MEI assisted the client in the development of a critical spare parts list for the lift stations, performed a lift station standard specification review, and helped with the development of a pump standardization program.

Principal Engineer, UST Closure, Mobile Gas Service Corporation/Sempra Energy, Mobile, AL. Project includes phase I and II services for remediating the UST removal at the home office in Mobile, AL. Coordination of all activities related to the project.

Principal Engineer, Dry Cleaners Remediation, Master Cleaners, Mobile, AL. Project includes phase I, phase II, and corrective actions for 4 dry cleaner sites in Mobile and Saraland. Ongoing since 2000, MEI has provided all services required by ADEM and the Dry Cleaners Environmental Trust Fund Board to carry the sites ultimately to NFA. MEI has teamed with CH2MHILL and MacTec Engineering firms as a joint venture for the corrective action phase of the projects.

Principal Engineer, MAWSS Halls Mill and Eslava Creek Force Main Evaluation, Mobile, AL. As a sub consultant on the project, MEI reviewed existing force main "Record Drawings" and developed an overall profile to make a preliminary determination of areas of potential risk in these key force mains in the system. In addition, MEI performed visual inspections of these force mains where it was above ground to assess outer wall and air release valve conditions.

Principal Engineer, MAWSS CMOM Program Development Odor and Corrosion Evaluation, Mobile, AL. As a sub consultant on the project, MEI performed numerous tasks related to an odor and corrosion evaluation of specific pump stations in the system. These tasks included collecting product information for various odor and corrosion control options, contacting vendors to perform pilot studies at selected lift stations, accompany vendors on site visits to stations, collecting and evaluating pertinent data for determination of product performance, and developing cost estimates for implementation of odor and corrosion control equipment.

Principal Engineer, Cahaba River Modeling Phase II Village and Valley Creeks Water Quality, Birmingham, AL., MEI served as a sub consultant on the project. Specific tasks included acquisition of water quality data and river cross sections for the development of the water quality model for the project.

Principal/Design Engineer, Water and Wastewater Engineering Services, City of Robertsdale, AL. Responsible for the design of a 1.5-MGD advanced WWTP capable of discharging greater than 95-percent treated effluent. Services included; NPDES permit application, water quality model of Rock Creek, facilities design, operator training, and construction engineering. Also involved in design of a 1MG water storage tank, 1,200-gpm well, and iron removal WTP using the areas first MIOX[®] disinfection process using salt (NaCl) to produce mixed oxidants for disinfection, thus eliminating the need for using chlorine gas as a disinfectant reagent. In addition, was involved in the design of a pump station system that will allow the city to abandon its main interceptor line to the WWTP and reduce infiltration and inflow into the WWTP. Also responsible for development of a water and wastewater master plan for the city to assist in meeting infrastructure needs due to growth requirements in one of the fastest growing counties in Alabama.

Continuing Education

- U.S. EPA Region Four, "Water Quality Modeling Workshop, WASP 6.0"
- Auburn University Engineering Extension Service, "Stormwater Management: Detention, Sediment & Flood Control"
- Auburn University Engineering Extension Service, "Biological Treatment of Wastewater", W. Wesley Eckenfelder
- U.S. EPA Region Four, "Modeling of Estuaries"
- U.S. EPA Region Four, "Modeling of Toxic Substances", Donald O'Connor
- U.S. EPA Region Four, "Small Community Wastewater Seminar"
- U.S. Geological Survey, "Reaeration and Dye Tracer Methods"
- National Oceanic and Atmospheric Administration, "The Application of Water Level and Datum Information to Coastal Zone Management"



Brad Newton, P.E.

Vice President

2860 Dauphin Street, Suite D,

Mobile, Alabama 36606

(251) 470-6870

bnewton@mcfaddenengineering.com

EDUCATION:

University of South Alabama - Bachelor of Science in Civil Engineering, 1999

PROFESSIONAL REGISTRATIONS:

Professional Engineer: Alabama – License #26748
 Georgia – License #042248
 Tennessee - License #120510

PROFESSIONAL MEMBERSHIPS:

Water Environment Federation (WEF)
Alabama Water Environmental Association (AWEA)
Partners for Environmental Progress (PEP)

PUBLICATIONS AND PRESENTATIONS:

Alabama Water Environment Association Annual Conference (2010): Upgrade of the University of Mobile's Wastewater Treatment Plant using a Drip Disposal System.

