Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status

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.

Recent Key Events

- May 12-16: Second Quarter 2025 GWMP Event.
- June 20: faulty leak detector, EW-OU2-13-180 offline.

Future Key Events

- Repair faulty leak detector and restart EW-OU2-13-180.
- Install three monitoring wells in the A-Aquifer Hydraulic Zone 5.

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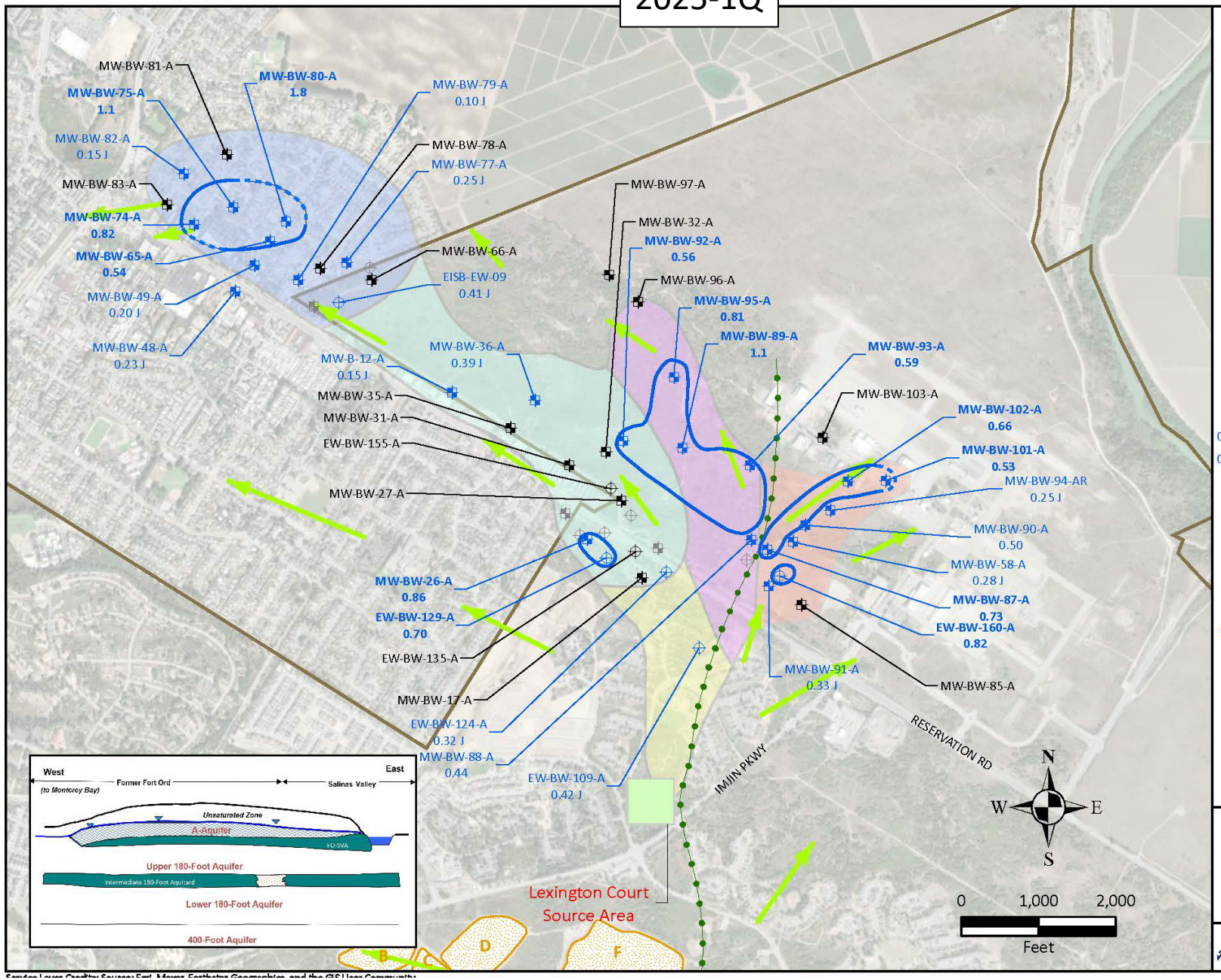
2025-1Q



EXPLANATION

- General groundwater flow direction
- Approximate location of the A-Aquifer groundwater divide
- Approximate extent of Operable Unit 2 Landfill areas
- Former Fort Ord boundary
- Lexington Court source area

Well_ID,CT

- Extraction well with carbon tetrachloride (CT) detected
- Extraction well non-detect (ND) for CT
- Extraction well not sampled in 1Q2025
- Monitoring well with CT detected
- Monitoring well ND for CT
- Monitoring well not sampled in 1Q2025

1Q2025 Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 CT plume extent
- 0.5 CT plume extent inferred

OUCTP A-Aquifer Hydraulic Zone

- 1
- 2
- 3
- 4
- 5

MW-BW-102-A 0.66 Well ID - Values that are bolded exceed the respective ACL. (*Indicates: Sample not used for contouring) CT concentrations (µg/L) and lab qualifier.

NOTES:

(1) Groundwater samples were collected between February 10, 2025 and February 12, 2025.
(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.

CT CONCENTRATIONS
A-AQUIFER
FIRST QUARTER 2025
Operable Unit Carbon Tetrachloride Plume
First Quarter 2025 Groundwater Monitoring Report
Former Fort Ord, California

Ahtna | Date: 5/6/2025 | Figure: 4

Table 1. Second Quarter 2025 OUCTP A-Aquifer CT

Well ID	Station	Sampled	CT	
EISB-EW-09	5	5/12/2025	0.41	J
EW-BW-109-A	6	5/13/2025	**0.59**	
EW-BW-124-A	5	5/13/2025	**0.52**	
EW-BW-129-A	3	5/14/2025	**1.1**	
EW-BW-135-A	6	5/14/2025	<0.25	U
EW-BW-155-A	4	5/12/2025	0.11	J
EW-BW-160-A	6	5/13/2025	**0.86**	
MW-B-12-A	4	5/12/2025	0.21	J
MW-BW-101-A	6	5/12/2025	0.50	
MW-BW-102-A	3	5/12/2025	**0.80**	
MW-BW-103-A*	6	6/18/2025	<0.25	U
MW-BW-17-A	6	5/13/2025	<0.25	U
MW-BW-26-A	5	5/14/2025	**1.1**	
MW-BW-27-A	4	5/13/2025	<0.25	U
MW-BW-31-A	6	5/12/2025	<0.25	U
MW-BW-32-A	5	5/12/2025	0.31	J

