

Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status

HTW BCT, November 17, 2021

Table 1. OUCTP A-Aquifer Select Monitoring Well Data – Hydraulic Zones 1, 2, and 3

OUCTP Hydraulic Zone ¹	EISB Deployment Area	Well Identification	COC Concentrations (µg/L)			
			4Q 2020	1Q 2021	2Q 2021	3Q 2021
ACL:			CT 0.5			
1	1C	EW-BW-109-A	0.58 J	1.4 J+	0.80	0.32 J
1	N/A	MW-BW-24-A	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)
2	3A	MW-BW-58-A	0.33	0.26 J	0.15 J	0.16 J
2	3A	MW-BW-87-A	2.1	3.9 J+	3.2	2.4
2	3A	MW-BW-91-A	0.57	1.3	0.87	0.89
2	N/A	MW-BW-94-AR	0.48	0.56	0.28 J	0.43 J
N/A	3A	MW-BW-90-A	1.3	1.4	1.1	1.3
2	3A	EW-BW-160-A	1.8	2.1	1.3	1.3
3	3A	EW-BW-166-A	0.029 J	ND (0.25)	ND (0.25)	ND (0.25)
3	N/A	MW-BW-88-A	0.74	0.63	0.92	0.55
3	N/A	MW-BW-93-A	0.28	0.34 J	0.24 J [0.16 J]	0.36 J
3	N/A	MW-BW-95-A	1.1	1.4	0.84	1.1

October and Future 2021 Key Events

- Dec 6-10: Fourth Quarter 2021 Groundwater Monitoring event.

Notes:

CT: carbon tetrachloride

µg/L: micrograms per liter

ND: The analyte was not detected above the detection limit

NS: not sampled

N/A: not applicable

J: Estimated result with a low (-) or high (+) bias

¹ Hydraulic zones are identified in the Groundwater QAPP.

Results in **bold** and shaded are concentrations above the ACL

Results in *gray* are ND

COC: chemical of concern

[Results in brackets are from a second deeper passive diffusion bag]

* Preliminary data



Table 2. OUCTP A-Aquifer Select Monitoring Well Data – Hydraulic Zones 4 and 5

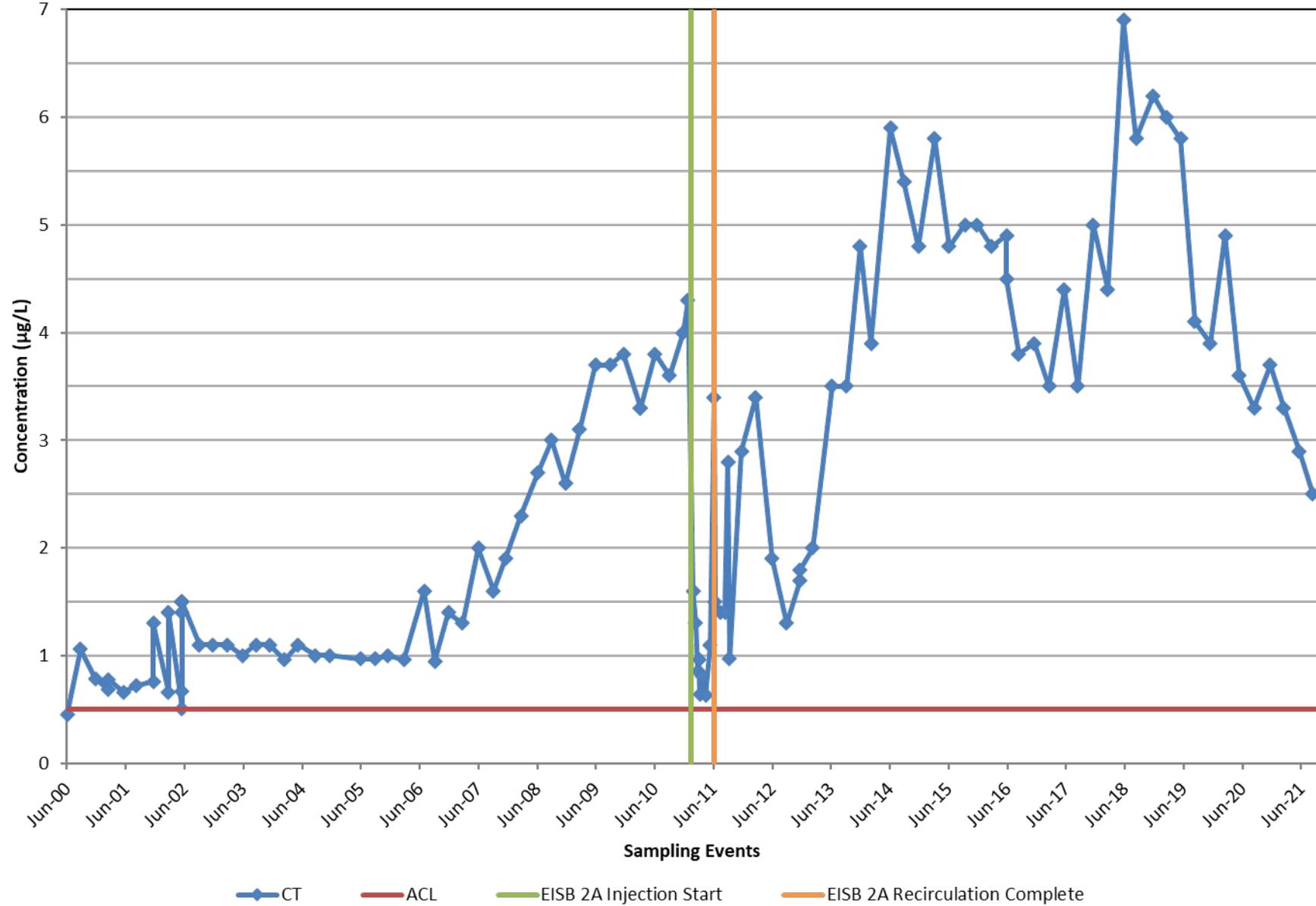
OUCTP Hydraulic Zone ¹	EISB Deployment Area	Well Identification	COC Concentrations (µg/L)			
			4Q 2020	1Q 2021	2Q 2021	3Q 2021
			CT			
ACL:			0.5			
4	2A	EW-BW-124-A	0.41	0.94 J+	0.84 J-	0.43 J
4	2A	EW-BW-129-A	4.1	4.0 J	2.4 J-	2.0
4	2A	EW-BW-140-A	0.48	0.97 J+	0.69 J-	0.52
4	2A	MW-BW-26-A^	3.7	3.3 J+	2.9 J-	2.5
4	N/A	MW-B-12-A	0.46	0.32 J	0.44 J	0.23 J
4	2B	MW-B-14-A	0.55	0.52	0.48 J	0.34 J
4	2B	EW-BW-155-A	0.95	0.11 J	0.26 J	0.17 J
4	N/A	MW-BW-31-A	0.64	0.84	ND (0.25)	0.88
4	N/A	MW-BW-32-A	0.90	1.2	0.98 J-	1.2
4	N/A	MW-BW-35-A	0.095 J	ND (0.25)	ND (0.25)	ND (0.25)
4	N/A	MW-BW-36-A	0.65	0.46 J	0.17 J	2.1
4	N/A	MW-BW-42-A	NS	NS	NS	ND (0.25)
4	N/A	MW-BW-89-A	0.67	0.73	0.47 J	0.48 J
4	N/A	MW-BW-92-A	0.95	1.2	0.78	1.0
5	Pilot	EISB-EW-01	0.26	0.28 J	0.25 J [0.27 J]	0.22 J
5	Pilot	EISB-EW-09	1.1	1.1	0.97	1.1
5	N/A	MW-BW-49-A	0.42	0.47 J	0.26 J	0.32 J
5	N/A	MW-BW-65-A	0.25	0.43 J	0.32 J	0.56
5	Pilot	MW-BW-66-A	0.50	0.53	0.46 J	0.37 J
5	N/A	MW-BW-74-A	0.063 J [0.091 J]	0.18 J [0.23 J]	ND (0.25) [0.12 J]	ND (0.25) [0.14 J]
5	N/A	MW-BW-75-A	2.4	2.9 J+	2.1 [2.1]	2.3
5	N/A	MW-BW-78-A	0.11 J [0.22]	ND (0.25) [0.16 J]	ND (0.25) [0.17 J]	0.16 J [0.20 J]
5	N/A	MW-BW-80-A	2.4	2.9 J+	3.7	5.4
5	N/A	MW-BW-82-A	1.1	1.4	0.98	1.1

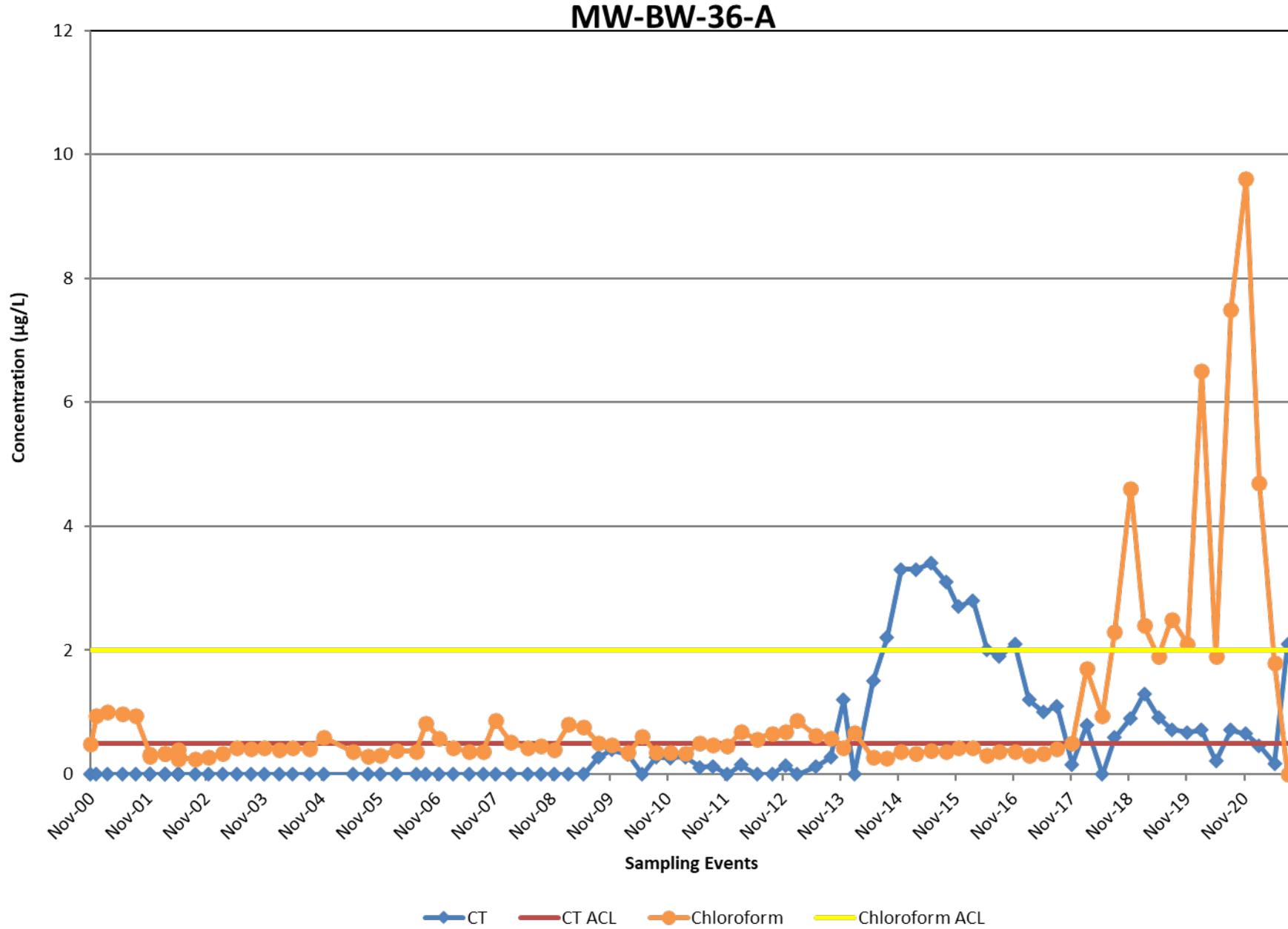
Notes:

