City of **JOPLIN** City Council Agenda Item

Requested Council Meeting Date: January 16, 2018
Council Bill No. 2018-101

Item: Work Authorization with Allgeier-Martin & Associates Inc., for Engineering Services Associated with the Installation for Design, Bidding and Construction Management for the Replacement of a Screw Pump at the Turkey Creek Wastewater Treatment Plant.

Originating Department: Public Works – Operations

Attachments: 1) Work Authorization (AMA-OC-18-001)
2) Council Bill No. 2018-101

Department Head:	David Hertzberg
Finance Department:	Leslie Haase
City Attorney:	Peter C. Edwards
City Manager:	Samuel L. Anselm

Recommended Action: Approval of a Work Authorization with Allgeier, Martin & Associates Inc. in the not to exceed amount of $164,352.00 for engineering design, bidding and construction management services associated with the replacement of a Screw Pump at the Turkey Creek Wastewater Treatment Facility.

Background: One of the first parts of the treatment process at the Turkey Creek Wastewater Treatment Plant are the Screw Pumps. They pump the raw sewage up to the next level to the grit chambers. Each one of the Screw Pumps is rated to pump 14 million gallons a day (MGD), but because of their age and use they have lost about 25 to 30 percent since they are pumping at 10 MGD a piece. This is one of first procedures during the treatment process. The plant currently has two Screw Pumps and two submersible pumps located at the head-works. The life expectancy of this type of equipment is about 15 years, both of these were originally installed in 1985 and replaced in 2001; this type of equipment has to be periodically replaced to ensure proper wastewater treatment.

Additionally, there are two boilers at the plant one in each of the anaerobic digesters. One was installed when the plant opened in 1985 and the other was installed in 1997 in the newly constructed anaerobic digester. The boiler that was installed in 1985 needs to be replaced.

Discussion: The firm of Allgeier-Martin & Associates has been selected from the list of On-call Engineering firms to provide the professional engineering services needed to accomplish this replacement and maintenance project. The scope of work will include the preparation of design and bidding documents that will provide for the replacement of the Screw Pump and a boiler for the anaerobic digester. This work will be funded from the Sanitary Sewer Fund project that was approved in the FY 2017-2018 Budget.

Recommendation: City staff recommends approval of Work Authorization with Allgeier Martin & Associates Inc. for the not to exceed amount of $164,352.00 for engineering services associated with Design, Bidding and Construction Management Services for the Replacement of a Screw Pump at the Turkey Creek Wastewater Treatment Facility be approved on an emergency basis per Section 2.12 (6) of the Joplin City Charter.