Well ID	Station	Sampled	CT	
MW-BW-35-A	5	5/12/2025	**0.51**	
MW-BW-36-A	5	5/12/2025	**0.55**	
MW-BW-48-A	5	5/14/2025	0.15	J
MW-BW-49-A	1	5/14/2025	0.24	J
MW-BW-49-A	5	5/14/2025	0.22	J
MW-BW-58-A	6	5/13/2025	0.21	J
MW-BW-65-A	1	5/14/2025	0.49	J
MW-BW-65-A	3	5/14/2025	<0.25	U
MW-BW-66-A	3	5/12/2025	0.17	J
MW-BW-74-A	1	5/14/2025	0.47	J
MW-BW-74-A	5	5/14/2025	**0.95**	
MW-BW-75-A	1	5/14/2025	0.25	J
MW-BW-75-A	5	5/14/2025	**1.6**	
MW-BW-77-A	2	5/14/2025	0.28	J
MW-BW-77-A	3	5/14/2025	0.27	J
MW-BW-78-A	2	5/14/2025	<0.25	U
MW-BW-78-A	6	5/14/2025	<0.25	U
MW-BW-79-A	2	5/14/2025	<0.25	U
MW-BW-79-A	5	5/14/2025	<0.25	U

Well ID	Station	Sampled	CT	
MW-BW-80-A	1	5/14/2025	**2.4**	
MW-BW-80-A	2	5/14/2025	0.27	J
MW-BW-81-A	5	5/14/2025	<0.25	U
MW-BW-82-A	1	5/14/2025	<0.25	U
MW-BW-82-A	8	5/14/2025	0.42	J
MW-BW-83-A	1	5/14/2025	<0.25	U
MW-BW-83-A	5	5/14/2025	<0.25	U
MW-BW-85-A	4	5/13/2025	<0.25	U
MW-BW-87-A	5	5/13/2025	0.46	J
MW-BW-88-A	6	5/13/2025	0.45	J
MW-BW-89-A	6	5/13/2025	**2.1**	
MW-BW-90-A	5	5/13/2025	0.46	J
MW-BW-91-A	6	5/13/2025	0.29	J
MW-BW-92-A	5	5/12/2025	**0.65**	
MW-BW-93-A*	3	6/18/2025	0.40	J
MW-BW-94-AR	6	5/13/2025	0.32	J
MW-BW-95-A	6	5/12/2025	**0.75**	
MW-BW-96-A	6	5/12/2025	<0.25	U
MW-BW-97-A	5	5/12/2025	<0.25	U

Notes:

- *Preliminary data
- Results in micrograms per liter by EPA Method 8260-SIM
- CT: carbon tetrachloride
- DUP: duplicate sample
- GWM: primary groundwater monitoring sample
- J: estimated detection below the limit of quantitation and above the limit of detection
- ND: not detected above the limit of detection shown in the parenthesis
- Qual: qualifier

Increase in concentration compared to previous quarter

Vinyl chloride not detected in the 2025-2Q in OUCTP A-Aquifer

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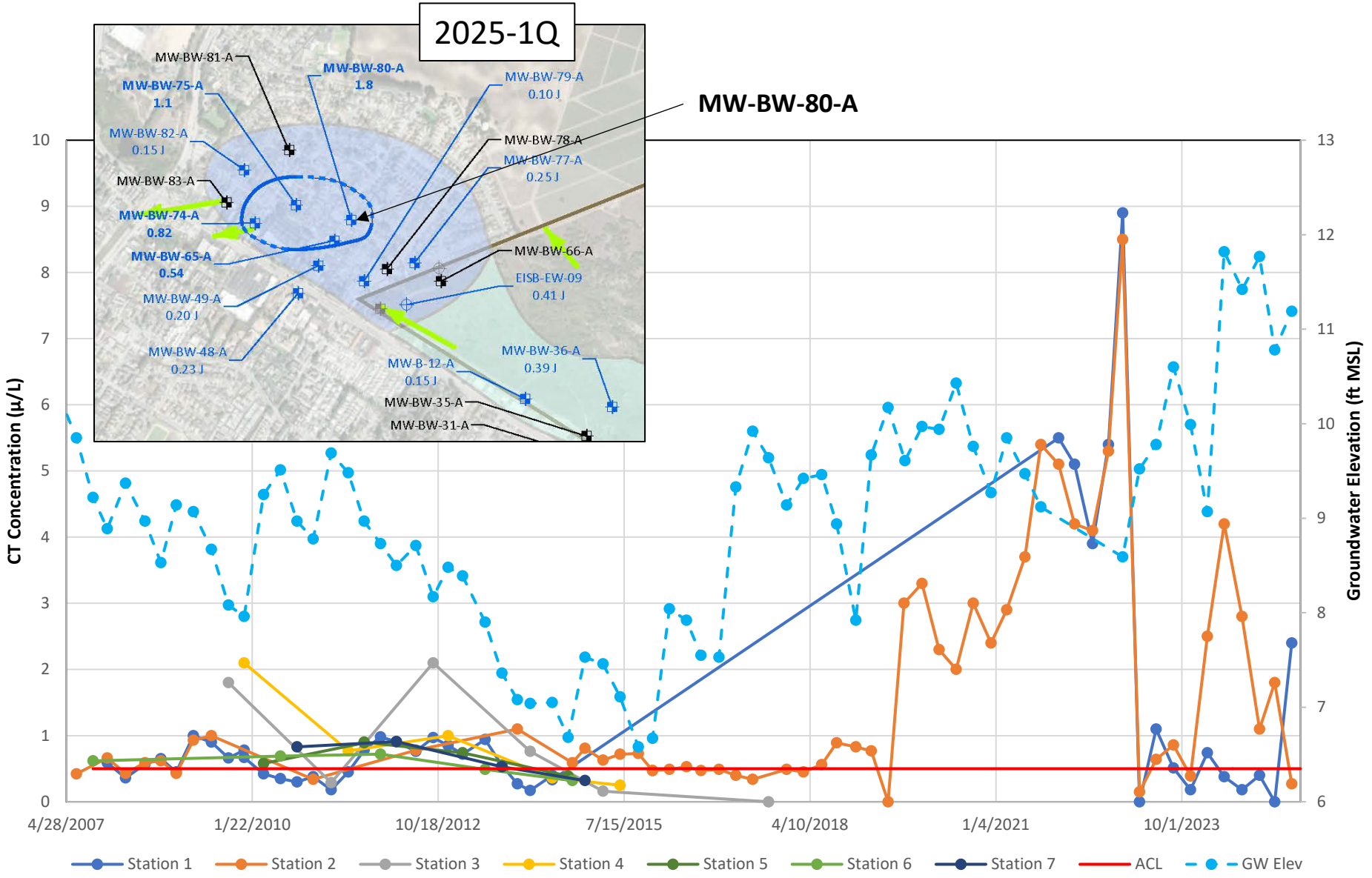
2025-1Q
MW-BW-80-A
MW-BW-81-A
MW-BW-80-A
1.8
MW-BW-75-A
1.1
MW-BW-79-A
0.10 J
MW-BW-82-A
0.15 J
MW-BW-78-A
MW-BW-77-A
0.25 J
MW-BW-83-A
MW-BW-74-A
0.82
MW-BW-66-A
MW-BW-65-A
0.54
EISB-EW-09
0.41 J
MW-BW-49-A
0.20 J
MW-BW-48-A
0.23 J
MW-B-12-A
0.15 J
MW-BW-36-A
0.39 J
MW-BW-35-A
MW-BW-31-A
CT Concentration (µ/L)
Groundwater Elevation (ft MSL)
0
1
2
3
4
5
6
7
8
9
10
6
7
8
9
10
11
12
13
4/28/2007
1/22/2010
10/18/2012
7/15/2015
4/10/2018
1/4/2021
10/1/2023
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
ACL
GW Elev

