

# 7<sup>th</sup> Avenue and Bethany Home Road Water Quality Assurance Revolving Fund (WQARF) Registry Site

## Community Advisory Board (CAB) Presentation

October 11, 2023

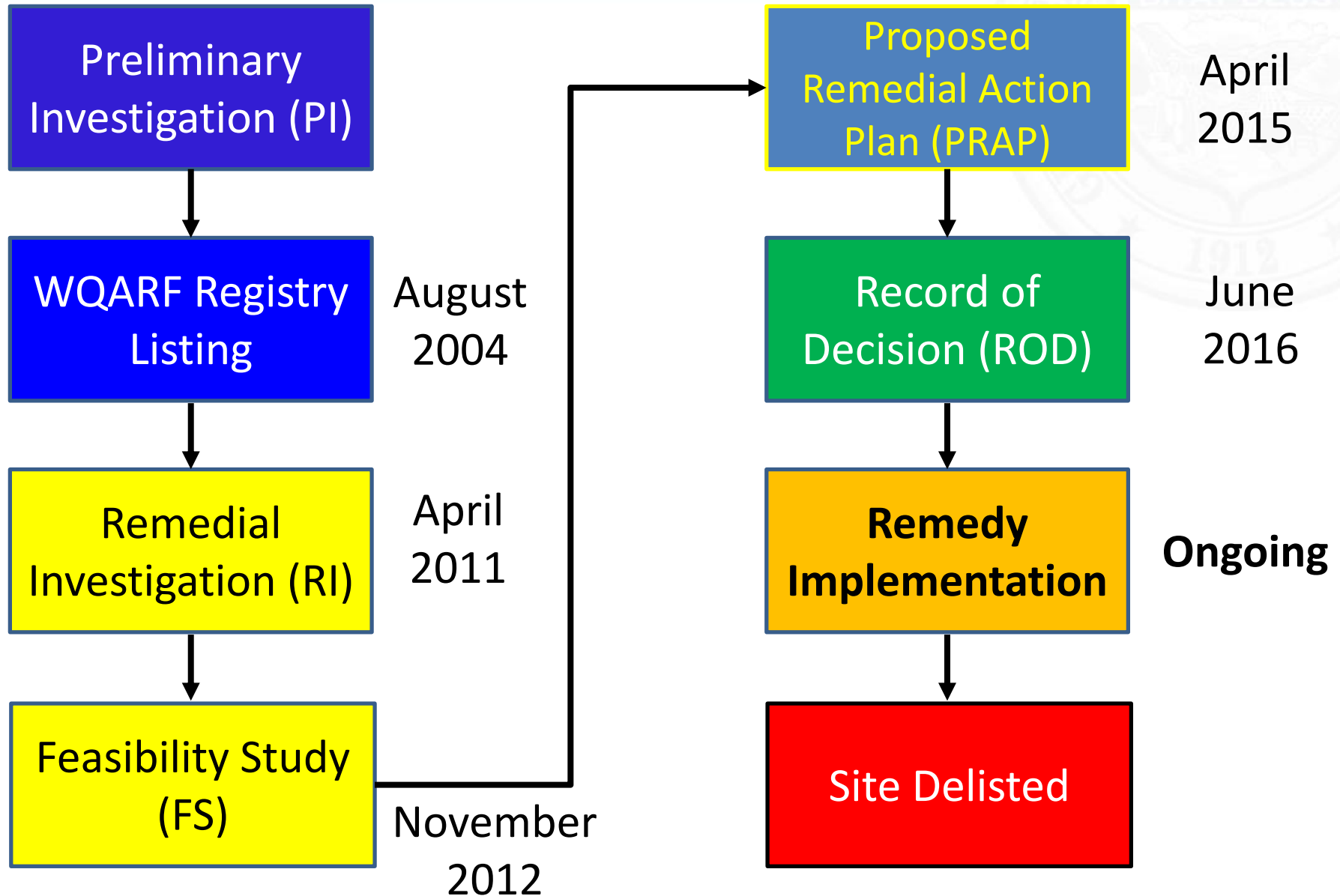
Project Manager: Mikel Morales



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# WQARF Process



- **Contaminants of Concern** = Tetrachloroethene (PCE), Trichloroethene (TCE), Vinyl Chloride (VC), and Cis-1,2-Dichloroethene (Cis-1,2-DCE)
- **Source of Contamination** = Former dry-cleaning facilities
- **Current Impacted Media** = Groundwater
- **Potential Receptors** = Salt River Project (SRP) water supply well

