

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

- Dec 11: EW-OU2-13-180 baseline sampling.
- Jan 7: Resample supply wells for Fourth Quarter 2024 due to increased CT.
- Jan 16: Meeting with MCWD about supply well CT increase.
- Jan 20: Completed EW-OU2-13-180 hydrogeologic testing.
- Jan 21: Started long-term O&M at EW-OU2-13-180. Operating approximately 65-70 gpm.

Future Key Events

- Feb 10: First Quarter 2025 GWMP event. Expedited turnaround on supply well samples.
- Feb: Redevelop two monitoring wells (EW-BW-144-A and MW-BW-103-A)
- Install three monitoring wells in the A-Aquifer Hydraulic Zone 5.

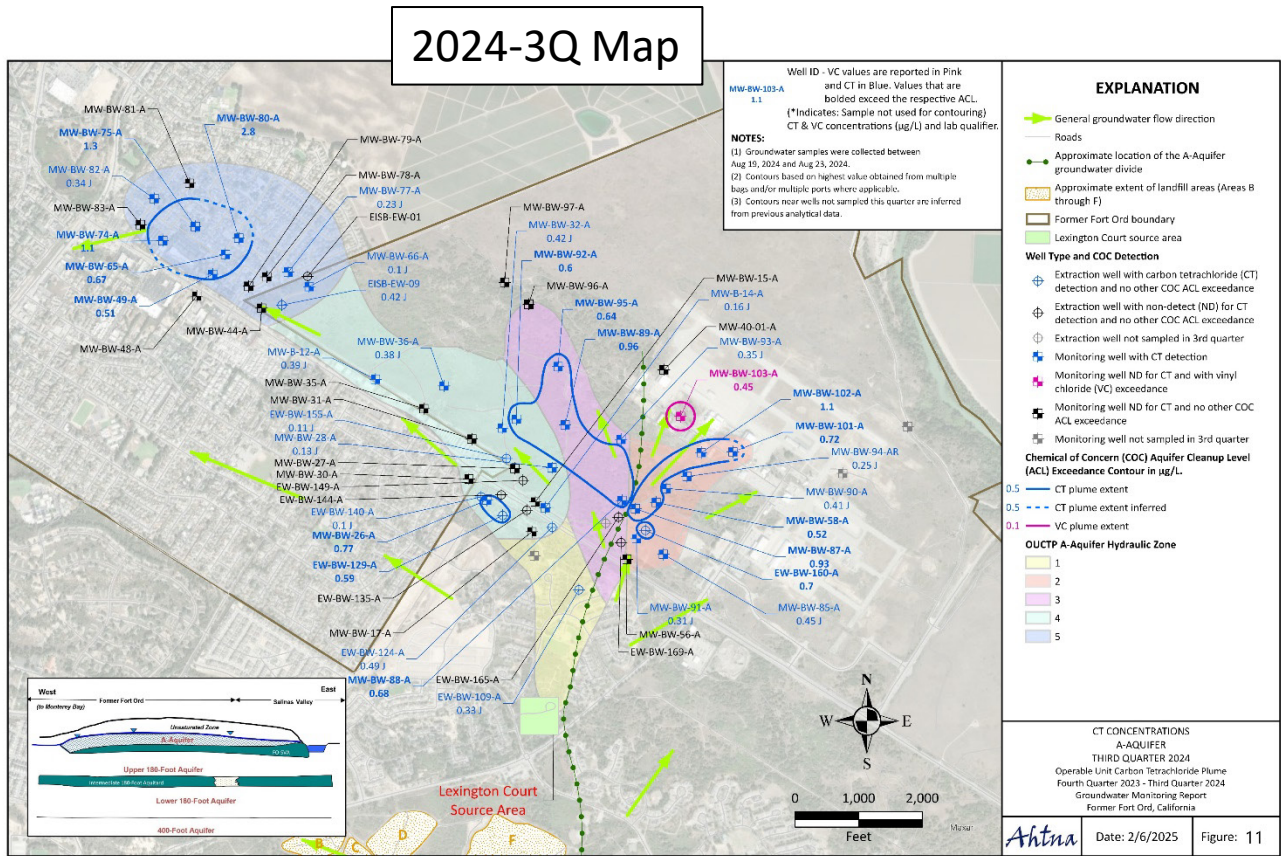


Table 1. Fourth Quarter 2024 OUCTP A-Aquifer CT					
Well ID	Station	Type	Sampled	CT	Qual
EISB-EW-09	5	GWM	11/18/2024	0.41	J
	5	DUP	11/18/2024	0.40	J
EW-BW-109-A	6	GWM	11/21/2024	0.41	J
EW-BW-124-A	5	GWM	11/21/2024	0.46	J
EW-BW-129-A	3	GWM	11/21/2024	0.72	
EW-BW-135-A	6	GWM	11/21/2024	ND (0.25)	
	6	DUP	11/21/2024	ND (0.25)	
EW-BW-155-A	4	GWM	11/19/2024	ND (0.25)	
EW-BW-160-A	6	GWM	11/19/2024	1.2	
MW-B-12-A	4	GWM	11/18/2024	0.26	J
MW-BW-101-A	6	GWM	11/20/2024	0.91	
MW-BW-102-A	3	GWM	11/20/2024	1.2	
MW-BW-103-A	6	GWM	11/20/2024	ND (0.25)	
MW-BW-17-A	6	GWM	11/21/2024	ND (0.25)	
MW-BW-26-A	3	GWM	11/21/2024	0.85	
MW-BW-27-A	4	GWM	11/19/2024	ND (0.25)	
	4	DUP	11/19/2024	ND (0.25)	
MW-BW-31-A	6	GWM	11/18/2024	ND (0.25)	
MW-BW-32-A	5	GWM	11/19/2024	0.63	

