

Action Summary

US Ecology Michigan Disposal Waste Treatment Plant, Belleville, Michigan

SUMMARY

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division (MMD), received a license renewal application (Application) from Michigan Disposal Waste Treatment Plant (MDWTP) for its hazardous waste operations occurring at 49350 North I-94 Service Drive in Belleville, Michigan (Site). In the renewal application, MDWTP also proposes to expand their hazardous waste treatment and storage capacity.



A license renewal process is required at least every ten years for hazardous waste operations. The renewal process gives EGLE an opportunity to update site information, review site operations, and improve the license enhancing protections it provides to the community. EGLE is currently reviewing the Application for MDWTP.

MDWTP submitted the Application on October 31, 2016. The Application under review proposes expansions to the storage and treatment capacity. EGLE determined the Application is administratively complete and will start the technical review. The technical review is performed to determine if the Site operations meet all of the requirements that apply under Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its administrative rules. EGLE has issued two completeness notices of deficiencies, and MDWTP has submitted multiple revisions to the Application to address the deficiencies. This information is available online at web address identified below.

If renewed, the new license would remain effective for ten years, and MDWTP would be required to submit another renewal application before the end of the ten-year period. EGLE's decision to renew the license will be based on the Application, results of Site inspections and audits, and community input as required under the hazardous waste regulations. In order to re-issue the License, EGLE's review must conclude:

- A. That the Application is sufficiently detailed for EGLE to evaluate the Site and its potential for impact on human health and the environment.
- B. That the Site satisfies all the technical design, construction, and operating standards under the hazardous waste regulations.

- C. That the Site does not present a hazard to human health or the environment, as determined by EGLE inspections and compliance with applicable environmental regulations, including but not limited to groundwater monitoring and ambient air monitoring.
- D. That the license includes all necessary conditions to ensure safe and proper waste storage and treatment. For example, this would include conditions for waste characterization, storage, treatment, training, emergency response planning, environmental monitoring, and recordkeeping.
- E. That MDWTP has obtained and maintains all required governmental authorizations and approvals required for the Site, and that any renewed license would require that those authorizations be maintained. For example, this would include fire marshal approval for building occupancy and fire suppression systems.
- F. That a public comment period and a formal public hearing are conducted, and that comments received are considered in making a final decision on the Application.

