RACER TRUST
LANSING PLANTS 2, 3, & 6

2026 Third Quarter Progress Report | October 30, 2026

More detailed reports are available on RACER's Webpage for this Site:
https://www.racertrust.org/properties/lansing-plant-2-industrial-land

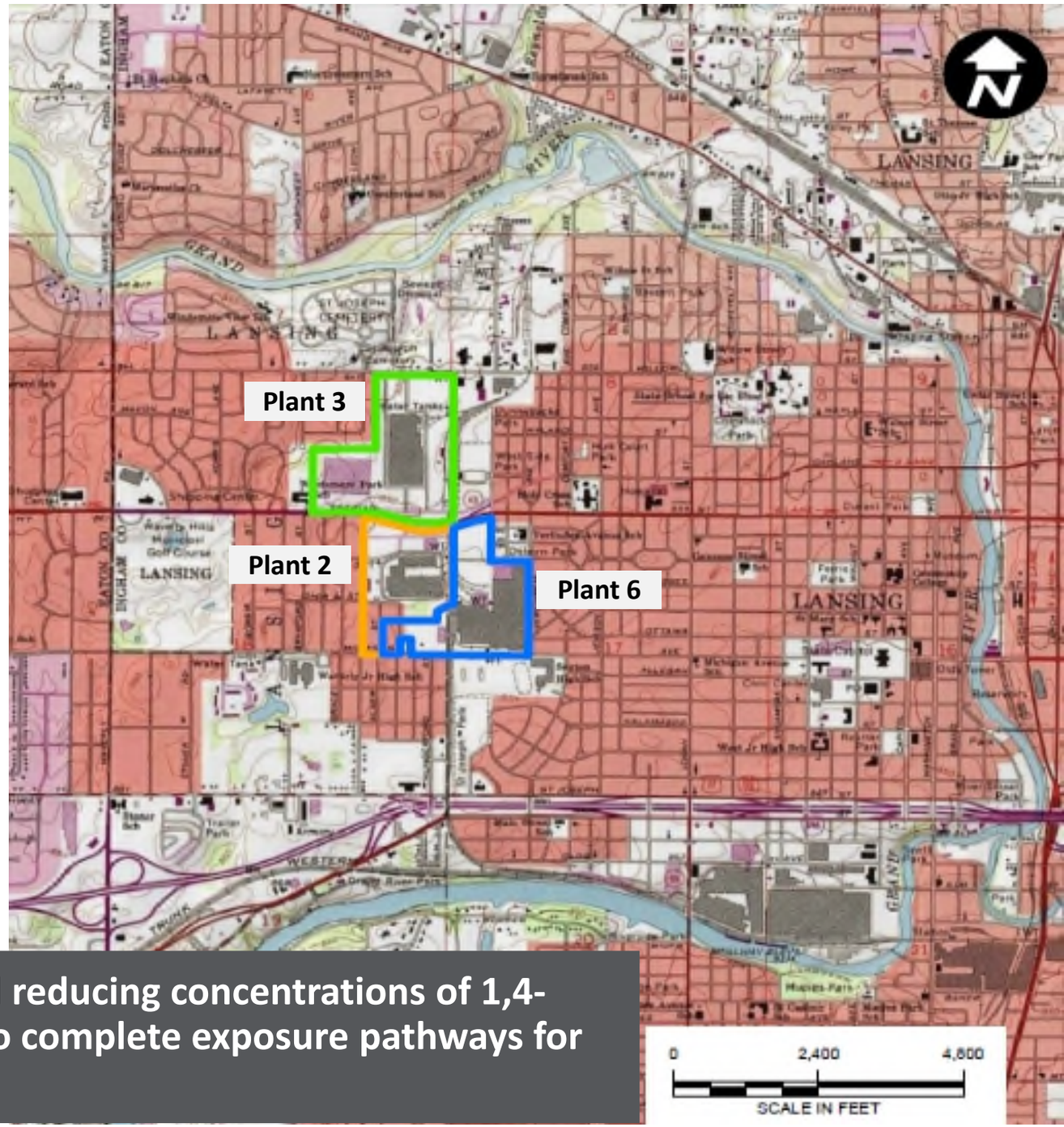
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Site Introduction

