

Main Connection

Summer 2007

Ground Broken on New Treatment Facility

After much planning, WaterOne has broken ground on its new treatment facility. The new facility is being constructed in Wyandotte County, along Sam Clark Lane, near Kansas Highway 5. The facility is part of the utility's Phase V Expansion Project that also includes construction of 17 miles of a 60" diameter transmission main, and a horizontal collector well that will be constructed along the Missouri River, behind the Lakeside Speedway off Highway 5 (see related article on back page.)

The groundbreaking was held on April 30, 2007, and signaled the beginning of construction on the new facility, scheduled for completion in 2009. The expansion will add an additional 15 million gallons per day (mgd) to the utility's existing system capacity of 180 mgd.

The Missouri River was selected as the best site for a new treatment facility after an extensive evaluation of alternatives. The Missouri River is less vulnerable to drought and provides the best long-term availability of supply. It generally provides better water quality than the Kansas River, and has less potential for tastes and odors.



WaterOne Board members and staff join representatives from Black & Veatch, Grimm Construction and Wachter Electric for groundbreaking on April 30, 2007.

WaterOne has held public informational meetings with citizens and elected officials in Wyandotte County to discuss this project. Meetings have also been held with land owners in the immediate vicinity of the new facilities to address their concerns.



Temporary construction offices are located at the site of the new treatment facilities.



Architectural illustration of the new treatment facility.

New Facility Compatible with Rural Landscape

It is WaterOne's goal to build a new treatment facility that is compatible with the rural landscape of the local area. This is reflected in the building's unique design, as shown in the illustration to the left. The facility has been designed by Black & Veatch, consulting engineers for WaterOne.

For more information about the new treatment facility and other Phase V projects, visit the utility's website at www.waterone.org.

Horizontal Collector Well to be Constructed along Missouri River

As part of WaterOne’s expansion, a horizontal collector well will be constructed along the Missouri River, behind the Lakeside Speedway off Highway 5. A horizontal collector well is a structure that provides the means for extracting water from the ground around and under the river. This area is referred to as the river *alluvium*.

As shown in the illustration (left), the collector well consists of a concrete shaft that extends downward into the river alluvium. Stainless steel screens are inserted at the bottom of the concrete shaft. Water passes through these screens and enters the shaft where vertical turbine pumps are located. These pumps will deliver water through a 60” pipeline to the new treatment plant from the water source.

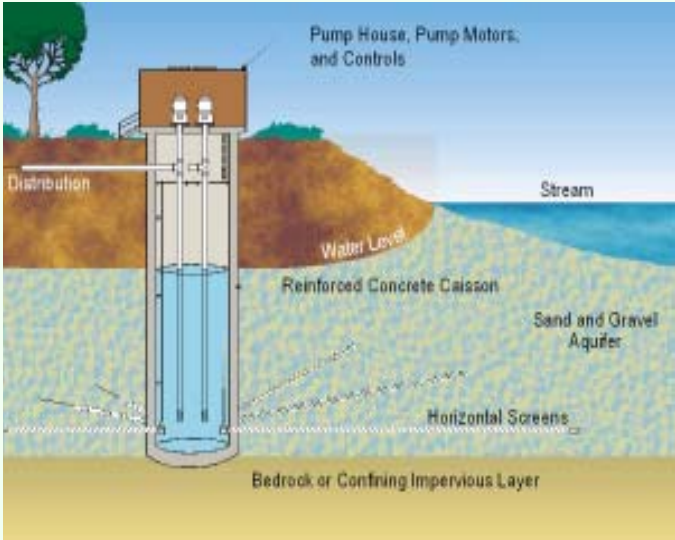


Illustration of a Horizontal Collector Well

WaterOne Provides Assistance to the Community



For the second year, WaterOne partnered with Heartland Habitat for Humanity to help build a home for a family in need. Approximately 40 WaterOne employees participated in the Habitat effort over a two-day period in May. These photos show WaterOne volunteers at the job site in Kansas City, Kansas.



WaterOne Holds Public Meeting in Leavenworth County



One March 29, 2007, WaterOne met with members of the public to answer questions and discuss construction details related to its new treatment plant on Sam Clark Lane. Landowners in the immediate vicinity of the new facility were invited to attend the informational meeting which was held at the 4-H Building in Lansing. A computer generated ‘fly over’ of the new facilities was shown, giving attendees a 360° birds-eye view of what the new facilities will look like. In a follow up meeting, information was also provided concerning construction of a horizontal collector well near the Missouri River.



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The Main Connection is published for our Phase V community partners in Wyandotte County. Email questions about the *Main Connection* to ekoulalas@waterone.org.