- CT: carbon tetrachloride
- µg/L: micrograms per liter
- ND: The analyte was not detected above the detection limit
- NS: not sampled
- J: Estimated result with a low (-) or high (+) bias
- ¹ Hydraulic zones are identified in the Groundwater QAPP.
- Results in **bold** and shaded are concentrations above the ACL
- Results in gray are ND
- COC: chemical of concern
- [Results in brackets are from a second deeper passive diffusion bag]
- ^ Downgradient monitoring well MW-BW-30-A sampled annually:
- Pending.
- * Preliminary data

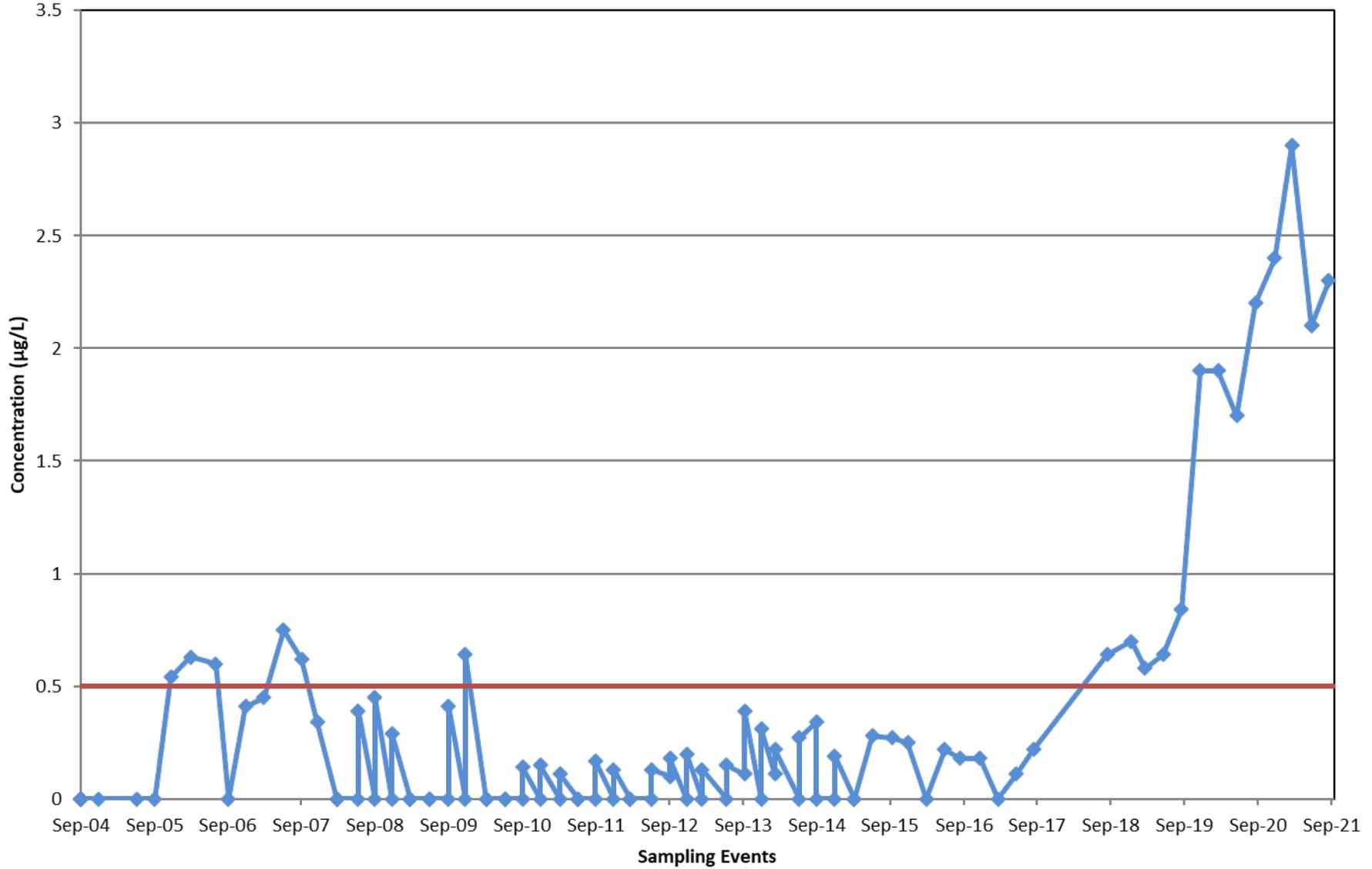


MW-BW-26-A



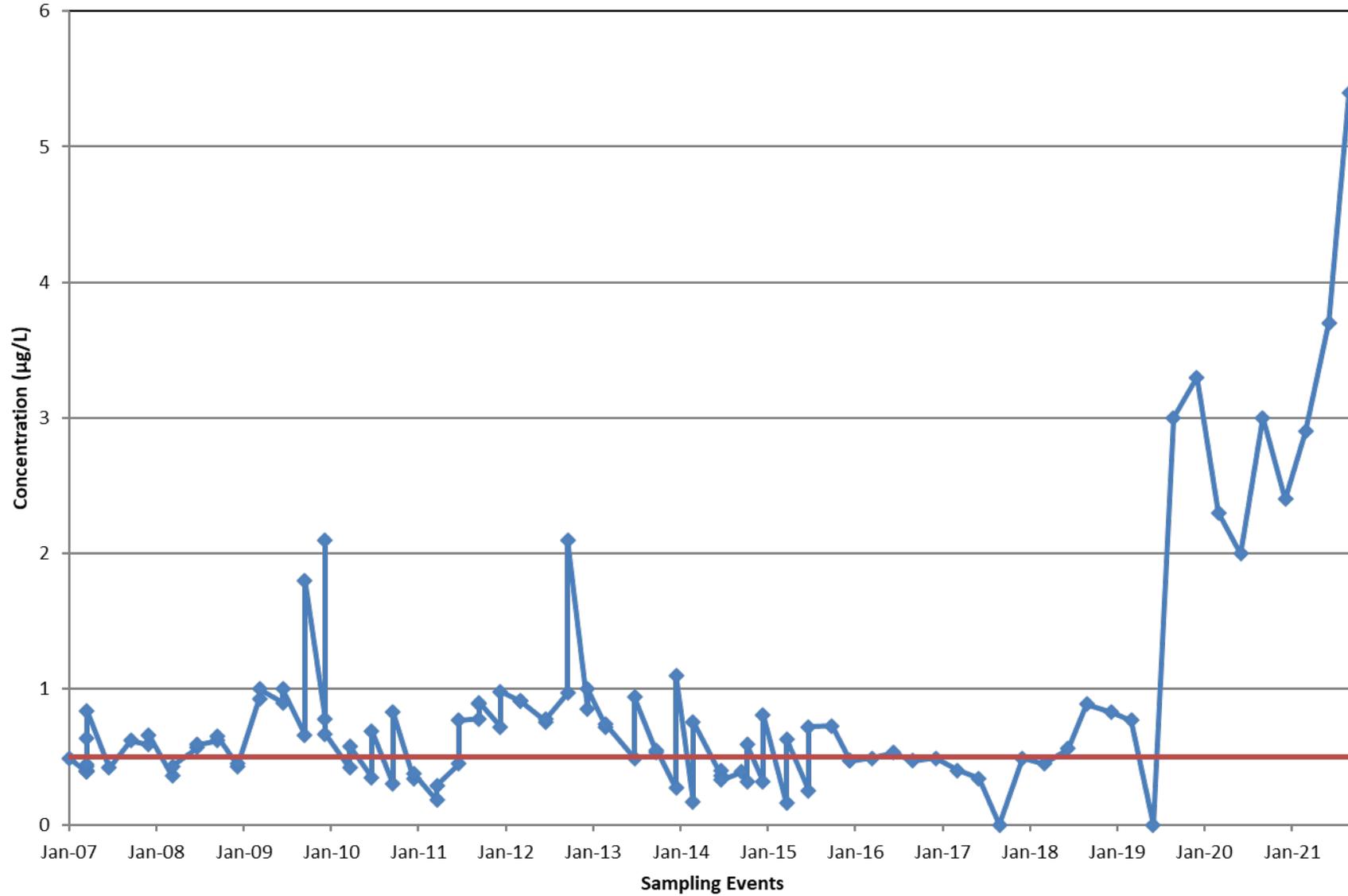


MW-BW-75-A



CT ACL

MW-BW-80-A



CT ACL

Table 4. OUCTP Upper 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone ¹	Well Identification	CT Concentration (µg/L) ²			
		4Q 2020	1Q 2021	2Q 2021	3Q 2021
ACL:		0.5			
6	EW-OU2-09-180 ³	0.025 J	ND (0.25)	ND (0.25)	ND (0.25)
6	MP-BW-46-170	5.2	6.4 J+	5.2	6.2 J+
N/A	MW-BW-21-180	0.044 J	0.16 J	0.22 J	ND (0.25)
N/A	MW-BW-43-180	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)
6	MW-BW-52-180	0.70	0.67 J+	0.60 J+	0.53
6	MW-BW-57-180	0.82	0.70	0.60	0.30 J
6	MW-BW-58-180	NS	NS	NS	ND (0.25)
6	MW-OU2-64-180	6.8	8.7 J+	5.3 J+	3.5 J+
6	MW-OU2-67-180 ⁵	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)

Notes:

ACL: aquifer cleanup level

COC: chemical of concern

CT: carbon tetrachloride

MCL: maximum contaminant level

ND: The analyte was not detected at or above the detection limit

NS: not sampled

TCE: trichloroethene

µg/L: micrograms per liter

J: Estimated result with a low (-) or high (+) bias

¹ Hydraulic zones are identified in the Groundwater QAPP.