Alabama-Mississippi Water Joint Annual Conference (2022): Groundwater Remediation for a Release of Mercaptan Used as a Natural Gas Odorant.

ACCOUNTABILITY AND GENERAL EXPERIENCE:

- Experienced in the permitting and design of numerous wastewater treatment and disposal systems for municipal, commercial, and industrial clients.
- Successfully permitted numerous effluent outfalls for large and small flow clients in Alabama including NPDES and Underground Injection Control (UIC) permits. Experience includes permitting for numerous wastewater treatment plants (WWTP), groundwater treatment facilities, and the largest UIC disposal system in Alabama for a poultry processing plant.
- Possesses experience in developing waste load allocations and water quality models used for the issuance of discharge permits. Experience includes field data acquisition, water quality model development, and determination of allowable loadings
- Extensive experience in managing site assessment and remediation projects including sites in the State of Alabama's Voluntary Cleanup Program and Dry Cleaners Trust Fund.
- Development of Corrective Action Plans for remedial activities at numerous sites.
- Experience in hydraulic modeling including HEC-RAS floodplain modeling for site development purposes and tidal creek design for wetland mitigation.
- Experienced in the design and construction of groundwater treatment systems for site remediation.

- Experience in conducting and reviewing environmental site assessments (ESA) including Tier 2 Environmental Assessments associated with PHMSA grant project.

REPRESENTATIVE EXPERIENCE:

Mr. Newton has over 25 years of civil and environmental engineering experience as an employee of McFadden Engineering, Inc. His work experience includes all aspects of engineering design and project management including the following:

- Design of water treatment systems for groundwater, wastewater, and potable water applications.
- Design of water distribution systems and wastewater collection systems.
- Modeling of existing water distribution system.
- Hydraulic modeling and no-rise certifications.
- Design of wastewater collection infrastructure and treatment facilities including pump stations and treatment equipment.
- Design of stormwater collection systems and detention areas.
- Environmental permitting including NPDES and UIC permits.
- Development of water quality models for industrial and commercial clients.
- Management of site investigation and site assessment activities.
- Conducting environmental due-diligence to evaluate sites for recognized environmental conditions.
- Development of GIS databases for municipalities.
- Experience with general civil design including all aspects of commercial development including stormwater detention facilities.

REPRESENTATIVE PROJECTS:

Spire Energy (formerly Mobile Gas Service Corporation) – Eight Mile Odor Investigation – Prichard, AL
Primary consultant for addressing an odorant release in the Eight Mile community near Prichard, Alabama. Assisted Mobile Gas with the assessment and investigation of the release and addressing the odor issue in the community with the design and implementation of two water treatment facilities and a groundwater transfer pump station. Served as liaison for Mobile Gas with ADEM and other state and federal regulatory agencies. Managed field teams and workflow for assessment activities and data collection activities related to the project. Assisted with design of both water treatment facilities at the site.

Spire Energy (formerly Mobile Gas Service Corporation) – Manufactured Gas Plant Remediation – Mobile, AL
Acted as Project Manager for all activities including site assessment, reporting, development of remedial approaches and plans, and regulatory liaison. Provided the Mobile Gas Services Corporation (MGSC) comprehensive environmental consulting services since the beginning of 2009 on this project. MEI provided a number of support activities for public involvement including presentations, coordination of meetings with regulatory agencies and stakeholders, and support for public notices and presentation information. MEI assembled and reviewed an extensive list of historical reports and data pertaining to the site, performed an initial investigation of the site and has identified the remediation method. MEI is responsible for management of the project, representing the owner with regulatory agencies, site assessment activities, development of health and safety plans, data collection, performing hydraulic modeling of adjacent streams using USACE HEC-RAS software, and preparing the client for meeting with corporate interests and stakeholders.

Richardson, Inc. – Rich's Car Wash Site Development and Water Treatment Facility – Mobile, AL

Retained by Richardson, Inc. (Rich's Car Wash) to assist them with the design and construction of a car wash facility off Airport Boulevard in west Mobile, Alabama. Assisted client with hydraulic modeling of Milkhouse Creek for site development activities, development of site design and layout, grading and drainage design, and design of a water treatment facility that would allow the facility to re-use water in the car wash or discharge the treated waters from the wash facility to nearby Milkhouse Creek. MEI also handled all permitting through the City of Mobile and the construction stormwater permitting with the Alabama Department of Environmental Management (ADEM).