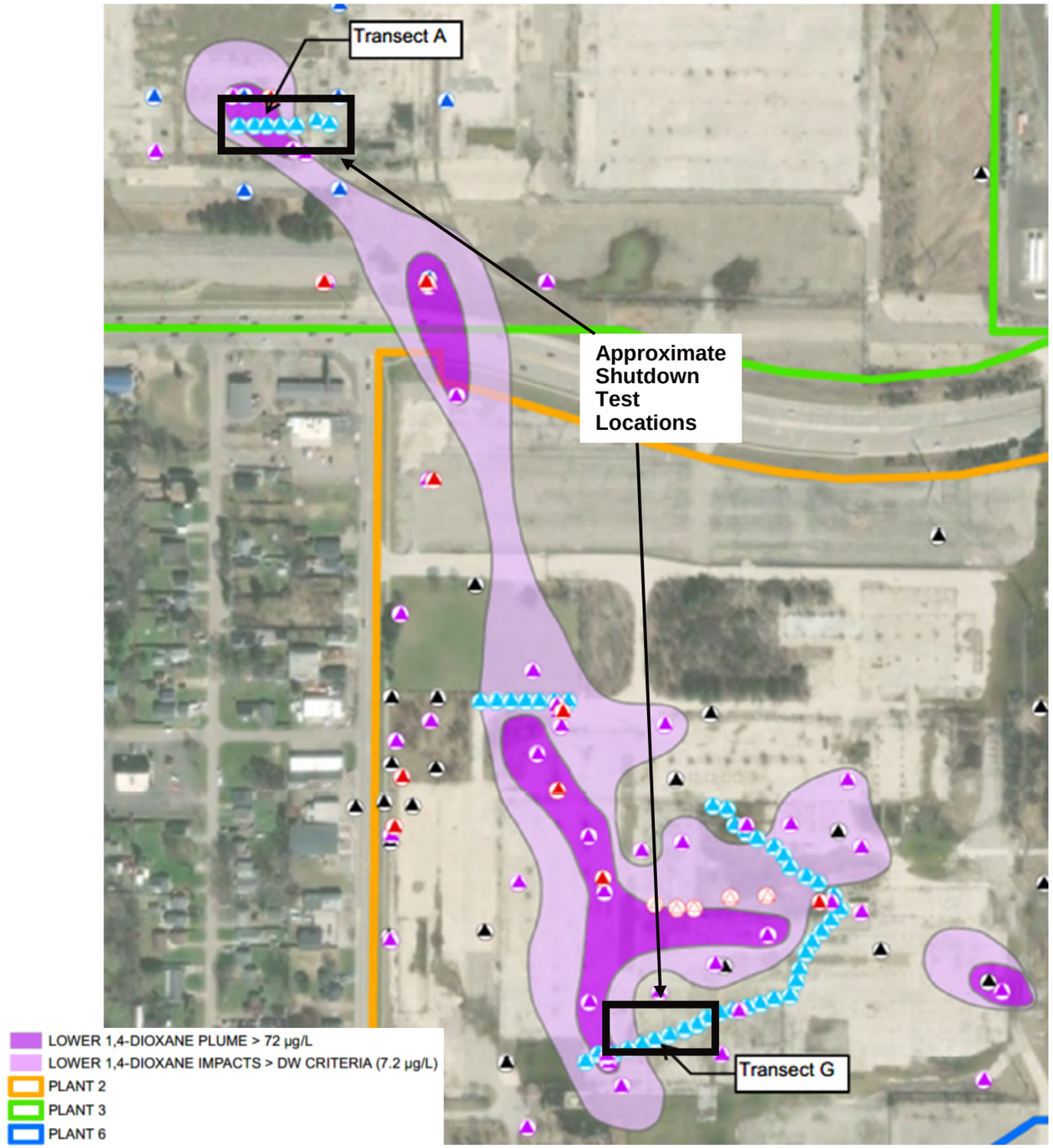
- Remediation at the RACER Lansing Site is being performed through the Resource Conservation and Recovery Act (RCRA) Corrective Action program under the oversight of the Michigan Department of Environment, Great Lakes, and Energy (EGLE).
- There is currently no known complete exposure pathways for area residents associated with the site contaminants.
- Remediation of 1,4-dioxane impacted groundwater in the weathered bedrock at a depth of approximately 60 to 75 feet below the ground surface includes operation of the Plant 2 and Plant 3 biosparge systems (The Plant 3 system began operating in 2019 and the Plant 2 system began operating in 2020). The biosparge systems have successfully reduced concentrations of 1,4-dioxane in the weathered bedrock.
- Routine groundwater monitoring on and in certain areas adjacent to Plants 2, 3, & 6 in the shallow (perched) zone, weathered bedrock, shallow bedrock, and deep bedrock is ongoing and is anticipated to continue for several years. Primary contaminants of concern are 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS).



