



## Legislation Details (With Text)

**File #:** 20-0041      **Version:** 1      **Name:** WW1801D ARKK Sanitary WW System Evaluation  
**Type:** Agenda Item      **Status:** Approved  
**File created:** 1/17/2020      **In control:** Budget and Project Management  
**On agenda:** 1/28/2020      **Final action:** 1/28/2020  
**Title:** Consider and take action on a resolution authorizing a professional services agreement with ARKK Engineers, LLC for analysis services related to the Sanitary Wastewater System Evaluation project (WW1801D) in an amount not to exceed \$569,656 (Director of Budget and Project Management)

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:** 1. Data Sheet, 2. Proposed Resolution, 3. Exhibit A - Agreement with ARKK Engineers, 4. SSES Basin Map, 5. CIP Project Sheet, 6. Vendor Report Card

Date	Ver.	Action By	Action	Result
1/28/2020	1	City Council	Approved	Pass

Consider and take action on a resolution authorizing a professional services agreement with ARKK Engineers, LLC for analysis services related to the Sanitary Wastewater System Evaluation project (WW1801D) in an amount not to exceed \$569,656 (Director of Budget and Project Management)

Approval of this resolution will authorize funding for the professional services agreement with ARKK Engineers, LLC for analysis services related to the Sanitary Wastewater System Evaluation Project (WW1801D).

In 2017, the City of League City embarked on a sanitary sewer infiltration and inflow reduction survey by performing a City-Wide evaluation of the sanitary sewer collection system by means of flow and rainfall monitoring and subsequent field investigations in selected basins that exhibited the highest amounts of inflow and infiltration. The purpose of the flow and rainfall monitoring was to prioritize the basins with excessive amounts of inflow and infiltration. The City-Wide flow and rainfall monitoring study identified basins LC-09, LC-19, and LC-22 to be exhibiting highest excessive amounts of inflow and infiltration and follow-up field investigations of these basins by smoke testing, dye testing, TV inspection, and manhole inspections were performed. The study recommendations from the field investigations were summarized in the **“2017 Wastewater System Evaluation Report (2017 Study) submitted to the City in 2019”**. The rehabilitation of the highest priority lines identified from the 2017 Study is scheduled to occur in 2020-2021.

This Phase 2 proposal incorporates the field investigations of the next highest inflow and infiltration priority basins (LC15, LC06, LC24, and LC09 (portion only - this basin was selected by the City due to on-going maintenance issues)) recommended from the City-wide flow and rainfall monitoring study (2017 Study) and recommended for further field investigation. The field investigation will include smoke testing, dye testing, TV inspection, manhole analysis, and field investigation recommendations.

As utilized previously, ARKK will use the services of a subcontractor, RJN Group, to perform services associated with the following project elements:

- Smoke testing of approximately 269,100 linear feet in basins LC15, LC06, LC24, and LC09.
- 20 dye tests in basins LC15, LC06, LC24, and LC09. Dyed water testing will be utilized to confirm suspected cross-connections with storm sewers and other waterways.
- Closed-Caption Television (CCTV) Inspections of approximately 22,000 linear feet of small diameter pipes (less than 18-inch diameter) for basins LC15, LC06, LC24, and LC09. Additionally, the project includes 2,500 linear

feet of CCTV for representative larger diameter mains in basin LC15. The areas designated for television inspection will be identified from the smoke testing results.

- Manhole inspection data review and analysis for approximately 1,450 structures from basins LC15, LC06, LC24, and LC09. Manhole inspections will be performed by City staff.
- Data Analysis and Reporting - The results of the field work and study will be compiled into a report and submitted to the City.
- Basins LC19 & LC22 Manhole Defect Analysis and amendment to 2017 Study Report. Manhole inspections for Basins LC19 & LC22 were performed by City staff.

**Attachments:**

1. Data Sheet
2. Proposed Resolution
3. Exhibit A - Agreement with ARKK Engineers
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5. CIP Project Sheet
6. Vendor Report Card

**CONTRACT ORIGINATION:** Professional Services Agreement with ARKK Engineers, LLC has been reviewed and approved by City Attorney's office

**FUNDING**

{X} Funding in the amount of \$569,656 is available from 2017CO W/WW Fund 1345 (\$116,100), with expenses charged to project expense string WW1801D - CONSULT-STUDY-2017CO W/WW and Utility Capital Projects Fund 1055 (\$453,556), with expenses charged to WW1801D - CONSULT-STUDY-RS CASH

**STRATEGIC PLANNING**

{X} NOT APPLICABLE