

## **St. Charles Parish East Bank Sewer Masterplan**

Kyle Associates, LLC (Kyle Associates) has been retained to develop a sewer master plan for the East Bank of St. Charles Parish. Much work has been done and collection system evaluations have been completed in certain areas of the East Bank over the last 20 years. Several portions of the wastewater collection system on the East Bank of St. Charles Parish are still prone to sanitary sewer overflows (SSOs) during wet weather events. Flow modeling of these areas has been done over 10 years ago but further evaluation and capital improvements are needed. There are still large amounts of wastewater runoff from an overburdened sewerage system caused by large amounts of Infiltration and Inflow (I&I) in the system. Areas on the East Bank need further repair and rehabilitation. The plan will identify the locations of I&I and potential methods to alleviate these problem areas.

Kyle Associates will further analyze and develop the flow monitoring and modeling data that was complete over 10 years ago. The scope of services to be provided include redeveloping the flow monitoring and modeling services followed by preparation of a corrective action report to develop a Capital Improvements Plan (CIP). Based upon the outcome of the modeling efforts, a corrective action plan, including rehabilitation and/ or capacity improvements will reduce the I&I problems within the Parish's wastewater collection system.

These master planning efforts will be performed in phases with Phase I being the following:

### **Phase I – Planning/Data Gathering /Preliminary Evaluation**

#### **1.1 Background**

Review current conditions of the wastewater collection system on the East Bank of St. Charles Parish. Conduct discussions with St. Charles Parish wastewater staff to gather information on the problems plaguing the sewer collection system throughout the East Bank.

#### **1.2 Collection System Overview**

Gather all reports and data pertaining to the entire east bank collection system. Review all data and compare with background investigation.

#### **1.3 Existing System Conditions**

Review all reports, designed improvement packages, existing model data, and collection system evaluations conducted over the past 20 years.

#### **1.4 System Lift Station Assessment**

Assess the current conditions and operational capabilities of the all lift stations in the east bank collection system, including those at the Destrehan Wastewater Treatment Plant.

**Deliverable** – Prepare a report of all data gathered and evaluations conducted to assist the Parish with planning for further Sewer System Evaluation and Survey (SSES) planning to develop a Capital Improvements Plan (CIP) for the east bank sewer collection system.

**Professional Services Fee** - It is anticipated that this phase of the project will take approximately 120 calendar days to complete. Fee for this phase of the project shall be lump sum amount of \$115,710. The following is an estimated breakdown of the staff assignments and man-hours for this phase of the project:

Position	Description	Hourly Rate	Hours	Subtotal
Principal/Senior Engineer	Project Manager	\$185	150	\$27,750
Civil Engineer	Project Engineer	\$130	500	\$65,000
CADD Technician III	Model/GIS Review and Analyzing	\$95	80	\$7,600
Civil Technician I	Field Verification/Data Gathering	\$60	240	\$14,400
Administrative	Report Preparation	\$60	16	\$960
			Total	\$115,710