



CITY OF COLUMBIA, MISSOURI

COLUMBIA UTILITIES
COLUMBIA TERMINAL RAILROAD

DATE: March 9, 2018

TO: Mayor and City Council
Water and Light Advisory Board

FROM: Terry Merritt, Chair 
Drinking Water Planning Work Group

RE: ***Final Recommendations of the Drinking Water Planning Work Group***

In April 2017, the Drinking Water Planning Work Group was established to assist in the update of the 2011 Water Treatment Plant Expansion Preliminary Design Report and was tasked with the following:

- Reviewing current drinking water regulations, including what types of disinfection methods comply with regulations.
- Reviewing Columbia's current water supply conditions.
- Assessing the current state of utility industry and customer-side water treatment technology and costs.
- Reviewing and providing input on developed recommendations.
- Developing drinking water planning recommendations.

The Work Group met a total of eight times with the final meeting on February 26th, 2018.

The Work Group's findings were as follows:

- The McBaine Water Treatment Plant (McBaine WTP) should consider processes that meet requirements for a Groundwater Under Direct Influence (GWUDI) facility.
- The McBaine WTP should utilize treatment technologies to achieve disinfection byproduct (DBP) compliance without the use of chloramines and to also assist in removal of Contaminants of Emerging Concern (CECs).

The following recommendations were finalized at the meeting on February 26th with all members in favor, excluding Mr. Karl Skala, who abstained his vote:

- Priority should be given to first restoring the plant to its 32 MGD capacity prior to increasing capacity to 48 MGD.

- The base alternatives of B1.1, B1.2, and B2 should be evaluated with the supplemental processes given to achieve improved water quality through a phased approach.
- The design on the selected alternative should begin no later than 2020, as indicated in Carollo's report, to be in operation no later than 2024, unless design and construction are able to be accomplished sooner.
- In order to improve water quality while the new process train is in design and construction, repair and/or enhancement of the current filters and pilot testing done to make every effort to return to free chlorine disinfection.
- The rehabilitation and/or enhancement initiatives outlined in the Condition Assessment will address deficiencies in the facility and system and request an updated timeline for these initiatives be produced by Water and Light.

The Drinking Water Planning Work Group respectfully submits the above recommendations for serious consideration by the Water and Light Advisory Board and Mayor and City Council.