

## Remedial Summary

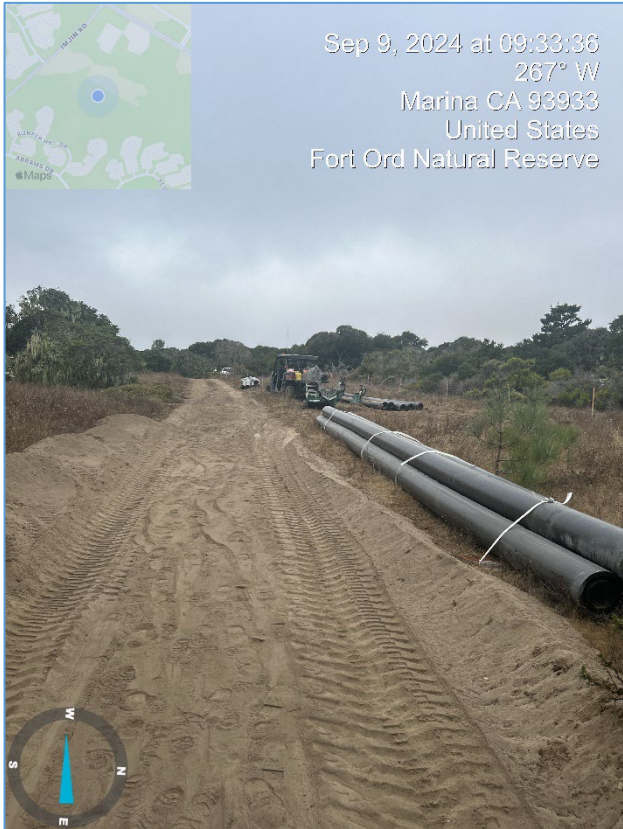
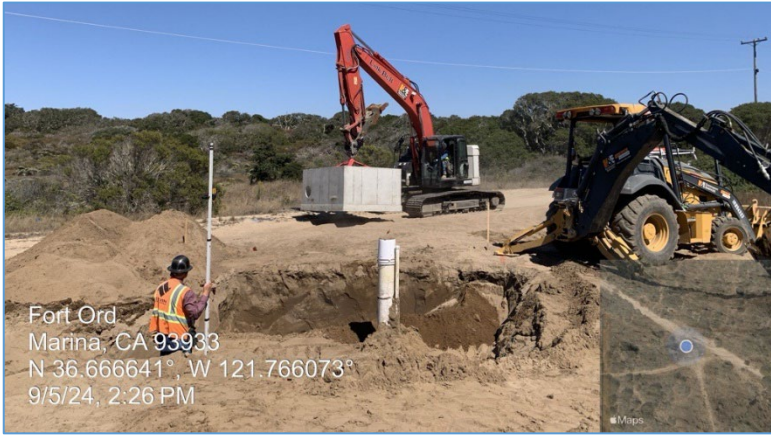
- **A-Aquifer:**
  - **8 COCs:** 1,1-DCE; Total 1,2-DCE; CT; chloroform; methylene chloride; PCE; TCE; and VC.
  - **Remediation:** EISB.
- **Upper 180-Foot Aquifer:**
  - **1 COC:** CT
  - **Remediation:** Pump and treat with GAC at OU2 GWTP since 2011. Operation split the single plume in half. However, CT never detected above the ACL at EW-OU2-09-180.
- **Lower 180-Foot Aquifer:**
  - **2 COCs:** 1,2-DCA and CT. TCE monitored also.
  - **Remediation:** MNA with supply wellhead treatment contingency.
- **Monitoring:** Quarterly groundwater monitoring and reporting, including annual 3Q monitoring and reports. Described in the most recent Groundwater QAPP.

## Jul-Aug Key Events

- Jul 8 - 12: EW-OU2-13-180 Well development/specific capacity testing.
- Aug 13: Post-development baseline sampling (PDBs) and analysis.
- Aug 19-23: Third Quarter 2024 GWMP event.

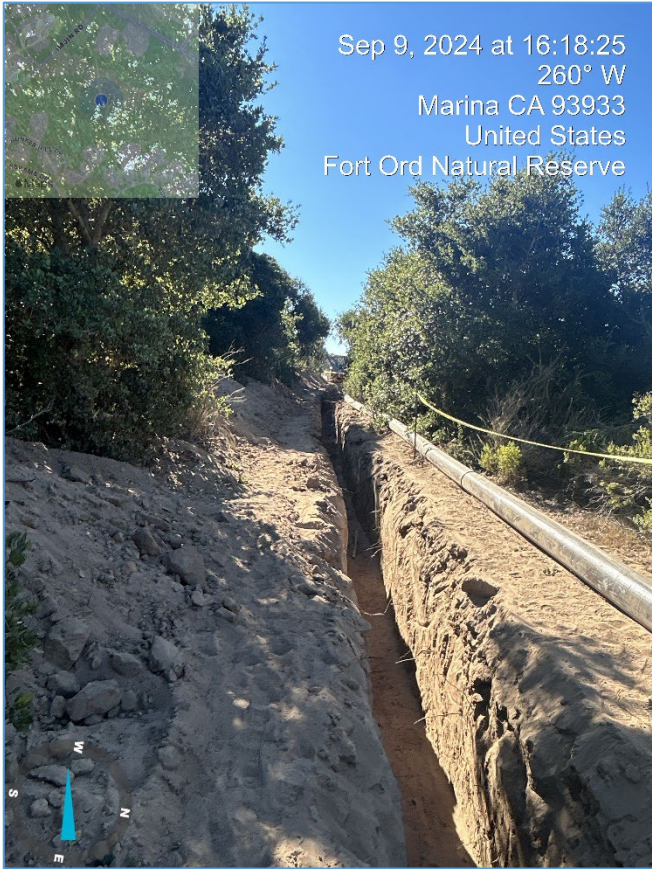
## Future Key Events

- Complete EW-OU2-13-180 construction activities:
  - Installation of well vault.
  - Conduit and conveyance install.
  - Submersible pump and vault install.
  - Connect to OU2 GWTS, testing, baseline sampling.
  - O&M, long-term performance monitoring.
- Install three monitoring wells in the A-Aquifer Hydraulic Zone 5.



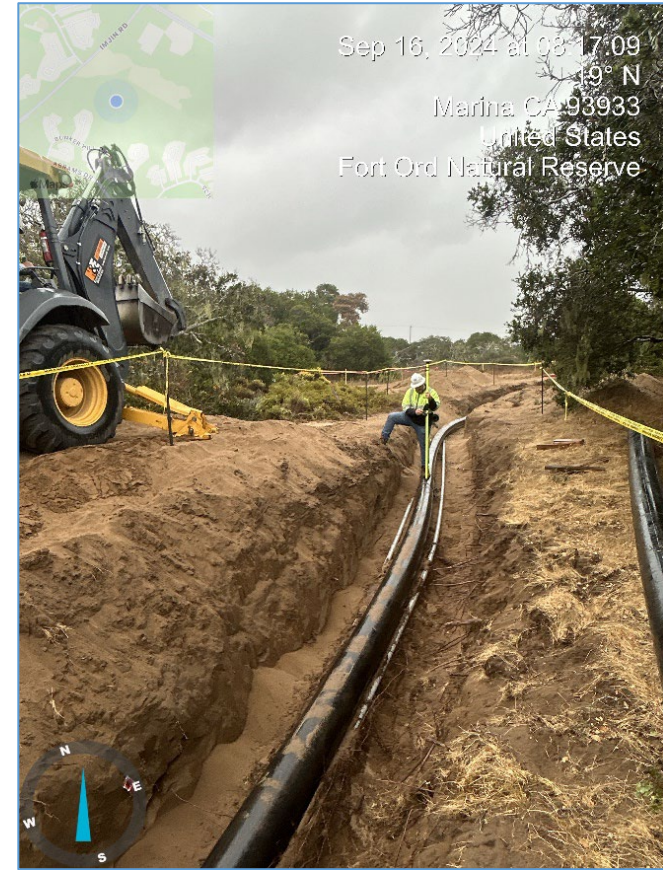
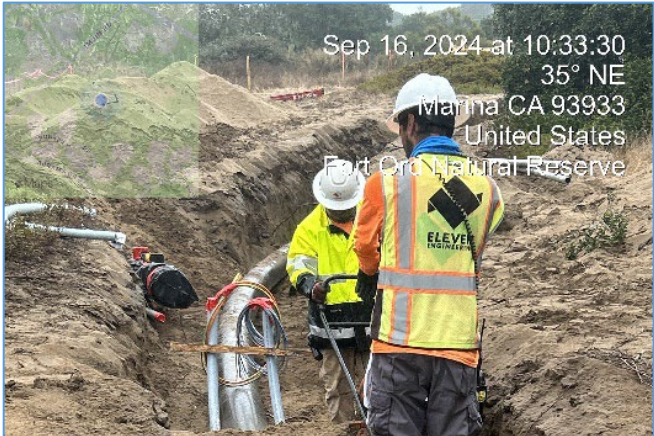
Ahtna

# EW-OU2-13-180 Construction



Ahtna

# EW-OU2-13-180 Construction



# GWM COC Summary

**Table 1: OUCTP GWM Summary – A-Aquifer**

Quarter	1,1-DCE	T 1,2-DCE	CT	Chloroform	Methylene Chloride	PCE	TCE	VC
2024-3Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	>ACL
2024-2Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	>ACL
2024-1Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	ND
2023-4Q	ND	<ACL	>ACL	<ACL	ND	<ACL	<ACL	>ACL
Max COC/ACL Ratio	-	-	4.2	-	-	-	-	7.9
Hydraulic Zone	-	-	5	-	-	-	-	2

**Notes:**

\*Preliminary data  
 >: greater than  
 <: less than  
 ACL: Aquifer Cleanup Level  
 1,1-DCE: 1,1-dichloroethene  
 T 1,2-DCE: total 1,2-dichloroethene  
 1,2-DCA: 1,2-dichloroethane  
 CT: carbon tetrachloride  
 TCE: trichloroethene  
 PCE: tetrachloroethene  
 VC: vinyl chloride  
 ND: The analyte was not detected above the detection limit.