## 7th Ave and Bethany Home Road



Estimated WQARF Plume  
 Counties

(WQARF) Water Quality Assurance Revolving Fund Site

Publication Number: M 22-01

Plume Data Update: 6/10/2022

Plume boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.

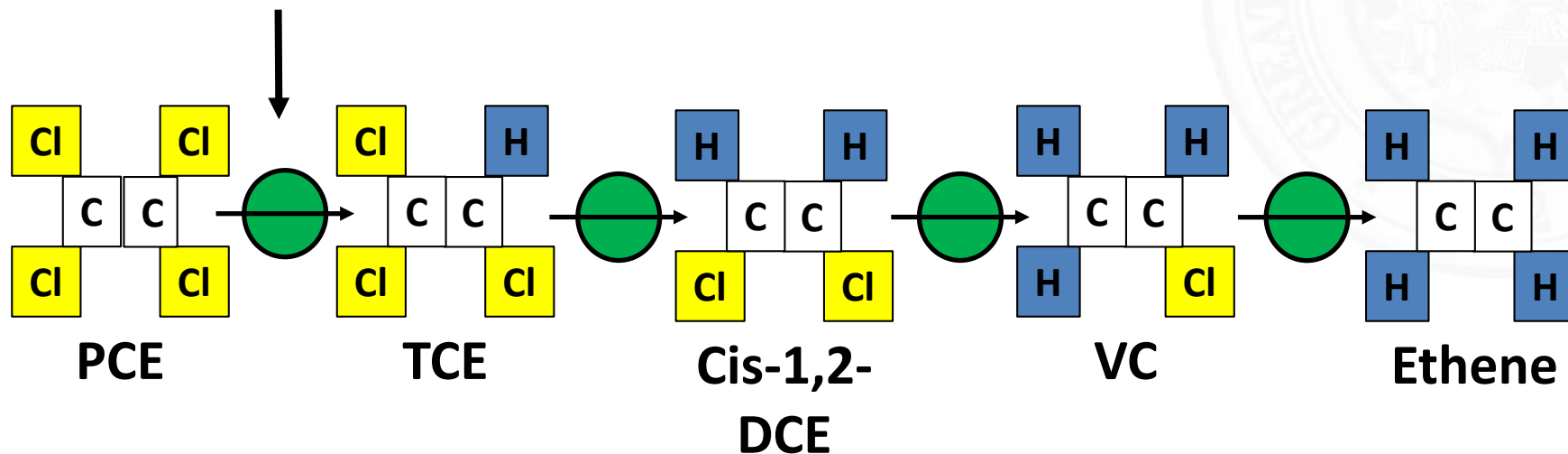
Date Saved: 10/7/2022

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- In-Situ Enhanced Reductive Dechlorination (ERD)
  - Injections
  - Performance Monitoring
- Monitored Natural Attenuation (MNA)
  - Natural Degradation of Plume
- Contingency for Wellhead Treatment at SRP Well