Activities completed during this period continued reducing concentrations of 1,4-dioxane in the weathered bedrock and verified no complete exposure pathways for area residents

Remediation of 1,4-Dioxane in Weathered Bedrock

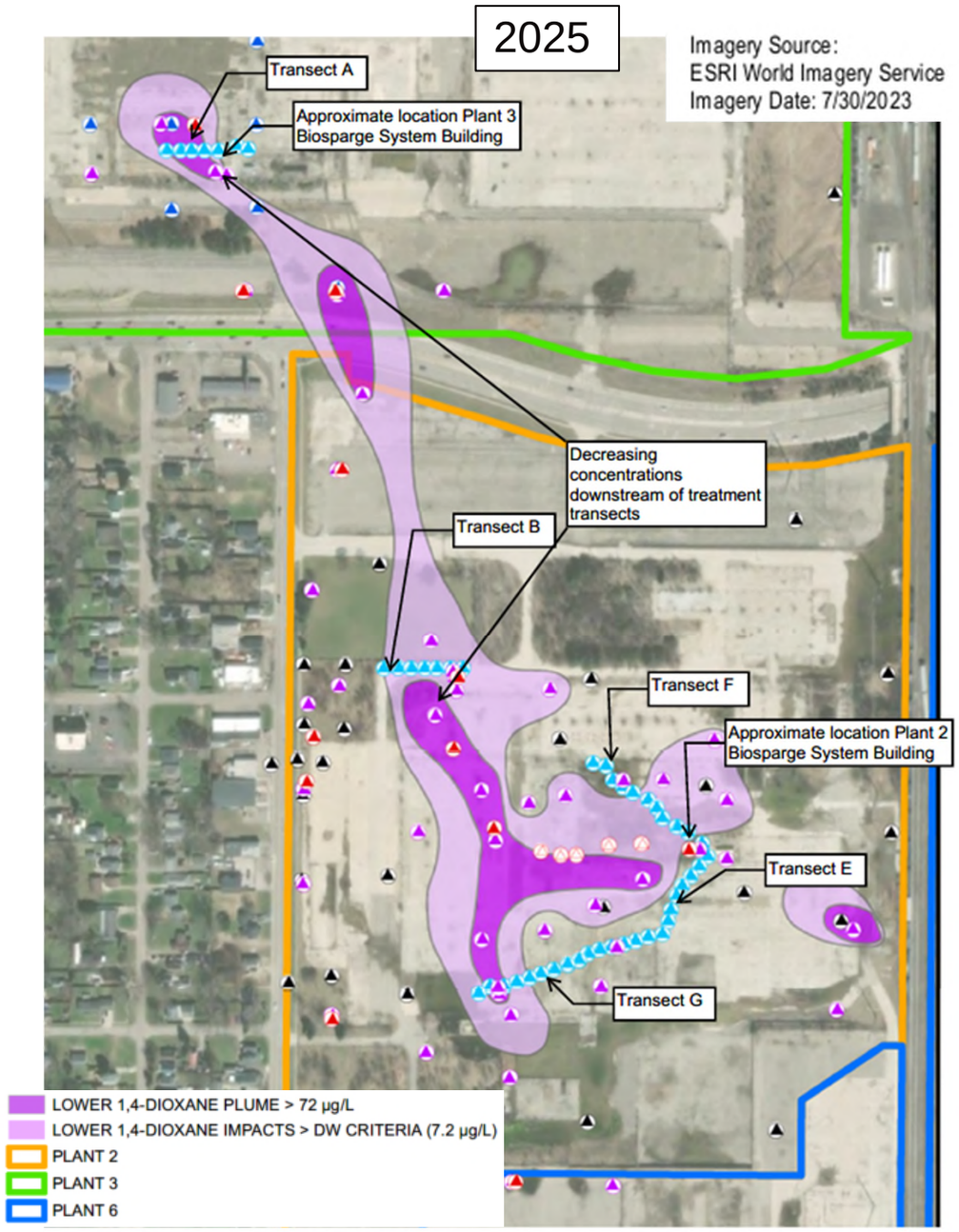
- EGLE approved temporary transect shutdown testing was conducted in Third Quarter (July) and was the final of four shutdown testing events before these portions of the biosparge system were re-started (August) as outlined in the EGLE approved plan. Prior to re-start select well cleaning and nutrient injections were completed (August).
- As discussed with EGLE and based on the data collected, the temporary shut down test was complete in August.
  - Transects A and G were (pictured in figure to the right) were re-started (August 25, 2026) following the temporary shut down testing
  - The remainder of the Plant 2 biosparge system is operating normally
  - Compressor maintenance was completed in Third Quarter 2026 in accordance with the EGLE approved temporary shut down test plan
  - Transect A and G Temporary Shutdown Test Results were submitted to EGLE on September 18, 2026. Based on the data collected over the 12-month shutdown test, an indefinite shutdown of Transects A and G, a phased shut down of the entire biosparge system and/or a significant reduction in sparge frequency, and continued groundwater monitoring are proposed.