- 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

Vinyl chloride not detected in the 2024-4Q in OUCTP A-Aquifer

Table 1. Fourth Quarter 2024 OUCTP A-Aquifer CT

Well ID	Station	Type	Sampled	CT	Qual
MW-BW-35-A	5	GWM	11/18/2024	ND (0.25)	
MW-BW-36-A	5	GWM	11/19/2024	0.63	
MW-BW-48-A	3	GWM	11/22/2024	0.53	
MW-BW-49-A	1	GWM	11/22/2024	0.18	J
	5	GWM	11/22/2024	0.24	J
MW-BW-58-A	6	GWM	11/18/2024	0.40	J
MW-BW-65-A	1	GWM	11/22/2024	0.43	J
	5	GWM	11/22/2024	0.65	
MW-BW-66-A	3	GWM	11/18/2024	ND (0.25)	
MW-BW-74-A	1	GWM	11/20/2024	ND (0.25)	
MW-BW-74-A	5	GWM	11/20/2024	1.1	
MW-BW-75-A	1	GWM	11/20/2024	ND (0.25)	
	5	GWM	11/20/2024	1.7	
MW-BW-77-A	2	GWM	11/22/2024	0.22	J
	3	GWM	11/22/2024	0.23	J
MW-BW-78-A	2	GWM	11/22/2024	ND (0.25)	
	6	GWM	11/22/2024	ND (0.25)	
MW-BW-79-A	2	GWM	11/22/2024	ND (0.25)	
	5	GWM	11/22/2024	ND (0.25)	

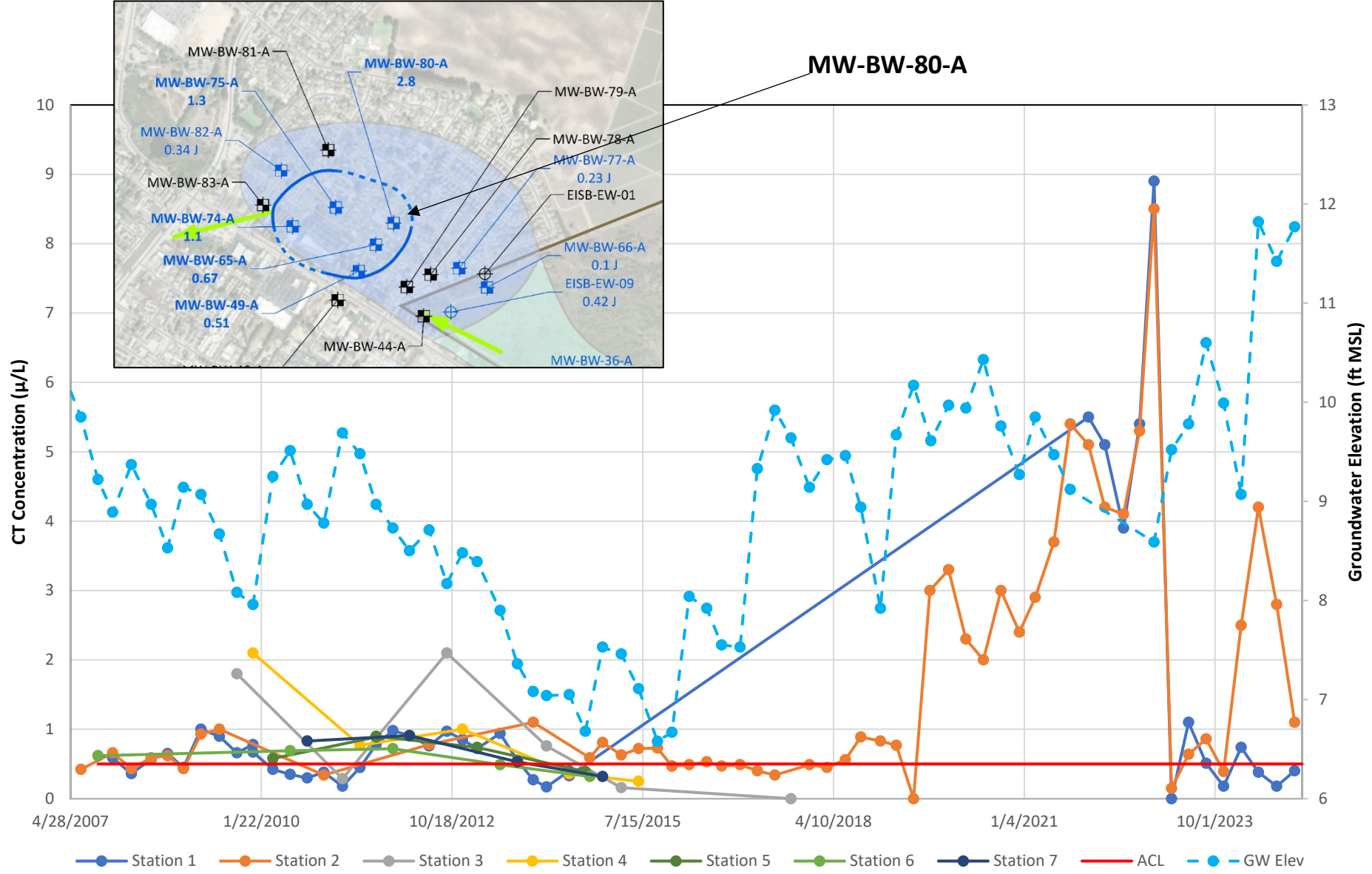
Notes:

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 Increase in concentration

Well ID	Station	Type	Sampled	CT	Qual
MW-BW-80-A	1	GWM	11/22/2024	0.40	J
	2	GWM	11/22/2024	1.1	
MW-BW-81-A	5	GWM	11/20/2024	ND (0.25)	
MW-BW-82-A	1	GWM	11/20/2024	ND (0.25)	
	6	GWM	11/20/2024	0.46	J
	6	DUP	11/20/2024	0.46	J
MW-BW-83-A	1	GWM	11/20/2024	ND (0.25)	
	6	GWM	11/20/2024	ND (0.25)	
MW-BW-85-A	6	GWM	11/19/2024	0.55	
MW-BW-87-A	5	GWM	11/18/2024	0.59	
MW-BW-88-A	6	GWM	11/20/2024	0.85	
MW-BW-89-A	6	GWM	11/18/2024	1.5	
	5	GWM	11/18/2024	0.56	
MW-BW-90-A	5	DUP	11/18/2024	0.55	
	5	DUP	11/18/2024	0.55	
MW-BW-91-A	6	GWM	11/19/2024	0.59	
MW-BW-92-A	6	GWM	11/19/2024	0.89	
MW-BW-93-A	3	GWM	11/18/2024	0.38	J
MW-BW-94-AR	4	GWM	11/18/2024	0.27	J
MW-BW-95-A	6	GWM	11/18/2024	0.78	
MW-BW-96-A	6	GWM	11/18/2024	ND (0.25)	
MW-BW-97-A	5	GWM	11/18/2024	ND (0.25)	

