

# Highway 260 & Johnson Lane WQARF Site CAB Presentation

Joshua Campbell

13 November 2023



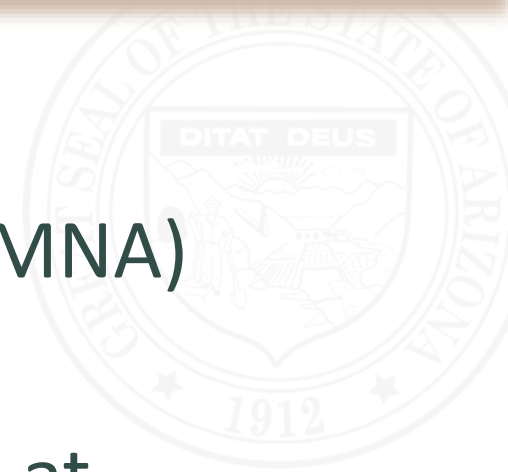
Clean Air, Safe Water,  
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- Small dry cleaner released perchloroethene (PCE) to soil and groundwater
- PCE plume has impacted several private drinking water wells
- Record of Decision (ROD) signed in January 2021

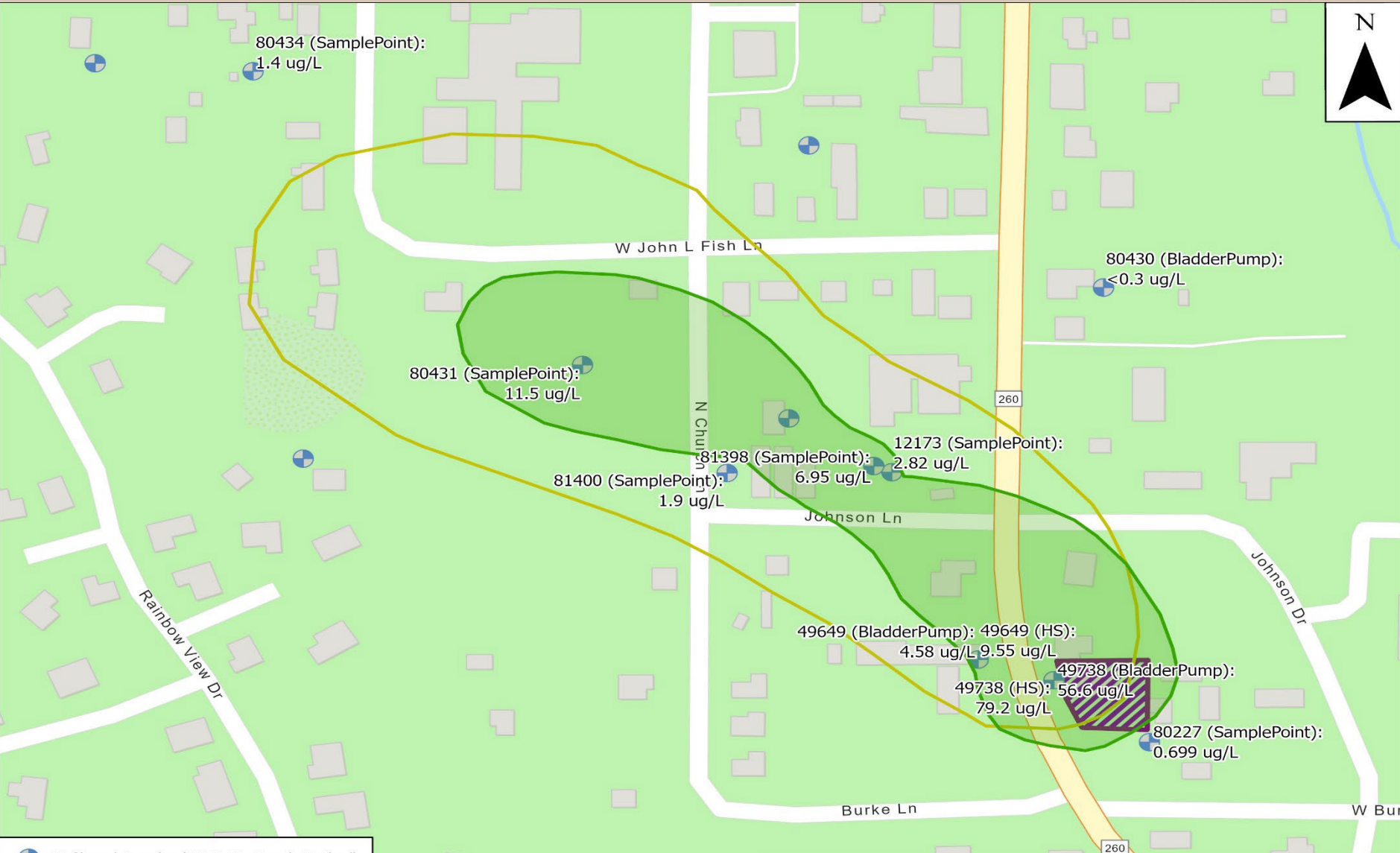


- Groundwater
  - Monitored Natural Attenuation (MNA) being used across the plume
  - In-line filtration systems installed at affected homes
- Soil
  - Soil Vapor Extraction (SVE) pilot test conducted at source property



- Groundwater is sampled across the Site twice per year (Fall and Spring)
- PCE concentrations are still falling across most of the Site
- Source zone PCE concentrations have dropped after peaking during the Spring 2022 sampling event