² Concentration in **bold** and shaded cell exceeds the Aquifer Cleanup Level (ACL) for CT and the Maximum Contaminant Level (MCL) for TCE. Results in *gray* are ND.

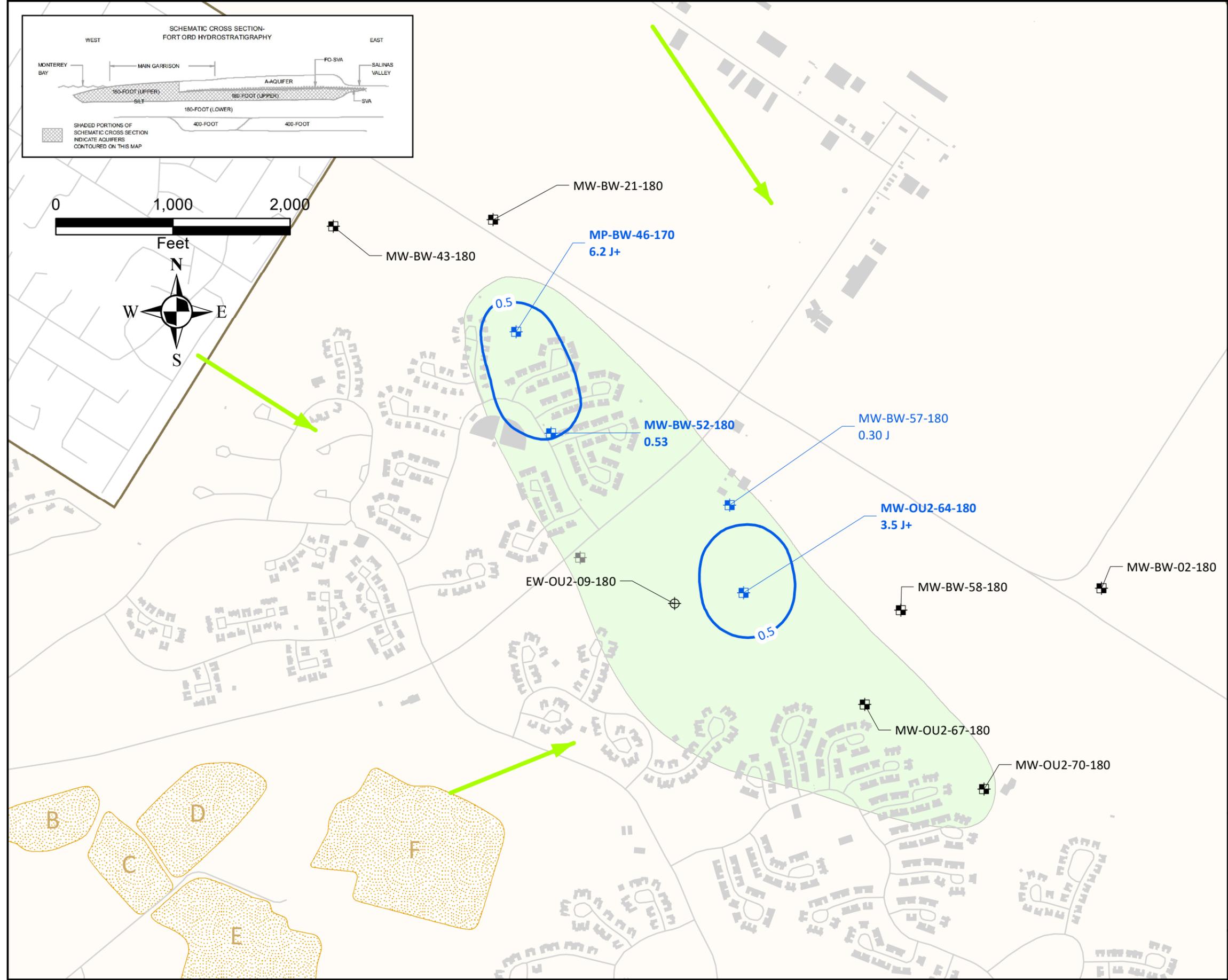
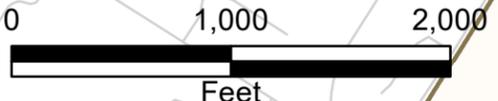
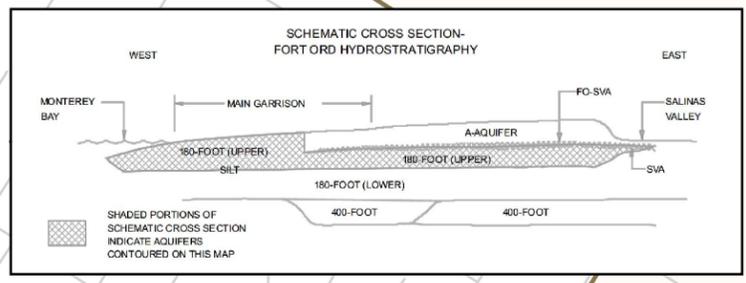
³ EW-OU2-09-180 is operated as part of the remedy for the OUCTP Upper 180-Foot Aquifer and is connected to the OU2 GWTP.

⁴ TCE is not a COC in the OUCTP Lower 180-Foot Aquifer (reported for Lower 180-Foot Aquifer with respect to protection of supply wells)

⁵ Downgradient well MW-OU2-70-180 sampled annually: ND.

* Preliminary data





EXPLANATION

- General groundwater flow direction
- Roads
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary
- Well Type and CT Detection**
 - Extraction well with no carbon tetrachloride (CT) detected
 - Monitoring well with CT detected
 - Monitoring well with no CT detected
 - Monitoring well not sampled
- 3Q2021 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

Well ID - Bold When Concentration Exceeds the ACL for CT
MW-OU2-64-180
 3.5 J+
 CT Concentrations (µg/L) and validation/lab qualifier.

- NOTES:**
- (1) Samples were collected between August 29, 2021 and September 23, 2021.
 - (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
 THIRD QUARTER 2021
 Operable Unit Carbon Tetrachloride Plume
 Fourth Quarter 2020 - Third Quarter 2021
 Groundwater Monitoring Report
 Former Fort Ord, California

