



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: April 3, 2017

Re: Establishment of a 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 a Drinking Water Planning Work group. It is proposed that this working group would report to 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 well field/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 effort uses a planning committee, interfacing with a consultant to gather community input and provide a report and model results to staff and the Water & Light Advisory Board. An output of this effort is a Water Resource Planning Model focusing on forecasting water demand then integrating the cost/impact of water demand management programs to forecast future water production needs.

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 Water Treatment Plant Expansion Preliminary Design Report (Carollo) - *March 2017*
  - a. Staff is planning an update of the Water Treatment Plant Expansion Preliminary Design Report. 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 establish a 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 disinfection methods comply with regulations
  - ii. Understand Columbia's current water supply conditions
  - iii. Assess the current state of utility industry and customer side water treatment technology and cost
  - iv. Review and provide input on developed recommendations
  - v. Develop drinking water planning recommendations
  - vi. Final Report – It is anticipated that a final report will be completed by the end of 2017.
- b. The following structure is being proposed for this working group:
  - i. A ten member Work Group with six Director appointed members, one City Council member and three Ad hoc non-voting members. The three Ad hoc non-voting members will consist of:
    1. two from the Water & Light Advisory Board and
    2. one from office of Sustainability
  - ii. The ten member Work Group is would be comprised of a mix of representation from different drinking water customer user groups:
    1. City Council Member
      - a. To be determined by Council
    2. Residential
      - a. Julie Ryan, CoMo Safe Water
    3. Commercial
      - a. Matt Off, Director, Rockbridge HyVee
    4. Industrial
      - a. Ron Pruett, 3M, Plant Engineering
    5. Water Industry Professional
      - a. Terry Merritt, Alliance Water Resources
    6. Columbia Public School System
      - a. Randy Jackson, Environmental Engineer
    7. Medical
      - a. Michael Szewczyk MD, Chair Columbia/Boone County Board of Health
    8. Water & Light Advisory Board non-voting Ad hoc
      - a. To be determined by Water & Light Advisory Board
    9. Water & Light Advisory Board non-voting Ad hoc
      - a. To be determined by Water & Light Advisory Board
    10. City Office of Sustainability non-voting Ad hoc
      - a. To be determined by Sustainability Manager
  - iii. Work group activity will be complete upon completion of the update of the Water Treatment Plant Expansion Preliminary Design Report.



## 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
- 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

### 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 a Drinking Water Planning Working Group to work through the Water & Light Advisory Board.