# Perchloroethene in Wells, April 2023



80434 (SamplePoint):  
1.4 ug/L

80430 (BladderPump):  
<0.3 ug/L

80431 (SamplePoint):  
11.5 ug/L

12173 (SamplePoint):  
2.82 ug/L

81398 (SamplePoint):  
6.95 ug/L

81400 (SamplePoint):  
1.9 ug/L

49649 (BladderPump): 49649 (HS):  
4.58 ug/L 9.55 ug/L

49738 (BladderPump):  
49738 (HS): 56.6 ug/L  
79.2 ug/L

80227 (SamplePoint):  
0.699 ug/L

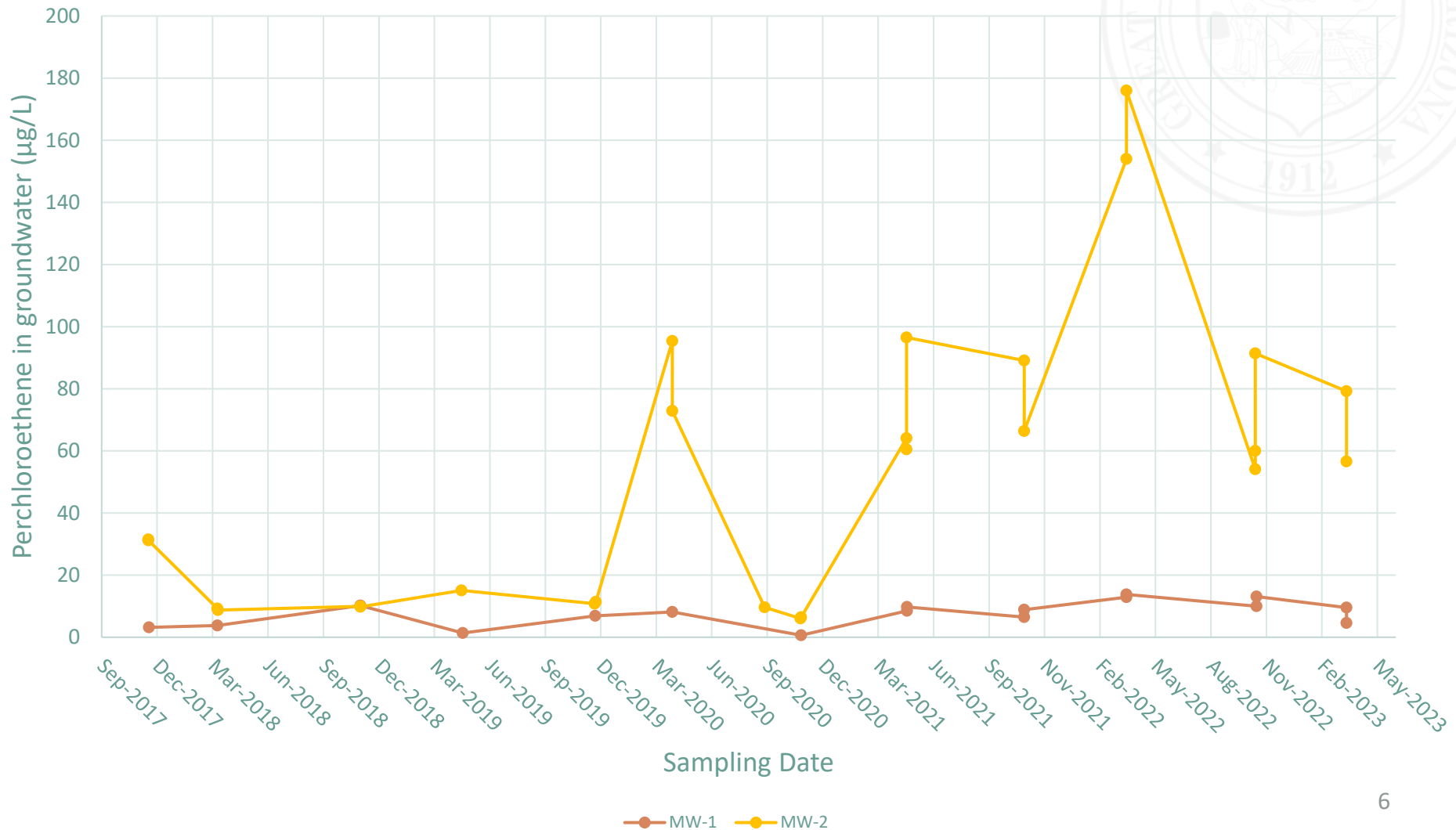
-  Unfiltered Samples (ADEQ ID, Sample Method)
-  PCE >5 µg/L, 2022 April
-  PCE >5 µg/L, 2023 April
-  Source Property



All results are micrograms of perchloroethene per liter of groundwater (µg/L).  
NS = Not sampled  
HS = Hydrasleeve

# Perchloroethene in Source Wells

Perchloroethene Detections in Groundwater  