MP-BW-46-170

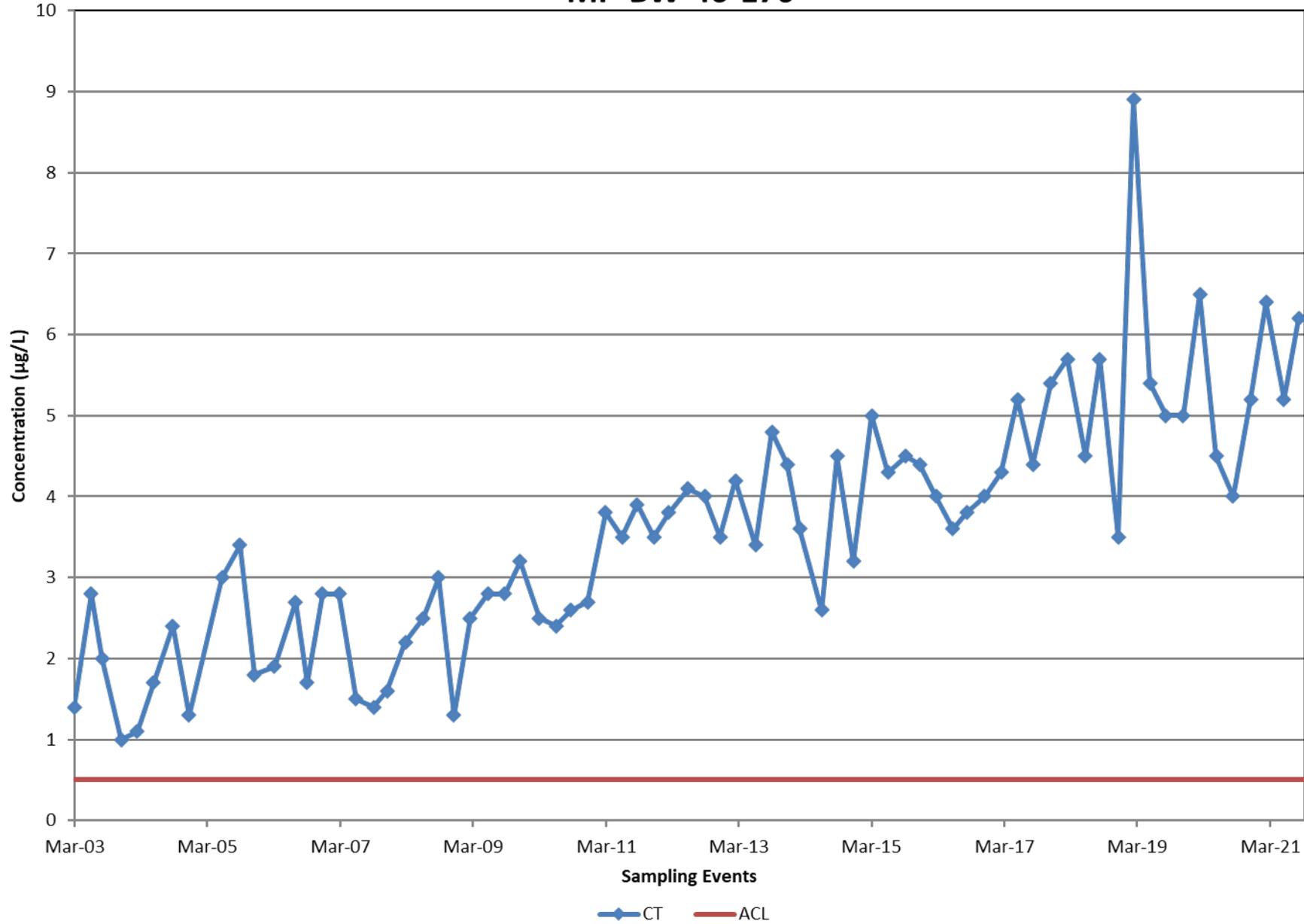


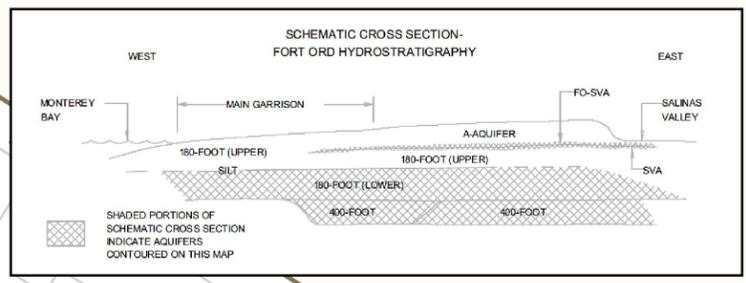
Table 5. OUCTP Lower 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone ¹	Well Identification	Select COC Concentrations (µg/L) ²							
		4Q 2020	1Q 2021	2Q 2021	3Q 2021	4Q 2020	1Q 2021	2Q 2021	3Q 2021
		CT				TCE ⁴			
Limit:	ACL 0.5				MCL 5.0				
7	MP-BW-49-316	1.9	4.1 J+	3.7 J+	3.0	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)
7	MP-BW-49-400	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)	4.0	5.4 J+	4.5 J+	4.0
7	MP-BW-50-339	0.31	0.56 J+	ND (0.25)	1.2	ND (0.066)	0.23 J	ND (0.25)	ND (0.25)
7	MP-BW-50-384	0.058 J	0.11 J	0.13 J	ND (0.25)	1.6	2.5	1.8 J+	2.0
7	MP-BW-51-405	0.13 J	0.12 J	0.15 J	0.16 J	1.7	1.2 J+	1.5	1.5
7	MW-OU2-69-180	0.96	1.4 J+	1.1	1.1 J+	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)
8	AIRFIELD	ND (0.025)	0.37 J	ND (0.25)	0.39 J	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)
9	EW-OU2-07-180	0.030 J	ND (0.25)	ND (0.25)	ND (0.25)	3.0	3.6	3.3	3.6
N/A	FO-29	0.18 J	0.27 J	0.22 J	0.17 J	1.7	1.8	1.8	2.6
N/A	FO-30	0.17 J	0.19 J	0.27 J	0.24 J	0.38	0.55	0.53	0.55
N/A	FO-31	0.11 J	0.15 J	0.11 J	NS	0.75	0.95	0.92	NS
N/A	MP-BW-41-318	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.066)	0.59 J	0.32 J	0.37 J
N/A	MP-BW-41-353	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.066)	1.5 J+	1.3	1.3
9	MW-BW-59-180	0.076 J	0.12 J	0.14 J	0.14 J	8.9	9.7 J+	10.4 J+	10.0 J+
N/A	MW-OU2-72-180	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)	1.4	1.4 J+	1.3	1.8
9	MW-OU2-78-180	ND (0.025)	ND (0.25)	ND (0.25)	ND (0.25)	2.1	2.5 J+	2.6	2.2 J+
9	MW-OU2-82-180	0.041 J	ND (0.25)	ND (0.25)	ND (0.25)	4.0	4.2 J+	4.2 J+	5.9

Notes:

- ACL: aquifer cleanup level
- COC: chemical of concern
- CT: carbon tetrachloride
- MCL: maximum contaminant level
- ND: The analyte was not detected at or above the detection limit
- NS: not sampled
- TCE: trichloroethene
- µg/L: micrograms per liter
- J: Estimated result with a low (-) or high (+) bias
- ¹ Hydraulic zones are identified in the Groundwater QAPP.
- ² Concentration in **bold** and shaded cell exceeds the Aquifer Cleanup Level (ACL) for CT and the Maximum Contaminant Level (MCL) for TCE. Results in gray are ND.
- ³ EW-OU2-09-180 is operated as part of the remedy for the OUCTP Upper 180-Foot Aquifer and is connected to the OU2 GWTP.
- ⁴ TCE is not a COC in the OUCTP Lower 180-Foot Aquifer (reported for Lower 180-Foot Aquifer with respect to protection of supply wells)
- ⁵ Downgradient well MW-OU2-70-180 sampled annually: ND.
- * Preliminary data





Well ID
 MP-BW-51-405
 Concentration in $\mu\text{g/L}$ and validation/lab qualifier.
 (blue indicates CT; red indicates TCE)
 CT Bold when COC exceeds the ACL.

NOTES:
 (1) Groundwater samples were collected between August 29, 2021 and September 23, 2021.
 (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) Marina Coast FO-31 well was inoperable during sampling.
 (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

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

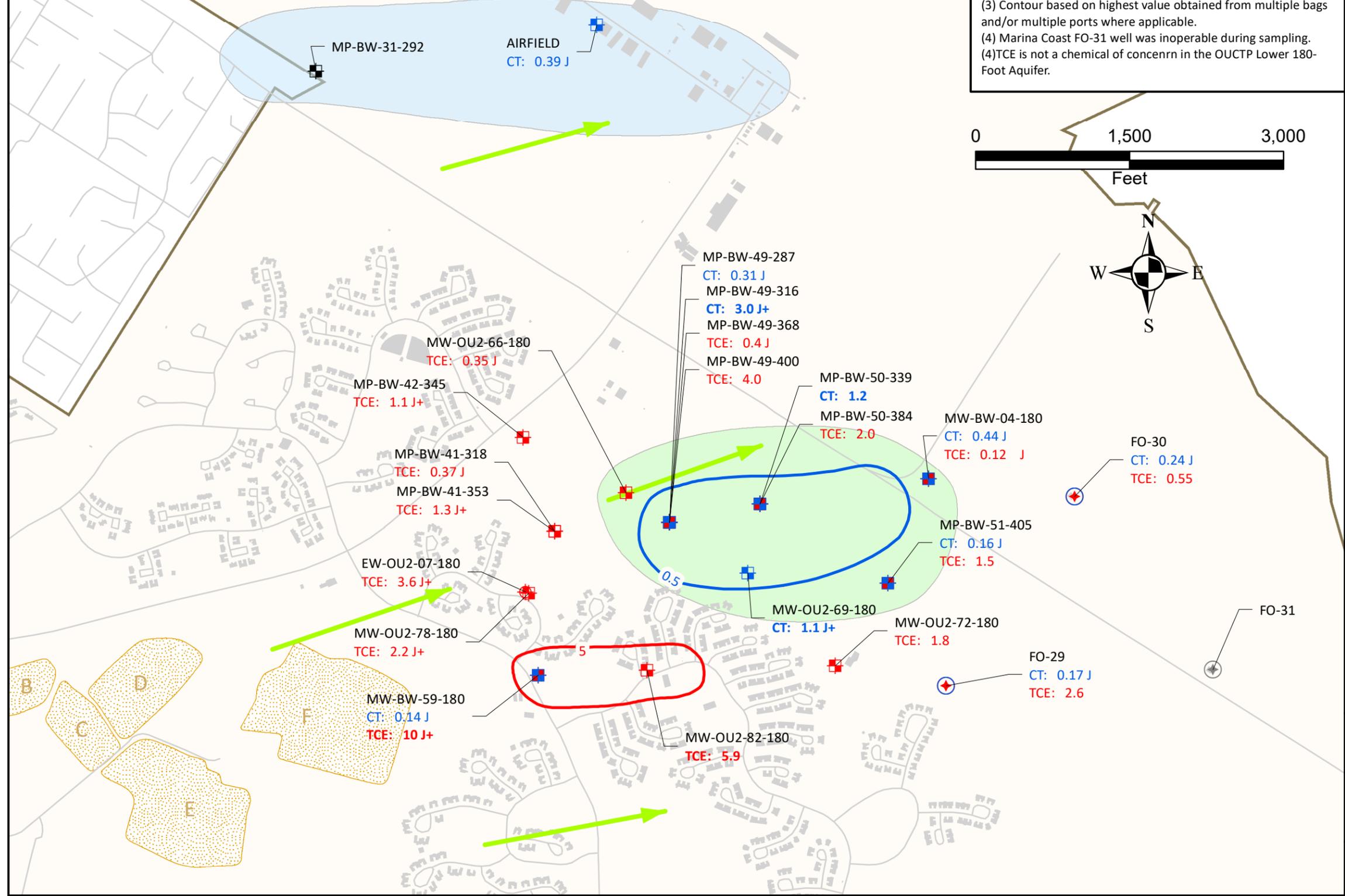
- Extraction well with trichloroethene (TCE) detection
- Monitoring well with carbon tetrachloride (CT) detection
- Monitoring well with TCE detection
- Monitoring well with CT and TCE detection
- Monitoring well with no CT or TCE detection
- Marina Coast active supply well with CT and TCE detection
- Marina Coast inactive supply well

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in $\mu\text{g/L}$.