Threaded Fasteners, Inc. – Facility Expansion – Mobile, AL

Retained by Threaded Fasteners, Inc. to provide planning and engineering services to expand its current operation by developing a portion of the 10-acre parcel for construction of an additional facility for a galvanizing operation. Assisted TFI with site design and layout, grading and drainage design, and design of a detention facility that would allow for additional expansion of the facility. MEI also handled all permitting through the City of Semmes and the construction stormwater permitting with the Alabama Department of Environmental Management (ADEM).

Alabama State Port Authority – McDuffie Coal Terminal. – RCRA Environmental Assessment – Mobile, AL

Retained by the Alabama State Port Authority (ASPA) and specifically McDuffie Coal Terminal (MCT) to perform an environmental assessment of MCT that would generally model a facility assessment in accordance with the Resource Conservation and Recovery Act (RCRA). MEI identified and gathered information on releases that had occurred at the facility and evaluated waste management units at the facility and other areas of concern. MEI made recommendations to MCT personnel on addressing items of concern, informed ASPA of potential concerns at the facility, and assisted with the implementation of the recommended activities.

Alabama State Port Authority – McDuffie Coal Terminal. – Development of Fugitive Dust Best Management Practices (BMPs) – Mobile, AL

Retained by the Alabama State Port Authority (ASPA) and specifically McDuffie Coal Terminal (MCT) in developing measures and practices to minimize fugitive dust emissions from the facility. MEI reviewed facility information and met with facility personnel to gain an understanding of the operational activities that could potentially cause fugitive dust at MCT so that BMPs could be developed and implemented at the facility.

Master Cleaners Dry Cleaning – Facilities Assessment and Remediation Project – Mobile, AL

Retained by Master Cleaners to act as the lead consultant and provide all planning, design, field work, and corrective action for remediating four dry cleaning facility sites in the Mobile, Alabama area under the Alabama Drycleaners Environmental Response Trust Fund (ADERTF). Master Cleaners has four dry cleaning facilities in the Mobile area, all with environmental remediation needed. MEI has worked with subconsultants to complete property assessments including the development of assessment and sampling plans. MEI also manages and conducts semiannual sampling of groundwater monitoring wells at each of the sites. MEI Work items include delineating contaminant plumes, preparation of reports and studies for ADEM and ADERTF review, developing corrective action plans for remediation of the sites, semiannual sampling and reporting of groundwater monitoring well network and managing the implementation of the corrective action measures. MEI has, on behalf of the client, prepared cost proposals to be submitted to the ADERTF Board for proposed work and prepared Reimbursement Forms for completed work that itemizes tasks performed on the project.

USACE – Chaney Creek Watershed Assessment – Camp Shelby, MS

Directing field work for data collection related to erosion/sedimentation issues from a tank range under construction. Managed field data collection portion of a study to determine effects of erosion and sedimentation from the MPRC-H site. Installation of field water quality sampling equipment, flow measurements, dye tracer studies and data reports were tasks performed in this study.

City of Robertsdale – Water and Wastewater Engineering Services – Robertsdale, AL

Involved with the design of 1.5-mgd advanced WWTP (Biolac Process®) capable of discharging more than 95-percent treated effluent. Services include ADEM NPDES permit application, water quality model of Rock Creek, operator training, and construction engineering. Also involved in design of 1-MG water storage tank, 1,200-gpm well, and WTP using the areas first MIOX® disinfection process using salt (NaCl) to produce mixed oxidants for disinfection, thus eliminating the need for using chlorine gas as a disinfectant reagent. In addition, was involved in the design of a pump station system that will allow the city to abandon its main interceptor line to the WWTP and reduce I/I to the WWTP. Also responsible for development of a water and wastewater master plan for the city to assist in meeting infrastructure needs due to growth requirements in one of the fastest growing counties in Alabama.

City of Robertsdale – CMOM Program Assistance – Robertsdale, AL

Developed Infiltration/Inflow (I/I) Reduction Program using GIS – based protocol as part of an initial effort to reduce I/I from the city’s aged sewer collection system. Project included the development of GIS sewer infrastructure maps, identification of problem areas in the system, and providing recommendations to City for managing its capacity issued from I/I. System was divided into sewer collection subareas to assist City personnel with maintenance schedules and evaluations were performed of all manholes, collection lines, and pump stations within the system. MEI also trained City personnel training in evaluation criteria so that problem areas can be identified in the future. Technology used was slip lining, CCTV, smoke testing, manhole and lift station repairs.