\*Record Of Decision (ROD) dated June 28, 2016

## Electron Donor & Bacteria



## General Process:

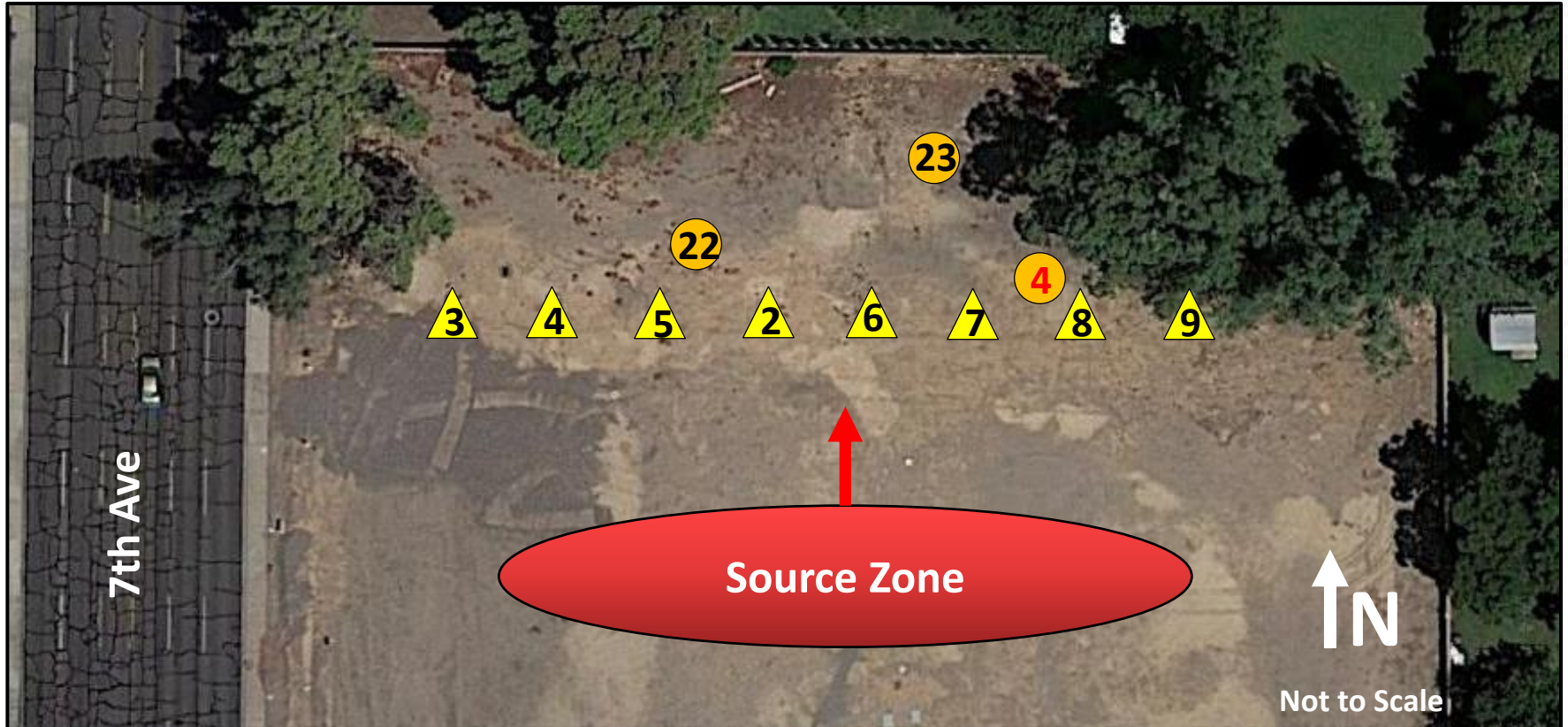
- Biostimulation: Injection of Carbon Substrate (Food & Hydrogen) to Create the Right Conditions
- Bioaugmentation: Injection of Specialized Bacteria (Dehalococcoides [DHC]) to Facilitate Degradation of Chlorinated Compounds
- Performance Monitoring: Assess Conditions (Total Organic Carbon [food] and volatile organic compounds [VOCs])



- October 2022
  - Limited Groundwater Performance Monitoring
- November 2022
  - Site-wide ERD Injections
- March 2023
  - Site-wide Annual Monitoring
- April and May 2023
  - Site-wide ERD Injections
  - Limited Groundwater Performance Monitoring