**Table 2: OUCTP GWM Summary – Upper 180-Foot Aquifer**

Quarter	CT
2024-3Q	>ACL
2024-2Q	>ACL
2024-1Q	>ACL
2023-4Q	>ACL
Max COC/ACL Ratio	6.8
Hydraulic Zone	6

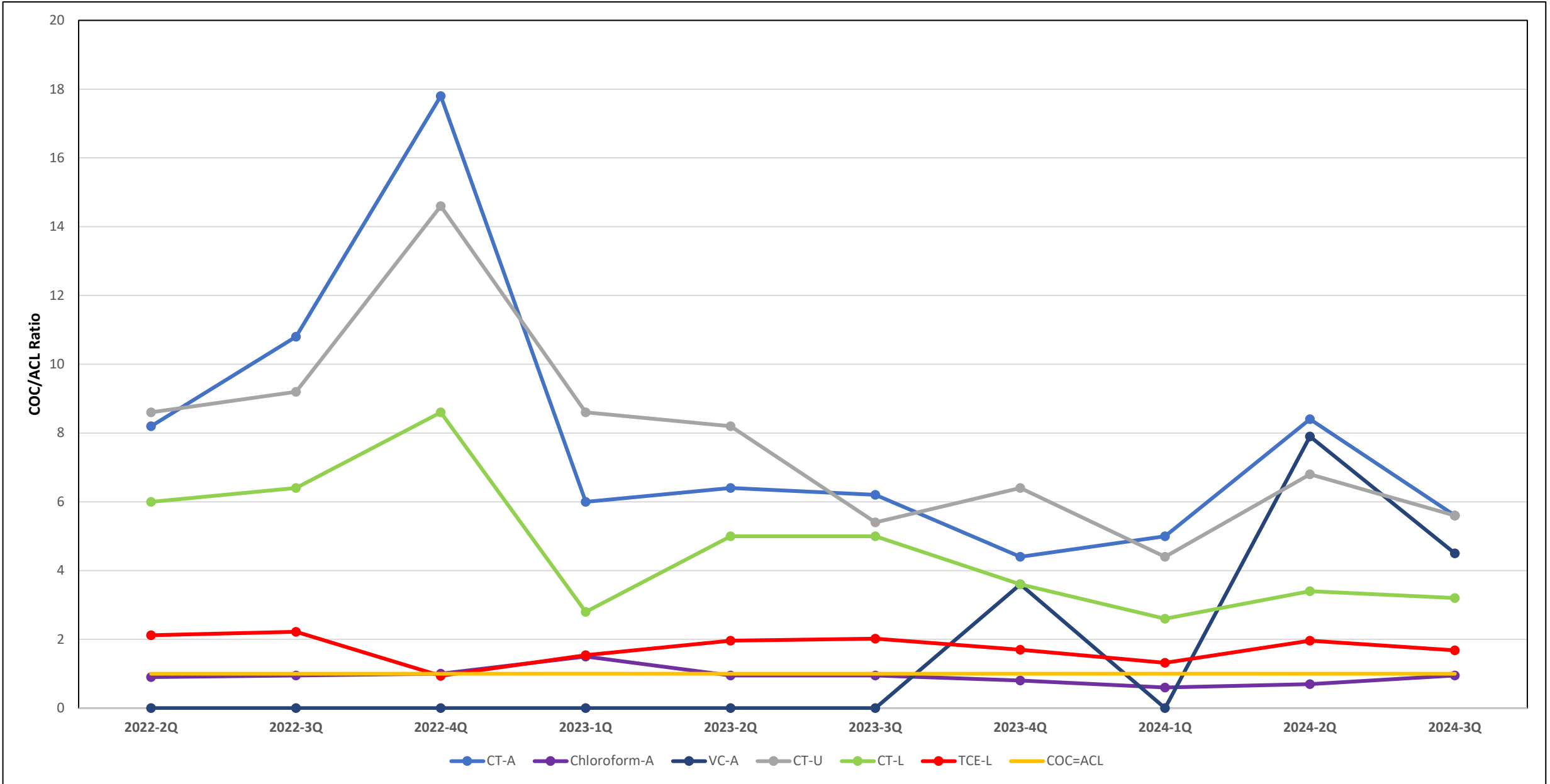
**Table 3: OUCTP GWM Summary – Lower 180-Foot Aquifer**

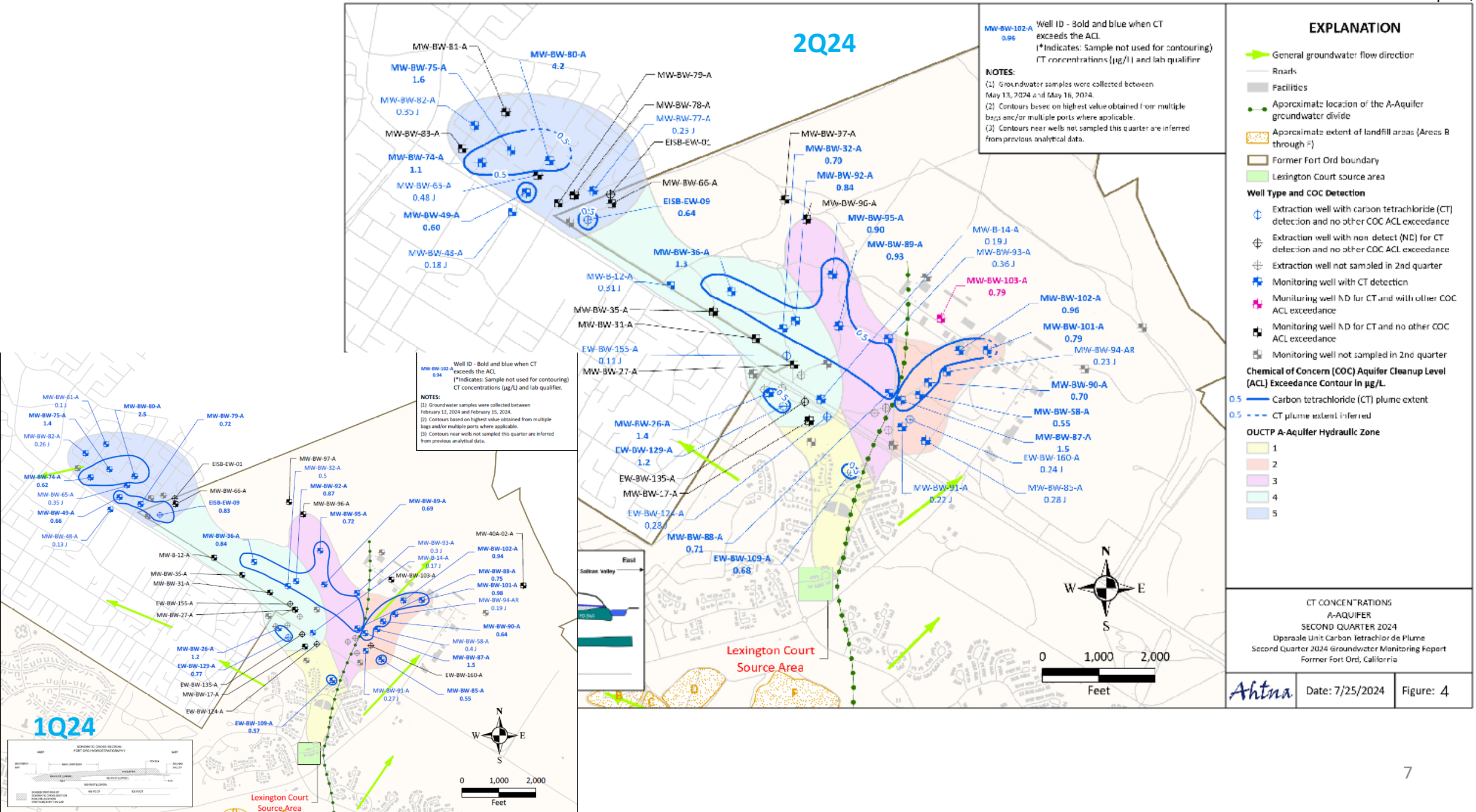
Quarter	CT	TCE	1,2-DCA
2024-3Q	>ACL	>MCL	ND
2024-2Q	>ACL	>MCL	ND
2024-1Q	>ACL	>MCL	ND
2023-4Q	>ACL	>MCL	ND
Max COC/ACL Ratio	3.6	2	-
Hydraulic Zone	7	N/A	-

2 COCs in the A-Aquifer, 1 in the Upper 180-Foot Aquifer, and 2 in the Lower 180-Foot Aquifer above the ACLs/MCLs.



# Max Quarterly COC/ACL Ratio Trend





2Q24

**MW-BW-102-A**  
0.96

Well ID - Bold and blue when CT exceeds the ACL  
(\*Indicates: Sample not used for contouring)  
CT concentrations (µg/L) and lab qualifier

**NOTES:**  
(1) Groundwater samples were collected between May 13, 2024 and May 16, 2024.  
(2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.  
(3) Contours near wells not sampled this quarter are inferred from previous analytical data.