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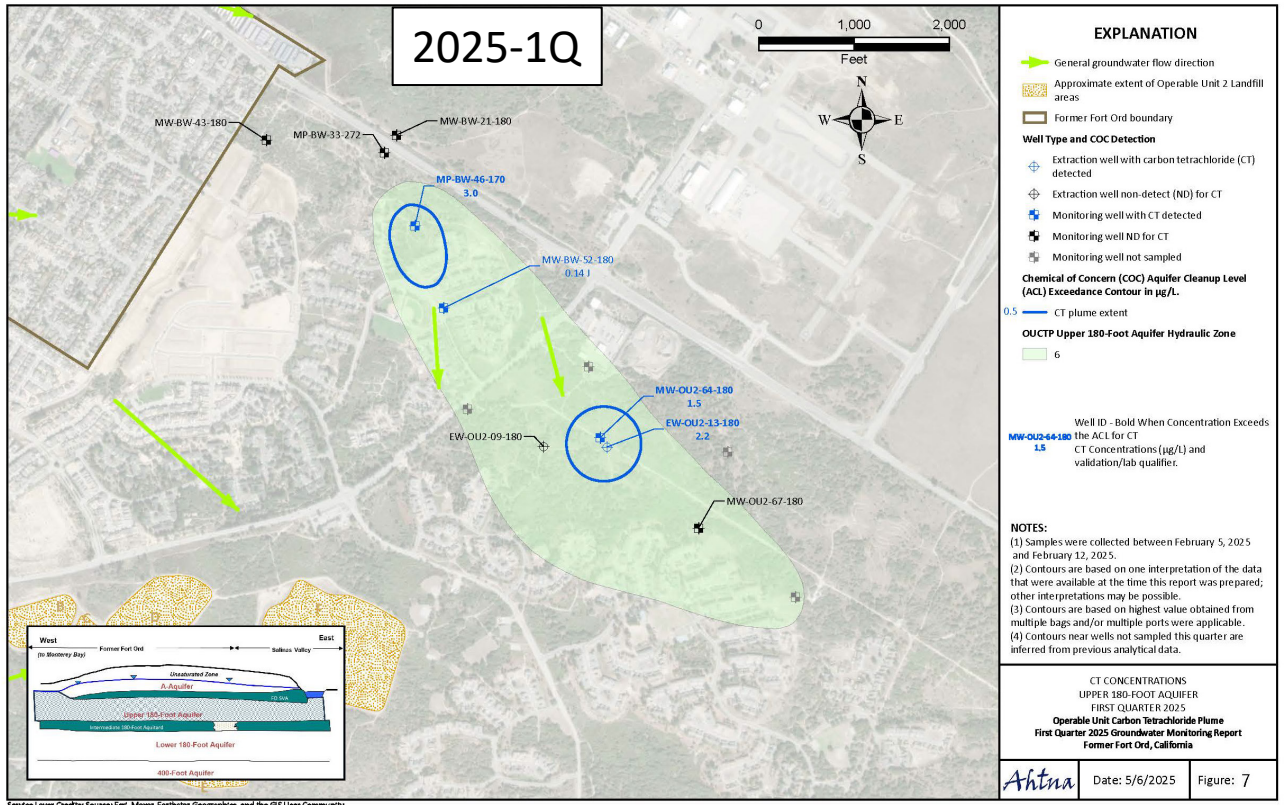
Table 2. Second Quarter 2025 OUCTP Upper 180-Foot Aquifer CT

Well ID	Station	Sampled	CT	
EW-OU2-09-180	3	5/14/2025	<0.25	U
EW-OU2-13-180	-	5/20/2025	**2.2**	
MP-BW-33-272	-	5/13/2025	<0.25	U
MP-BW-46-170	-	5/13/2025	**3.5**	
MW-BW-21-180	5	5/12/2025	<0.25	U
MW-BW-43-180	3	5/16/2025	<0.25	U
MW-BW-52-180	3	5/13/2025	<0.25	U
MW-OU2-64-180	4	5/16/2025	**1.4**	
MW-OU2-67-180	3	5/16/2025	<0.25	U