Ahtna



Ahtna

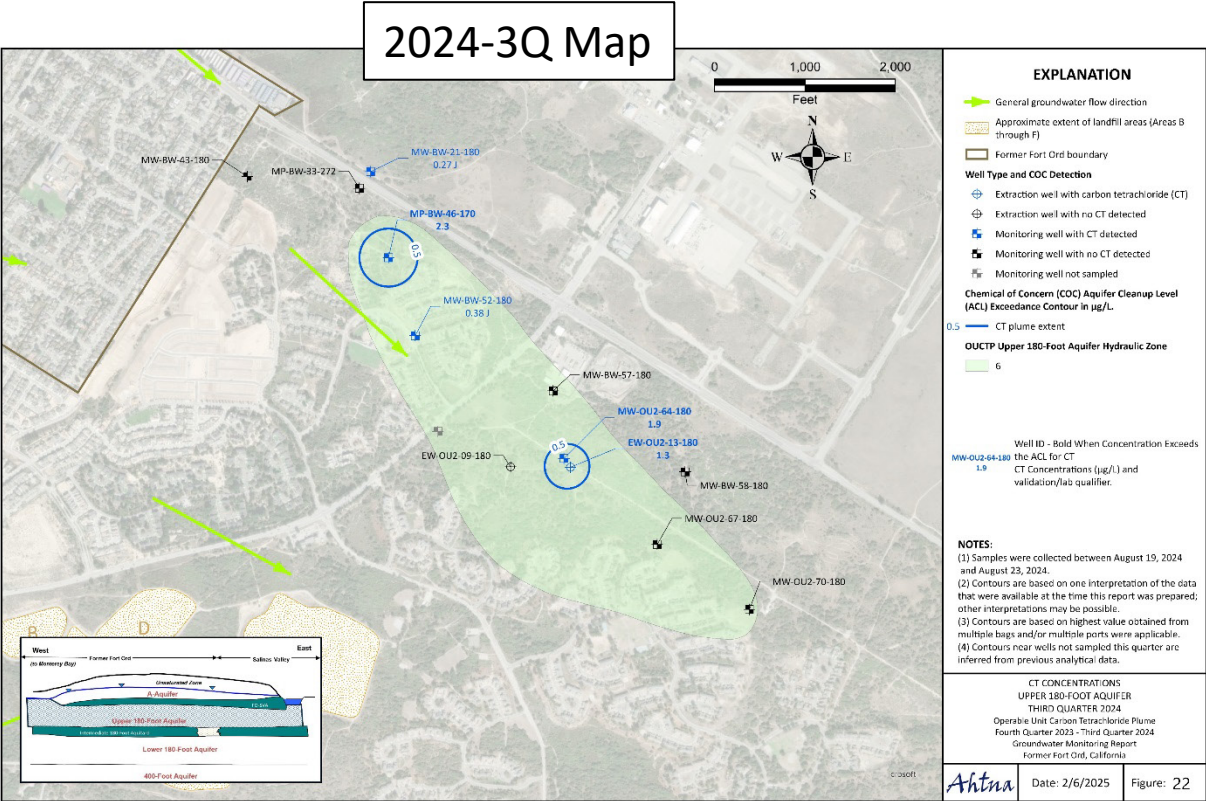
Table 2. Fourth Quarter 2024 OUCTP Upper 180-Foot Aquifer CT

Well ID	Station	Type	Sampled	CT	Qual
EW-OU2-13-180	-	EW	12/11/2024	3.2	
EW-OU2-13-180-DUP	-	DUP	12/11/2024	3.3	
MP-BW-33-272	-	GWM	11/20/2024	ND (0.25)	
MP-BW-46-170	-	GWM	11/20/2024	2.8	
MW-BW-21-180	5	GWM	11/19/2024	ND (0.25)	
MW-BW-43-180	5	GWM	11/21/2024	ND (0.25)	
MW-BW-52-180	1	GWM	11/21/2024	0.72	
MW-OU2-30-180	1	GWM	11/22/2024	ND (0.25)	UJ
MW-OU2-64-180	3	GWM	11/21/2024	2.9	
MW-OU2-67-180	3	GWM	11/21/2024	ND (0.25)	UJ
MW-OU2-67-180-DUP	3	DUP	11/21/2024	ND (0.25)	UJ

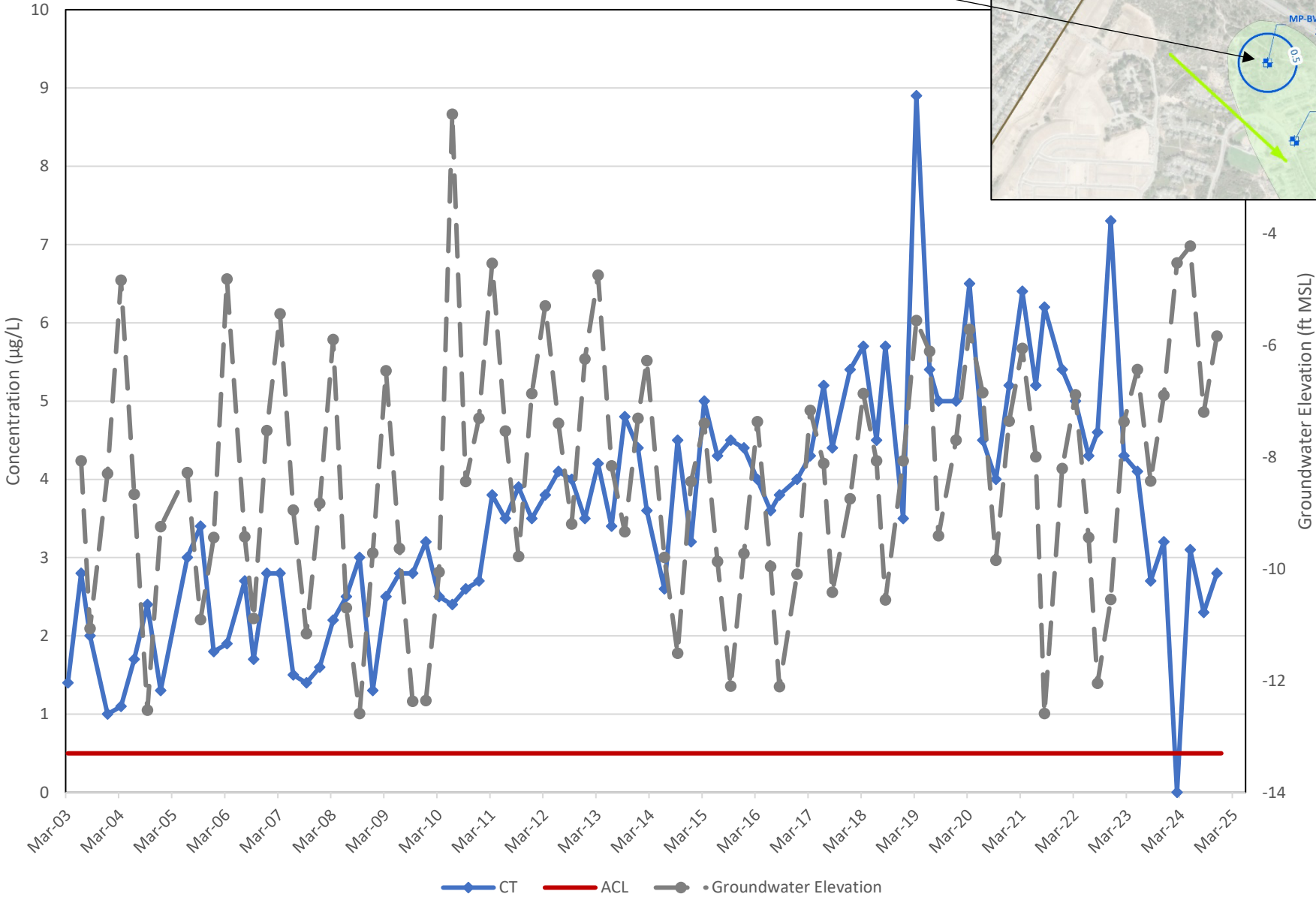
Notes:

- *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.

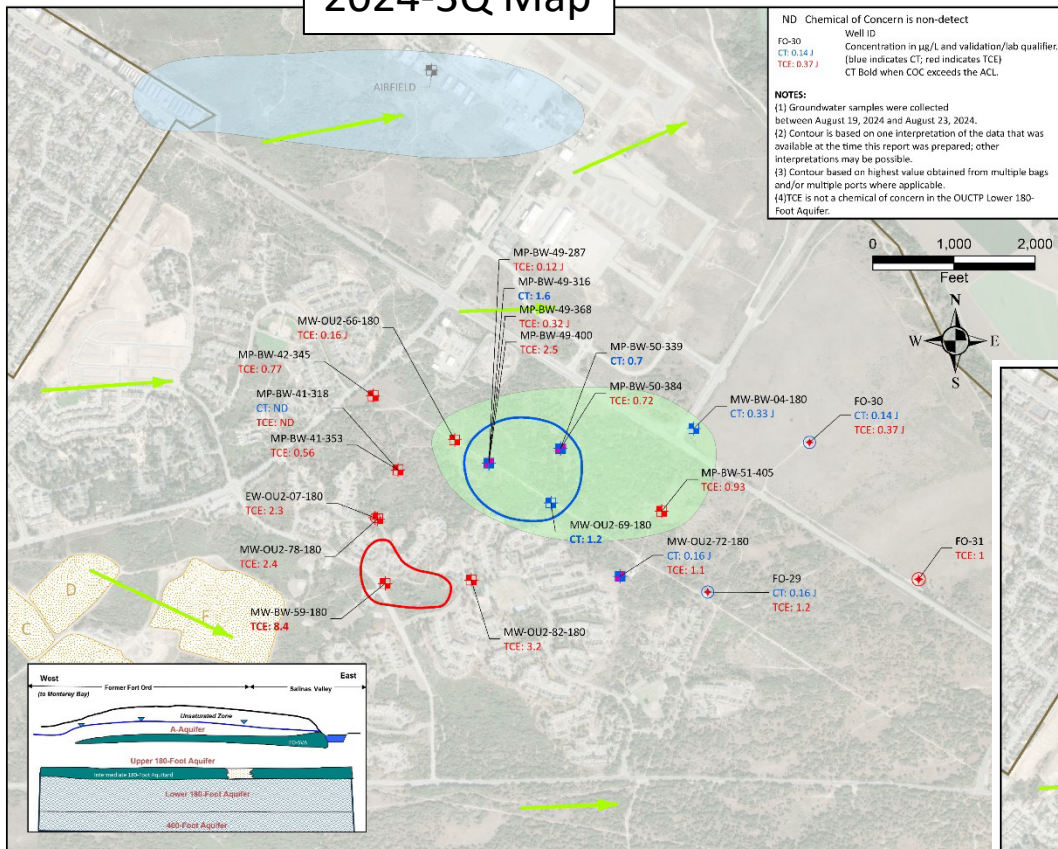
Increase in concentration



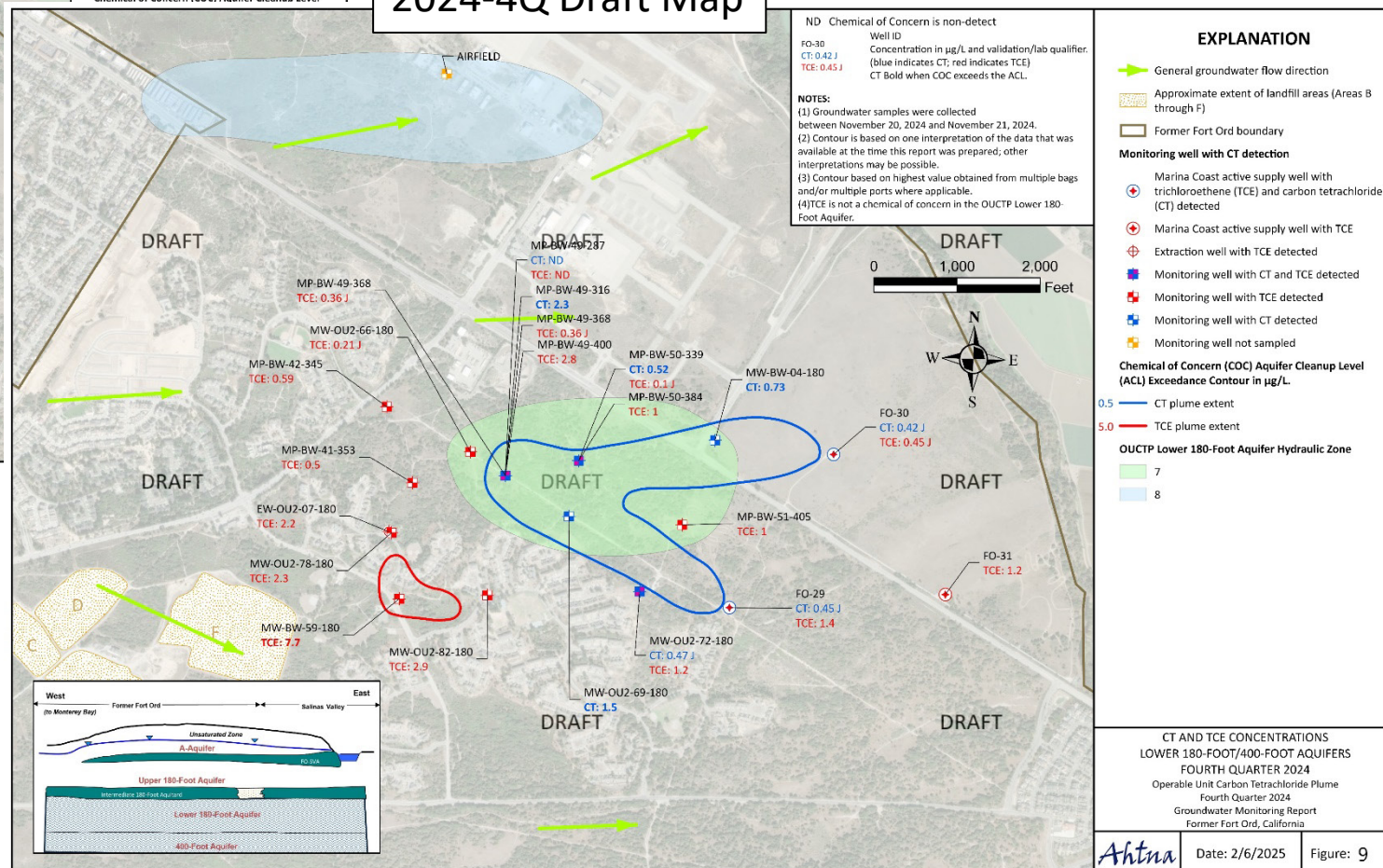
MP-BW-46-170



2024-3Q Map



2024-4Q Draft Map



Service Layer Credits: Earthstar Geographics, Imagery
Date 10/27/2023

Well ID	Station	Type	Sampled	CT	Qual	12DCA	Qual	TCE	Qual
EW-OU2-07-180	2	GWM	11/20/2024	ND (0.25)		ND (0.25)		ND (0.25)	
EW-OU2-07-180-DUP	2	DUP	11/20/2024	ND (0.25)		ND (0.25)		2.2	
FO-29	-	GWM	11/21/2024	0.45	J	ND (0.25)		1.4	
	-	DUP		ND (0.25)		ND (0.25)		ND (0.25)	
	-	GWM	1/7/2025*	ND (0.25)		ND (0.25)		1.4	
	-	DUP		0.14	J	ND (0.25)		1.1	
FO-30	-	GWM	11/21/2024	0.42	J	ND (0.25)		0.45	J
	-	GWM	1/7/2025*	ND (0.25)		ND (0.25)		0.38	J
	-	DUP		ND (0.25)		ND (0.25)		0.49	J
FO-31	-	GWM	11/21/2024	ND (0.25)		ND (0.25)		1.2	
	-	GWM	1/7/2025*	ND (0.25)		ND (0.25)		1.2	
	-	DUP		ND (0.25)		ND (0.25)		1.2	
MP-BW-41-353	-	GWM	11/21/2024*	ND (0.25)		ND (0.25)		0.5	