# Bayless Property Detail Map



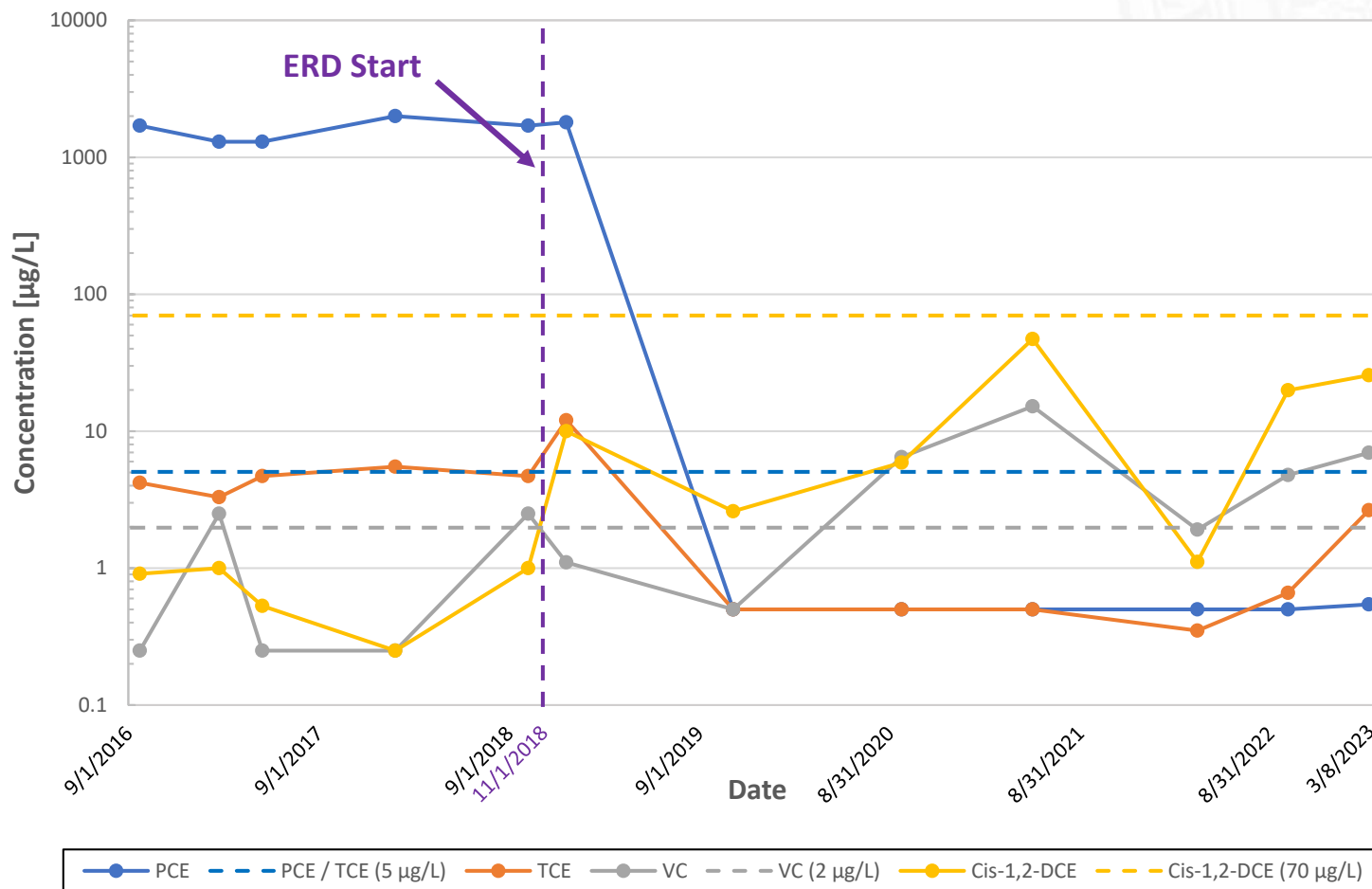
 Injection Well

 Monitoring Well

\*Red numbered wells discussed on next slides

# Groundwater Concentrations Trend – Bayless Property

## MW-04



µg/L – micrograms per liter

Dashed Horizontal Line – Aquifer Water Quality Standard (AWQS) for respective constituent