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Remediation of 1,4-Dioxane in Weathered Bedrock

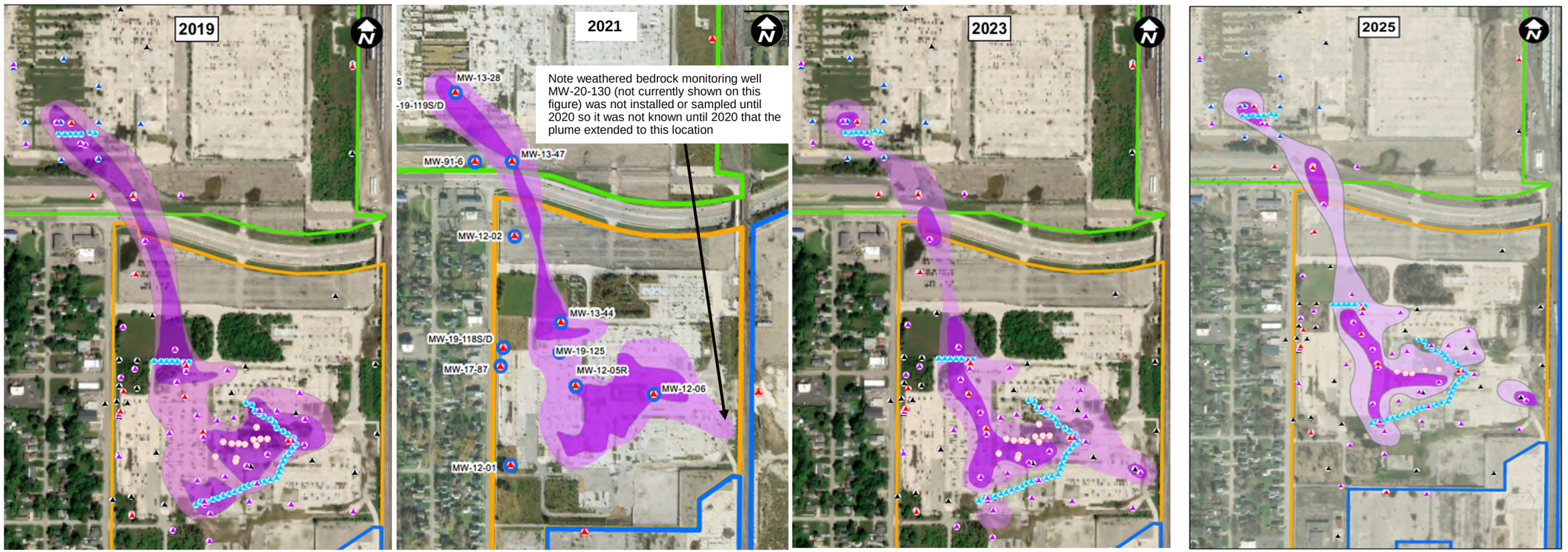
- Results of performance monitoring continue to show that the biosparge systems are achieving the short-term objective of reducing 1,4-dioxane concentrations and mass along the core of the weathered bedrock plume
- Based on several lines of evidence including stable, low-level 1,4-dioxane concentrations during the last several monitoring events, the biosparge system has successfully met its short- and long-term objectives in the vicinity of Transect F. Therefore, a request to shut down Transect F and perform follow-up groundwater monitoring was submitted to EGLE on March 23, 2026. EGLE provided comments and a revised request was submitted to EGLE on October 6, 2026.



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Remediation of 1,4-Dioxane in Weathered Bedrock

Visual depiction of lower 1,4-dioxane plume (located within the deep overburden and weathered bedrock) distribution in 2019, 2021, 2023 and 2025



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Reports Submitted to EGLE Third Quarter 2026

- Second Quarter 2026 Progress Report submitted to EGLE on August 5, 2026
- 2026 Semi-Annual Groundwater Sampling Report submitted to EGLE on August 25, 2026