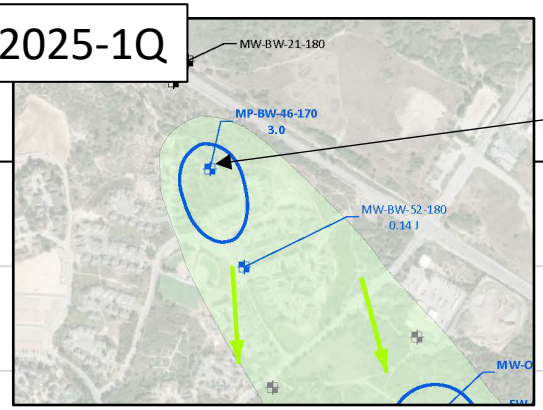
Notes:

- *Preliminary data
- Results in micrograms per liter by EPA Method 8260-SIM
- CT: carbon tetrachloride
- DUP: duplicate sample
- EW: extraction well sample
- GWM: primary groundwater monitoring sample
- J: estimated detection below the limit of quantitation and above the limit of detection
- ND: not detected above the limit of detection shown in the parenthesis
- Qual: qualifier
- UJ: The analyte was not detected and was reported as less than the LOD. However, the associated numerical value is approximate.

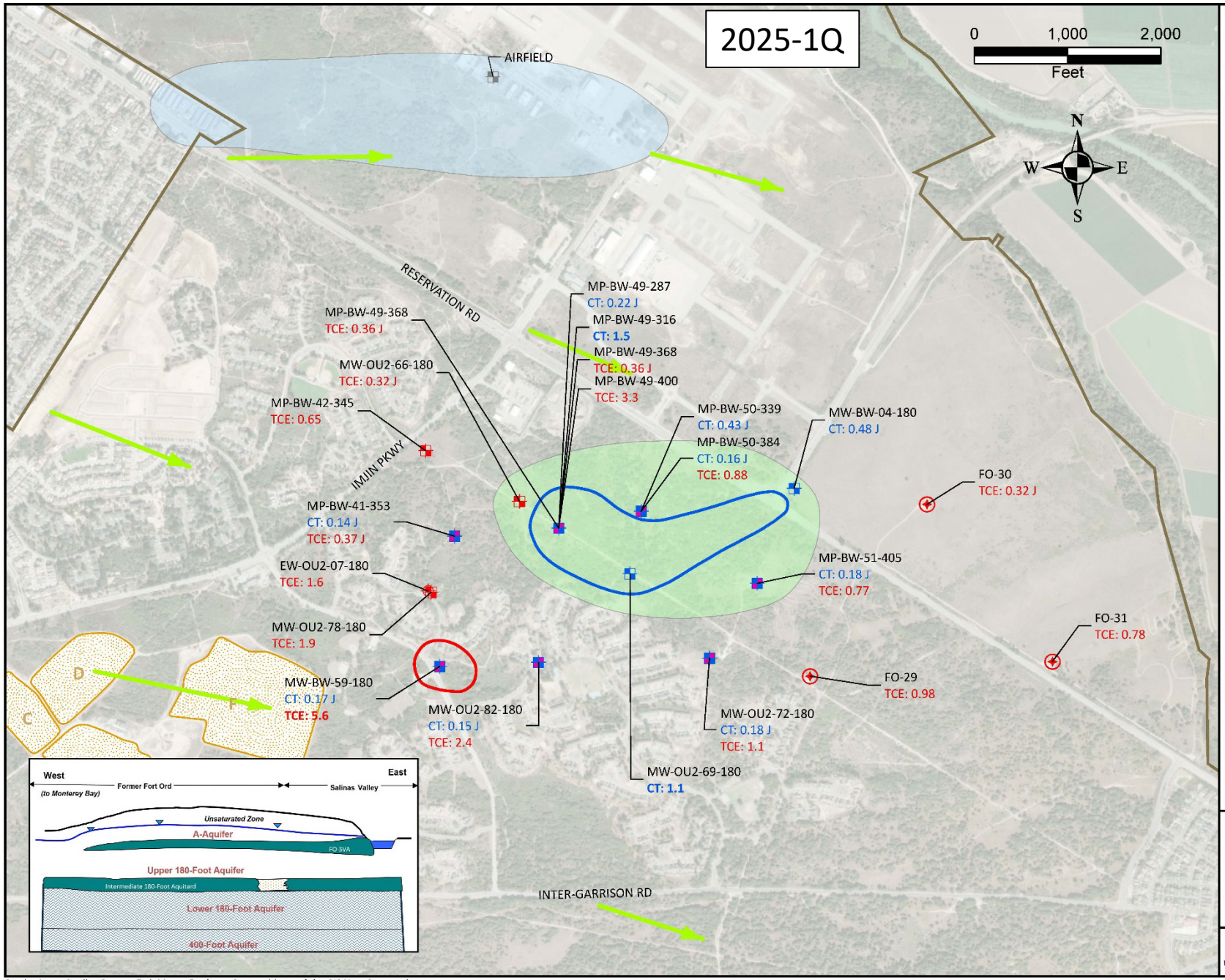


Increase in concentration compared to previous quarter

2025-1Q



MP-BW-46-170



EXPLANATION

- General groundwater flow direction
- Approximate extent of Operable Unit 2 Landfill areas
- Former Fort Ord boundary

Monitoring well with CT detection

- Marina Coast Water District supply well with trichloroethene (TCE) detected
- Extraction well with TCE detected
- Monitoring well with carbon tetrachloride (CT) and TCE detected
- Monitoring well with CT detected
- Monitoring well with TCE detected
- Monitoring well not sampled

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

- 0.5 — CT plume extent
- 5.0 — TCE plume extent

OUCTP Lower 180-Foot Aquifer Hydraulic Zone

- 7
- 8

FO-30
TCE: 0.32 J
Well ID - Bold When Concentration Exceeds the ACL (blue indicates CT; red indicates TCE) Concentrations in µg/L and validation/lab qualifier.