MP-BW-42-345	-	GWM	11/21/2024*	ND (0.25)		ND (0.25)		0.59	
MP-BW-49-287	-	GWM	11/21/2024*	ND (0.25)		ND (0.25)		ND (0.25)	
MP-BW-49-316	-	GWM	11/21/2024*	1.9		ND (0.25)		ND (0.25)	
	-	DUP	11/21/2024*	2.3		ND (0.25)		ND (0.25)	
MP-BW-49-368	-	GWM	11/21/2024*	ND (0.25)		ND (0.25)		0.36	J
MP-BW-49-400	-	GWM	11/21/2024*	ND (0.25)		ND (0.25)		2.8	
MP-BW-50-339	-	GWM	11/20/2024	0.52		ND (0.25)		0.1	J
MP-BW-50-384	-	GWM	11/20/2024	ND (0.25)		ND (0.25)		1	
MP-BW-51-405	-	GWM	11/20/2024	ND (0.25)		ND (0.25)		1	
MW-BW-04-180	3	GWM	11/20/2024	0.73		ND (0.25)		ND (0.25)	
MW-BW-59-180	2	GWM	11/20/2024	ND (0.25)		ND (0.25)		7.7	
MW-OU2-66-180	2	GWM	11/21/2024*	ND (0.25)		ND (0.25)		0.21	J
MW-OU2-69-180	3	GWM	11/21/2024*	1.5		ND (0.25)		ND (0.25)	
MW-OU2-72-180	4	GWM	11/21/2024*	0.47	J	ND (0.25)		1.2	
MW-OU2-78-180	3	GWM	11/20/2024	ND (0.25)		ND (0.25)		2.3	
MW-OU2-82-180	4	GWM	11/20/2024	ND (0.25)		ND (0.25)		2.9	