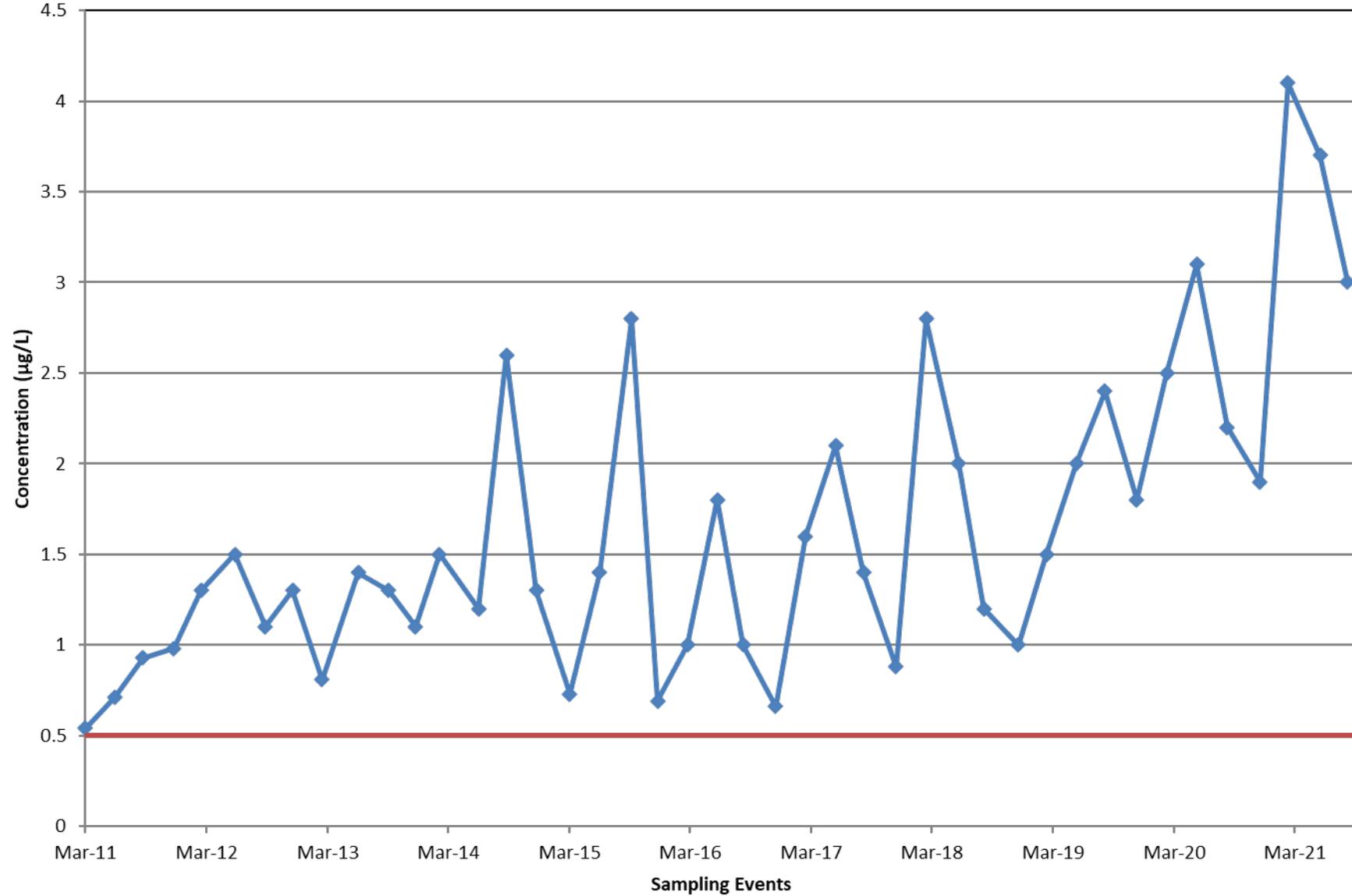
- 0.5 Carbon tetrachloride (CT) plume extent
- 5.0 Trichloroethene (TCE) plume extent

OUCTP Lower 180-Foot Aquifer Hydraulic Zone

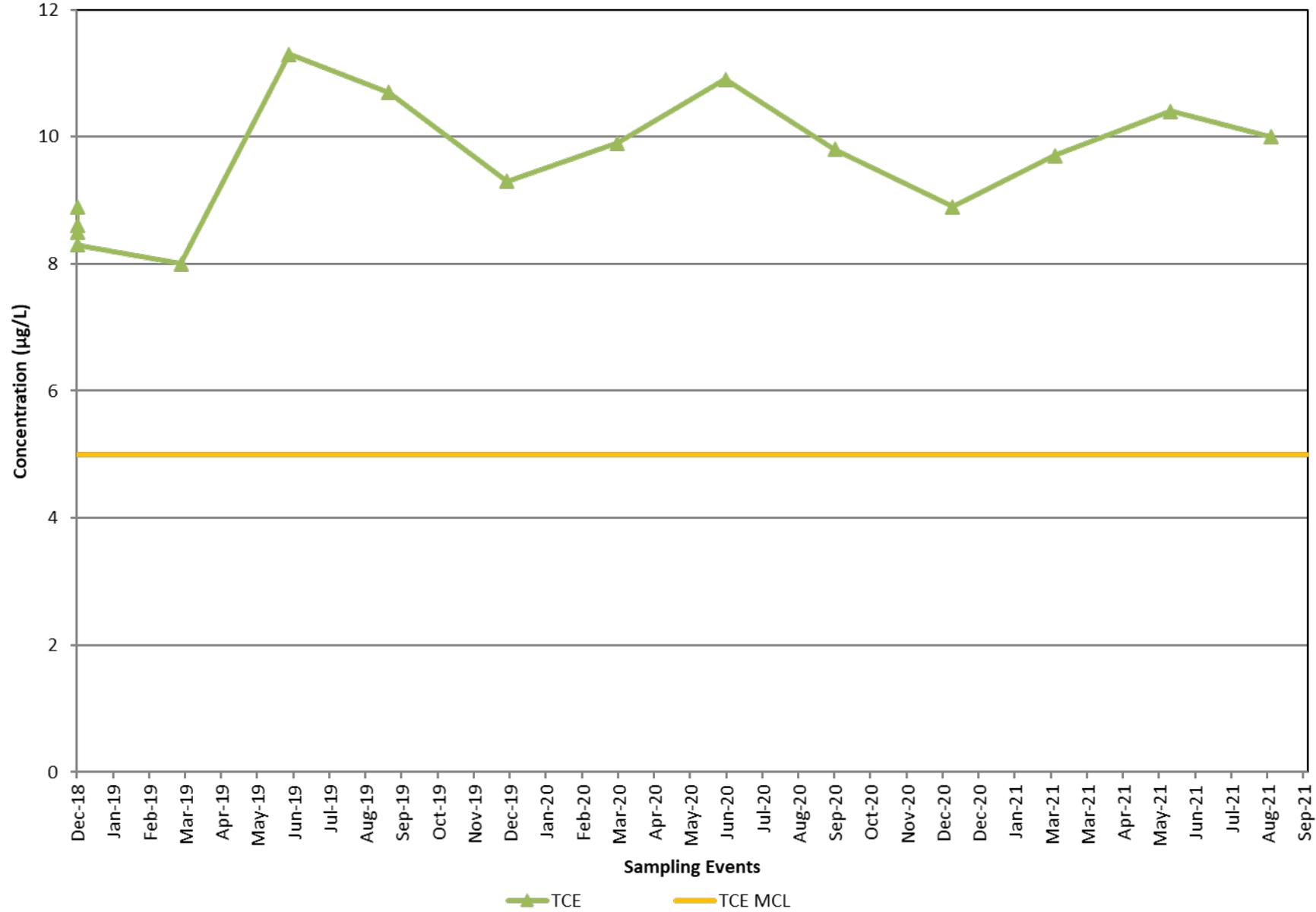
- 7
- 8



MP-BW-49-316



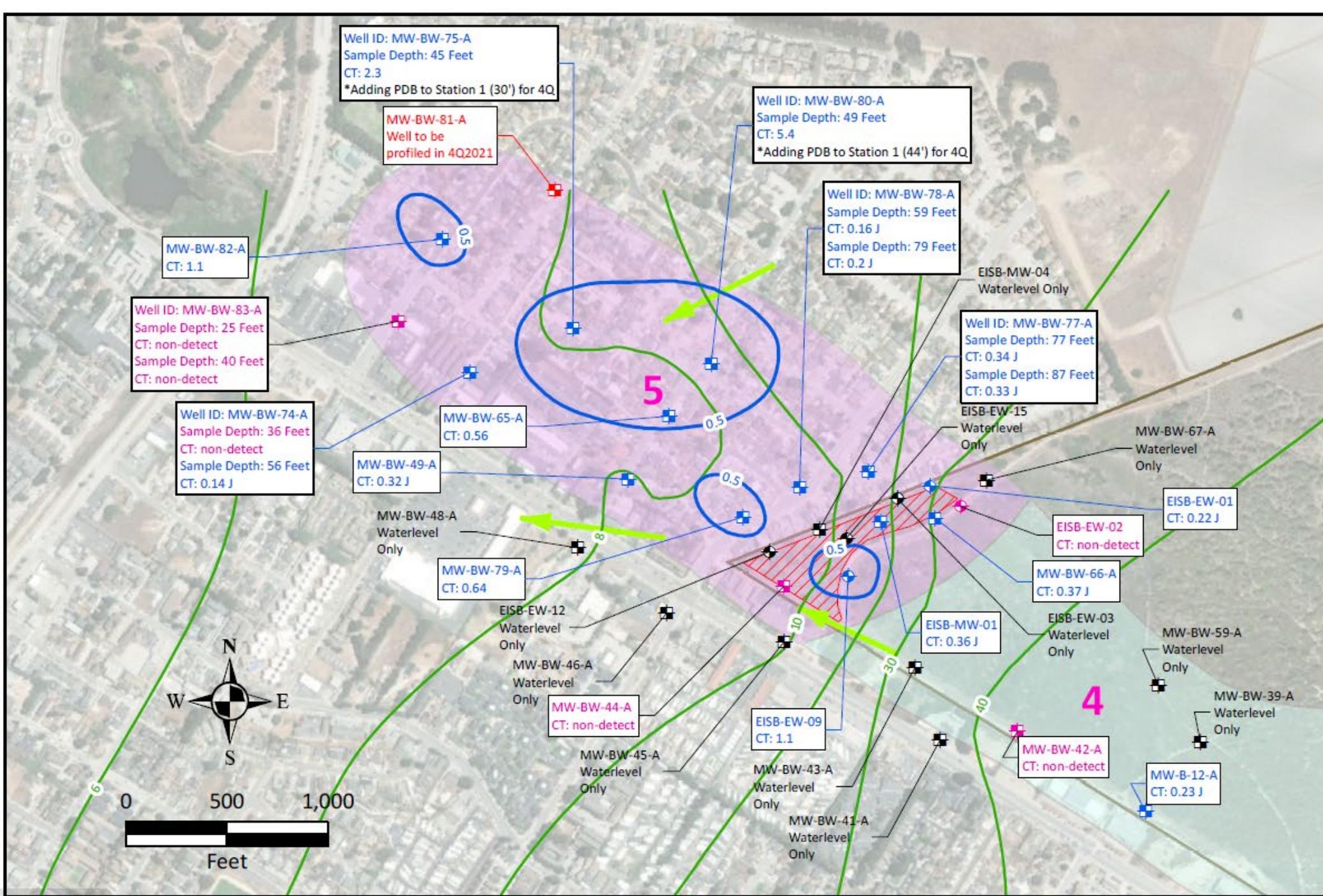
MW-BW-59-180



OUCTP Hydraulic Zone 5 Vapor Intrusion Analysis

HHRA included in OUCTP RI/FS (AR# OUCTP-0011P):

- VOC concentrations in indoor air arising from groundwater and subsurface contamination estimated using Johnson and Ettinger model.
- CT and PCE in the A-Aquifer were risk drivers.
- RME cancer risk estimate due to vapor intrusion was 5E-08.
- Estimated cancer risk associated with the vapor intrusion pathway was negligible compared to direct contact pathways associated with household uses of groundwater.
- Cumulative noncancer hazards (HI) did not exceed one at any sampling location or aquifer.
- Because groundwater from the OUCTP is not currently supplied for domestic use, residents likely have no risk from direct exposure to groundwater within OUCTP.



