



# STATEMENT OF QUALIFICATIONS

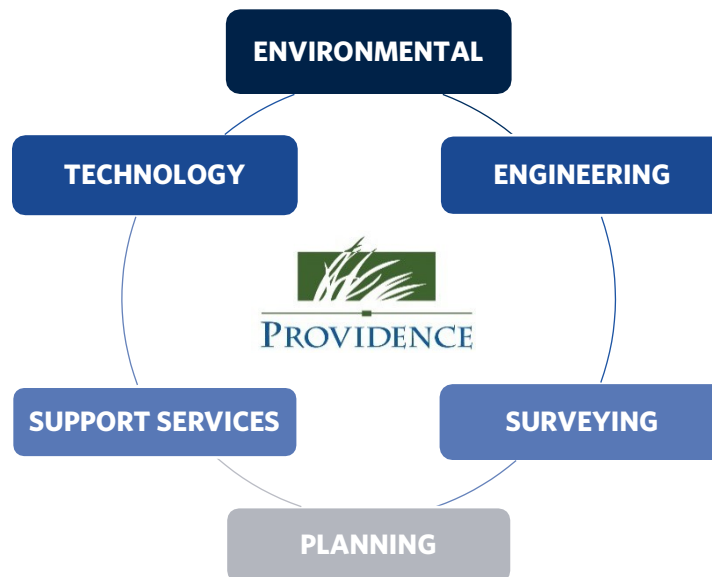
**Water Quality  
Environmental Services**



## ABOUT PROVIDENCE

Providence has offered high quality engineering and environmental consulting services to our clients since 2000. Our firm is recognized for its high-quality staff, superior client service, professional integrity, and its values are aligned with its definition: *the act of providing or preparing for future use or application; making ready*. This preparation for the future implies growth, sustainability, and new opportunities - which our firm enthusiastically embraces.

Providence has experience in all aspects of engineering, regulatory analyses, permitting, modeling, monitoring, and compliance. Our engineers and environmental scientists have successfully solved complex engineering and environmental challenges since inception and owe our success to emphasis on client relations, timely performance, strong project management, and a commitment to delivering quality deliverables.



Providence, an employee-owned company, began offering environmental consulting services to industrial clients in the Baton Rouge area. Through both acquisition and diversification, Providence now offers a much broader range of engineering and environmental services. We currently employ nearly 100 professionals with considerable knowledge and experience from within the commercial, academic, consulting, industrial, and regulatory fields.

Our professional personnel have worked with numerous local, state, and federal government entities, including the Coastal Protection and Restoration Authority (CPRA), the Louisiana Department of Environmental Quality (LDEQ), the Louisiana Department of Transportation and Development (LDOTD), the Texas Commission on Environmental Quality (TCEQ), the United States Army Corps of Engineers (USACE), the Environmental Protection Agency (EPA), and the Federal Emergency Management Agency (FEMA), among many others. We further serve a client base that includes many multinationals in a wide range of industries. Altogether, Providence has provided comprehensive professional engineering and environmental consulting services to over 500 clients in public and private sectors across the U.S.

## THE PROVIDENCE COMMITMENT TO QUALITY

Providence offers superior expertise and leadership, innovative solutions, and exceptional workmanship.

Quality service is imperative at Providence and is achieved by individuals performing work carefully and in conformance with project requirements and standard field/office procedures. A series of reviews are made at various stages of design to ensure the work is being developed according to the project's requirements. Through proactive communication and teamwork, cost escalations and overruns are minimized.

Providence has experienced significant growth over the years. We feel this reflects our commitment to providing quality services. For us, personal and professional integrity and competence are a must. It is a set of values reflected in our name, our vision, and our mission.

## OUR CULTURE

**VISION** Providing for the future...our clients, our employees, our communities.

**MISSION** Providence's mission is to focus on our clients' best interests now and into the future. This focus is sustained by employing the best people to provide the highest quality services, with innovation and integrity.



## A PROMISE TO HEALTH AND SAFETY

Protecting the health, safety, and well-being of our employees and the community is a core value of Providence. We provide a safe workplace, and our employees share the company's goal of ensuring operational safety and reliability. We believe all incidents and injuries are preventable and our safety policy stresses commitment to employee health and environmentally sound protocols. This policy also emphasizes procedures that provide a safe and protected working environment for employees, those who work on our behalf, and our neighbors. Providence is committed to operational excellence and a work environment that is incident and injury-free.

Providence appreciates the opportunity to showcase our capabilities and personnel and looks forward to exceeding expectations. Providence prides itself on our responsiveness to our clients' needs and requests, as well as our level of expertise pertaining to environmental issues. Our ethical work practices, cost-effective solutions, and unrelenting commitment to our clients has allowed us to not only grow but also continue to focus on the clients' best interests now and into the future.

Information about our **SURFACE WATER EXPERTISE** can be found on the following pages.



## OUR SURFACE WATER EXPERTISE

### PERMITTING AND COMPLIANCE

Generally, construction or modification of an industrial facility with water discharges requires that a water discharge permit be issued or modified. As such, obtaining a water discharge permit is typically a critical path in any major construction project. Providence has successfully prepared complex water permit applications and completed the permitting process within extremely aggressive schedules.