NOTES:
(1) Groundwater samples were collected between February 11, 2025 and February 12 12, 2025.
(2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
(3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.
(4)TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

CT AND TCE CONCENTRATIONS
LOWER 180-FOOT/400-FOOT AQUIFERS
FIRST QUARTER 2025
Operable Unit Carbon Tetrachloride Plume
First Quarter 2025 Groundwater Monitoring Report
Former Fort Ord, California

Ahtna | Date: 5/2/2025 | Figure: 9

Table 3. Second Quarter 2025 OUCTP Lower 180-Foot Aquifer

Well ID	Station	Sampled	CT		1,2-DCA		TCE	
EW-OU2-07-180*	2	6/4/2025	<0.25	U	<0.25	U	2.3	
FO-29	-	5/14/2025	0.27	J	<0.25	U	1.3	
FO-30	-	5/14/2025	0.17	J	<0.25	U	0.45	J
FO-31	-	5/14/2025	0.11	J	<0.25	U	1.1	
MP-BW-41-353	-	5/14/2025	<0.25	UJ	<0.25	U	0.58	
MP-BW-42-345	-	5/14/2025	<0.25	UJ	<0.25	U	0.57	
MP-BW-49-287	-	5/14/2025	0.28	J	<0.25	U	<0.25	U
MP-BW-49-316	-	5/14/2025	**1.8**		<0.25	U	<0.25	U
MP-BW-49-368	-	5/14/2025	<0.25	UJ	<0.25	U	0.42	J
MP-BW-49-400	-	5/14/2025	<0.25	UJ	<0.25	U	3.2	
MP-BW-50-339	-	5/14/2025	**1.0**	**J-**	<0.25	U	<0.25	U
MP-BW-50-384	-	5/14/2025	<0.25	UJ	<0.25	U	0.75	
MP-BW-51-405	-	5/14/2025	0.27	J	<0.25	U	1.0	
MW-BW-04-180	1	5/13/2025	0.23	J	<0.25	U	0.12	J
MW-BW-59-180	2	5/13/2025	<0.25	U	<0.25	U	**9.1**	
MW-OU2-66-180	2	5/14/2025	<0.25	U	<0.25	U	0.28	J
MW-OU2-69-180	4	5/14/2025	**1.0**		<0.25	U	<0.25	U
MW-OU2-72-180	2	5/14/2025	0.25	J	<0.25	U	0.89	
MW-OU2-78-180	5	5/13/2025	<0.25	U	<0.25	U	2.3	
MW-OU2-82-180	3	5/13/2025	<0.25	U	<0.25	U	2.2	

Notes:

- *Preliminary data
- Results in micrograms per liter by EPA Method 8260-SIM
- 1,2DCA: 1,2-dichloroethane
- CT: carbon tetrachloride
- DUP: duplicate sample
- GWM: primary groundwater monitoring sample
- J: estimated detection below the limit of quantitation and above the limit of detection
- ND: not detected above the limit of detection shown in the parenthesis
- Qual: qualifier
- TCE: trichloroethene

Increase in concentration at or upgradient of supply well compared to previous quarter