EXPLANATION

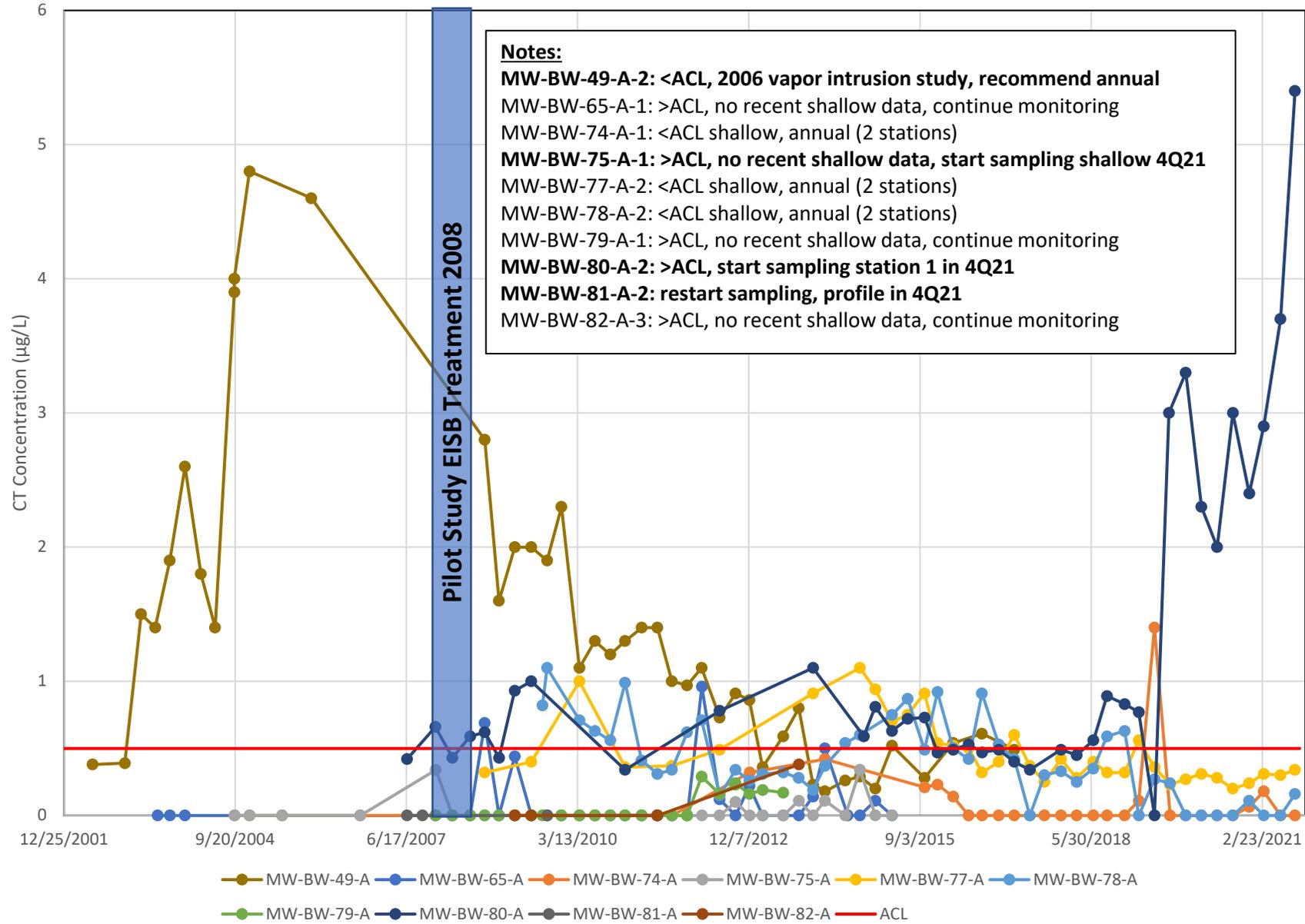
- 3Q2021 Groundwater Contours
- General groundwater flow direction
- Enhanced In-Situ Bioremediation (EISB) deployment pilot study area
- Former Fort Ord boundary

- Well Type and Sample**
- ⊕ Extraction well with carbon tetrachloride (CT) detection
 - ⊕ Extraction well without CT detection
 - ⊕ Extraction well: Depth to water measurement only
 - ⊕ Monitoring well with CT detection
 - ⊕ Monitoring well without CT detection
 - ⊕ Monitoring well to be profiled in 4Q2021
 - ⊕ Monitoring well: Depth to water measurement only

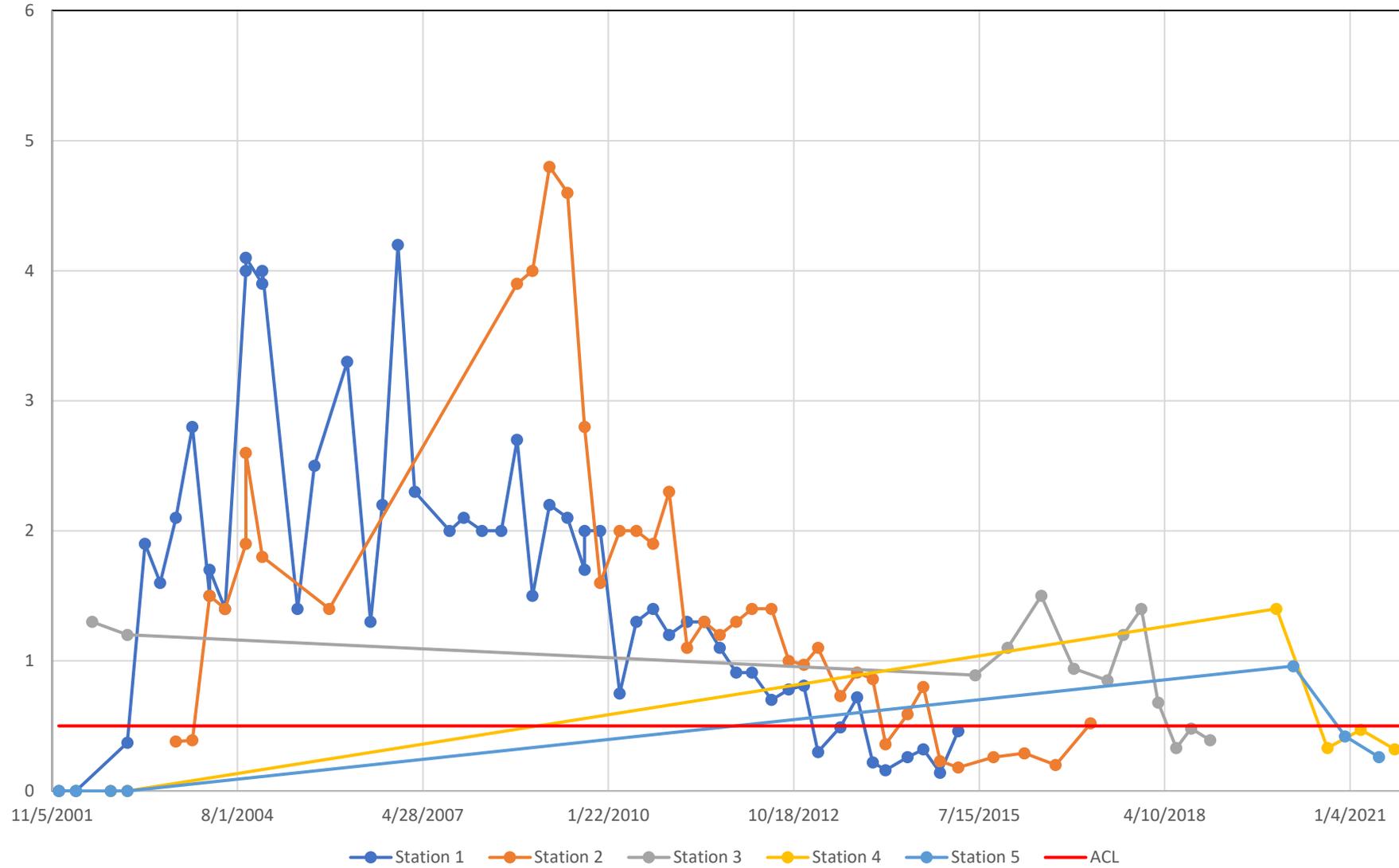
- 3Q2021 Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L**
- CT plume extent (0.5 µg/L)
- OUCTP A-Aquifer Hydraulic Zone**
- 4
 - 5

CT CONCENTRATIONS
 OPERABLE UNIT CARBON
 TETRACHLORIDE PLUME
 HYDRAULIC ZONE 5
 A-AQUIFER
 Optimization Meeting
 Former Fort Ord, California

