



City of Olathe

COUNCIL AGENDA ITEM

MEETING DATE: 9/17/2019

DEPARTMENT: Public Works

STAFF CONTACT: Mary Jaeger / Beth Wright

SUBJECT: Contract with Black & Veatch Corporation for an engineering evaluation of the WTP2: Electrical/Backup Power Project, PN 5-C-028-20.

ITEM DESCRIPTION:

Consideration of a Professional Services Agreement with Black & Veatch Corporation for an engineering evaluation of the WTP2: Electrical/Backup Power Project, PN 5-C-028-20.

SUMMARY:

This project includes engineering study services for the Water Treatment Plant No. 2 (WTP2) Electrical / Backup Power project. Reliable electrical power, communications, and chemical feed systems are critical to the production and distribution at any water treatment facility. The utility and standby power systems at WTP2 and associated collector wells are inefficient in providing the reliable power needed. WTP2 was originally constructed in the 1960s. The facilities, including utilities and standby power, have been expanded over multiple projects. The result of these expansions has yielded electrical systems which are complex and counterintuitive. The capacity of the electrical system and its respective arrangement is not suitable for the City to grow its production capabilities. Furthermore, standby power is insufficient to back up the water production needs and is limited in its distribution on the plant site by an aged distribution system.

A Request for Qualifications for this project was issued on May 21, 2019. Two (2) firms responded to this request, and Black & Veatch Corporation (Black & Veatch) was selected based on the submitted qualifications. The proposed agreement with Black & Veatch includes a full evaluation and study of the power supply and electrical distribution systems for the WTP2 and collector well sites. Cost estimates will be provided for recommended power supply and distribution, SCADA, and chemical facilities improvements to ensure the plant operates reliably well into the future. The total cost of this agreement is \$107,910.

The study will begin immediately following approval of this agreement with completion anticipated in Spring 2020. After completion of the study, staff will return to Council to present the findings and recommendations of the study.

FINANCIAL IMPACT:

Funding for the engineering evaluation of the electrical and fiber controls associated with the WTP2: Electrical/Backup Power Project includes:

<u>Water and Sewer Professional Services</u>	<u>\$ 107,910</u>
Total	\$ 107,910

ACTION NEEDED:

Approval of a Professional Services Agreement with Black & Veatch Corporation for an engineering evaluation of the WTP2: Electrical/Backup Power Project, PN 5-C-028-20.

ATTACHMENT(S):

A: Professional Services Agreement

B: Project Location Map
