



City of Broken Arrow

Request for Action

File #: 16-1438, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 12-06-2016

To: Chairman and Authority Members
From: Office of the City Manager
Title:

Presentation and update on Long-Range Water Supply Plan

Background:

More than ten (10) years ago, as our water purchase contract with the Oklahoma Ordnance Works Authority (OOWA) neared expiration, the City Council along with the Authority recognized the need to develop a long-term plan of action and a strategy to ensure our community obtained an adequate and sufficient water supply for our customers. On February 16, 2004, the City Council established a Long Range Water Supply Committee and tasked it with the responsibility to study the community's then current-day water supply system, develop and analyze water supply alternatives, and make recommendations to the water supply system in order to provide adequate and sufficient water for our community for a 50-year planning horizon. On March 6, 2006, the City Council adopted the Committee's recommendations.

As a direct result of the Committee's efforts and the Council's action, the City began evaluation and analysis of the Verdigris River water source and followed with the subsequent design and construction of a new 20 million gallons a day (MGD) micro-filtration membrane water treatment facility and system improvements including a supplemental water connection with the Tulsa Metropolitan Utility Authority (TMUA). Recently, the City constructed a second supplemental water connection with TMUA improving the community's overall water supply capabilities to approximately 28 plus MGD and providing a secondary source in case of unforeseen situations.

In May 2016, the Authority entered into an agreement with HDR, Inc., the professional consulting firm engaged for the community's water supply improvements, to incorporate our existing water supply line network that once served as our treated water supply line from OOWA to the city but was rendered inactive once the new plant came on-line in April of 2014 into our Water Master Plan. On November 28, 2016, HDR met with Staff and presented five (5) detailed alternatives including capital costs as well as operational costs associated with each alternative.

The OOWA water supply line truly serves as a potential conduit not only to the City of Broken Arrow, but also to the Tulsa metropolitan area. This water supply line coupled with our water treatment plant and facilities may provide the community with several interesting and potential rewarding opportunities.

Staff intends to distribute the final draft report due by the end of the year to the Authority members and then schedule a subsequent work study session in the part of 2017 once the Authority has had an opportunity to examine the report.

Cost: **None**

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Reviewed By: **Utilities Department**
 Engineering and Construction
 Legal Department

Approved By: **Michael L. Spurgeon, City Manager**

Attachments: **None**

Recommendation:

As directed by the Authority