- 2026 Biosparge Shutdown Results Report submitted to EGLE on September 18, 2026
- Biosparge Transect F Shut Down Proposal:
  - Originally submitted March 23, 2026
  - EGLE comments provided September 8, 2026
  - Revised report submitted to EGLE October 6, 2026
- Reports can be viewed or downloaded from the RACER Website for the Lansing Property: https://www.racertrust.org/properties/lansing-plant-2-industrial-land

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Work in Progress and Near-Term Milestones Anticipated During the Fourth Quarter of 2026

Activity	Schedule
Remediation of 1,4-Dioxane in the Weathered Bedrock	
Plants 2 and 3 Biosparge System Operation	Ongoing
Begin implementation of Transects A and G Shutdown	Upon EGLE approval
Begin Implementation of Biosparge Transect F Shut Down	Upon EGLE approval
Routine Monitoring	
Semi-Annual Storm Sewer Sampling	Fourth Quarter 2026
2026 Annual Groundwater Monitoring Activities for the Site	Fourth Quarter 2026
Other Investigations, Sampling and Reporting	
Exposure Barrier Vegetation Clearing	Fourth Quarter 2026

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ARCADIS Design & Consultancy for natural and built assets

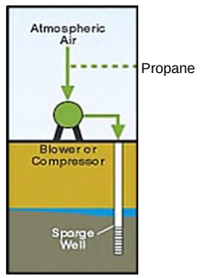
Appendix

BIOSPARGING TREATMENT OF 1,4-DIOXANE

Lansing Industrial Land, Lansing and Lansing Township, Michigan

WHAT IS BIOSPARGING?

