

**TOWN**  
*Of*  
**PARADISE VALLEY**



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**STAFF REPORT**

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**TO:** Mayor Bien-Willner and Town Council Members

**FROM:** Jill Keimach, Town Manager  
Lisa Collins, Community Development Director  
Paul Mood, Town Engineer

**DATE:** January 28, 2021

**AGENDA TITLE:**

**Approval of engineering contract CON-21-156-ENG with Michael Baker International, Inc. in an amount not to exceed \$159,595.00 for sanitary sewer flow monitoring and analysis per the Town's Intergovernmental Agreement with the City of Scottsdale for wastewater treatment.**

**RECOMMENDATION:**

Staff recommends approval of engineering contract CON-21-156-ENG in an amount not to exceed \$159,595.00 with Michael Baker international, Inc. for sanitary sewer flow monitoring and analysis per the Town's Intergovernmental Agreement with the City of Scottsdale for wastewater treatment.

**SUMMARY STATEMENT:**

The Town of Paradise Valley entered into an Intergovernmental Agreement (IGA) with the City of Scottsdale for wastewater treatment in May of 2016. Per the IGA the Town's total system capacity available for treatment by the City of Scottdale is 1,026,479 gallons per day. At the time of the IGA the Town's total sewer system flow was determined to be 460,000 gallons per day. When the Town's total system flow exceeds 90% of the total system treatment capacity, the Town is required to begin the process to review purchasing additional treatment capacity.

Per Section 3.3.2 of the IGA, the Town is responsible to determine its total system flow at a frequency of no less than five years from the execution of the IGA by installing flow monitors at the points of discharge from the sanitary sewer service area to the City of Scottsdale. Flow monitoring is to be conducted in the month of March for a minimum of a nine-day period and include two or more weekends.

The Town's sewer service area contains nineteen sub-basins and associated points of discharge to the City of Scottsdale. There are between twelve and sixteen discharge manhole locations that have enough flows for accurate flow monitoring. Sub-basins that cannot be directly monitored are anticipated to have their flows calculated through an engineering analysis process. The engineering services contract with Michael Baker International will provide for flow monitoring at 12 discharge locations with an allowance for four additional locations if needed. Data collected from the flow monitors will be

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analyzed to determine the average daily flow of wastewater from each sub-basin. This data will also be used to determine the average daily flows from the sub-basins that cannot be directly monitored. A final report will be provided to the Town of Paradise Valley and City of Scottsdale outlining the average daily flows from each sub-basin as well as the overall system.

**BUDGETARY IMPACT:**

The Sanitary Sewer Assessment project is identified in the Town's Capital Improvement Program for FY2020-21 and includes the sanitary sewer flow monitoring required per the Intergovernmental Agreement with the City of Scottsdale. The sewer flow monitoring contract in the amount of 159,595.00 is within the overall CIP project budget of \$605,000.00

**ATTACHMENT(S):**

- A. Staff Report
- B. Contract CON-21-156-ENG
- C. Sewer System Assessment CIP Project Sheet
- D. Sanitary Sewer Intergovernmental Agreement