**EXPLANATION**

- General groundwater flow direction
- Facilities
- Approximate location of the A-Aquifer groundwater divide
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary
- Lexington Court source area

- Well Type and COC Detection**
- Extraction well with carbon tetrachloride (CT) detection and no other COC ACL exceedance
  - Extraction well with non detect (ND) for CT detection and no other COC ACL exceedance
  - Extraction well not sampled in 2nd quarter
  - Monitoring well with CT detection
  - Monitoring well ND for CT and with other COC ACL exceedance
  - Monitoring well ND for CT and no other COC ACL exceedance
  - Monitoring well not sampled in 2nd quarter

**Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L**

- Carbon tetrachloride (CT) plume extent
- CT plume extent inferred

- OU2P A-Aquifer Hydraulic Zone**
- 1
  - 2
  - 3
  - 4
  - 5

CT CONCENTRATIONS  
A-AQUIFER  
SECOND QUARTER 2024  
Operable Unit Carbon Tetrachloride Plume  
Second Quarter 2024 Groundwater Monitoring Report  
Former Fort Ord, California

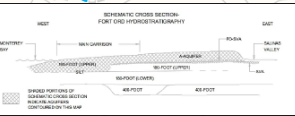
**Ahtna** Date: 7/25/2024 Figure: 4

**MW-BW-102-A**  
0.94

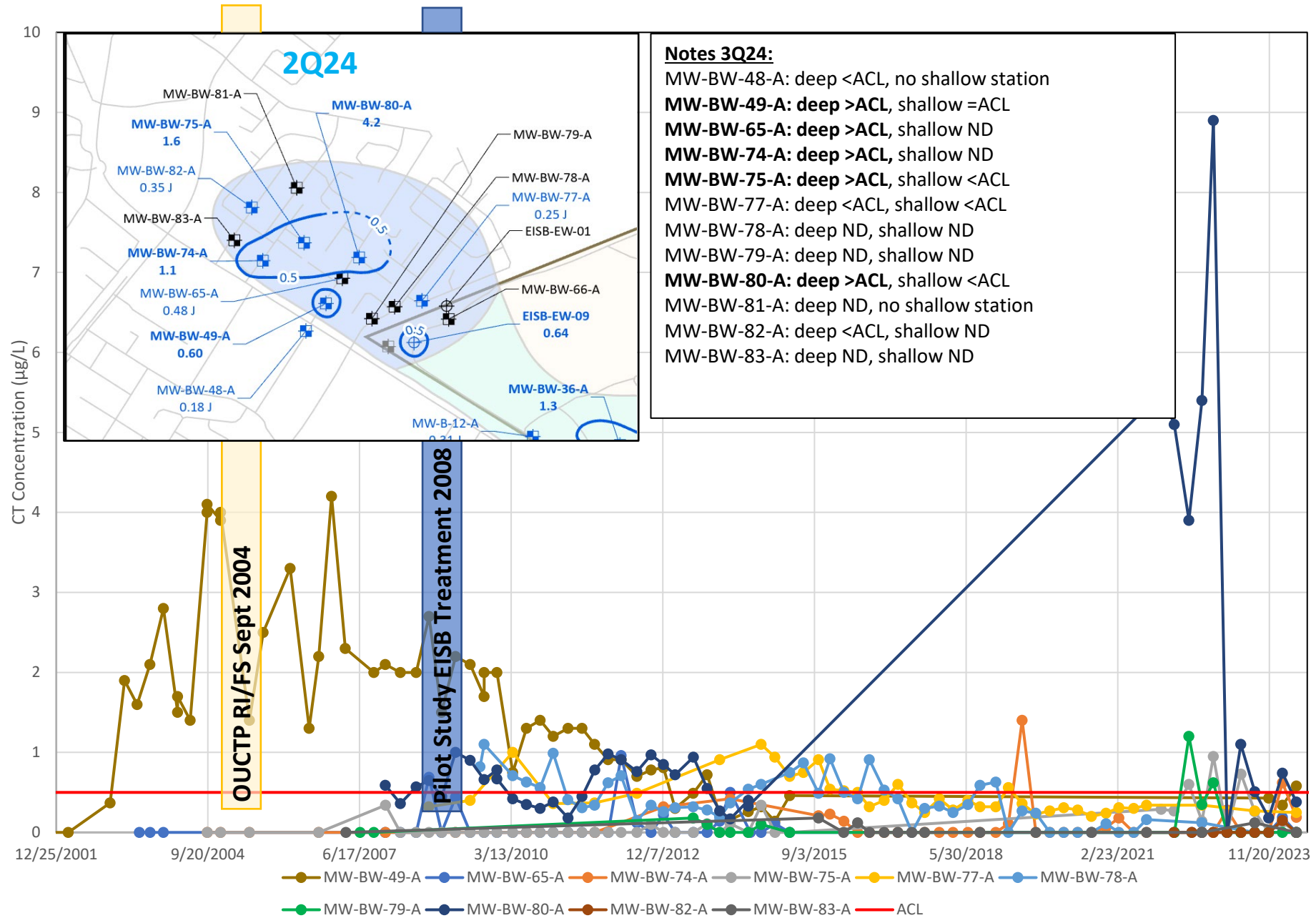
Well ID - Bold and blue when CT exceeds the ACL  
(\*Indicates: Sample not used for contouring)  
CT concentrations (µg/L) and lab qualifier.

**NOTES:**  
(1) Groundwater samples were collected between February 12, 2024 and February 15, 2024.  
(2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.  
(3) Contours near wells not sampled this quarter are inferred from previous analytical data.

1Q24

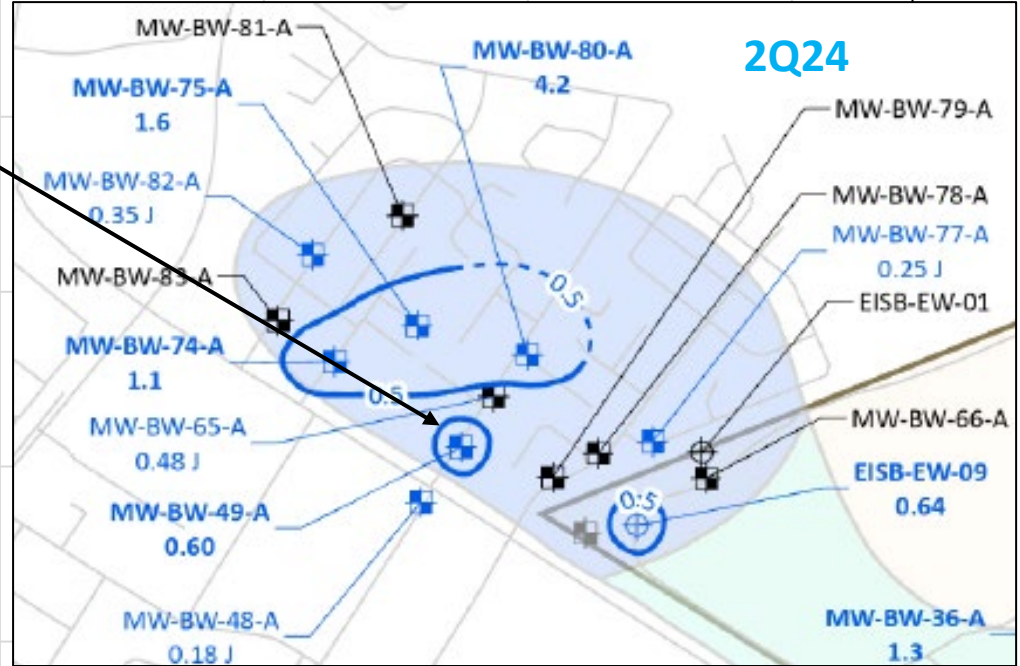
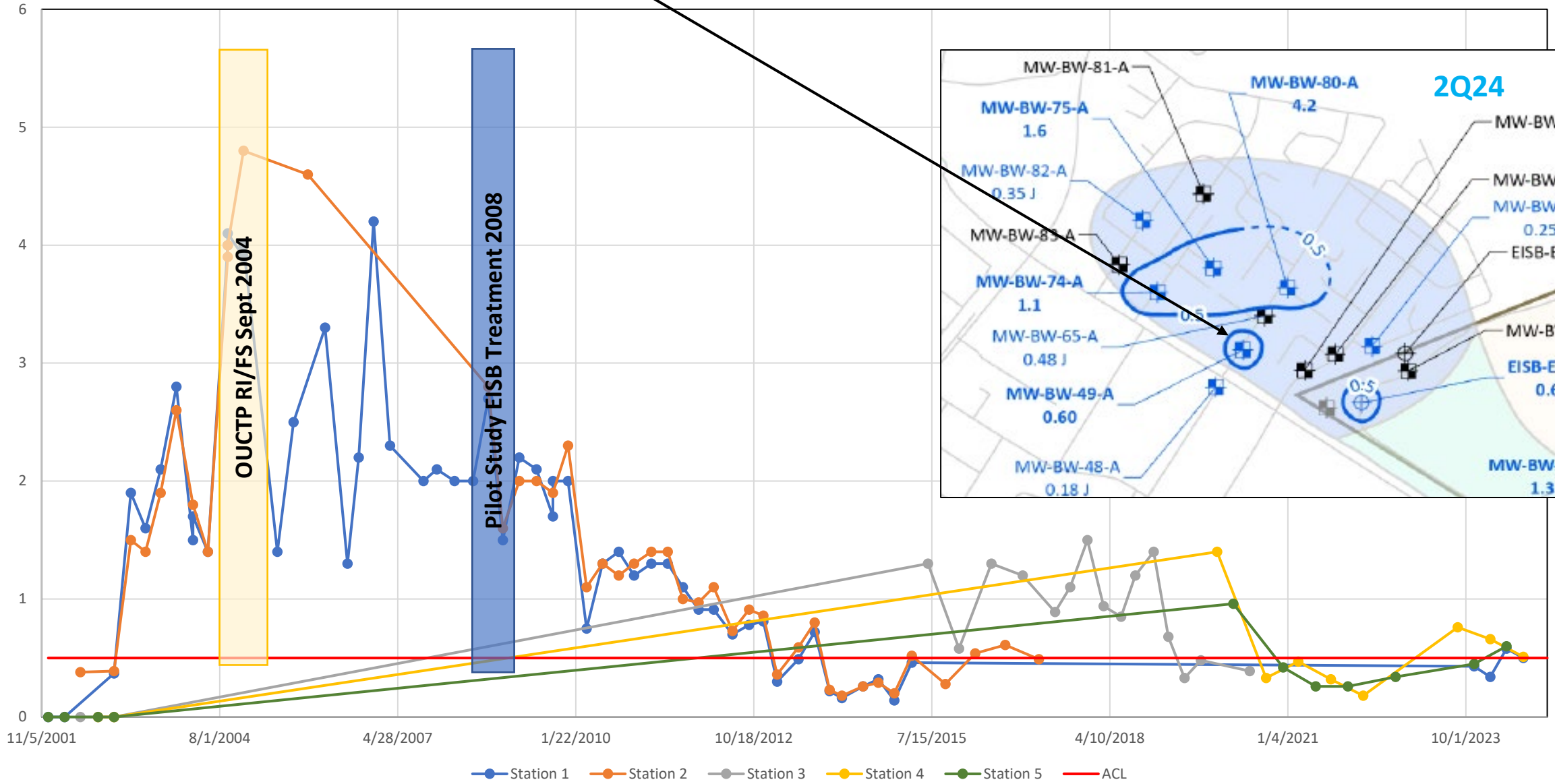


