



Chairman's Corner

As we have reported on previously, WaterOne is **Terry Frederick** in the midst of a comprehensive construction project to supplement the drinking water supply for its rapidly growing southern and western service areas. This project, "Phase V Water Supply, Treatment, and Distribution Program," includes construction of a new treatment facility in Wyandotte County; a horizontal collector well near the Missouri River; installation of 16 miles of 60-inch treated water transmission mains; a tunnel under the Kansas River to house the large transmission main; and a residual monofill. All of these facilities are scheduled to be in operation by late 2009. This report highlights some of these projects.

2008 Water Quality Report

WaterOne will soon be sending its annual Drinking Water Quality Report to all residential and commercial water customers. In this report, you will read about the utility's continued commitment to high quality water through our advanced treatment technologies.

Tunnel Beneath River Provides Rare Opportunity

WaterOne Board members and staff recently had the opportunity to get a unique glimpse of what can be found underneath the Kansas River. A tour was conducted at the Kansas River, on site, where a large tunnel is being drilled below the riverbed. The tunnel is part of the Phase V pipeline project, and when complete, will house a 60" transmission main.

After completing OSHA required training, the group was lowered by crane approximately 136 feet down a vertical shaft to the tunnel opening. Once inside the tunnel, they observed the boring equipment used to excavate the tunnel, and the tracks that are used to haul out debris.

Horizontal Collector Well

One of the major projects of Phase V is the construction of a horizontal collector well along the Missouri River. A collector well is a structure that provides the means for extracting water from the ground around and under the river.

This well is the first of four ultimately planned for construction along the Missouri River. It consists of a 20 foot diameter concrete wetwell (caisson) that extends approximately 90 feet below grade. A pump house will be constructed over the top of the caisson and will house three vertical turbine pumps. Each pump will be equipped to control the rate of flow to the new water treatment plant.

The collector well will provide natural filtration for pre-treatment and will increase supply reliability under low river flows and icing conditions on the river.



Photo showing aerial view of horizontal collector well.



Board member, Joe H. Vaughan, (foreground) on a recent tour of the Horizontal Collector Well



L/R: Mike Armstrong, General Manager; Terry Frederick, Board Chairman; and Board Members, Jim Vader and Bob Reese participated in the Kansas River tunnel tour.



Photo showing conditions inside the Kansas River tunnel and boring equipment used to excavate the tunnel shaft.



When complete, the tunnel will reach 1,400 feet in length and will span the Kansas River. The transmission main is scheduled to be put into service in conjunction with the completion of Phase V in 2009.

Kansas River Weir Project Scheduled for Fall Completion

Due to wetter than normal winter and spring conditions, the Kansas River Weir project has been delayed. Instead of a May completion, the project is now scheduled for completion by late fall 2008.

The low water weir is being constructed to more effectively divert water into the river intake

structure. It consists of 18 large circular concrete cells spanning the width of the Kansas River. 10 of the 18 cells for the new weir have been completed.

The existing diversion rock jetty, built in the early 1970's, will be demolished once the new structure has been completed.



Water flowing over the recently constructed lower cells of the new weir.

Phase V Construction Photos



New treatment facility begins to take shape.



Photo showing contact basins for future water treatment.



Installation of 60" transmission main along pipeline route.

Other Projects

WaterOne has several ongoing projects under construction throughout its service area. Some of these are in the design stage; others are near completion. For a list, check out waterone.org, and click on Project Updates.



April Showers Bring May Flowers but Less Outdoor Watering

The wet, cool spring has had an impact on outdoor water usage. According to Ron Appletoft, WaterOne Director of Finance, water sales are less than projected for this time of year. That can change quickly, however, when warmer spring and summer temperatures hit the area and outdoor watering resumes at a more normal pace.



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The WaterOne Pipeline is published for our business and community partners in Johnson County. Email questions or comments to ekoutelas@waterone.org or call 913-895-5540.

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Setting the Standard for Utility Excellence