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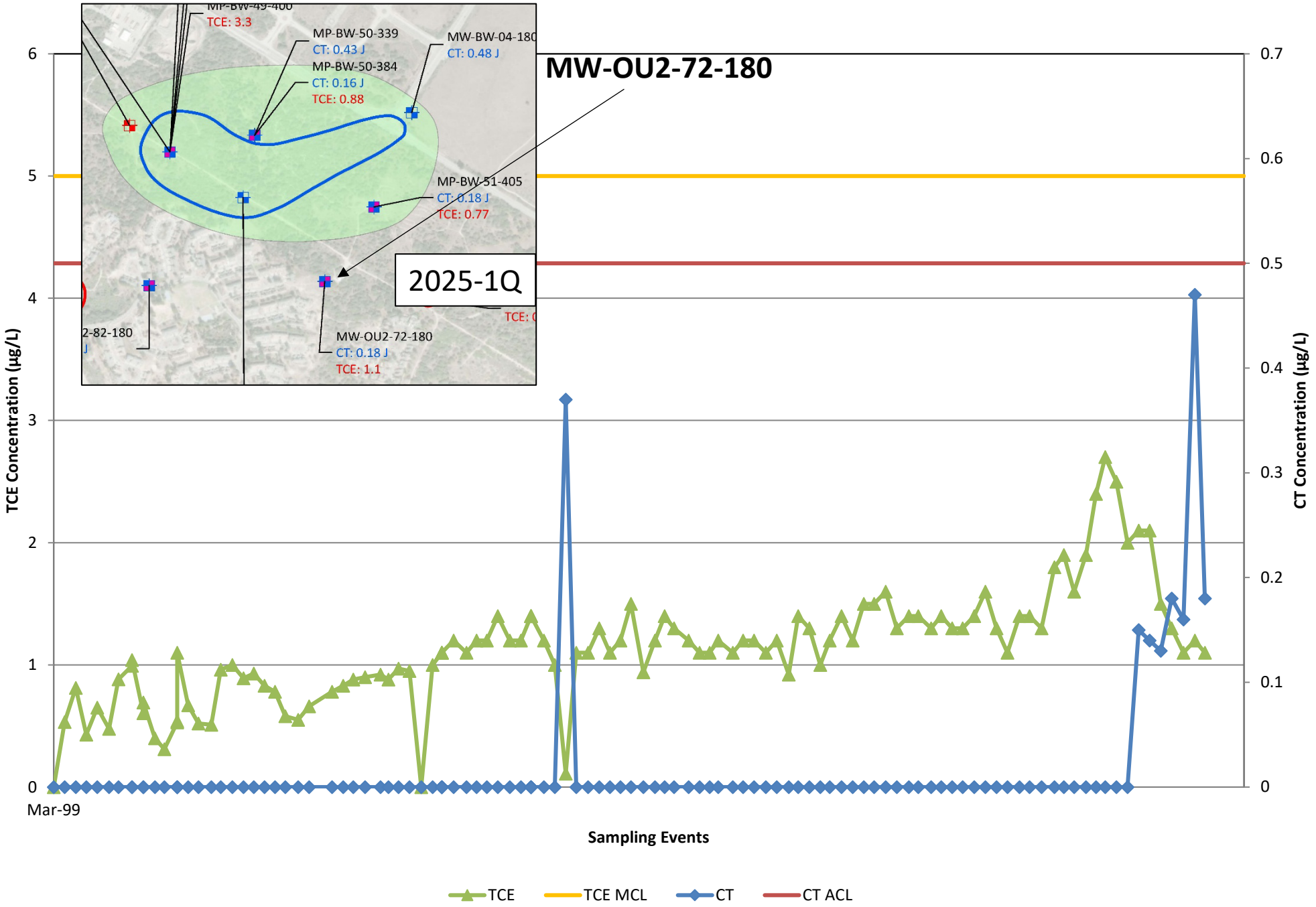
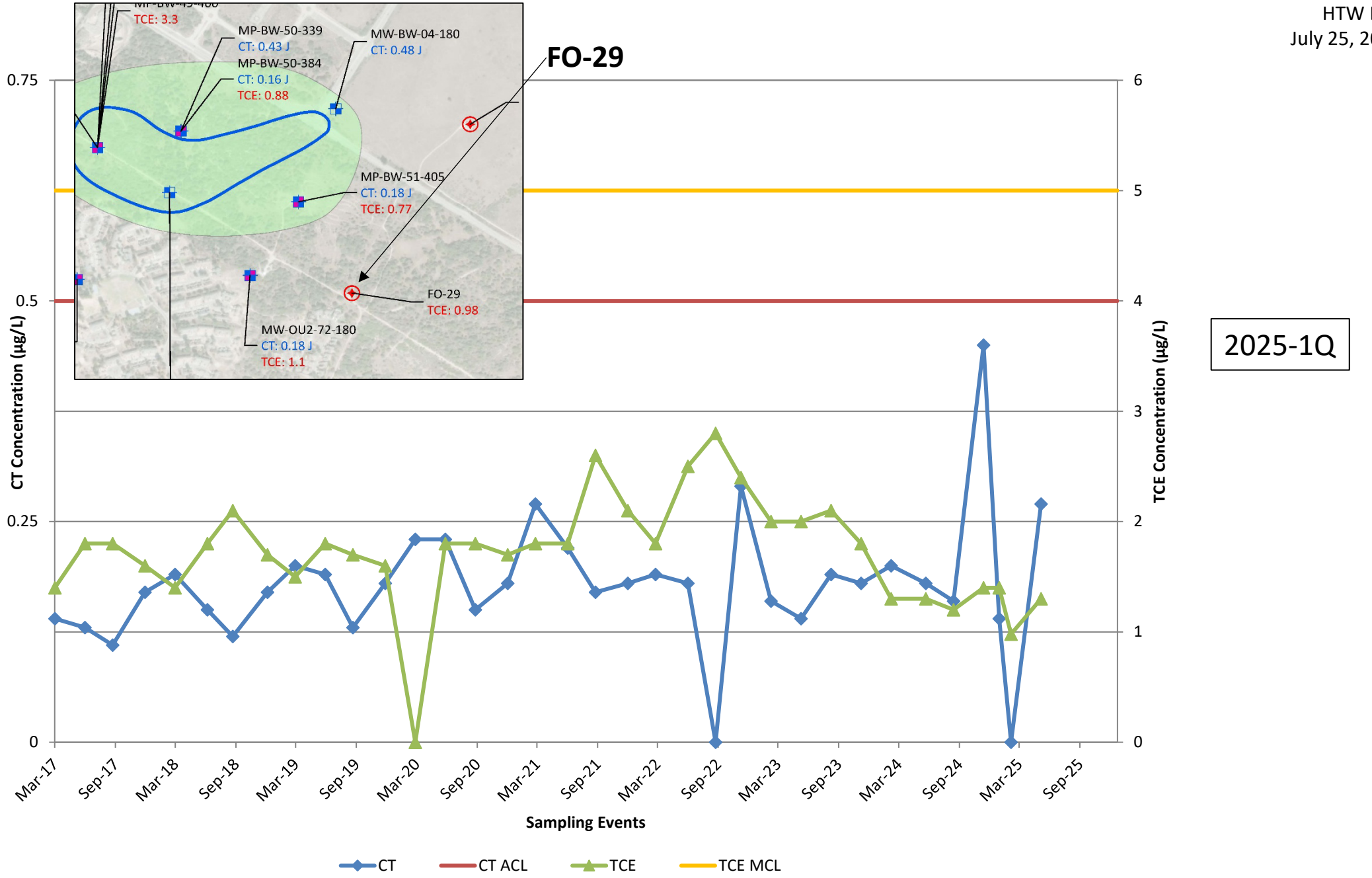
