



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: July 3, 2017

Re: Integrated Water Resource Plan, Final report

Executive Summary

Black & Veatch has prepared an Integrated Water Resource Plan to serve as a guide for program development, budget preparation and capital improvement planning for the City's water system.

Discussion

Over the past few years the Water Utility has been planning for the next water bond. As part of planning for the next water bond a number of documents have been developed and are being used in preparation for this bond.

- Water Treatment Plant Expansion Preliminary Design Report (Carollo)
 - This extensive report addressed different treatment methods, completed in 2011.
- Well Siting Study (Black & Veatch)
 - Examine future locations for well siting, completed in 2012
- Long Range Water Planning Study (Jacobs)
 - Water Distribution Planning, completed in 2014
- Water Treatment Plant Condition Assessment (Black & Veatch)
 - This extensive report looked at the existing condition of well field/treatment plant/west ash pump stations, completed in 2016
- Integrated Water Resource Plan (Black & Veatch)
 - This plan is to serve as a guide for program development, budget preparation and capital improvement planning for the City's water system, completed in March 2017.
- Establish a Drinking Water Planning Work Group
 - A Drinking Water Planning Work Group was established in April 2017 to update the 2011 Water Treatment Plant Expansion Preliminary Design Report

In 2014 Staff began discussions with the Water and Light Advisory Board regarding the need to conduct an Integrated Water Resource Plan. In 2015 Staff collaborated with the Water & Light Advisory Board to develop the Scope of Services for this project. Following a Request for Proposals (RFP) for Integrated Water Resource Planning, Black & Veatch was chosen to perform the work.

The Water and Light Advisory Board also recommended the addition of four members to its existing members to serve as the Integrated Water Resource Planning Committee to interface with this planning effort. In addition to the 9-member Integrated Water Resource



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Planning Committee, the Water & Light Advisory Board requested for the City's Sustainability Manager to participate as an ad hoc committee member.

The Integrated Water Resource Planning Committee first met on April 13, 2016 and held additional meetings on the following dates:

- April 13, 2016-Introductions and Kick-Off
- April 25, 2016-Progress Meeting #1 (Review History and Water Supply Options Tech. Memo 1)
- June 8, 2016-Progress Meeting #2 (Non-Potable Supply Options Tech. Memo 2, Demand Projections Tech. Memo 3)
- July 13, 2016-Progress Meeting #3 (Regulatory Assessment Tech. Memo 4)
- August 3, 2016-Review Community Education and Outreach
- October 11, 2016-Progress Meeting #4 (Water Conservation Tech. Memo 5)
- October 19, 2016-Open House (Solicit public input on Water Supply Options)
- January 24, 2017-Progress Meeting #5 (Review of Draft Report)
- February 15, 2017-Public Presentation of Draft Report
- April 28, 2017-Progress Meeting #26 (Approval of Final Report)

On April 28, 2017 the Integrated Water Resource Planning Committee approved the final report from Black & Veatch. The Integrated Water Resource Planning Committee endorsed the recommendation of Alternative No.3 – Partial 16 MGD (Million Gallons per Day) Treatment Plant Expansion and Conservation in a May 16, 2017 report. This report was submitted to Council at the June 5, 2017 Council meeting. The Black & Veatch Integrated Water Resource Plan is submitted for Council acceptance.

Final steps moving forward:

- Drinking Water Planning Work Group to update the 2011 Water Treatment Plant Expansion Preliminary Design Report
- Cost of Service/Rate Structure Study
- Development of Bond Election Materials
 - Staff Report
 - Development of a Capital Improvement Plan
 - Pre-Council work-session
 - Bond Election Ordinance
 - Bond Election - 2018

Fiscal Impact

Short-Term Impact: None

Long-Term Impact: None



Vision & Strategic Plan Impact

Vision Impacts:

Primary Impact: Not Applicable, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

Strategic Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Not applicable, Tertiary Impact: Not Applicable

Legislative History

Date	Action
January 4, 2016	B337-15 Appropriating funds for integrated water resource planning services.
June 5, 2017	REP44-17 Integrated Water Resource Planning Committee Report

Suggested Council Action

Acceptance of Integrated Water Resource Plan from Black & Veatch