# Berridge Lane Detail Map



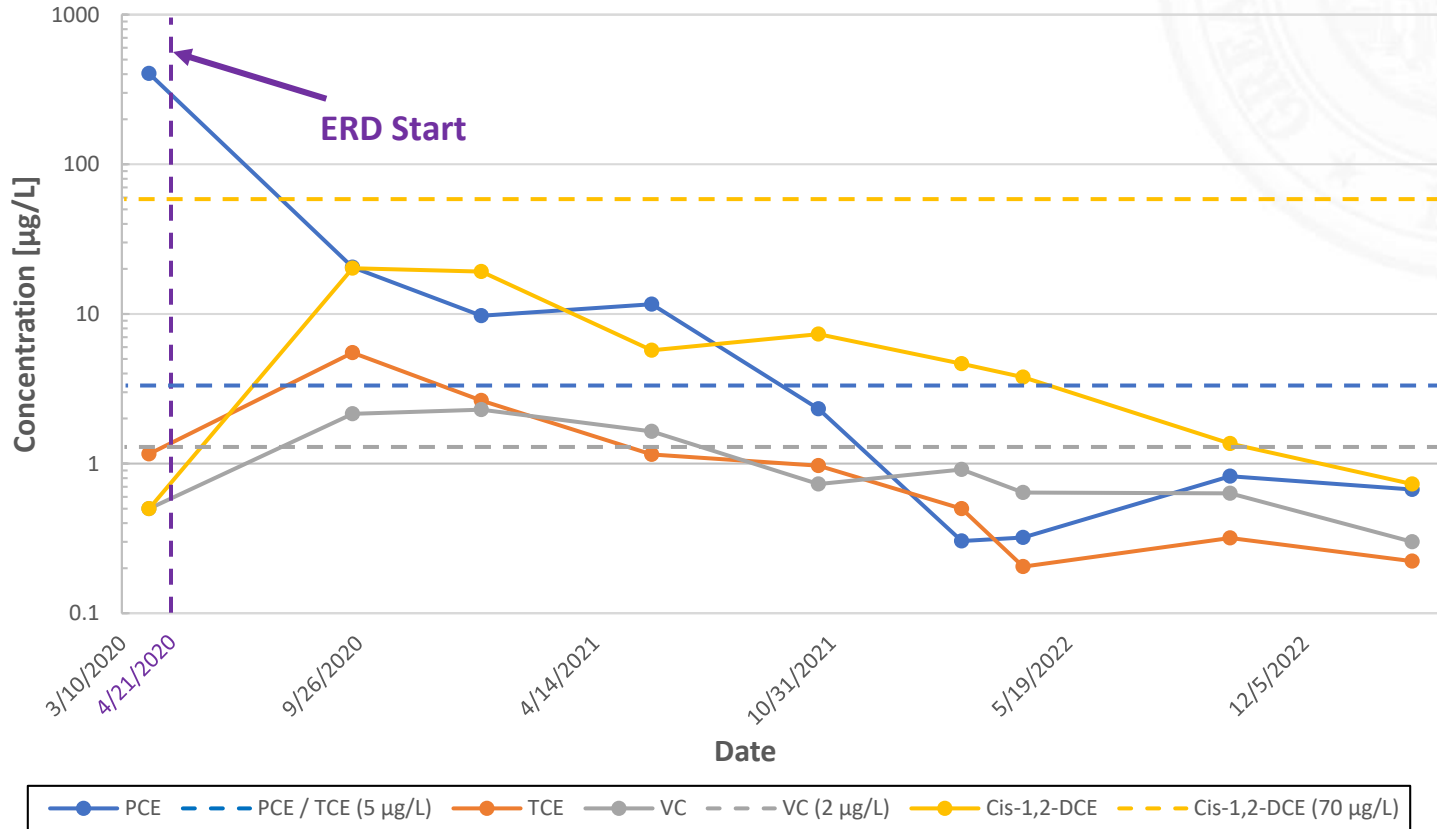
 Injection Well

 Monitoring Well

**\*Red numbered wells discussed on next slides**

# Groundwater Concentrations Trend – Berridge Lane

## IW-18





µg/L – micrograms per liter

Dashed Horizontal Line – Aquifer Water Quality Standard (AWQS) for respective constituent