SITE DESCRIPTION

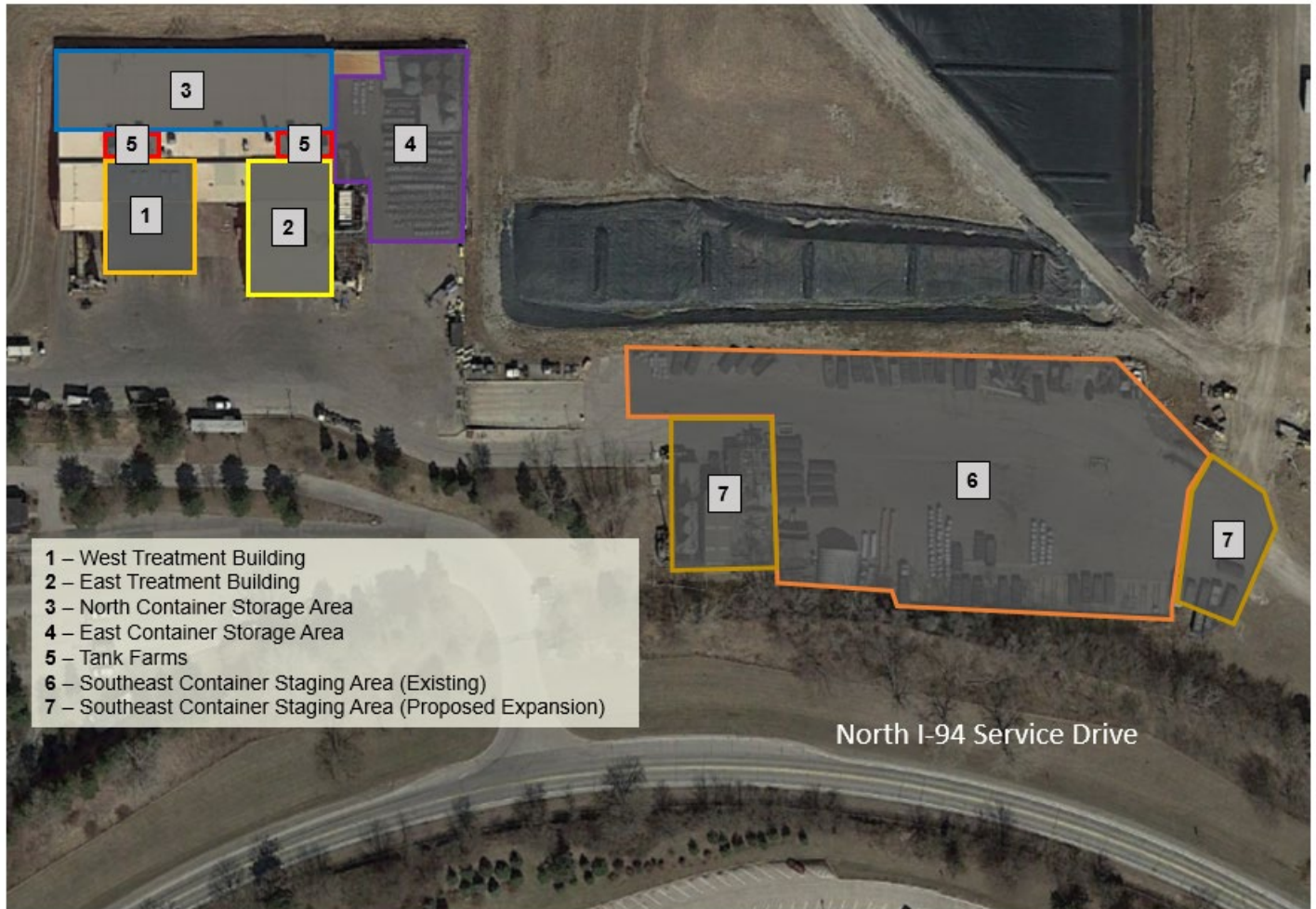
MDWTP is located at 49350 North I-94 Service Drive, Belleville, Michigan, near exit 187 on Interstate-94. The Site is entirely fenced and surrounded by a network of groundwater and ambient air monitoring wells. The Site is located approximately 0.5 miles north of Belleville Lake.

PRIOR LICENSING

Waste management activities have been occurring at the Site since January 4, 1974, prior to hazardous waste handling and disposal regulations being established under state or federal law. The current MDWTP Hazardous Waste Management Facility Operating License (License) was issued to the Environmental Quality Company on October 31, 2007, and expired October 31, 2017. Because the Application was submitted on October 31, 2016, before the expiration date, the License remains in effect until EGLE makes a final decision on the Application. The Environmental Quality Company transferred ownership and operational control of the Site to US Ecology, Inc., on November 6, 2009.

EXISTING SITE DESIGN AND OPERATION

MDWTP is licensed to store and/or treat hazardous waste in tanks and containers as follows. These areas are color coded and shown on the map below. Each area has been assigned a number to help with identification.



West and East Treatment Buildings (Areas 1 & 2)

MDWTP treats hazardous waste in 8 rectangular inground steel tanks constructed within concrete vaults. Containers of waste may be staged in front of the treatment tanks prior to its contents being placed in the tanks. Wastes treated include heavy metals, organics, sludges, and acids. Methods of treatment used include chemical stabilization, chemical oxidation, chemical reduction, neutralization, and/or deactivation. Emission controls are in place to prevent odors from escaping the buildings while treatment is occurring. The building is designed with concrete floors sloped to floor drains to capture spills so no waste would be released to soil or groundwater.

East Container Staging Area (Area 4): This area is located outside directly east of the East Treatment Building, and is licensed for storage of hazardous waste in containers and vertical steel tanks. The area has a concrete floor with chemical resistant coatings, curbing, and sloped to trenches designed to capture spills. This design will prevent releases from reaching any soil or groundwater.

North Container Storage Area (Area 3): This area is located north of West and East Treatment Buildings, and is licensed for storage of hazardous waste in containers. The area is enclosed by a roof, surrounding walls, and a concrete floor with chemical resistant coatings, curbing, and sloped to floor drains designed to capture spills.

Silos 1 – 6 (Area 5): This area is located between the Treatment Buildings and the North Container Storage Area and is licensed for storage of solid hazardous waste in 6 vertical steel tanks.