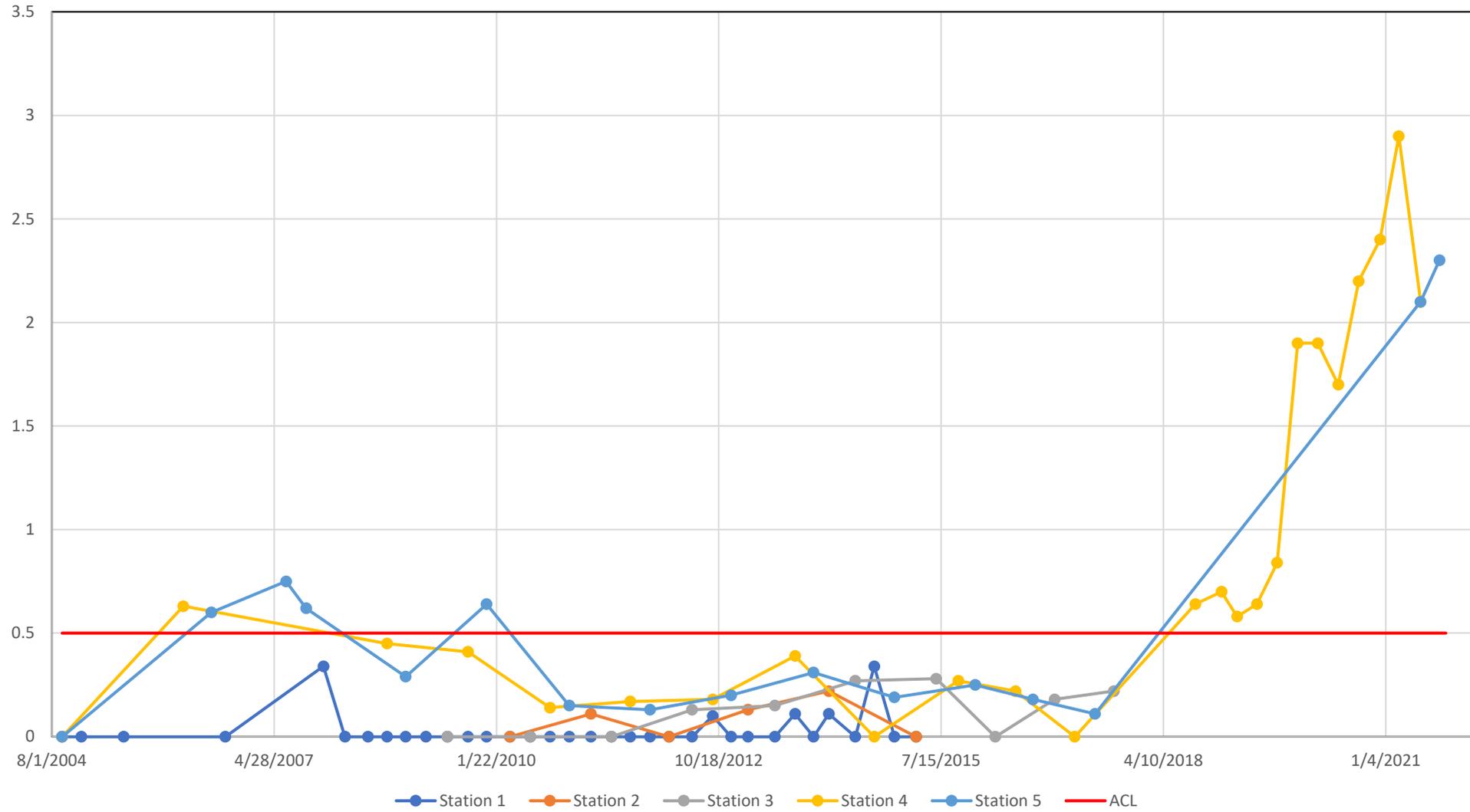
CT Shallow Stations: City of Marina HZ 5



MW-BW-49-A CT



MW-BW-75-A



MW-BW-80-A

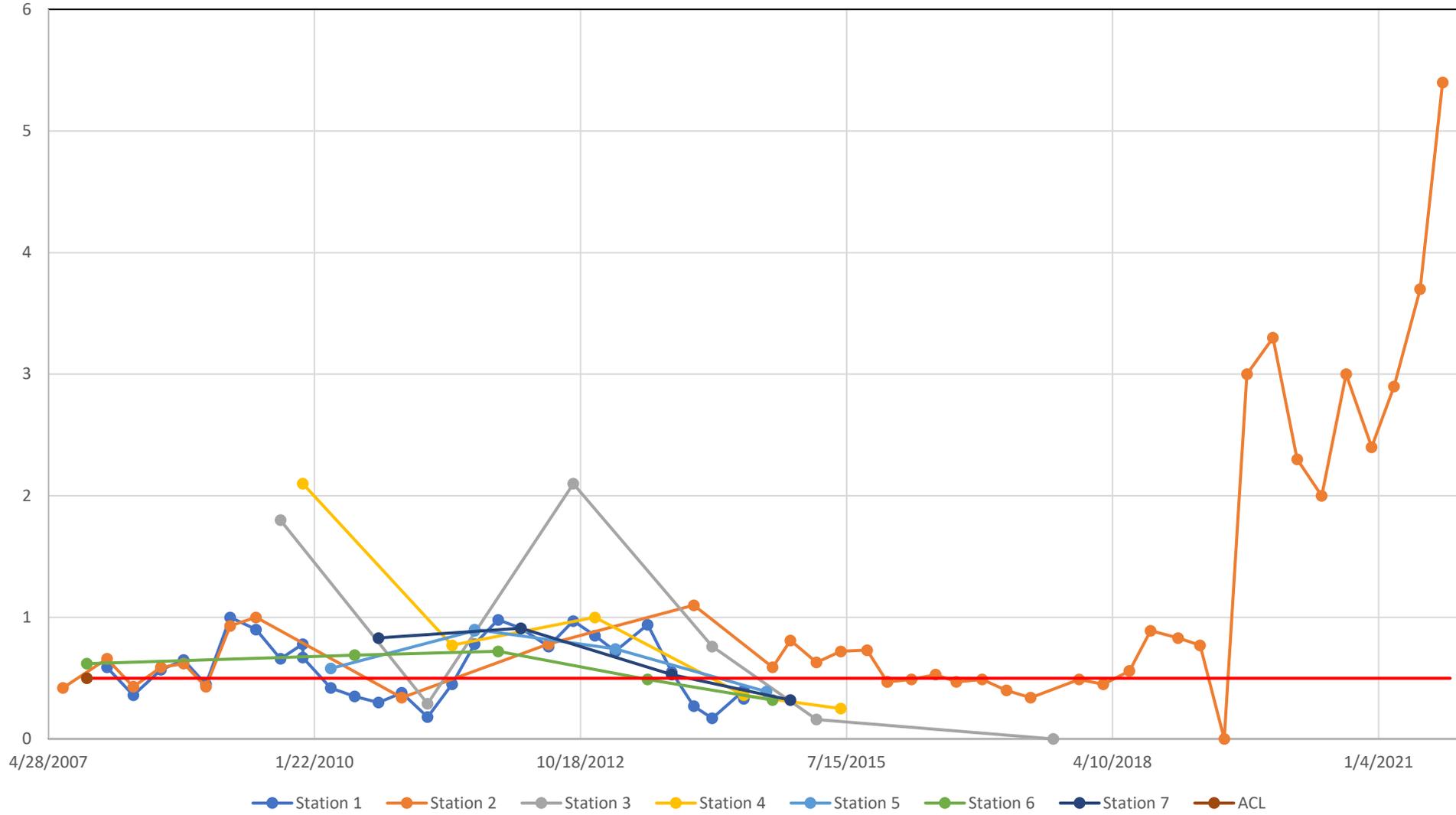


Table D1. QAPP Sampling Frequency Recommended Changes

Well ID	Current Schedule	Proposed Schedule	Trends Increasing?	Last time above CT ACL	Last time Sampled	Boundary Well for Plume	2021-3Q CT Concentration (µg/L)	Figure Number	Graph Number
A-Aquifer									
EISB-EW-03	D	R	N/A	2008-2Q	2017-3Q	N/A	N/A	35	N/A
EISB-MW-01	A	D	No	2011-4Q	2021-3Q	No	0.36 J	35	D1
EISB-MW-04	D	R	N/A	2013-2Q	2017-3Q	N/A	N/A	35	N/A
EW-BW-92-A	D	R	N/A	2009-4Q	2014-4Q	N/A	N/A	35	N/A
EW-BW-93-A	D	R	N/A	2009-4Q	2016-3Q	N/A	N/A	35	N/A
EW-BW-100-A	D	R	N/A	2010-4Q	2015-4Q	N/A	N/A	35	N/A
EW-BW-104-A	D	R	N/A	2011-1Q	2017-3Q	N/A	N/A	35	N/A
EW-BW-112-A	D	R	N/A	2010-4Q	2020-3Q	N/A	N/A	35	N/A
EW-BW-126-A	D	R	N/A	2011-3Q	2017-3Q	N/A	N/A	35	N/A
EW-BW-144-A	Q	A	No	2011-1Q	2021-3Q	Yes	ND (0.25)	35	D2
EW-BW-167-A	A	D	No	2017-3Q	2021-3Q	No	ND (0.25)	35	D3
MW-B-12-A	Q	A	No	2020-3Q	2021-3Q	No	0.23 J	35	D4
MW-BW-42-A	A	D	No	2014-4Q	2021-3Q	No	ND (0.25)	35	D5
MW-BW-49-A	Q	A	No	2020-1Q	2021-3Q	No	0.32 J	35	D6
MW-BW-56-A	Q	A	No	2019-3Q	2021-3Q	Yes	0.14 J	35	D7
MW-BW-58-A	Q	A	No	2020-3Q	2021-3Q	Yes	0.16 J	35	D8
MW-BW-86-A	A	D	No	2017-3Q	2021-3Q	No	0.16 J	35	D9
Upper 180-Foot Aquifer									
MP-BW-37-193	D	R	N/A	Never	2008-3Q	N/A	N/A	36	N/A
MP-BW-41-202	D	R	N/A	2013-1Q	2016-3Q	N/A	N/A	36	N/A
MP-BW-41-256	D	R	N/A	Never	2009-2Q	N/A	N/A	36	N/A
MP-BW-42-195	D	R	N/A	Never	2008-3Q	N/A	N/A	36	N/A
MP-BW-42-235	D	R	N/A	2015-2Q	2018-3Q	N/A	N/A	36	N/A
MP-BW-46-185	D	R	N/A	2007-2Q	2019-2Q	N/A	N/A	36	N/A
MP-BW-46-200	D	R	N/A	2010-1Q	2015-3Q	N/A	N/A	36	N/A
MP-BW-46-215	D	R	N/A	2005-2Q	2015-3Q	N/A	N/A	36	N/A
MW-BW-02-180	A	D	No	Never	2021-3Q	No	ND (0.25)	36	D10
Lower 180-Foot Aquifer									
MCWD-08-A	D	R	N/A	Never	2017-3Q	N/A	N/A	37	N/A
MP-BW-30-317	D	R	N/A	Never	2017-3Q	N/A	N/A	37	N/A
MP-BW-30-342	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-30-467	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-30-537	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-31-292	D	R	N/A	2015-1Q	2016-1Q	N/A	N/A	37	N/A
MP-BW-31-332	D	R	N/A	2013-4Q	2015-2Q	N/A	N/A	37	N/A
MP-BW-31-362	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-31-457	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-31-522	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-32-332	D	R	N/A	Never	2015-3Q	N/A	N/A	37	N/A
MP-BW-32-366	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-32-472	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-32-522	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A