# Rose Lane Detail Map

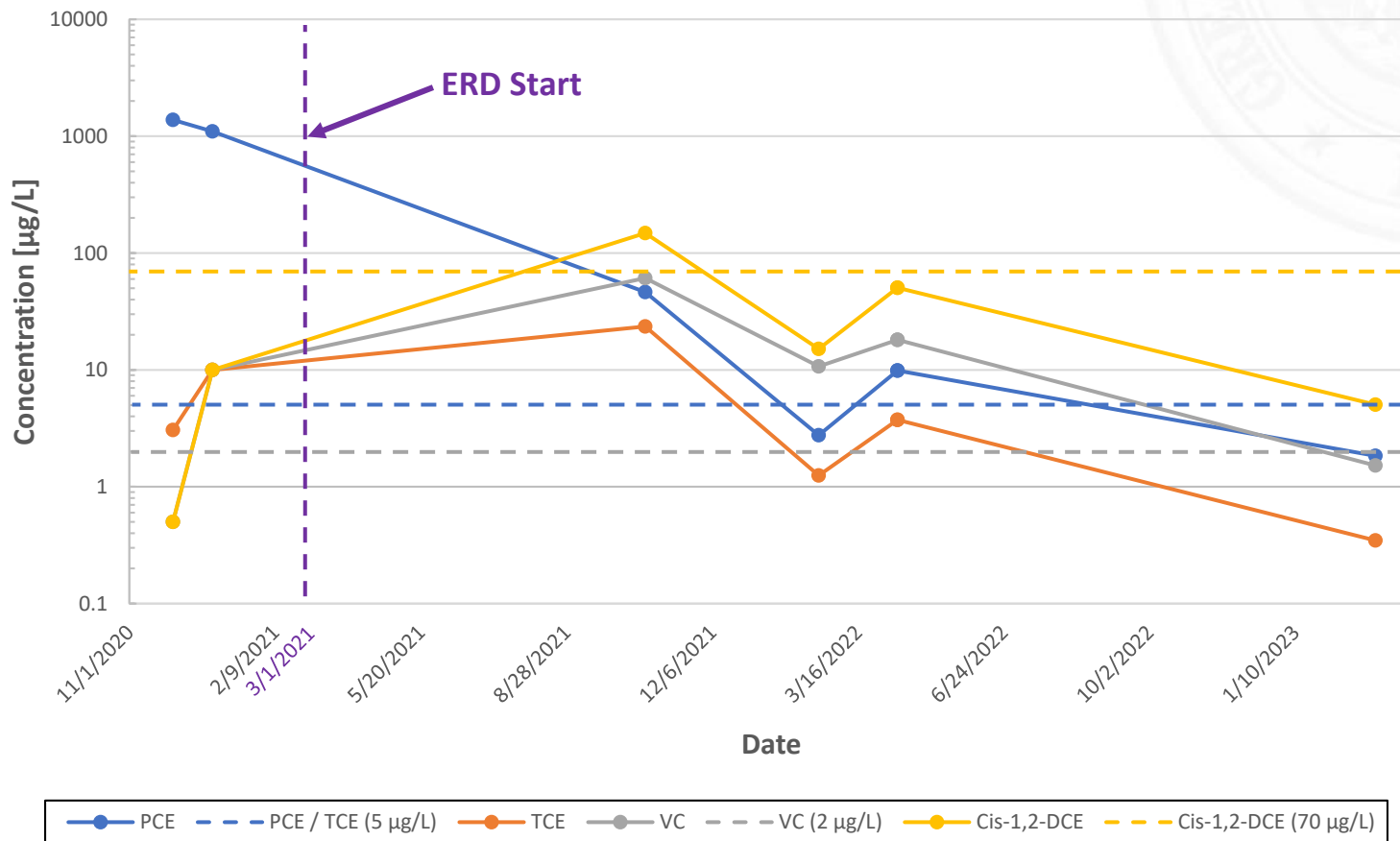


-  Injection Well
-  Monitoring Well

\*Red numbered wells discussed on next slides

# Groundwater Concentrations Trend – Rose Lane

## IW-27



µg/L – micrograms per liter

Dashed Horizontal Line – Aquifer Water Quality Standard (AWQS) for respective constituent

- Site-Wide Groundwater Monitoring
- Periodic Site Review



Thank you! Questions?



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