

T. Baker Smith (TBS) leverages a suite of integrated professional services to our clients in the industrial market who work diligently producing petrochemicals, refined products, manufacturing supplies, and energy to provide us with the goods necessary to sustain and improve our way of life. With safety at our core, we continuously develop new and innovative approaches to efficiently and safely deliver project outcomes. Through our understanding of clients' needs and dedicated responsiveness, TBS becomes a trusted advisor, providing integrated solutions during the planning, design, construction, and operations and maintenance phases of our clients' projects.



INDUSTRIAL SOLUTIONS

-+ Planning

- Due Diligence
- Site Feasibility Analysis
- Conceptual Site Layout
- Conceptual Drainage Analysis
- Master Planning

+ Design & Engineering

- Permitting & Agency Coordination
- Biological & Natural Resources Surveys
- Civil, Structural, & Mechanical Engineering
- Land Surveying
- Hydrographic Surveying
- Unmanned Aerial Systems (UAS)
- Subsurface Utility Engineering (SUE)

+ Construction

- Construction Layout/Monitoring
- Laser Scanning
- Dimensional Control Surveying
- As-built Surveying & Documentation
- Environmental Inspection & Monitoring
- SWPPP Development & Inspection

-+ Operations & Maintenance

- Security Plans, Emergency Plans, Spill Plans, & Operations Manuals
- Civil, Structural, & Mechanical Engineering
- Laser Scanning
- Aerial Inspections & Assessments
- U.S. Army Corps of Engineers 404/10 or 408 Permitting
- Geospatial Solutions







INDUSTRIAL **EXPERIENCE**



New Transmission Line Installation

Entergy Louisiana planned to build a new 15-mile transmission line to increase electrical service reliability to businesses and residents located south of New Orleans. TBS' role in this project was to assist in the overall goal of reducing impacts to wetlands, wildlife habitats, water quality, and the valuable resources located in Jean Lafitte National Historical Park and Preserve. TBS provided the following integrated services: environmental surveys and permitting; land surveying; regulatory compliance/permitting services; and feasibility/planning/alternative analysis.



Topographic and Hazard Surveys

TBS has worked with many facilities to provide topographic, boundary, hazard, and various other services as part of their planned facility expansions and improvements. Surveying services and solutions provided the upfront data collection necessary for the proper planning and layout of these expansions. Data collected was processed and mapped, and TBS worked with both in house engineers and other firms as part of the team to help ensure the safe and successful expansion.



Industrial Measurement – Pipe Spool Surveying

TBS monitored and performed dimensional control surveying in "real-time" of pipe spool fabrication operations, maintaining 1mm accuracies throughout fit-up and welding process. TBS conducted dimensional control operations utilizing highly accurate robotic total station surveying instruments and industrial measurement software to monitor and measure pipe spools during fabrication operations. Surveyors worked 12-hour shifts day and night to ensure pipe spools were fabricated to within the project specifications of 1.5mm. Lengths, heights, flange face squareness, bolt hole orientation, and isometric redlining were some of the measurements taken in real time on location to allow the fabrication team to quickly resume operations.



Industrial Measurement at Refineries and Chemical Plants

TBS was tasked with gathering "as-is" 3-D laser scan data for structural and piping design teams to accurately plan, create, design, and route new piping and structural tie-ins from existing multi-level infrastructure. TBS performed several laser-scanning surveys to accurately 3-dimensional map existing pipe racks, structural components, and electrical and instrumentations trays. The field data was gathered using a combination of traditional surveying techniques with advanced total stations and 3-D laser scanning to complete the project. The 3-D point cloud field data was gathered in a couple of days, georeferenced to plant coordinates, and delivered to structural and piping designers to create as-built intelligent 3-D models.



Petrochemical Facility – SUE Services

T. Baker Smith, LLC was contracted to assist in the placement of a new electric distribution structure within an existing facility in Louisiana. The design of the structure included an elevated platform, multiple poles and transformers as well as associated buried cabling and conduits, all within a very congested area. Records research was conducted, but no drawings or as-built data for existing utilities was available. Surveying the above-ground appurtenances within the area revealed the likely presence of multiple telecommunications lines, buried electric lines, gas and fuel pipelines, and water lines. These utilities were designated electronically, surveyed, and mapped according to CI/ASCE 38-92 standards. Several conflicts were identified between the design and the existing buried facilities. TBS performed a SUE Level A to verify the precise locations of the existing lines at the areas of potential conflict, which allowed the project engineer to adjust the placement of key structures and resolve these conflicts prior to construction.

LOCATIONS

Lafayette, Louisiana	337.735.2800
Baton Rouge, Louisiana	225.744.2100
Thibodaux, Louisiana	985.446.7970
Covington, Louisiana	985.302.0730

Metairie, Louisiana	504.323.3460
Houston, Texas	281.240.0113
Corpus Christi, Texas	361.334.5719
Galveston, Texas	409.220.1669
Jackson, Mississippi	985.868.1050

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CORPORATE HEADQUARTERS

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