Southeast Container Storage Area (Area 6): This area is located outdoors directly southeast of the West and East Treatment Buildings, and is licensed for storage of solid and liquid hazardous waste in containers. Liquid hazardous wastes are stored within an area with a concrete floor, curbing, and sloped to a floor drain. Solid hazardous waste may be stored on asphalt paving.

PROPOSED CHANGES TO SITE OPERATIONS

West and East Treatment Buildings (Areas 1 & 2): Request to increase the rate of treatment from 576,000 gallons per day to 780,124 gallons per day.

East Container Storage Area (Area 4): Request to increase storage limits from 33,000 gallons to 104,702 gallons.

North Container Storage Area (Area 3): Request to increase storage limits to 82,500 gallons to 177,320 gallons.

Southeast Container Staging Area (Areas 6 & 7): Request to increase physical boundaries/footprint, increase storage limits from 80,795 gallons to 240,240 gallons for liquids and 900 cubic yards to 4,440 cubic yards for solids.

Acceptable Waste Types: Request to accept sulfide bearing wastes and hazardous waste containing dioxins.

ENVIRONMENTAL MONITORING

Groundwater Monitoring Program

MDWTP conducts groundwater monitoring at the Site for various contaminants in accordance with an approved groundwater monitoring plan. MDWTP submits the results to EGLE within 60 days after the completion of the sampling for each quarterly sampling event.

Ambient Air Monitoring

MDWTP conducts ambient air monitoring at the Site for various contaminants in accordance with an approved ambient air monitoring program. MDWTP submits the results from their air monitoring program to EGLE on a monthly basis, for review by EGLE Materials Management Division and Air Quality Division staff. Additionally, MDWTP has a separate permit issued by EGLE Air Quality Division, which limits air emissions from Site operations.

PUBLIC INVOLVEMENT

The purpose of public involvement is to ensure that the people interested in a proposed EGLE action are aware of the proposed action and have an opportunity to provide input on the EGLE decision under review before a final decision is made.

The public is encouraged to engage with EGLE throughout the application review process. To provide opportunity for input, EGLE is committed to hosting the following public meetings, to enhance communication:

- **Administrative Completeness Public Information Meeting (date: December 7, 2020).** This meeting is being held to give community members an opportunity to ask questions and learn about the Application and EGLE review process.
- **Technical Adequacy Public Information Meeting (date: to be announced).** This meeting will be scheduled once EGLE determines that the Application meets all the design and operating standards under the hazardous waste regulations. This meeting will give community members further opportunity to ask questions and learn about the Application, EGLE review process, and factors considered in the determination.
- **Formal Public Hearing (date: to be announced).** Prior to EGLE making a final decision on the Application, EGLE will host a public hearing to receive formal comments from the community. These comments will be considered along with all public comments submitted during a formal public comment period. EGLE will issue a formal written response to comments when a final decision on the Application is made.

EGLE is interested in hearing from you about what methods work best to keep you informed and what key details are important. EGLE also wants to hear if additional accommodations are needed to participate in meetings.

STAYING CONNECTED

Staying Connected

EGLE has established a Site subscription list for receiving periodic updates from EGLE related to Site specific activities and licensing. Please join us by going to Michigan.gov/EGLEConnect and subscribing to the Michigan Disposal Waste Treatment Plant electronic mailing list.

Who to Contact?

For questions or comments about the Application, to seek additional accommodations for meeting, or share input on what works best for keeping you informed, please contact, Ms. Christine Matlock at MatlockC2@Michigan.gov or 517-290-4612. For questions or comments about hazardous waste operations oversight, please contact Mr. Mike Busse at BusseM@Michigan.gov or 248-226-0975.

Complaints

Through your observations and reporting of activities of concern, you play a valuable role in helping the EGLE protect human health and the environment. To file a complaint or share details about improper waste handling or disposal, contact EGLE through the [Pollution Emergency Alerting System \(PEAS\) Hotline](#) at 800-292-4706.

FINDING MORE INFORMATION

Web Resources

Finding information related to the Site, Application, and EGLE compliance oversight is simple. Just go to Michigan.gov/USEcologyMDWTP, and you will find these details.

Locations of Available Information

To review the administrative record for the License in-person in EGLE Lansing District office, please contact Ms. Vickie Terry at TerryV2@Michigan.gov or at 517-284-6546. To review the application in-person in EGLE's Warren District office, please contact Ms. Jennifer Block at BlockJ4@Michigan.gov or at 586-753-3833.