



City Council  
**QUARTERLY  
UPDATE**

*and*  
**GELMAN PLUME  
1,4-Dioxane**

## Sentinel Monitoring Well Investigation Updates

Between July and December 2019, the City of Ann Arbor has been evaluating locations to install sentinel monitoring wells between the north edge of the prohibition zone and Barton Pond. This work is part of the city’s approach to ensure the city’s surface water supply is protected from contamination. Below is the City Council August-September 2019 quarterly project update.

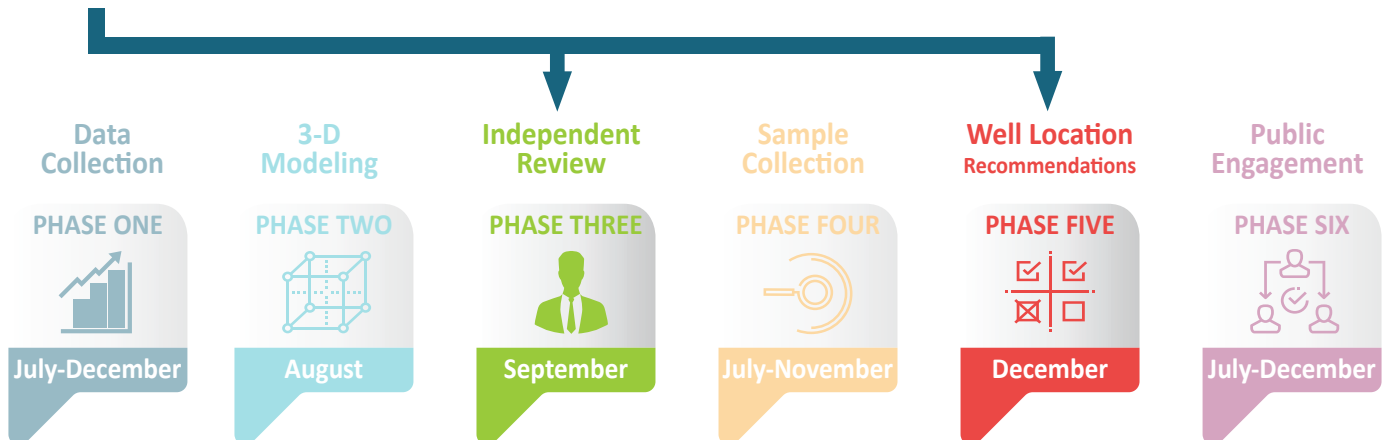
### Current Project Status

- Tetra Tech is currently finishing Phase 3 of the investigation and evaluating Phase 5.
- Access to monitoring wells for split sampling has been denied by Gelman. Phase 4 will not be completed.
- Cross-sectional areas, monitoring wells and recent analytical data have been determined and data has been entered into a 3-D model along the northern edge of the plume.
- A meeting with Central Michigan University Professor Larry Lemke was held on September 24, 2019 to review the model, findings and potential monitoring well locations.

### Next Steps

- Refine information and edit 3-D model as necessary (September - October).
- Prepare a presentation for the listening session scheduled for October 28, 2019 from 7-9 pm in City Council Chambers.
- Prepare a presentation for the CARD quarterly meeting November 5, 2019.

**WHERE  
ARE WE  
NOW?**



# Agency Updates

## NPDES<sup>1</sup> PERMIT

- EGLE<sup>2</sup> currently reviewing the NPDES permit application that was submitted on 4/4/19.
- EGLE has 180 days after determining completeness of application to issue or deny (expected ~ 10/19). There has been no update on this.
- Public notice period is for 30 days and a public hearing can be requested.
- If a public hearing occurs it will add time to the schedule.

## SUPERFUND DISCUSSION

- On September 12, a Joint County Working session (multiple agency meeting) was facilitated by Congresswoman Debbie Dingell, discussion included:
  - Unify all local units of government to increase public awareness.
  - Develop a unified strategy for the ongoing lawsuit against Gelman.
  - Decision on asking the Governor for EPA to deem plume a Superfund Site.

## EGLE REPORTS

- Reports anticipated in 4th Quarter 2019:
  - Allen Creek Drain Investigation Summary Report.
  - EGLE Quarterly Report - Summary of Recent Activities and Response Actions

## CARD<sup>3</sup>

- On August 7 and September 4, quarterly meetings was held.
- Allen Creek Drain surface water sampling was completed by EGLE personnel at six locations on July 29, 2019 and reported in August 2019. Two locations were non-detect and the remaining samples ranged from 1.0 to 16 parts per billion (ppb).
- A proposal was presented at the September meeting by Bob Bailey and Vince Caruso to incorporate long term 1,4-dioxane monitoring of Allen Creek in West Park.
- A quarterly report from EGLE was expected in September but has not been issued yet.
- During the meetings, three research projects pertaining to the 1,4-dioxane plume were introduced. Wayne State University study on anthropological perspectives on groundwater policy in Southeast Michigan, Fourth View Media Video Project, is completing media research, University of Michigan School of Information students to formulate the 1,4-dioxane information infrastructure.
- EGLE approved well abandonment of MW-63 S/I/D\* and TW-12.

\* shallow, intermediate and deep

## Next Quarterly Report Due January 2020

- Sentinel monitoring well locations will be determined
- CARD Updates
- NPDES Permitting Progress

<sup>1</sup> National Pollutant Discharge Elimination System

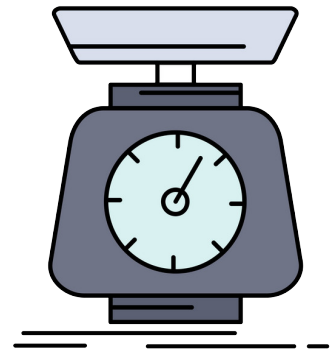
<sup>2</sup> Michigan Department of Environment, Great Lakes, and Energy

<sup>3</sup> Coalition for Action on Remediation of Dioxane

# Pall Groundwater Treatment Updates

Total Volume of Groundwater Treated  
3rd Quarter 2019

**65,428,080 gallons**



Mass of  
1,4 Dioxane Removed

July: 67.82 lbs

August: 61.10 lbs

September: 62.30 lbs

**Total: 191.22**

*The mass calculations were determined from the NPDES monthly discharge reports using the maximum daily influent concentration and maximum daily effluent concentrations.*

*The volume was calculated from the average monthly flows in the monthly discharge report.*