



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: January 17, 2017

Re: Drinking Water Planning Work Group

Executive Summary

Over the past few years the Water Utility has been planning for the next water bond. With the need for this bond approaching and some current planning efforts progressing, staff would like to take this opportunity to look forward. Staff has worked with the Water & Light Advisory Board to propose the City Council create and appoint of a Drinking Water Planning Work group. It is proposed that this working group would report to the City Council through the Water & Light Advisory Board.

Discussion

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. Below is a list:

- 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 wellfield/treatment plant/west ash pump stations, completed in 2016
- Water distribution model
 - Model of the water distribution system, on-going.

A Water Resource Plan is currently being developed to support the decision making process for the next water bond. This current effort uses an existing council appointed committee to interface with a consultant to gather community input, provide a report and model results.

The following is a list of the results currently expected from this effort:

- Design of a Water Resource Planning Model
- Final Draft Report to Water & Light Advisory Board
- Final Report with Water & Light Advisory Board recommendation to City Council - May 2017

Staff has worked with the Water and Light Advisory Board to propose the following two activities for completion of the planning phase for the next water bond issue:

1. Update the 2011 Water Treatment Plant Expansion Preliminary Design Report (Carollo). This update would determine if any new technologies are available, an assessment of



current costs and incorporate the results of the Water Treatment Plant Condition Assessment.

2. Establish a Drinking Water Planning Work Group
 - a. Staff is proposing that a Council appointed Drinking Water Planning Work Group be created to work with the update of the Water Treatment Plant Expansion Preliminary Design Report and the Water & Light Advisory Board to execute the following scope:
 - i. Understand current drinking water regulations including what types of treatment methods comply with regulations
 - ii. Understand Columbia's current water supply conditions
 - iii. Understand the current state of water treatment technology and costs for both the water utility and individual customers
 - iv. Review and provide input on developed recommendations
 - v. Final Report – *August 2017*
 - b. The following structure is being proposed for this working group:
 - i. A Council appointed 7 member Work Group with three ad hoc members made up of two from the Water & Light Advisory Board and one from Sustainability
 - ii. The 7 member Work Group would be comprised of a mix of representation from different drinking water customer user groups:
 1. City Council Member
 2. Residential
 3. Commercial
 4. Industrial
 5. Water Industry Professional
 6. Columbia Public School System
 7. Medical

Final Staff Steps:

- Water Resource Planning Staff Report to Water & Light Advisory Board and Council
- Develop Capital Improvement Plan and Rate Impacts
- Review Water Bond at Pre-Council
- W&L Bond Election Ordinance - *December 2017*
- Water Bond Election - *2018*

Fiscal Impact

Short-Term Impact: NA

Long-Term Impact: NA

Vision & Strategic Plan Impact

[Vision Impacts:](#)

Primary Impact: Primary, Secondary Impact: Secondary, Tertiary Impact: Tertiary



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Strategic Plan Impacts:

Primary Impact: Primary, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Primary, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Legislative History

Date	Action
NA	NA

Suggested Council Action

Establish and appoint a Drinking Water Planning Working Group to work through the Water & Light Advisory Board.