Depending on the scope of the project, these **PERMITTING SERVICES** may include:

- Analysis of regulatory permitting requirements, applicability determination, and permit strategy development
- Assistance in site selection as it relates to water permit feasibility
- Preparation of USEPA and LDEQ Application Forms
- Preparation of Construction Stormwater Permitting Application
- Preparation of §316(b) Application Requirements
- Water quality modeling on the discharge and receiving stream
- Calculation of technology and water quality-based effluent limitations
- New and renewal of Minor and Major source water permits, variances, and permit appeals

Providence also provides the following **COMPLIANCE MANAGEMENT** services:

- Development of compliance programs for all applicable water regulatory requirements, including compliance calendars, compliance tools, compliance manuals, and compliance training
- Preparation of reports and plans required by the water quality regulations and NPDES permits including SWPPP, SPC/SPCC Plans and Emergency Response Plans
- Preparation of discharge monitoring reports, including Whole Effluent Toxicity Reporting and Toxicity Reduction Evaluations (TRE)
- Preparation of compliance reports, including §316(b) annual reports, construction permit progress reports, quarterly, semiannual, and annual compliance reports
- Integration of hardware and software for development of spreadsheet and database tools for reporting and data management related to discharge analyses and on-going compliance

### WATER QUALITY MONITORING AND ASSESSMENT

**MONITORING AND ASSESSMENT** services include:

- Wastewater and storm water field sampling
- EPA 1600 Series Clean Technique procedures for trace metal monitoring
- Entrainment and impingement sampling
- Water Quality modeling and mixing zone analysis
- Total Maximum Daily Loads (TMDLs) and individual waste load allocations-technical analyses, modeling, and negotiations



## INSPECTIONS AND MAINTENANCE

**INSPECTION AND MAINTENANCE** services include:

- Wastewater treatment operations and maintenance
- Wet-weather and dry-weather storm water inspections
- Construction storm water inspections
- Cross-connection surveys
- Backflow prevention device inspections
- AST Tank inspections STI SP001

## RECENT PROJECT EXPERIENCE

### PERMITTING AND COMPLIANCE

Providence has assisted its clients in obtaining necessary **WATER PERMITS FOR CONSTRUCTION AND OPERATION** of a wide range of facilities and has completed hundreds of water discharge permit applications.

The following list provides is a highlight of the experience of Providence and its water quality staff:

- Prepared a complete package of water permit applications for multiple multi-billion-dollar greenfield chemical manufacturing facilities in Louisiana. Through this process Providence performed extensive modeling for both discharge pollutants and intake water negotiations and coordinated public outreach activities. Providence also prepared all other environmental permit applications and the Environmental Assessment Statements (EAS) required by the state
- Completed numerous water permit applications for construction of new facilities in multiple states, including wood processing plants, power plants, chemical plants, cement plants, refineries, pulp and paper mills, and tire manufacturing plants. Several of these permits were contested and Providence staff assisted clients in legal proceedings to resolve permitting issues
- Provided strategic advice to clients selecting sites for new construction, including permitting feasibility, water quality modeling, and projection of technology and water quality-based permit limitations.
- Completed hundreds of minor source water permit renewal applications (initial, renewal, or modifications) in a wide range of industries
- Assisted clients with determination of the applicability of §316(b) requirements
- Provided water regulatory compliance assistance to dozens of clients on an on-going basis. Assisted with rule interpretations, applicability determinations, periodic compliance reporting, including preparation and submittal of discharge monitoring reports
- Developed compliance manuals and compliance calendars for multiple clients and conducted compliance training for personnel
- Assisted in the design and site selection process to ensure sufficient availability and the acquisition of water resources required for manufacturing operations

- Address potential discharge limitations and wastewater treatment impacts due to any process and regulatory limitations, including Addressing issues related to technology-based effluent limits (TBELs) and water quality-based effluent limits (WQBELs)

Providence's involvement in **GREENFIELD PROJECTS RELATED TO WATER QUALITY ISSUES** has enabled our clients to identify and assure that sufficient water resources are available (through reconnaissance and negotiations) from water resource management agencies.

## **MONITORING AND ASSESSMENT**

Providence routinely assists its clients in collecting and reporting of both **EFFLUENT AND AMBIENT DATA** for a wide range of facilities, ranging from small businesses to multi-billion-dollar greenfield chemical manufacturing facilities. Providence staff have conducted hundreds of dry weather and wet weather water sampling events.

The following list provides is a highlight of the experience of Providence and its water quality staff:

- Completed outfall sampling events for all the National Pollutant Discharge Elimination System (NPDES)/Louisiana Pollutant Discharge Elimination Systems (NPDES) required effluent parameters and all priority pollutants required by the water quality regulations
- Conducted clean techniques procedures sampling events for trace metals for clients affected by the TMDL for Toxics in the Calcasieu Estuary
- Completed ambient monitoring for data to be utilized in the development of requests for water quality criteria and standards changes through the Use Attainability Analysis process and water effects ratios.
- Completed ambient and outfall samples for use in development of TMDLs
- Completed Cormix mixing zone modeling for various clients to demonstrate the potential impacts of point source discharges in both streams and tidal conditions for a variety of conventional and toxic pollutants
- Completion of watershed models both from a hydraulic and water quality perspective to assist state, local and private clients in making both economic and environmental decisions.

## **INSPECTIONS AND MAINTENANCE**

Providence routinely **CONDUCTS INSPECTIONS** for its municipal and industrial clients. Providence staff has conducted hundreds of inspections at numerous facilities.

The following list provides is a highlight of the experience of Providence and its water quality staff:

- Completed wastewater treatment plant inspections and performed routine maintenance on numerous wastewater treatment plants
- Conducted numerous dry-weather and wet-weather storm water inspections
- Conducted construction storm water inspections
- Completed cross-connection surveys for industrial facilities and private utility companies
- Completed backflow prevention device inspections
- Completed AST Tank inspections STI SP001

## OUR PERSONNEL

Detailed resumes for our Surface Water Quality Staff can be found on the following pages. Information includes a professional biography with education background and specific client experience with detailed summaries. Providence appreciates the opportunity to showcase our capabilities and personnel and looks forward to exceeding expectations.