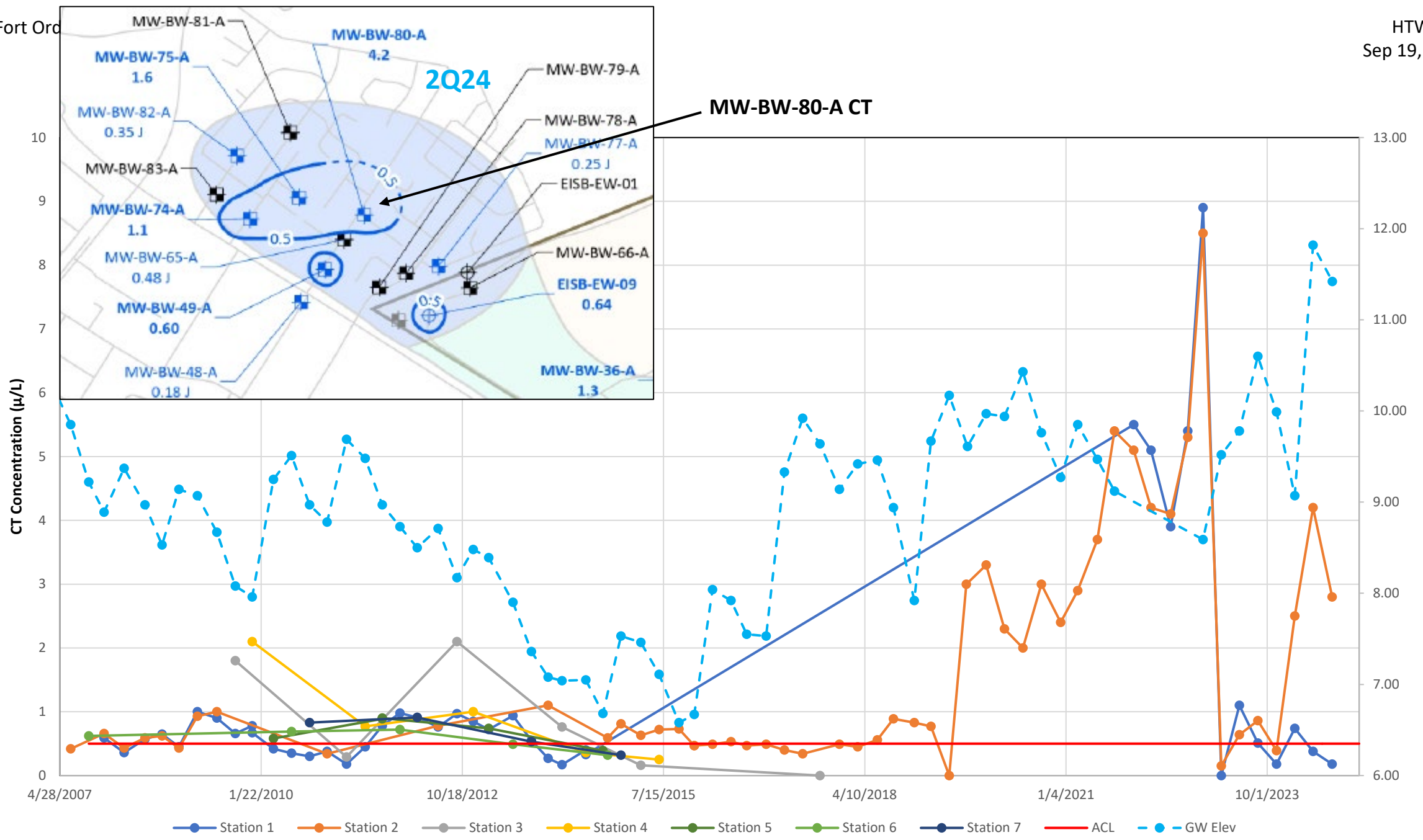
### CT Shallow Stations: City of Marina HZ 5





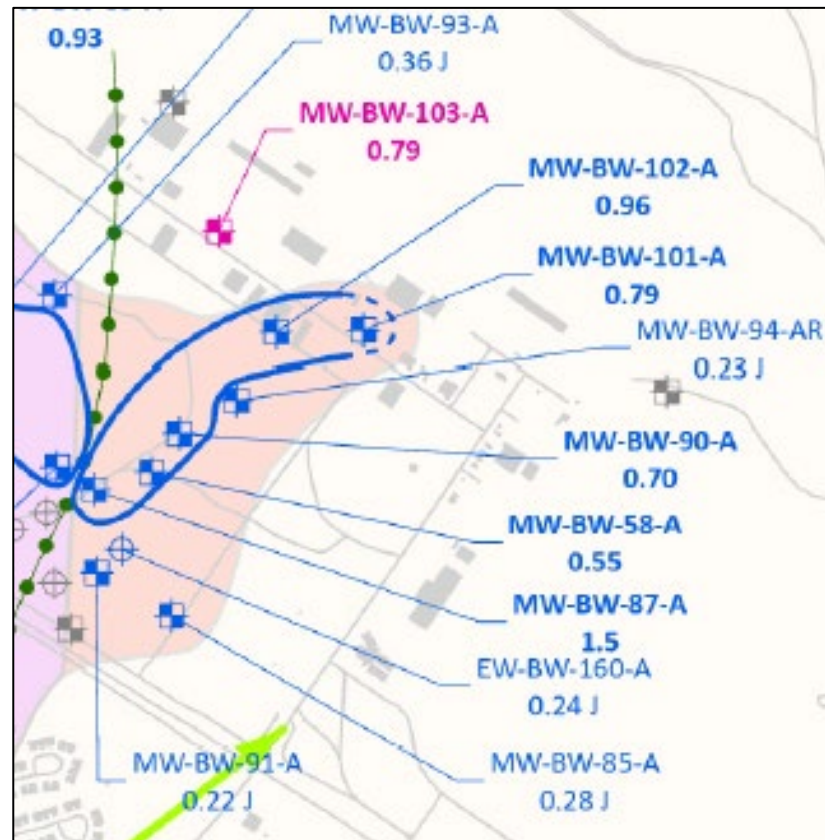
MW-BW-49-A CT





**Table 4: New OUCTP A-Aquifer Wells Profile Summary^**

Well ID	Quarter	CT	Chloroform	VC	TCE
MW-BW-101-A	4Q23	ND	ND	ND	ND
		<b>0.63</b>	0.12 J	ND	ND
		<b>0.71</b>	0.12 J	ND	ND
		<b>0.72</b>	0.12 J	ND	ND
	1Q24	<b>0.98</b>	0.12 J	ND	ND
MW-BW-102-A	4Q23	0.29 J	0.12 J	ND	ND
		<b>0.54</b>	0.17 J	<b>0.13</b>	ND
		<b>0.53</b>	0.17 J	<b>0.11</b>	ND
		0.39 J	0.17 J	<b>0.12</b>	ND
		0.27 J	0.17 J	0.097 J	ND
MW-BW-103-A	4Q23	ND	ND	ND	ND
		ND	0.14 J	ND	ND
		ND	ND	<b>0.36</b>	ND
		ND	ND	ND	ND
MW-BW-101-A	1Q24	<b>0.94</b>	0.21 J	ND	ND
		<b>0.96</b>	ND	ND	ND
		<b>1.1</b>	ND	ND	ND
		ND	ND	<b>0.79</b>	ND
MW-BW-102-A	2Q24	ND	ND	<b>0.79</b>	ND
		ND	ND	<b>0.45</b>	ND
		ND	ND	ND	ND
		ND	ND	ND	ND



No evidence of an upgradient VC source nor COCs that would dechlorinate into VC (PCE, TCE, and total-1,2-DCE) in the A-Aquifer. If VC is no longer detected, it may indicate these concentrations are a remnant of the PVC well construction material.

