



PROJECT GROUNDWORK
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Project Groundwork NEWS

Werk & Westbourne Enhanced High Rate Treatment Facility



Sewer Overflow Solution is Coming Soon for Werk and Westbourne

The Metropolitan Sewer District (MSD) is advancing plans for a new facility at the Werk Road and Westbourne Drive intersection that will reduce sewer system overflows. This site is the location of a combined sewer outfall from which stormwater mixed with sanitary sewage is released into Schaible Creek (a Muddy Creek tributary) when the sewer system is overwhelmed with too much water during rainstorms and major snow melts. Decades ago, releasing sewer overflows into local streams and rivers was the accepted method of managing excess water in the sewer system and preventing sewer backups into homes and businesses. Today, however, MSD is working to reduce overflow events as much as possible by finding better ways to manage flows within the sewer system. The Werk & Westbourne Enhanced High Rate Treatment (WWEHRT) Facility is one such solution.

Situated on the southwest corner of the Werk and Westbourne intersection, this neighborhood-scale facility will enable MSD to better control combined sewer overflow events at this site, providing better protection of public health and the local environment. It will also improve the neighborhood by eliminating sewer debris from Schaible Creek and reducing sewer odors created by overflow events.

EHRT facilities like the one being designed for the Werk and Westbourne site are good options for

neighborhoods. They are much smaller than conventional sewage treatment facilities, can more easily fit into the surrounding area, and operate only when the sewer system is full during wet weather. They also cost much less to build and maintain.

MSD is committed to working closely with neighbors and the Green Township community to answer questions and consider the community's input. Inside this newsletter is additional information about the EHRT facility and where to turn should you be interested in learning more.

The Werk & Westbourne EHRT Facility is an exciting project for MSD. We look forward to working with you to make this project a success.



A conceptual rendering of the Werk & Westbourne Enhanced High Rate Treatment Facility located at the southwest corner of the Werk Road and Westbourne Drive intersection.

The WWEHRT Facility – A Refined Concept

Planning for the Werk & Westbourne Enhanced High Rate Treatment (WWEHRT) Facility began in 2010. Work was placed on temporary hold in 2013 as project costs grew to be higher than anticipated due to geologic and hydraulic constraints found at the site and increasing construction costs. Needs for the facility were also changing as improvements being planned for the other sections of the sewer system would affect the volume of wastewater flowing to the Werk and Westbourne area. It was therefore determined that the facility would be built using a more conservative, phased approach and planning for this refined concept resumed in early 2015.

The facility is currently scheduled to be constructed by December 31, 2017. The WWEHRT will be designed to treat at least 35 million gallons per day and the facility will be designed to accommodate future expansion if needed.

The Werk & Westbourne EHRT Facility is an important project for MSD. Not only is the facility being used to address sewer overflows in the Werk and Westbourne area, it is also being used to demonstrate technology that can be adopted at other locations in the Greater Cincinnati region as well as across the country to help better protect our waterways and public health, and to improve the places where we live and play.

How will the facility work?

When the sewer pipe is full, wastewater will flow into the facility and go through a screening process. A majority of this water will receive disinfection and some will receive enhanced treatment to help clean the water even further prior to release into Schaible Creek. The facility will be able to address the majority of the flows but will not eliminate all sewer overflows as doing so would be cost prohibitive.

Will the facility help improve the creek?

Yes. The facility will be able to address the majority of the overflows and will remove trash and sewer debris from all flows before they are released into the environment, improving water quality and reducing odors.

Are my sewer rates going to go up because of this project?

Your property will not be assessed a special fee to pay for the WWEHRT Facility. MSD expects, however, that sewer rates will continue to rise for all its customers to help pay for much needed system improvements across its service area. MSD is constantly looking for the best solutions at the fairest price, keeping your safety – as well as your pocketbook – in mind.

Will this facility eliminate sewer odors in the area?

The WWEHRT will remove most sewer debris from wastewater being released from the Werk & Westbourne combined sewer outfall and a majority of the wastewater moving through the system will be disinfected. These processes will significantly reduce odors created by sewer overflow events. However, some odors experienced during dry weather come from the combined sewer located north of the WWEHRT site. These will not be eliminated by the facility and may still remain.