- Air and small amounts of propane are injected into the ground through wells
- Promotes biodegradation of chemicals in groundwater, much faster than it would occur naturally
- 1,4-dioxane is treated in the ground, so minimal waste is generated
- Nearby wells are sampled to make sure treatment is occurring



TREATMENT OBJECTIVES

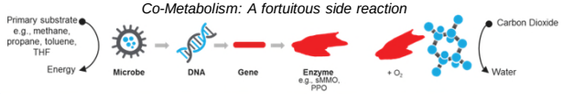
- Reduce onsite concentrations of 1,4-dioxane in the top/weathered zone of the bedrock aquifer
- Prevent off-site migration of 1,4-dioxane

CO-METABOLIC BIODEGRADATION OF 1,4-DIOXANE:

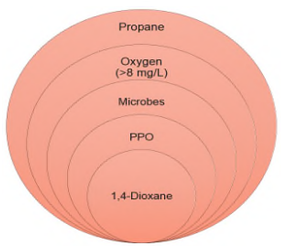
Metabolism: the goal is to produce energy



Co-Metabolism: A fortuitous side reaction



Propane + Oxygen + Microbes = 1,4-Dioxane Treatment



SYSTEM SETUP

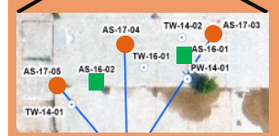


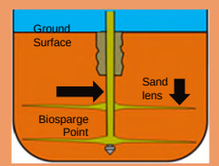


Compressor



Biosparge Wellhead





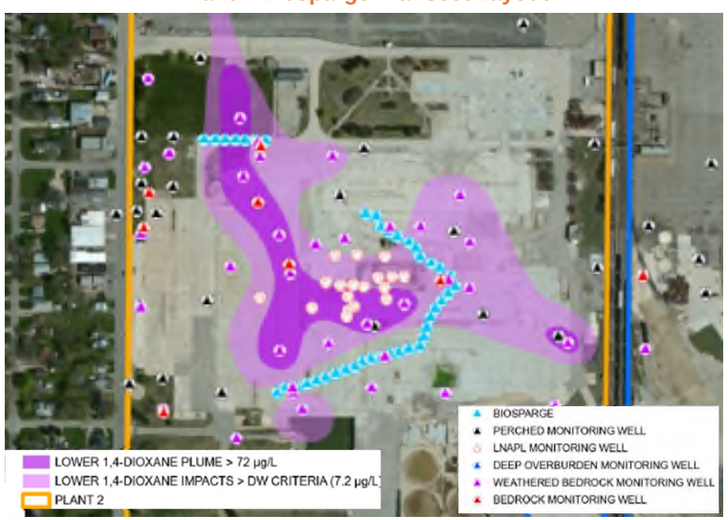
Sand Enhancements



Biosparge Transect With Hoses in Gravel Cover

2016 Pilot Test Biosparge Points
2018 Pre-Design Study Biosparge Points With Sand Enhancements
Weathered Bedrock Monitoring Well

Plant 2 Biosparge Transect Layout



RACER Lansing Biosparge System

- Testing showed that biosparging is a low cost, effective, safe, and sustainable method for treating 1,4-dioxane at the Site and that the installation of sand enhancements improves treatment
- Biosparge system includes 5 treatment transects with 48 sparge wells across Plants 2 and 3
- Biosparge equipment buildings are located on Plant 2 and 3 with nearly 5 miles of hose to convey air/propane from the buildings to the injection wells
- Treated groundwater flows from northwest to southeast as it is cleaned by each treatment transect
- Network of monitoring wells is to track treatment progress
- After 4 to 5 years of operation, the biosparge system has reduced average 1,4-dioxane plume concentrations from a range of 160 - 485 µg/L down to a range of 20 - 50 µg/L and has meet the treatment objectives



Plant 2 Biosparge Building, Propane Tank, Hoses, and Nutrient Injection Tanks