City of Robertsdale – CMOM Program Assistance – Robertsdale, AL

Evaluation of interceptor sewer lines for alternatives to in-situ repairs for I/I reduction. Evaluation considered new gravity construction, in-situ repairs of existing lines, pipe bursting technology for line replacement, and eliminating gravity sewers in favor of force mains and pump stations. As a result of the evaluation, a series of five pump stations and associated force main sewers were designed, thus replacing approximately 2.3 miles of interceptor sewers located in floodways.

New River Bayou – Restoration Project – Gonzales, LA

As a subconsultant, MEI assisted in developing water quality criteria for evaluating the restoration of New River Bayou as a part of the overall impact on Lake Pontchartrain. Project included water quality monitoring plan, field surveys, and recommendations for continued evaluation of the Lake Pontchartrain Water Quality Initiative.

University of Mobile – Design of Drip Disposal System – Saraland, AL

MEI was retained by the University of Mobile to assist in the elimination of the University’s direct discharge. A drip system was selected as the disposal option by transporting the treated effluent from the existing fixed activated sludge treatment process to an area with suitable soil conditions on the University’s property. Disposal sizing was optimized due to the existing treatment process reaching tertiary treatment levels. A 2-acre drip dispersal system was completed using GeoFlow® drip irrigation equipment.

Washington County Board of Education – Leroy H.S. Wastewater Treatment Facility – Leroy, AL

Procurement of NPDES and/or UIC permits for three high schools within the county. Services include permit application to ADEM, development of water quality model for waste load allocation, design of innovative wastewater process for discharge of tertiary-treated effluent to a low flow stream, construction engineering, and development of an O&M manual for operation of treatment plants.

Mobile Area Water and Sewer Service (MAWSS) – CMOM Program Development Inspection and Evaluation of Lift Stations – Mobile, AL

As a subconsultant on this project, MEI conducted the evaluation of over 200 lift stations in the system including the determination of pump curves and the evaluation of pump performance. In addition, MEI assisted the client in the development of a critical spare parts list for the lift stations, performed a lift station standard specification review, and helped with the development of a pump standardization program.

Mobile Area Water and Sewer Service (MAWSS) – CMOM Program Development Odor and Corrosion Evaluation – Mobile, AL

As a subconsultant on the project, MEI performed numerous tasks related to an odor and corrosion evaluation of specific pump stations in the system. These tasks included collecting product information for various odor and corrosion control options, contacting vendors to perform pilot studies at selected lift stations, accompany vendors on site visits to stations, collecting and evaluating pertinent data for determination of product performance, and developing cost estimates for implementation of odor and corrosion control equipment.

APPENDIX B – RATE SCHEDULE

Confidentiality Disclaimer:

The information contained in this document is confidential, privileged and only for the use of the named client, and may not be used, published or redistributed without the prior written consent of Magnolia River.





Proposed Professional Services Rate Schedule

Rates valid from 05/01/2023 until 05/01/2026

Provided by Magnolia River of North Carolina, Inc. (“Magnolia River”) For Greenville Utilities Commission (“Client”)

	Position	Rate
ENG	Professional Engineer/Technical Lead	\$ 186.00
	Senior Design Engineer	\$ 154.00
	Design Engineer/Project Specialist	\$ 135.00
	Project Coordinator	\$ 121.00
	Senior Drafting Technician	\$ 105.00
	Drafting Technician	\$ 89.00
	Position	Rate
PM	Program Manager	\$ 195.00
	Senior Project Manager	\$ 185.00
	Project Manager	\$ 175.00
	Assistant Project Manager	\$ 155.00
	Technical Writer	\$ 120.00
	Administration/Accounting	\$ 66.00

- Hours in excess of forty (40) hours per week will be charged at one and a half (1.5) times the standard rate.
- Rates listed will increase each year by 3%, with the initial increase going into effect on 05/01/2024 and subsequent increases effective every year thereafter on 05/01, unless mutually agreed to otherwise in writing by Magnolia River and Client.
- Subsistence for lodging, meals, and incidentals as defined by the GSA is guaranteed and will be billed to the client for scheduled worked and travel days.
 - Mileage for mobilization and demobilization will be billed at the standard IRS rate to/from the Magnolia River employee home office/home site to the project site.
 - Travel time for mobilization and demobilization will be billed at the hourly rate which corresponds with the labor category. A maximum of eight (8) hours travel time per day will be charged for travel.
 - Per diem (lodging and meals) for mobilization and demobilization for the number of required travel days to/from the project location.