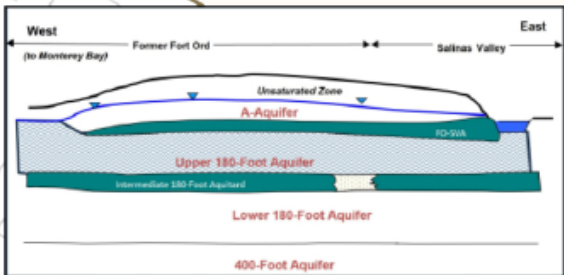
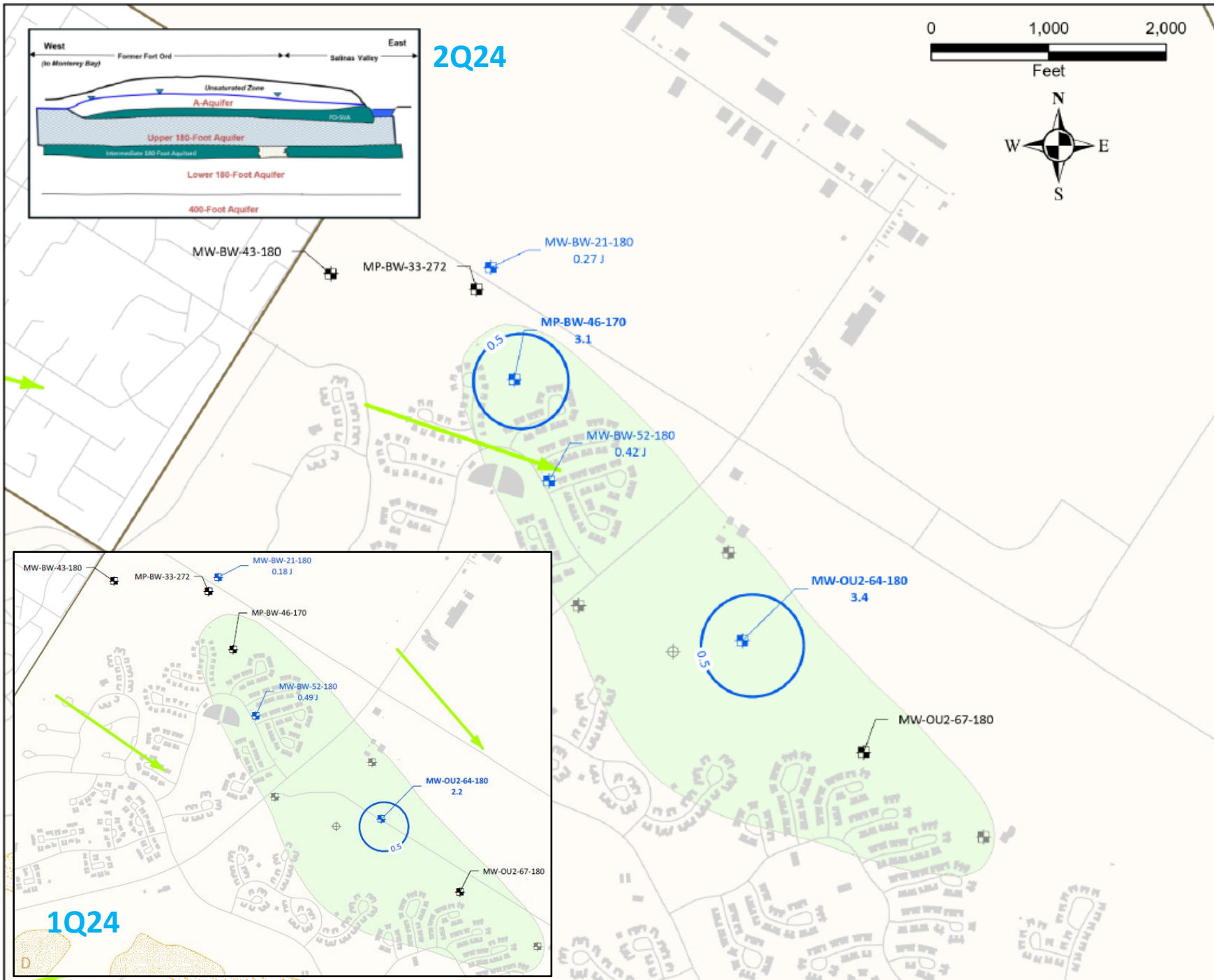
3Q24 results indicate that VC is a remnant of the PVC.

**Notes:**

\*Preliminary data

^Sample results are listed in order from shallowest to deepest stations





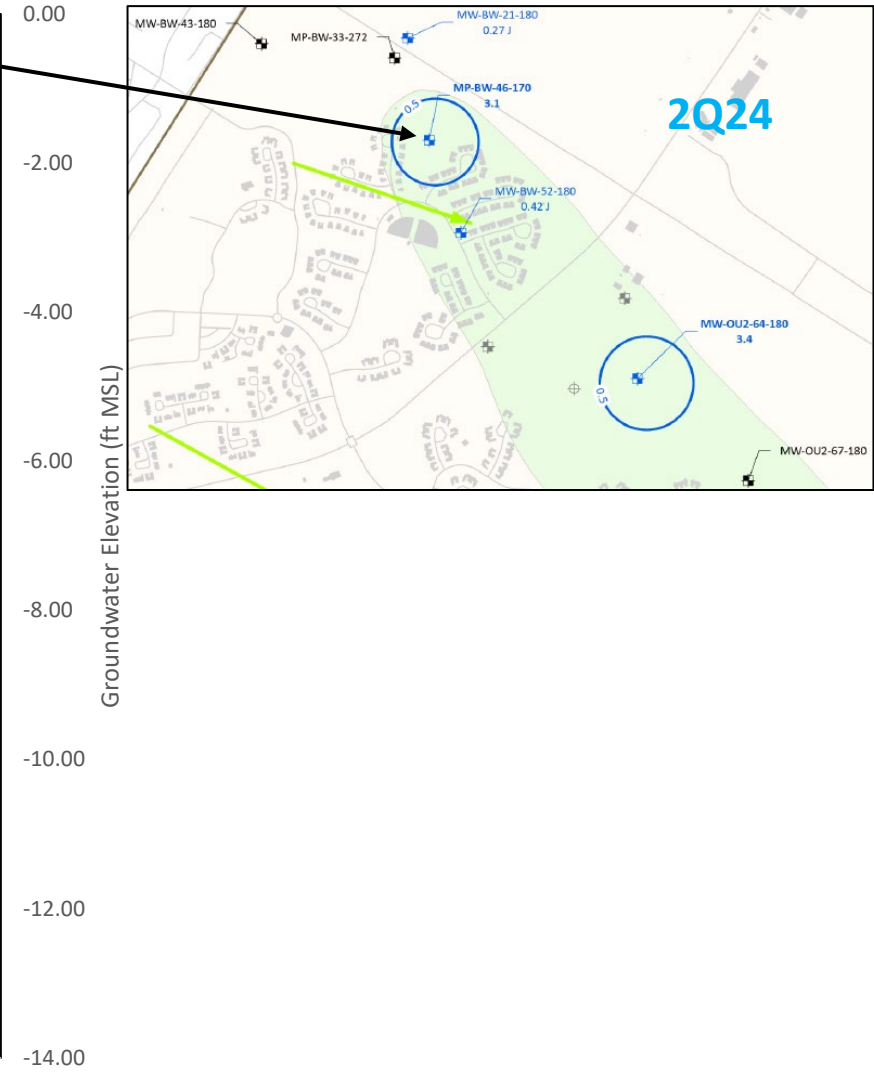
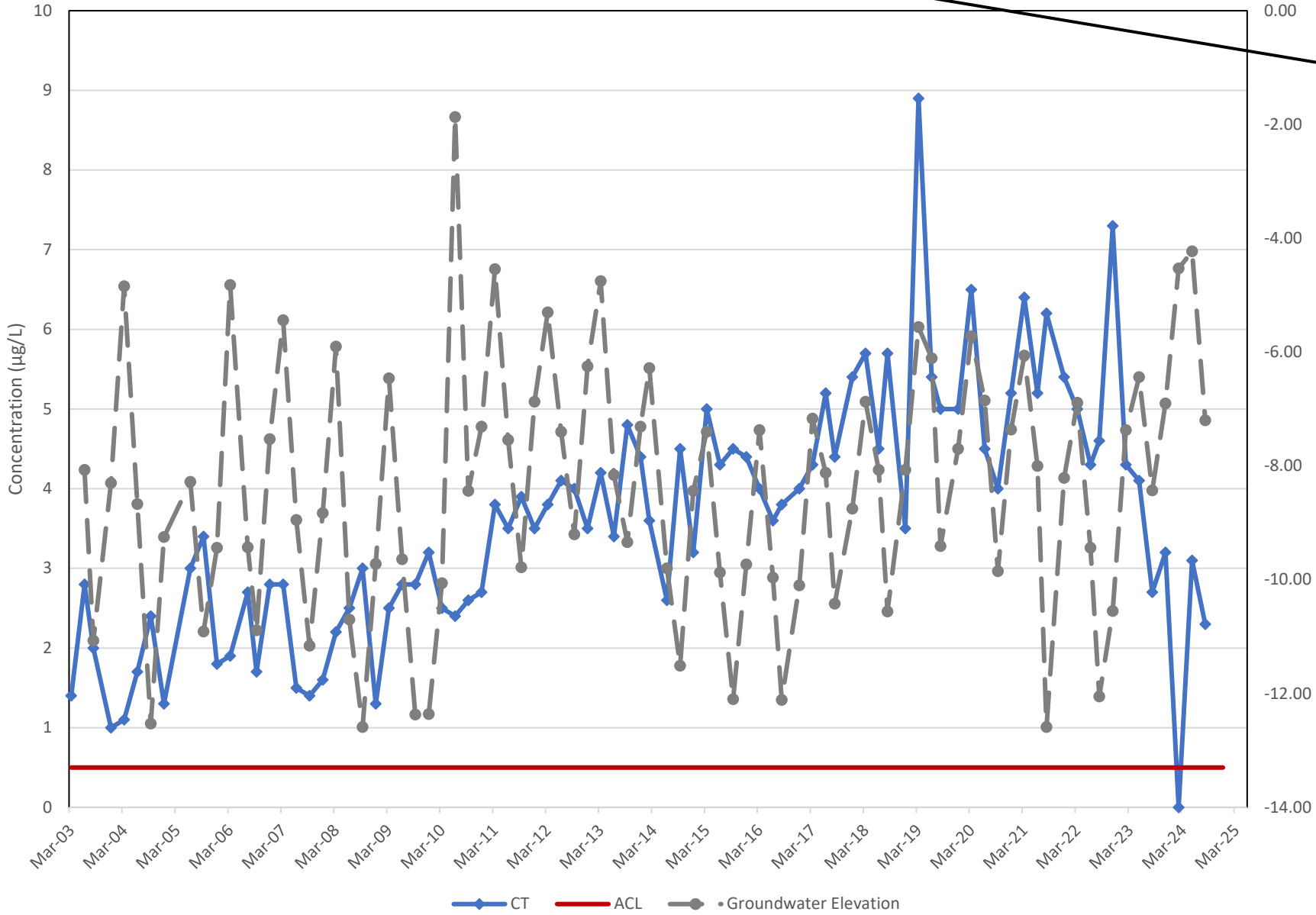
**EXPLANATION**