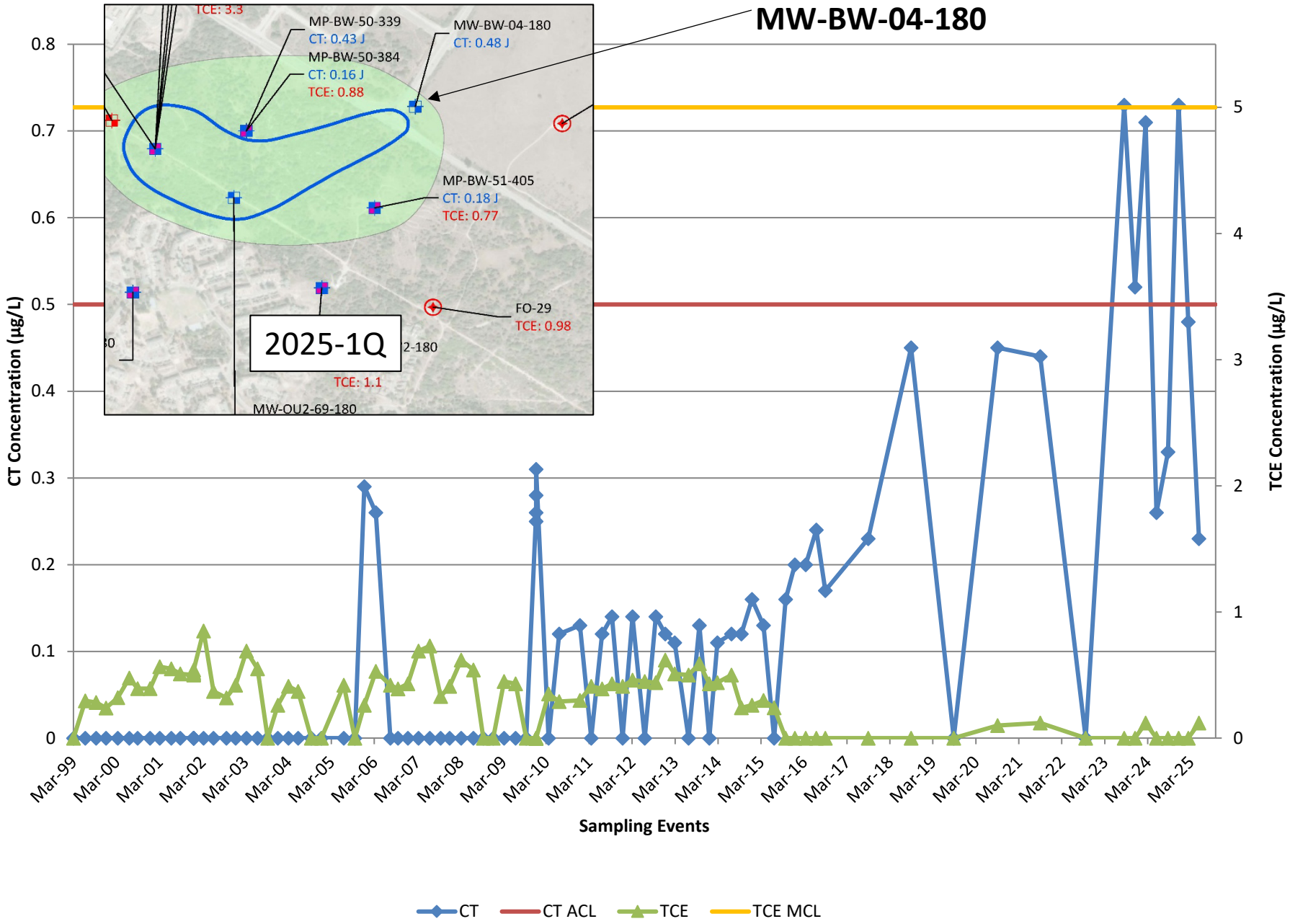
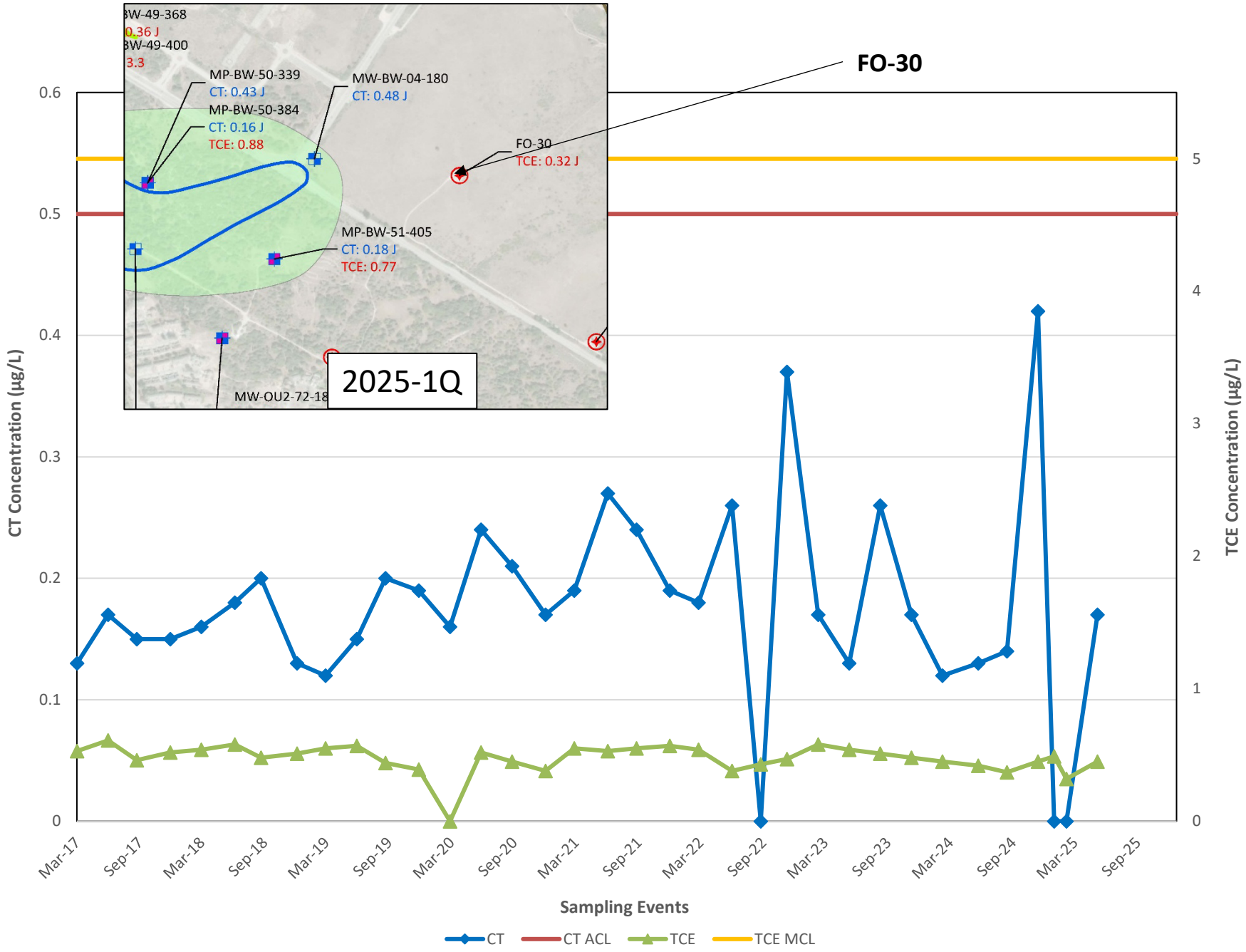
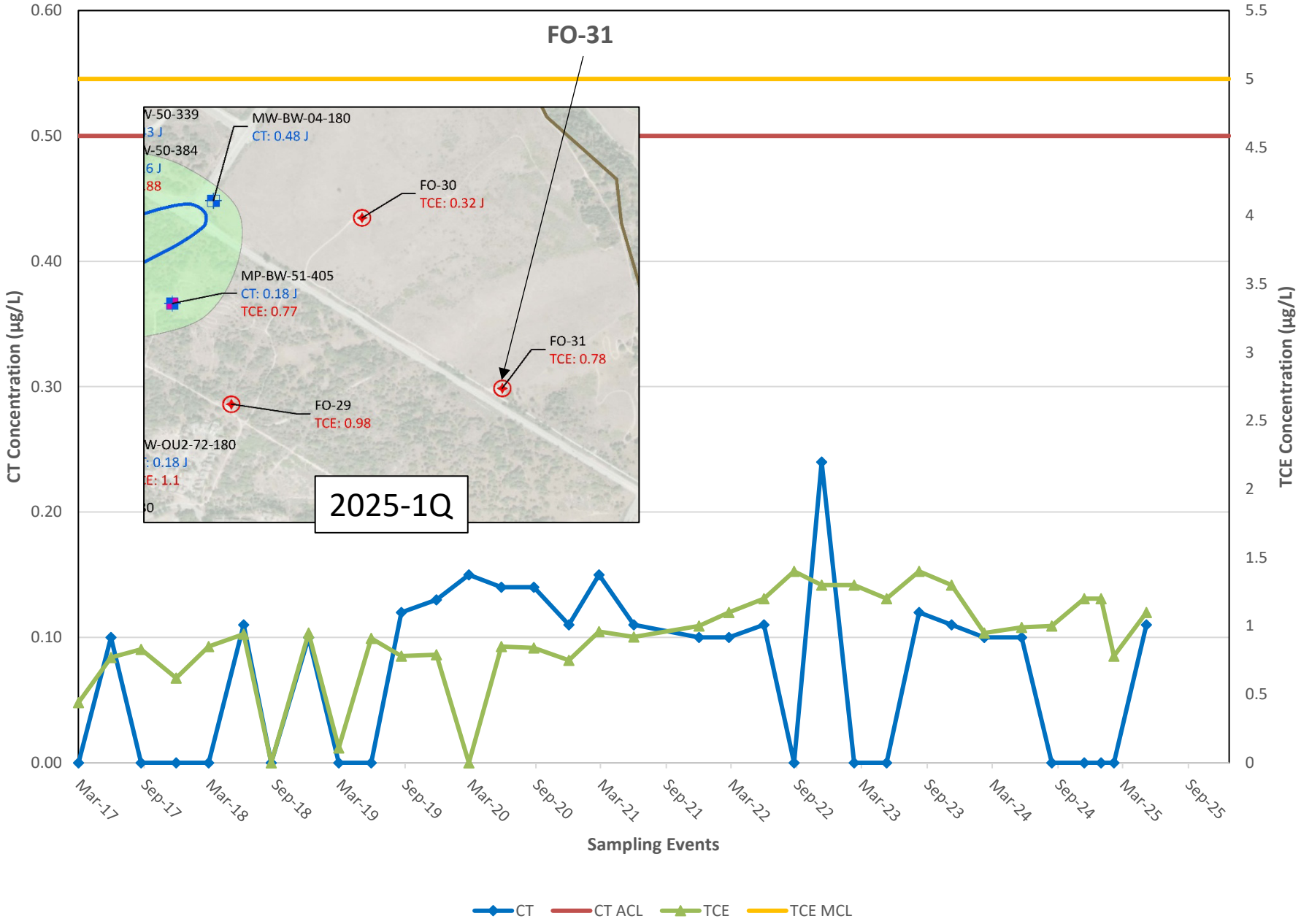