- Non-GSA travel costs (airfare, rental car, etc.) and Other Direct Costs (ODC) incurred by Magnolia River, such as equipment rental, software license fees/maintenance, shipping, etc., will be invoiced to Client separately at cost plus 15%.
- Included in these hourly rates, Magnolia River will obtain all software needed for it to perform its professional services. These rates do not include providing Client with a license to view or use the deliverables. Client may need its own license(s) to the software(s) to view or use the deliverables.
- All sub-contractor invoicing shall be at cost plus 20% markup. (A copy of sub-contractor invoices shall be attached with the Magnolia River invoice at time of submission).

Client: _____

Accepted By: _____

Print Name: _____

Its: _____

Date: _____

Client: _____

Accepted By: _____

Print Name: _____

Its: _____

Date: _____

APPENDIX C - FORMS

Confidentiality Disclaimer:

The information contained in this document is confidential, privileged and only for the use of the named client, and may not be used, published or redistributed without the prior written consent of Magnolia River.



Attachment 3
E-Verify Form

Letter of Compliance to E-Verify for Greenville Utilities Commission. Please complete the form below.

1. I have submitted a bid for contract or desire to enter into a contract with the Greenville Utilities Commission;
2. As part of my duties and responsibilities pursuant to said bid and/or contract, I affirm that I am aware of and in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):
3. After hiring an employee to work in the United States I verify the work authorization of said employee through E-Verify and retain the record of the verification of work authorization while the employee is employed and for one year thereafter; or
4. I employ less than twenty-five (25) employees in the State of North Carolina.
5. As part of my duties and responsibilities pursuant to said bid and/or contract, I affirm that to the best of my knowledge and subcontractors employed as a part of this bid and/or contract, are in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):
6. After hiring an employee to work in the United States the subcontractor verifies the work authorization of said employee through E-Verify and retains the record of the verification of work authorization while the employee is employed and for one year thereafter; or
7. Employ less than twenty-five (25) employees in the State of North Carolina.

Specify subcontractor: _____

_____ Magnolia River of NC, PLLC _____ (Company Name)

By: _____ Linda Haft _____ (Typed Name)

_____  _____ (Authorized Signatory)

_____ HR Director _____ (Title)

_____ 10/10/25 _____ (Date)

It is certified that this proposal is made in good faith and without collusion or connection with any other person bidding on the same above listed items. It is also certified that this proposal is made in good faith and without collusion or connection with any GUC employee(s).

Certified check or cash for N/A or bid bond for N/A attached.

Firm Name: _____ Phone: (____) _____

Address: _____

City _____ State _____ Zip Code _____

Fax (____) _____ E-mail _____

Authorized Official _____ Title _____

Typed Name

_____ Date _____

Signature

Your Proposal should be received no later than October 14, 2025, 11:00 AM (EST)

RFQ Acknowledgement and Signature Form

RFQ No.: 25-59, Engineering Services for 2025 DIMP Gas Distribution System Improvements

The undersigned having carefully examined the location of the proposed work, the local conditions of the place where the work is to be done, the Invitation, the General Conditions, the Specifications and all of the documents for this project, proposes to enter into a contract with Greenville Utilities Commission in Greenville North Carolina perform the work listed in this RFQ, including all of its component parts, and to furnish any and all required labor, materials, equipment, insurance, bonding, taxes, transportation and services required for this project in strict conformity with the plans and specifications prepared, including any Addenda, within the time specified.

Addendum Acknowledgement:

The following addendum (addenda) is (are) acknowledged in this RFQ: N/A

Acknowledgement and Signature:

1. No Proposal is valid unless signed in ink by the person authorized to make the proposal.
2. I have carefully read, understand and agree to the terms and conditions on all pages of this RFQ. The undersigned agrees to furnish the services stipulated in this RFQ.

Respondent's Name and Title:

Company Name: Magnolia River of NC, PLLC

Address: 700 W King St. Kings Mountain, NC 28026

Telephone: (256)341-7066 Fax: N/A

Email: allen.hughes@magnolia-river.com Cell Number: _____

Contractor License # (if applicable): P-1178 Expiration Date: 6/30/2026

Federal Tax Identification Number: 46-2353308

Authorized Signature: *Allen Hughes* Date: 10/14/2025