- General groundwater flow direction
- Roads
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary
- Well Type and COC Detection**
  - Extracting well not sampled
  - Monitoring well with carbon tetrachloride (CT) detected
  - Monitoring well with no CT detected
  - Monitoring well not sampled
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.**
  - Carbon tetrachloride (CT) plume extent
- OUCTP Upper 180-Foot Aquifer Hydraulic Zone**
  - 6

- NOTES:**
- (1) Samples were collected between May 13, 2024 and May 16, 2024.
  - (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
  - (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CT CONCENTRATIONS  
UPPER 180-FOOT AQUIFER  
SECOND QUARTER 2024  
Operable Unit Carbon Tetrachloride Plume  
Second Quarter 2024 Groundwater Monitoring Report  
Former Fort Ord, California

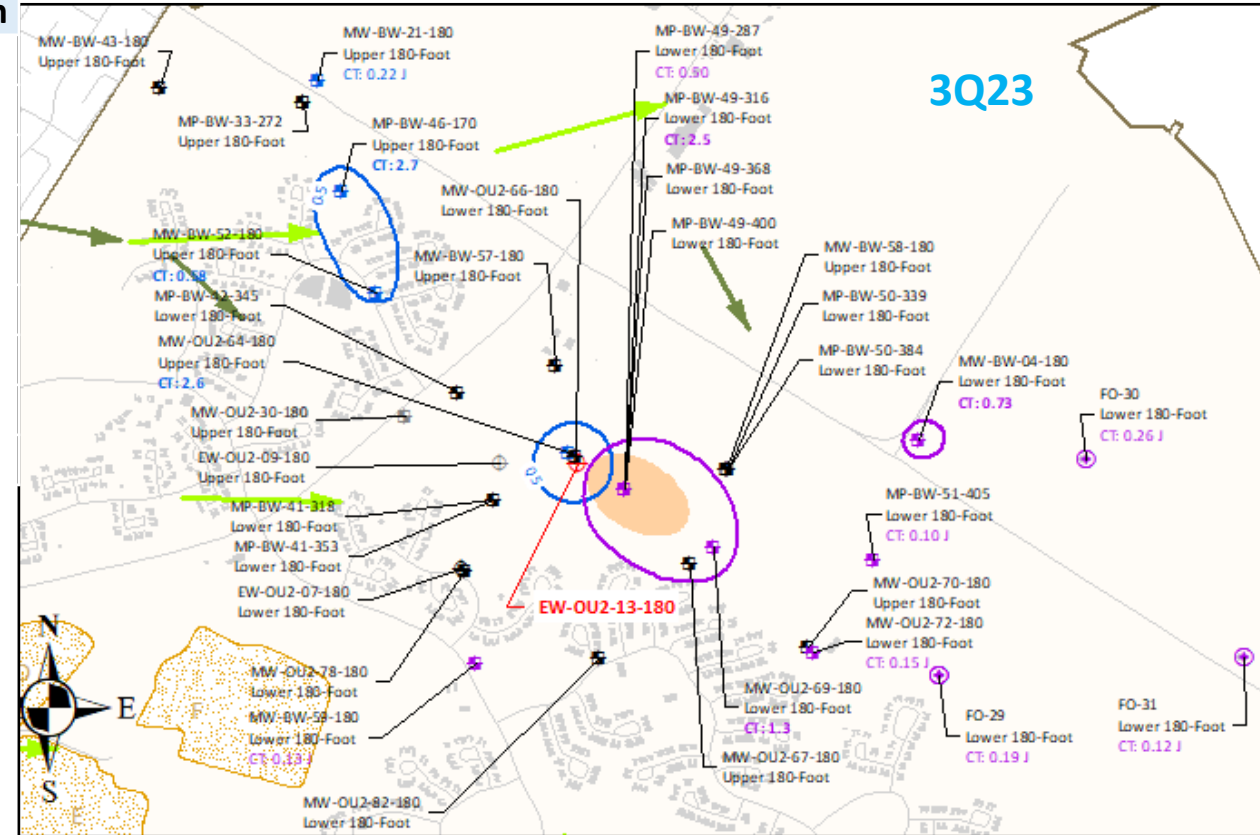
### MP-BW-46-170

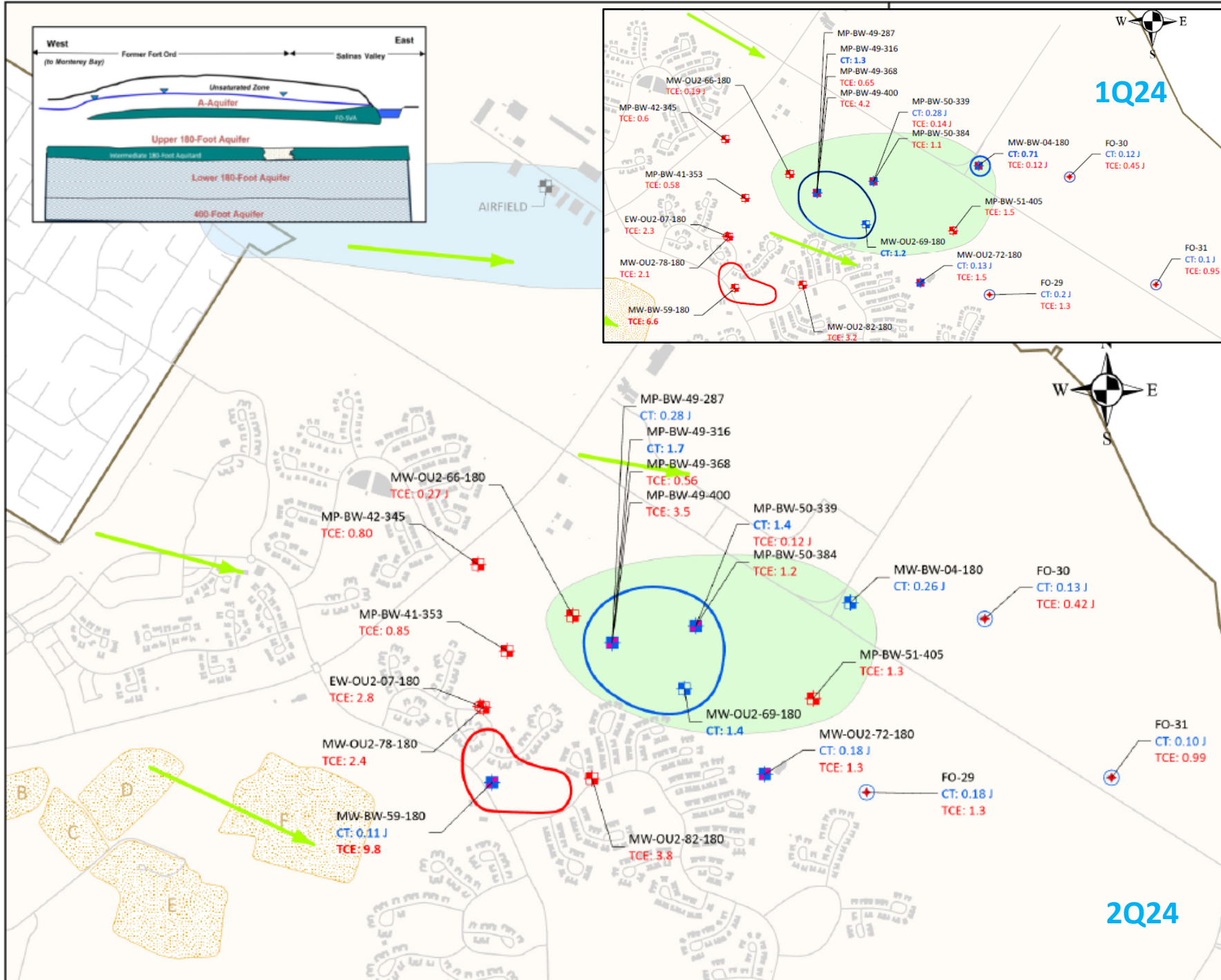


# EW-OU2-13-180

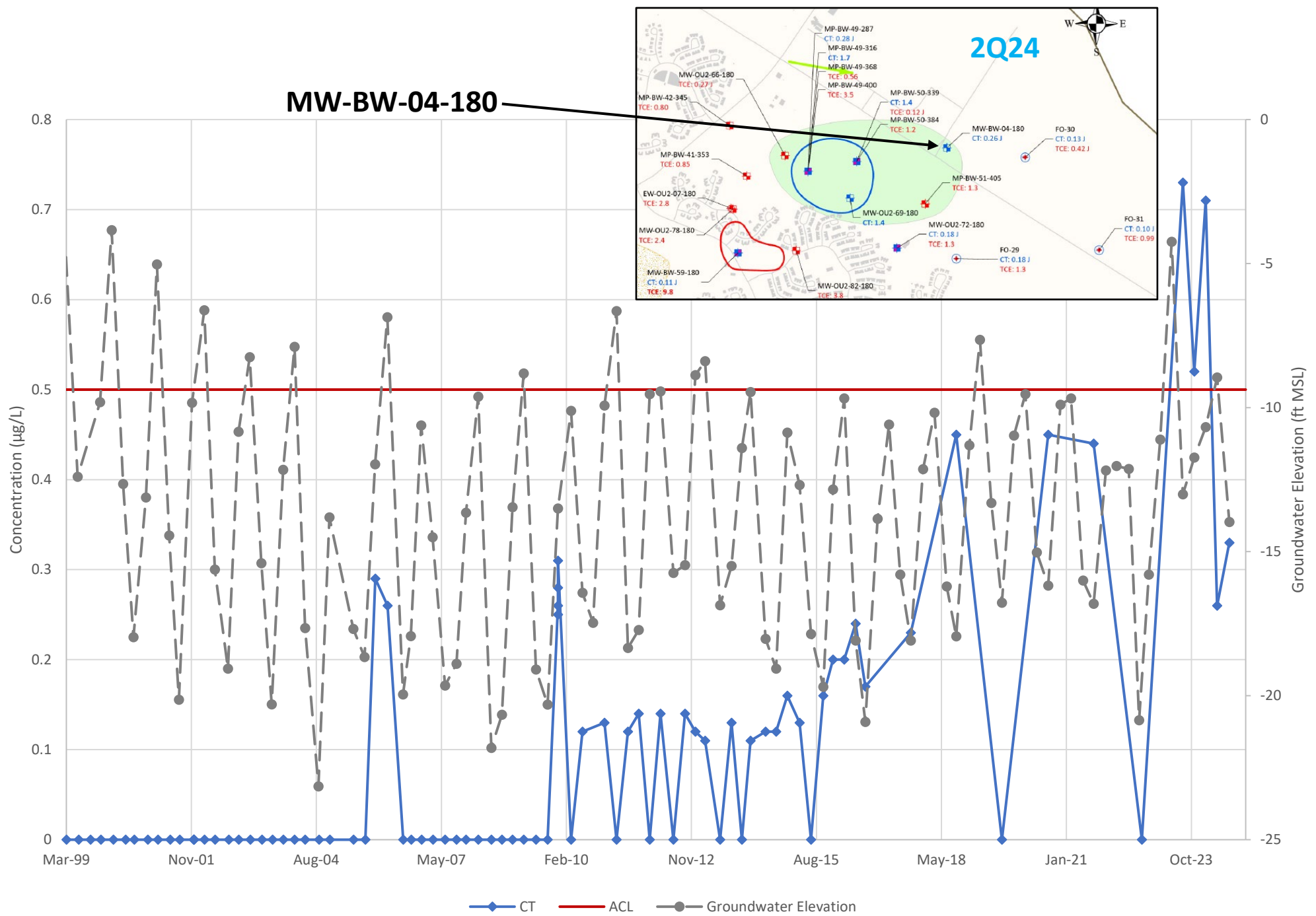
## Baseline Sampling Analytical Results for OU2 Target Analyte List (TAL) (µg/L)

Station	Depth (ft bgs)	Benzene	Carbon Tetrachloride	Chloroform
1	175	0.14 J	1.0	0.24 J
2	180	0.13 J	1.0	0.26 J
3	185	0.13 J	1.2	0.24 J
4	190	0.13 J	1.3	0.25 J
5	195	0.12 J	1.3	0.25 J
6	200	0.12 J	1.3	0.25 J
7	205	0.13 J	1.3	0.25 J
8	210	0.15 J	1.2	0.24 J
9	215	0.19 J	1.2	0.24 J





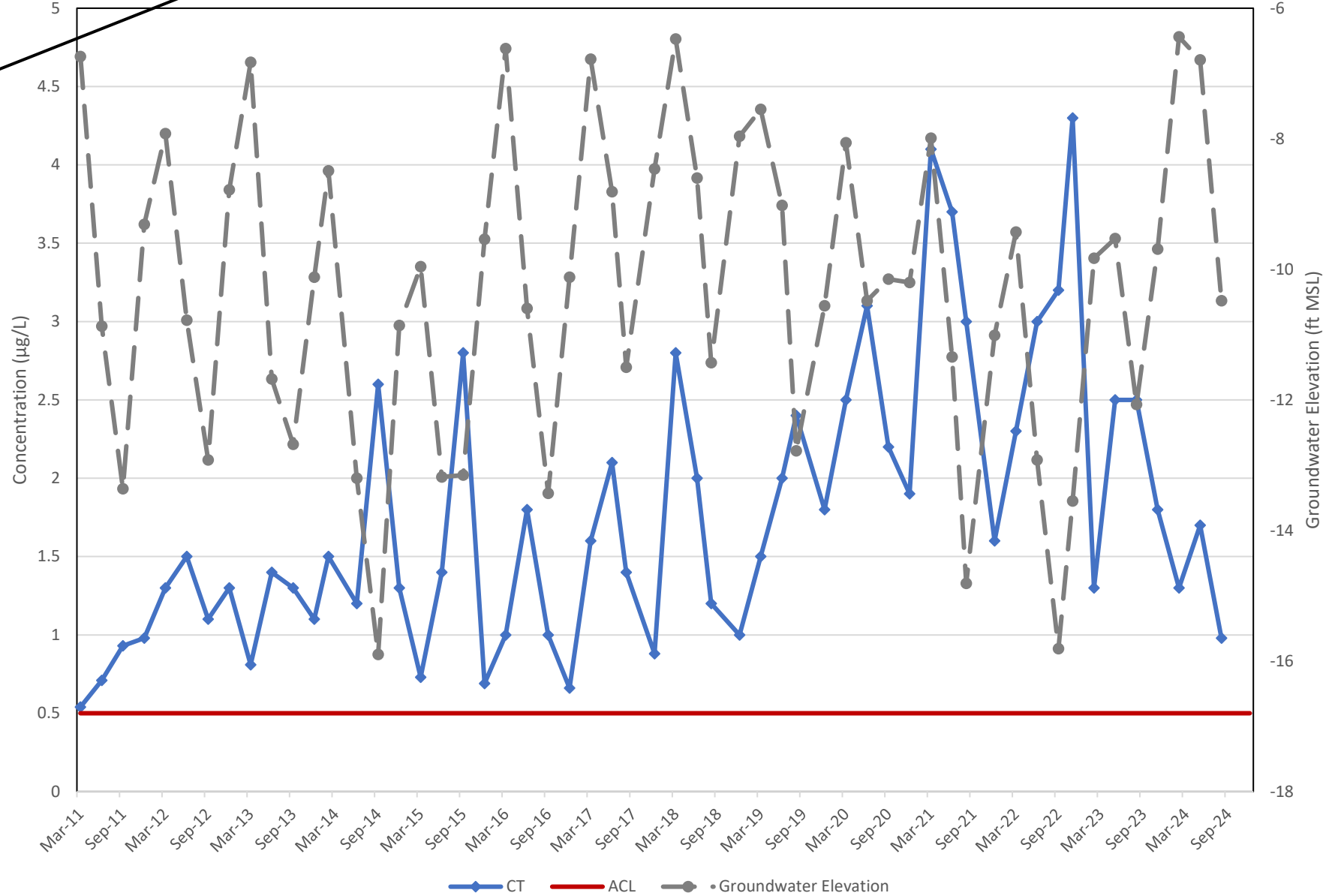
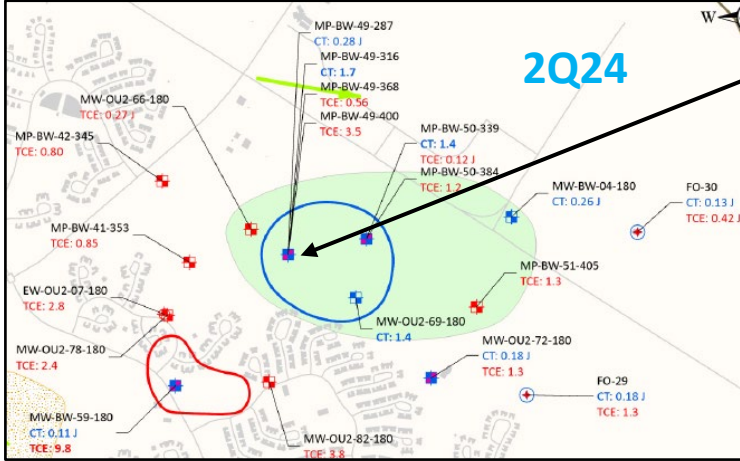
CT AND TCE CONCENTRATIONS  
LOWER 180-FOOT/400-FOOT AQUIFERS  
SECOND QUARTER 2024  
Operable Unit Carbon Tetrachloride Plume  
Second Quarter 2024 Groundwater Monitoring Report  
Former Fort Ord, California