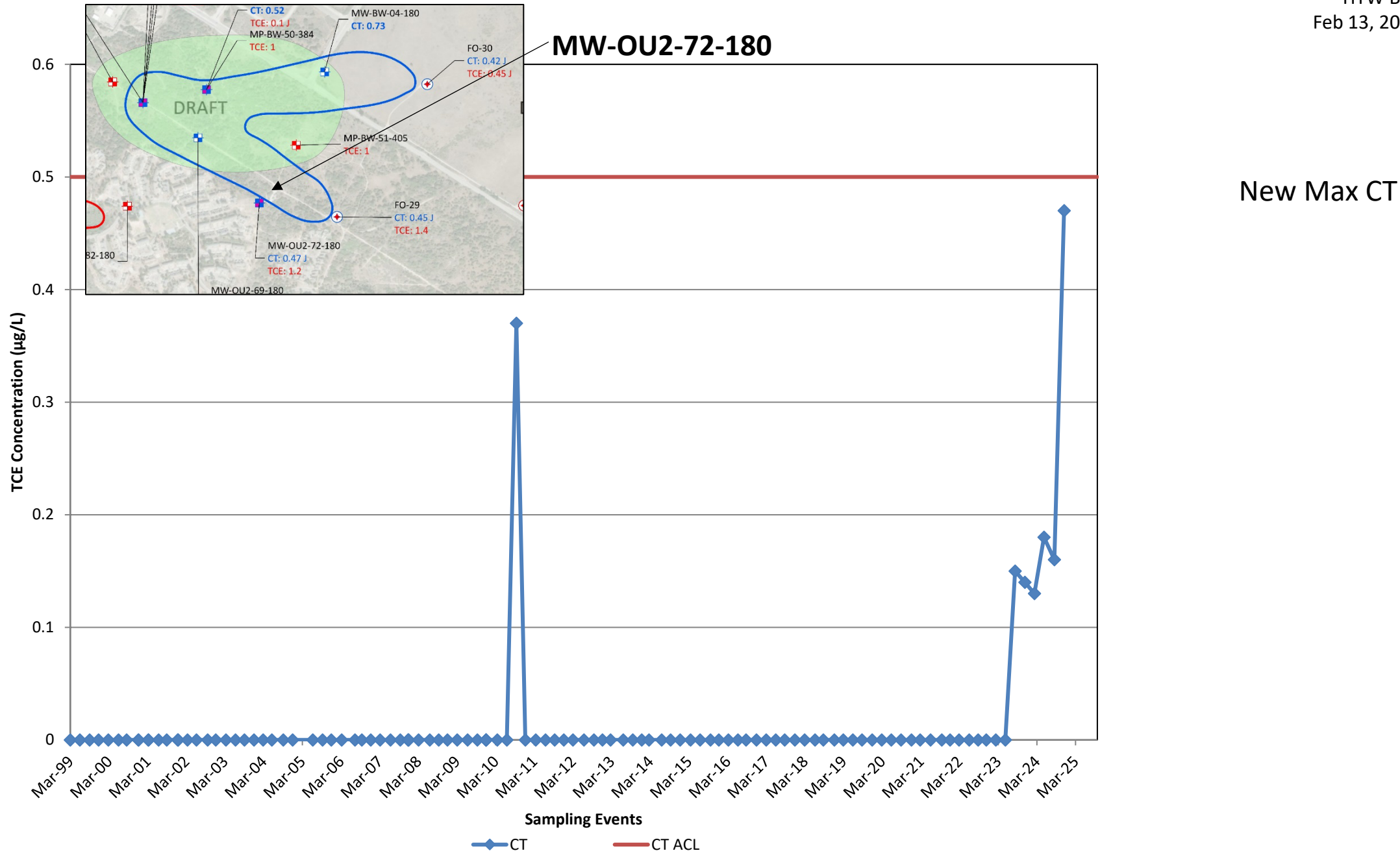
Table 3. Fourth Quarter 2024 OUCTP Lower 180-Foot Aquifer & Supply Well Resample

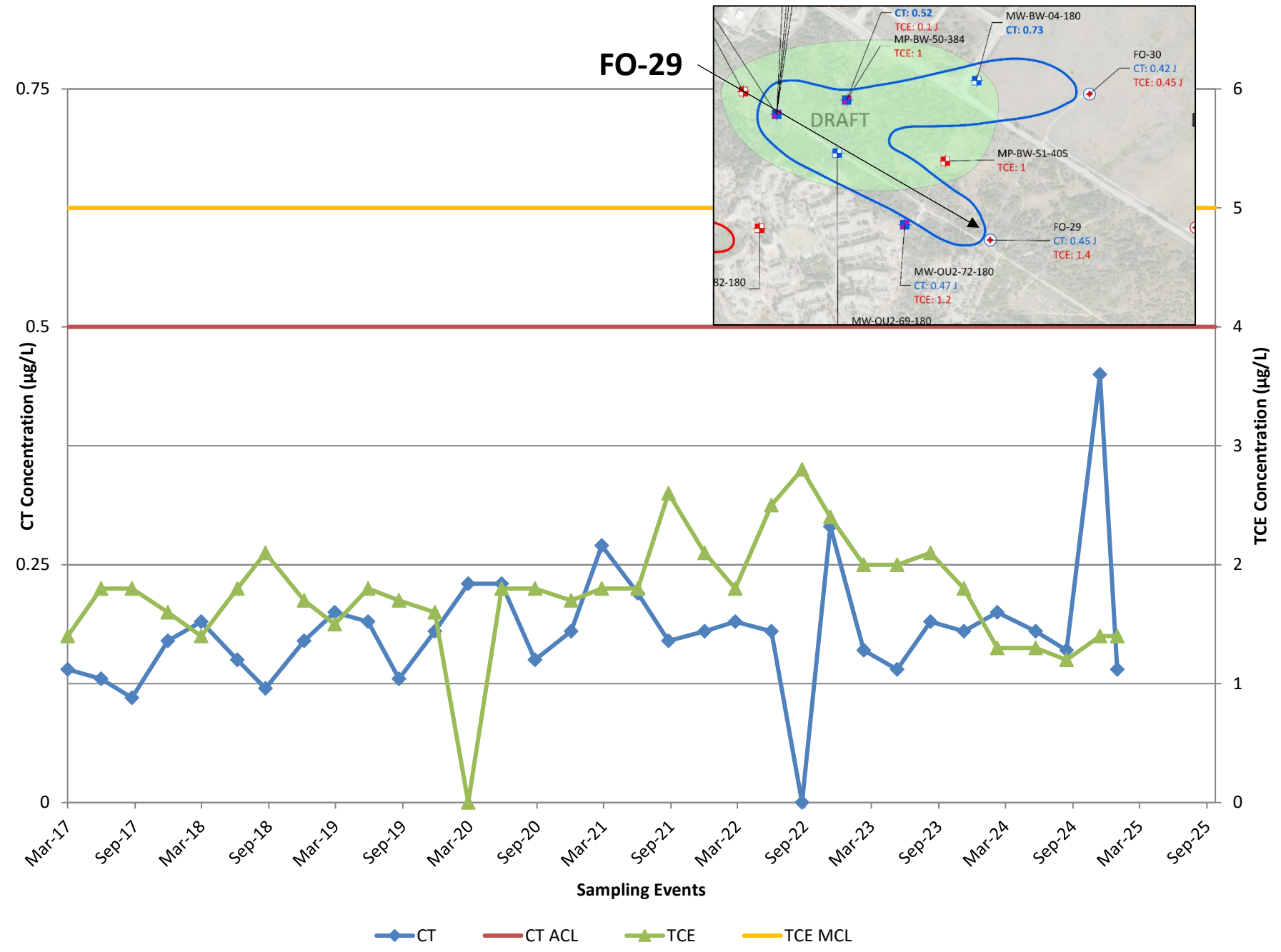
Notes:

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- CT: carbon tetrachloride
- DUP: duplicate sample
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- Qual: qualifier
- TCE: trichloroethene

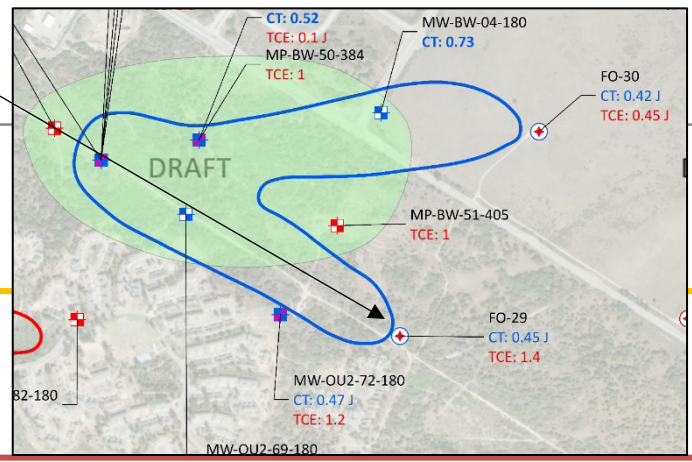


Increase in concentration at or upgradient of supply well

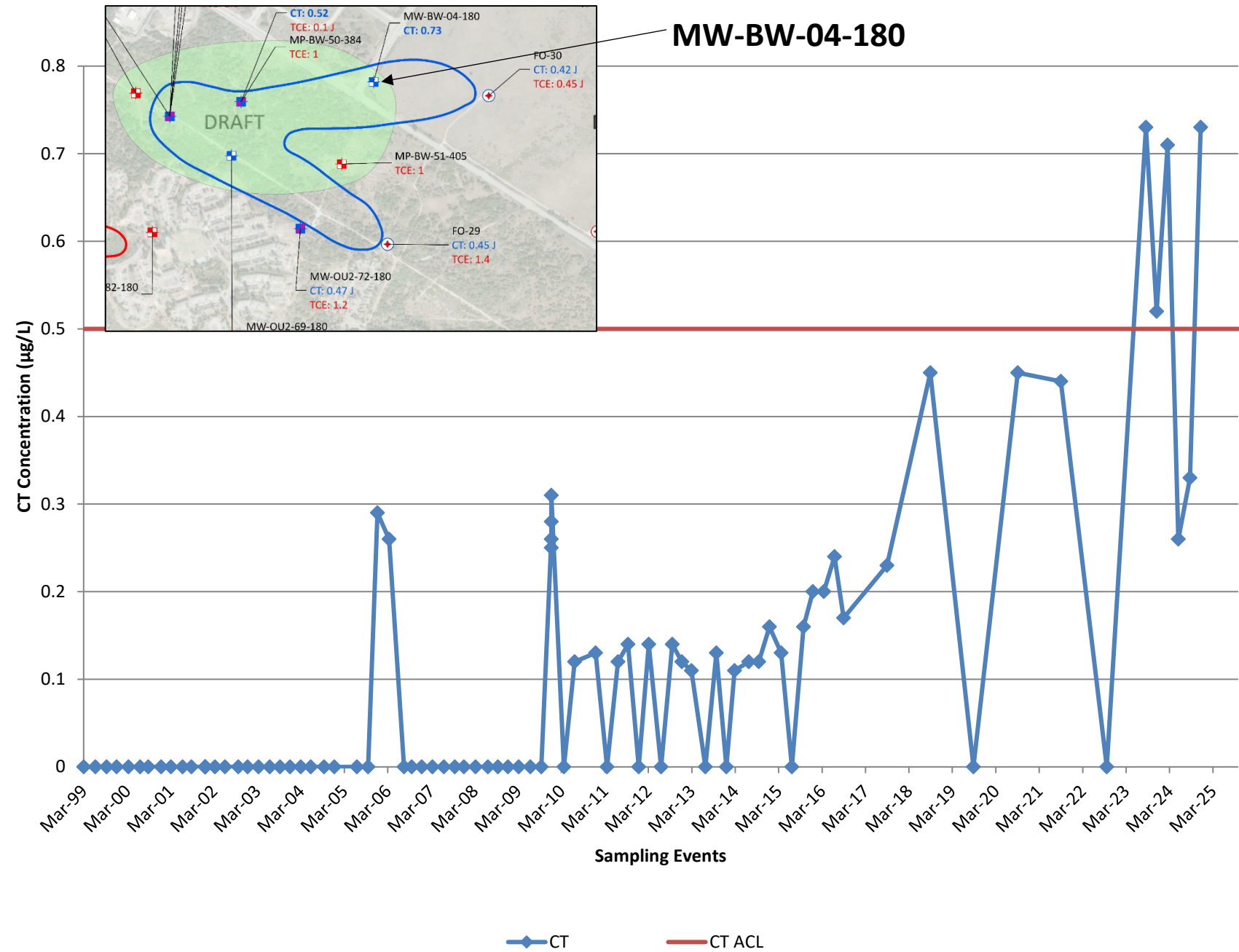




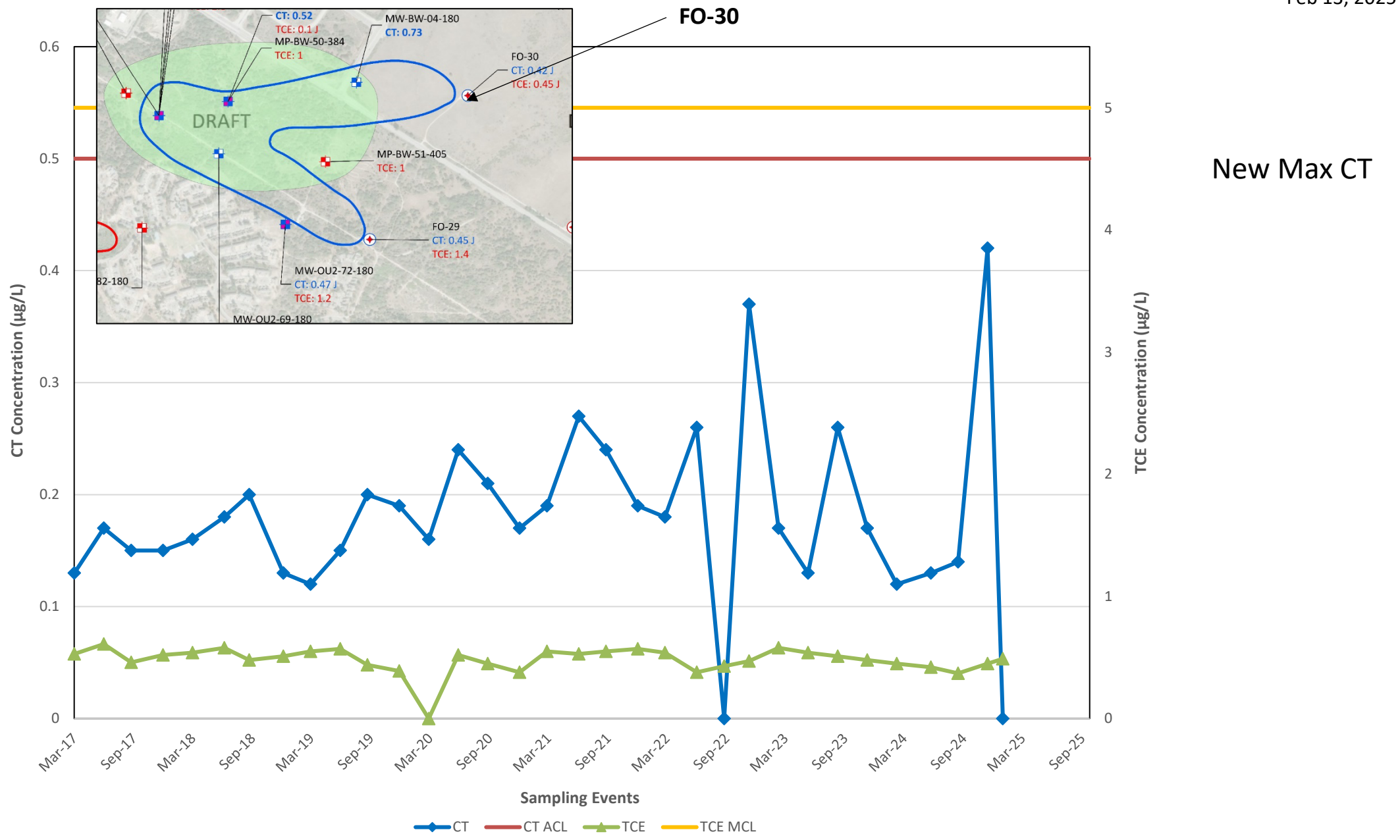
FO-29

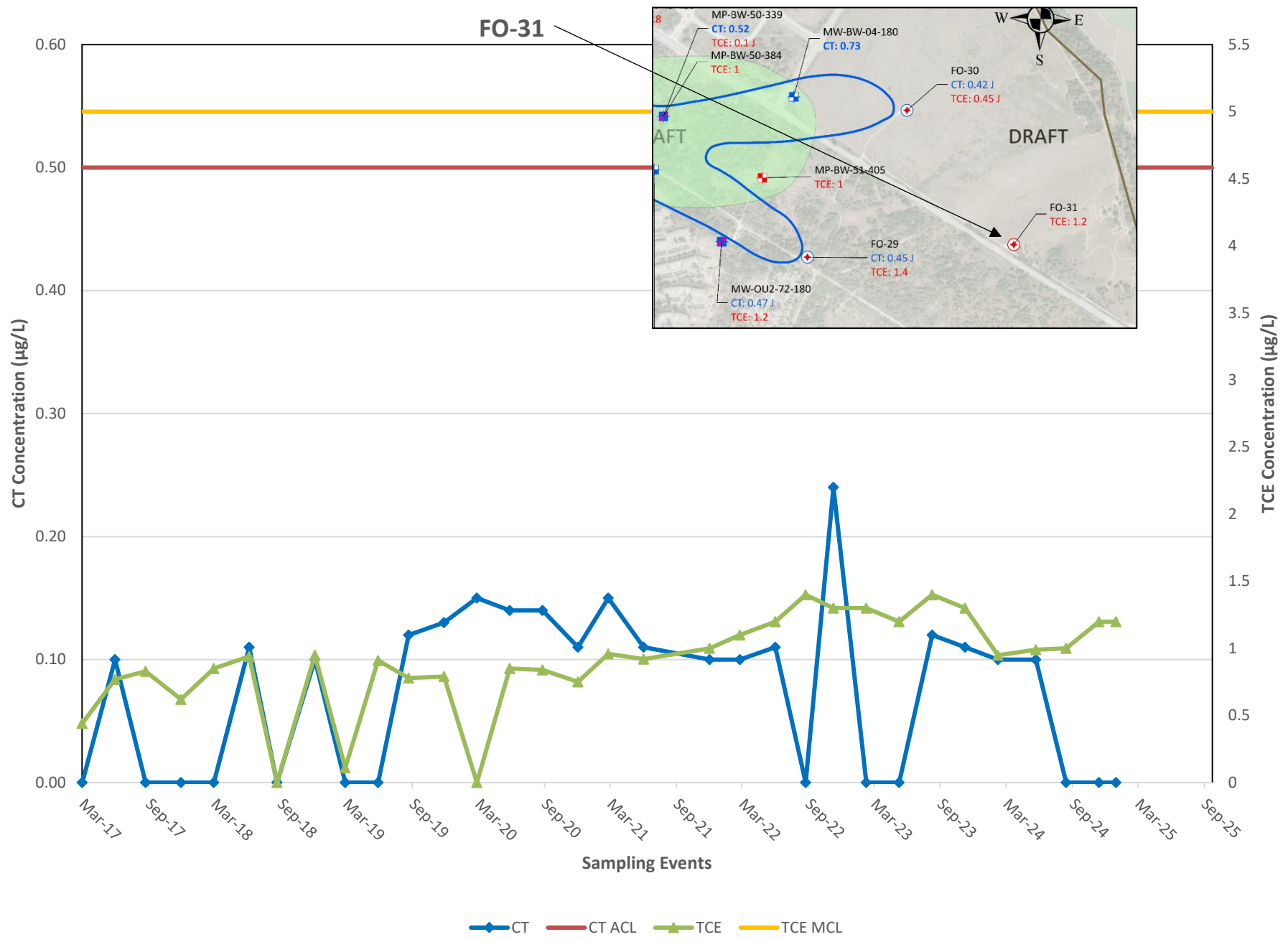


New Max CT



Matches Max CT





No issues

TCE in the Lower 180-Foot Aquifer