Highway 260 and Johnson Lane WQARF Site  
Lakeside, AZ



- Increasing PCE levels in groundwater at source property observed from Fall 2020 to Spring 2022
- Triggered contingent action in ROD to attempt SVE at source property
- SVE pilot test conducted in Fall 2022

# Soil Vapor Extraction Pilot Test

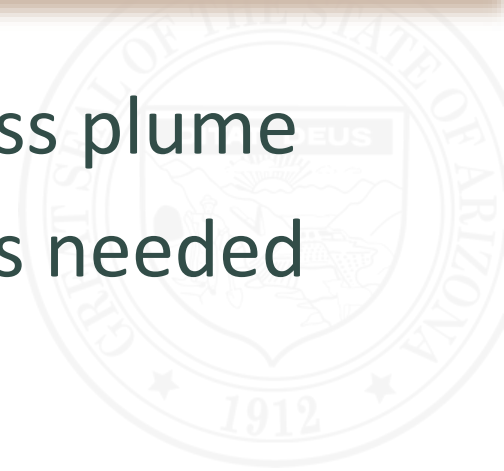




- Basalt bedrock at Site made vapor well installation difficult
- Poor airflow in soil and bedrock
- Little PCE capture reported
- SVE does not seem tenable at the source property



- Continued monitoring of MNA across plume
- Maintenance of filtration systems as needed



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