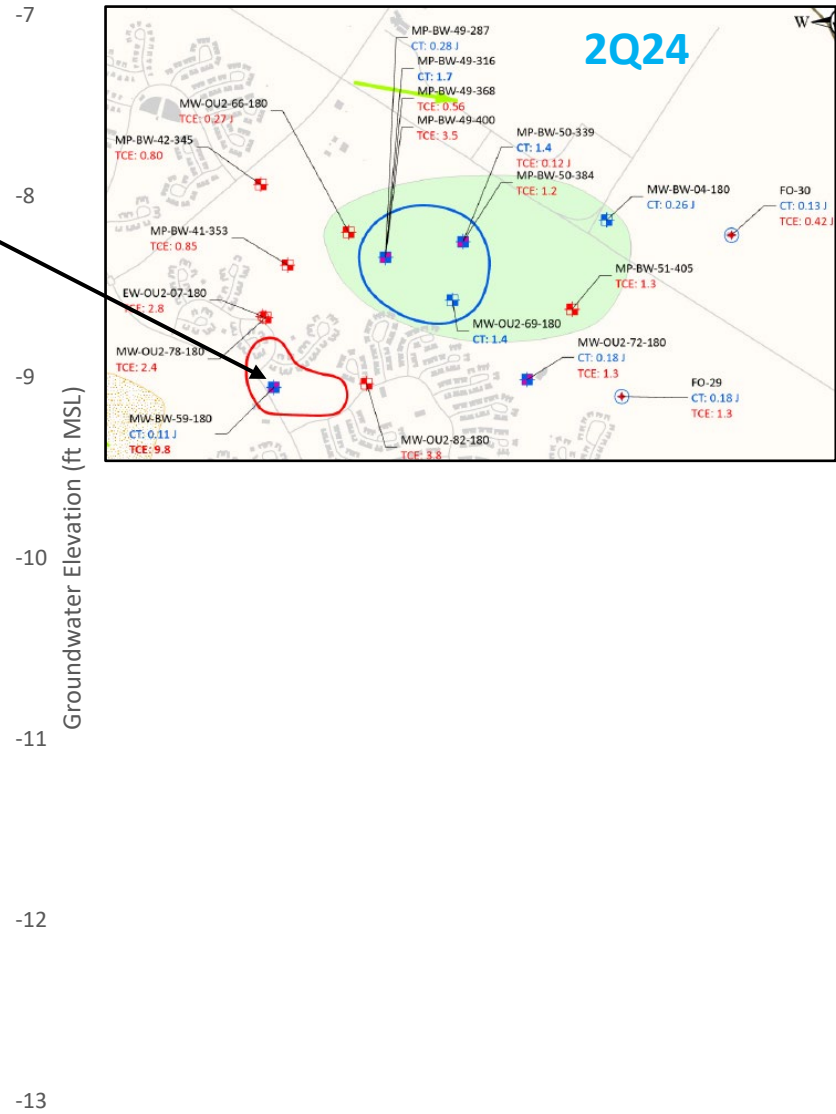
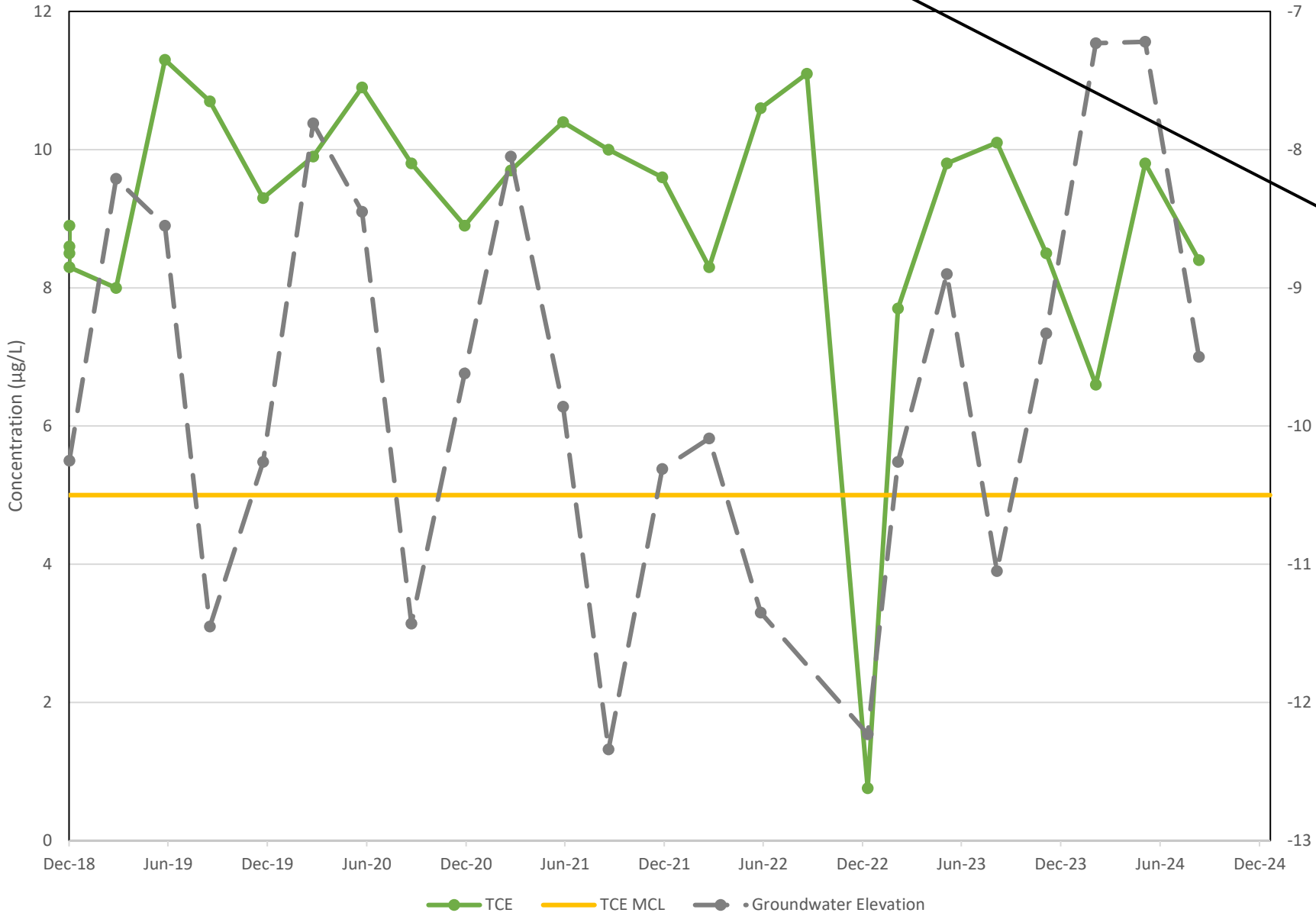


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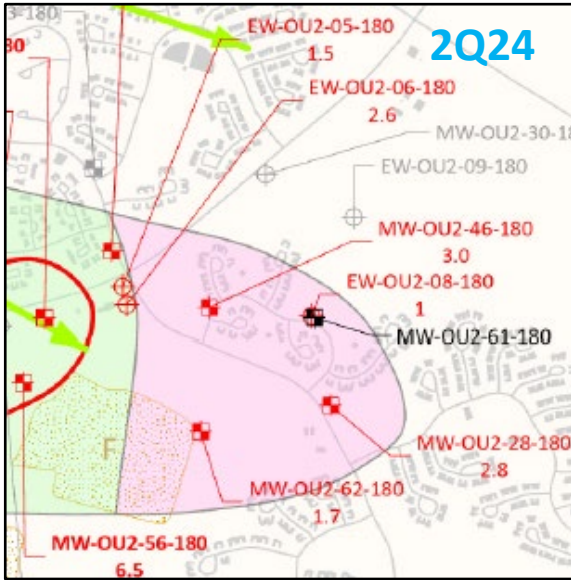
2Q24



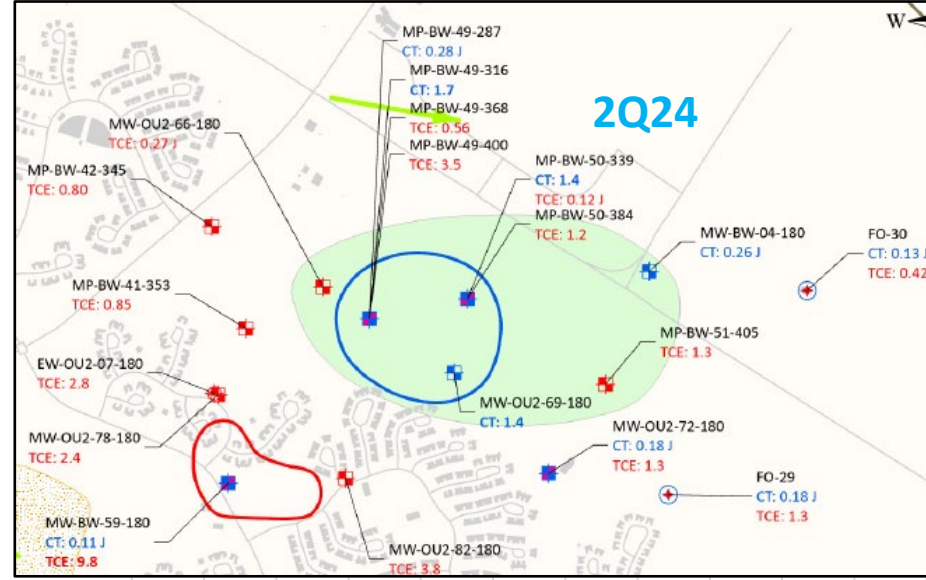
### MW-BW-59-180



### TCE in the Lower 180-Foot Aquifer



Upper 180-Foot Aquifer



Lower 180-Foot Aquifer