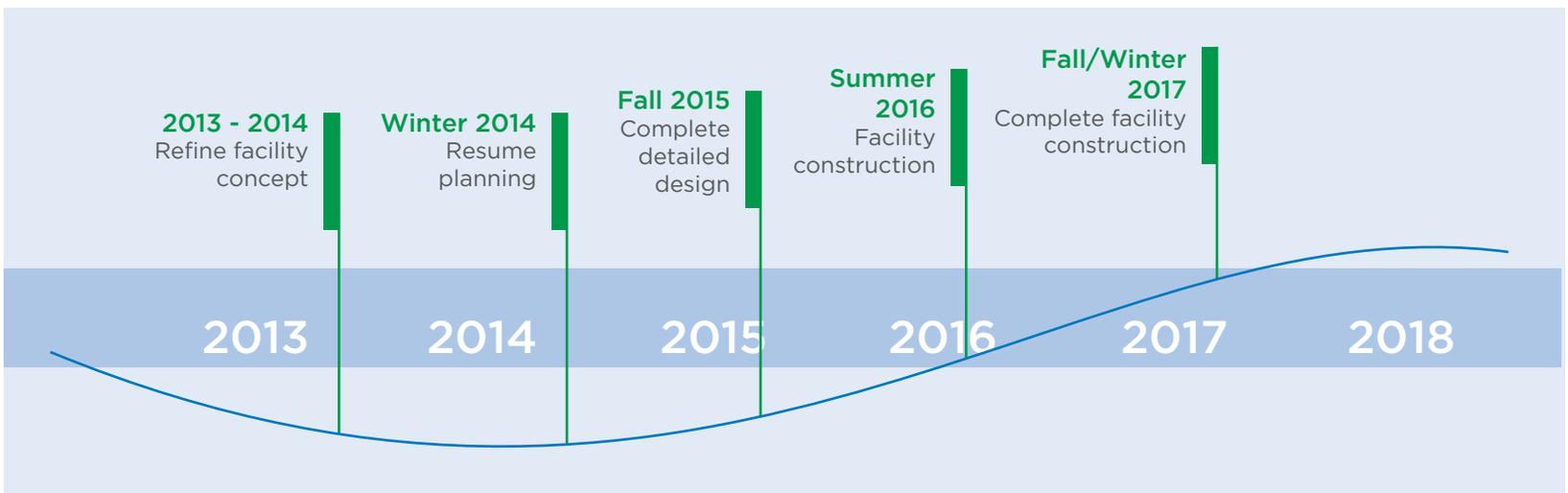
How much noise can we expect during construction?

Noise heard during construction will be comparable to noise experienced at a typical commercial construction site, such as a large grocery store. Work will take place during normal workday hours.

When will the facility operate?

Once construction is complete, the WWEHRT Facility will operate only if the combined sewer system is full during rainstorms and snow melts. Most equipment and operations will be contained inside the facility, so noises heard outside will primarily be from roof-mounted fans (which sound similar to an air conditioner). Trucks will periodically deliver supplies to the facility, however, deliveries will be completed during daytime hours. Service vehicles will also arrive periodically to perform clean out and maintenance services. However, these visits too will occur during daytime hours.

For more WWEHRT Questions and Answers, visit the project website: www.ProjectGroundwork.org/WerkWestbourne.



What Will the EHRT Facility Look Like?

MSD is sensitive to the fact that the Werk & Westbourne EHRT Facility will be built in a residential neighborhood. Though the building will be taller and longer than other structures in the immediate area, elements included in the facility's exterior design will reflect the look and feel of nearby homes and buildings. These include a brick façade, landscaping and an attractive fence that will surround the facility. The entrance to the property will be recessed so that vehicles turning into the site will be off the main road as much as possible. In addition, a sidewalk is proposed to be constructed in front of the facility along Werk Road.

Quick Facts:

- Facility length along Werk Road: 220 feet
- Building height (from ground to roof peak): 30 feet
- Building Façade: Brick veneer
- Hours of Operation: If needed after wet weather events



A conceptual rendering of the front of the WVEHRT Facility. Werk Road is in the foreground.



View of the west side of the Werk & Westbourne EHRT Facility, looking southeast toward Westbourne Drive.



View of the WWEHRT Facility looking southwest, from the Werk Road and Westbourne Drive intersection.

Looking Ahead at Construction

Construction of the WWEHRT Facility is scheduled to begin in mid-2016 and will be completed by the end of 2017. During construction, MSD will put in place a series of measures to minimize neighborhood disruption as much as possible. Such measures include:

- Creating construction staging and crew parking areas on site to reduce the amount of construction-related traffic on nearby roads
- Working during normal workday hours.
- Consolidating the number of supply deliveries as much as possible
- Installing temporary fencing around the construction site

MSD will send out periodic construction updates by email to area residents and community members and will post updates on the project website (see Connecting with Our Team, at right). MSDs also invites you to share your questions and comments as construction moves forward.

Connecting With Our Team

MSD is committed to keeping you informed about our progress. We invite your questions and feedback. Opportunities through which you can learn more and connect with the project team include:

THE PROJECT WEBSITE -

www.ProjectGroundwork.org/WerkWestbourne

New information will be posted as it becomes available. Questions and comments can also be submitted on this site.

EMAIL - MSD.WerkWestbourne@cincinnati-oh.gov

Project updates will be sent out via email. To receive these updates, sign up on the project website or send an email to the address above and request to be added to the WWEHRT Project Update Distribution List. Questions and comments can also be submitted via email.

MSD ENGINEERING CUSTOMER SERVICE LINE -

(513) 557-3594: Share questions and comments with an MSD representative. Be sure to refer to the Werk & Westbourne project when calling.

For more information about the Werk & Westbourne Enhanced High Rate Treatment Facility is available at:

www.ProjectGroundwork.org/WerkWestbourne