MW-OU2-72-180
2025-1Q
MP-BW-49-400
TCE: 3.3
MP-BW-50-339
CT: 0.43 J
MW-BW-04-180
CT: 0.48 J
MP-BW-50-384
CT: 0.16 J
TCE: 0.88
MP-BW-51-405
CT: 0.18 J
TCE: 0.77
2-82-180
J
MW-OU2-72-180
CT: 0.18 J
TCE: 1.1
TCE Concentration (µg/L)
CT Concentration (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Mar-99
Sampling Events
TCE
TCE MCL
CT
CT ACL


FO-29
TCE: 3.3
MP-BW-50-339
CT: 0.43 J
MP-BW-50-384
CT: 0.16 J
TCE: 0.88
MW-BW-04-180
CT: 0.48 J
MP-BW-51-405
CT: 0.18 J
TCE: 0.77
FO-29
TCE: 0.98
MW-OU2-72-180
CT: 0.18 J
TCE: 1.1
CT Concentration (µg/L)
TCE Concentration (µg/L)
0.75
0.5
0.25
0
6
5
4
3
2
1
0
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Mar-23
Sep-23
Mar-24
Sep-24
Mar-25
Sep-25
Sampling Events
CT
CT ACL
TCE
TCE MCL

2025-1Q


MW-BW-04-180
TCE: 3.3
MP-BW-50-339
CT: 0.43 J
MW-BW-04-180
CT: 0.48 J
MP-BW-50-384
CT: 0.16 J
TCE: 0.88
MP-BW-51-405
CT: 0.18 J
TCE: 0.77
FO-29
TCE: 0.98
2025-1Q
TCE: 1.1
MW-OU2-69-180
CT Concentration (µg/L)
TCE Concentration (µg/L)
Sampling Events
CT
CT ACL
TCE
TCE MCL


FO-30
MW-49-368
0.36 J
MW-49-400
3.3
MP-BW-50-339
CT: 0.43 J
MW-BW-04-180
CT: 0.48 J
MP-BW-50-384
CT: 0.16 J
TCE: 0.88
FO-30
TCE: 0.32 J
MP-BW-51-405
CT: 0.18 J
TCE: 0.77
MW-OU2-72-18
2025-1Q
CT Concentration (µg/L)
TCE Concentration (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
5
4
3
2
1
0
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Mar-23
Sep-23
Mar-24
Sep-24
Mar-25
Sep-25
Sampling Events
CT
CT ACL
TCE
TCE MCL


FO-31
MW-BW-04-180
CT: 0.48 J
FO-30
TCE: 0.32 J
MP-BW-51-405
CT: 0.18 J
TCE: 0.77
FO-31
TCE: 0.78
FO-29
TCE: 0.98
2025-1Q
CT Concentration (µg/L)
TCE Concentration (µg/L)
Sampling Events
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Mar-23
Sep-23
Mar-24
Sep-24
Mar-25
Sep-25
CT
CT ACL
TCE
TCE MCL

TCE in the Lower 180-Foot Aquifer