Table D1. QAPP Sampling Frequency Recommended Changes

Well ID	Current Schedule	Proposed Schedule	Trends Increasing?	Last time above CT ACL	Last time Sampled	Boundary Well for Plume	2021-3Q CT Concentration (µg/L)	Figure Number	Graph Number
MP-BW-33-317	D	R	N/A	Never	2011-3Q	N/A	N/A	37	N/A
MP-BW-33-397	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-34-292	D	R	N/A	2004-4Q	2014-3Q	N/A	N/A	37	N/A
MP-BW-34-357	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-34-492	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-34-537	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-35-312	D	R	N/A	2011-4Q	2017-3Q	N/A	N/A	37	N/A
MP-BW-35-366	D	R	N/A	2012-1Q	2016-3Q	N/A	N/A	37	N/A
MP-BW-35-467	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-35-527	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-35-562	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-37-303	D	R	N/A	Never	2013-3Q	N/A	N/A	37	N/A
MP-BW-37-328	D	R	N/A	2012-3Q	2018-3Q	N/A	N/A	37	N/A
MP-BW-37-398	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-37-460	D	R	N/A	Never	2007-3Q	N/A	N/A	37	N/A
MP-BW-38-327	D	R	N/A	Never	2014-3Q	N/A	N/A	37	N/A
MP-BW-38-341	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-38-368	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-38-418	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-39-310	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-39-350	D	R	N/A	Never	2016-3Q	N/A	N/A	37	N/A
MP-BW-39-395	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-40-333	D	R	N/A	Never	2013-3Q	N/A	N/A	37	N/A
MP-BW-40-375	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-40-400	D	R	N/A	Never	2008-3Q	N/A	N/A	37	N/A
MP-BW-41-286	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-41-396	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-42-295	D	R	N/A	Never	2015-3Q	N/A	N/A	37	N/A
MP-BW-42-314	D	R	N/A	Never	2015-3Q	N/A	N/A	37	N/A
MP-BW-42-400	D	R	N/A	Never	2009-2Q	N/A	N/A	37	N/A
MP-BW-49-336	D	R	N/A	Never	2017-3Q	N/A	N/A	37	N/A
MP-BW-50-289	D	R	N/A	Never	2015-3Q	N/A	N/A	37	N/A
MP-BW-50-309	D	R	N/A	Never	2015-3Q	N/A	N/A	37	N/A
MP-BW-50-359	D	R	N/A	Never	2017-3Q	N/A	N/A	37	N/A
MP-BW-51-315	D	R	N/A	Never	2015-3Q	N/A	N/A	37	N/A
MP-BW-51-340	D	R	N/A	Never	2016-3Q	N/A	N/A	37	N/A
MP-BW-51-370	D	R	N/A	Never	2017-3Q	N/A	N/A	37	N/A
MP-BW-52-323	D	R	N/A	2015-2Q	2018-3Q	N/A	N/A	37	N/A
MP-BW-52-338	D	R	N/A	Never	2016-3Q	N/A	N/A	37	N/A
MP-BW-52-388	D	R	N/A	Never	2016-3Q	N/A	N/A	37	N/A
MP-BW-52-408	D	R	N/A	Never	2014-3Q	N/A	N/A	37	N/A
MW-BW-03-400	D	R	N/A	Never	2010-3Q	N/A	N/A	37	N/A
MW-OU2-28-400	D	R	N/A	Never	2019-2Q	N/A	N/A	37	N/A

Table D1. QAPP Sampling Frequency Recommended Changes

Well ID	Current Schedule	Proposed Schedule	Trends Increasing?	Last time above CT ACL	Last time Sampled	Boundary Well for Plume	2021-3Q CT Concentration (µg/L)	Figure Number	Graph Number
MW-OU2-68-180	R	X	N/A	Never	2003-1Q	N/A	N/A	37	N/A
MW-OU2-71-180	D	R	N/A	Never	2003-2Q	N/A	N/A	37	N/A

Notes:

Results in gray are not detected concentrations (result reported as <limit of detection [LOD]).

Acronyms and Abbreviations:

µg/L: micrograms per liter

A: annual sampling

ACL: aquifer cleanup level

CT: carbon tetrachloride

J: Laboratory qualifier, estimated result between the detection limit (DL) and the limit of quantification (LOQ) with a possible high (+) or low (-) bias.

D: depth-to-water only

N/A: not applicable

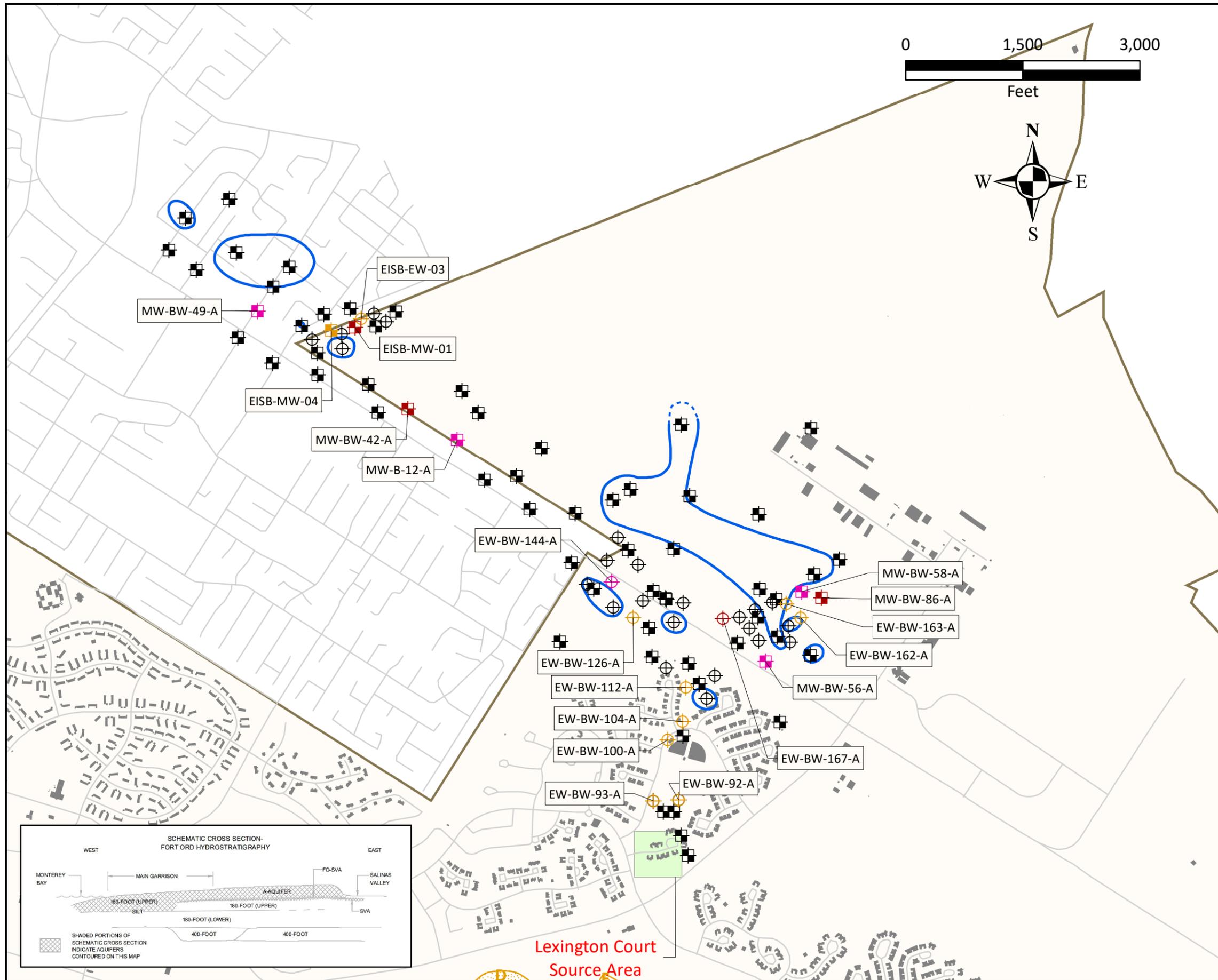
ND: not detected above the LOD

Nearby: other adjacent well

Q: quarterly sampling

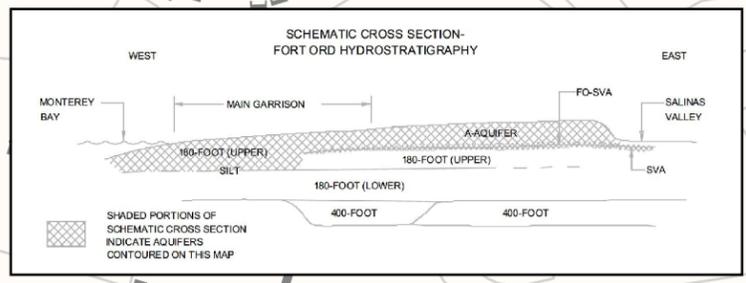
R: remove from QAPP, not sampled and depth to water not needed

X: recommend decommission



EXPLANATION

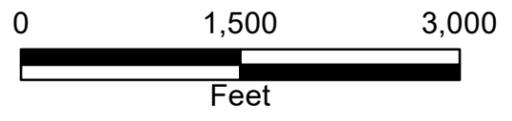
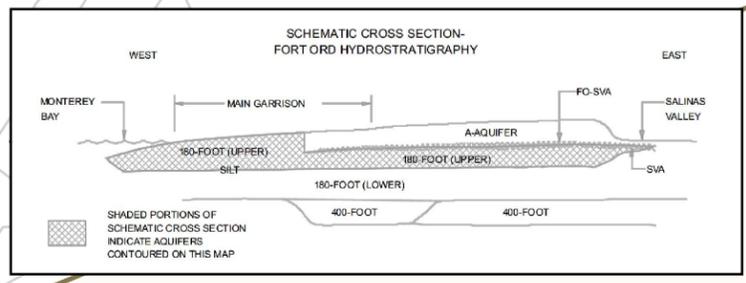
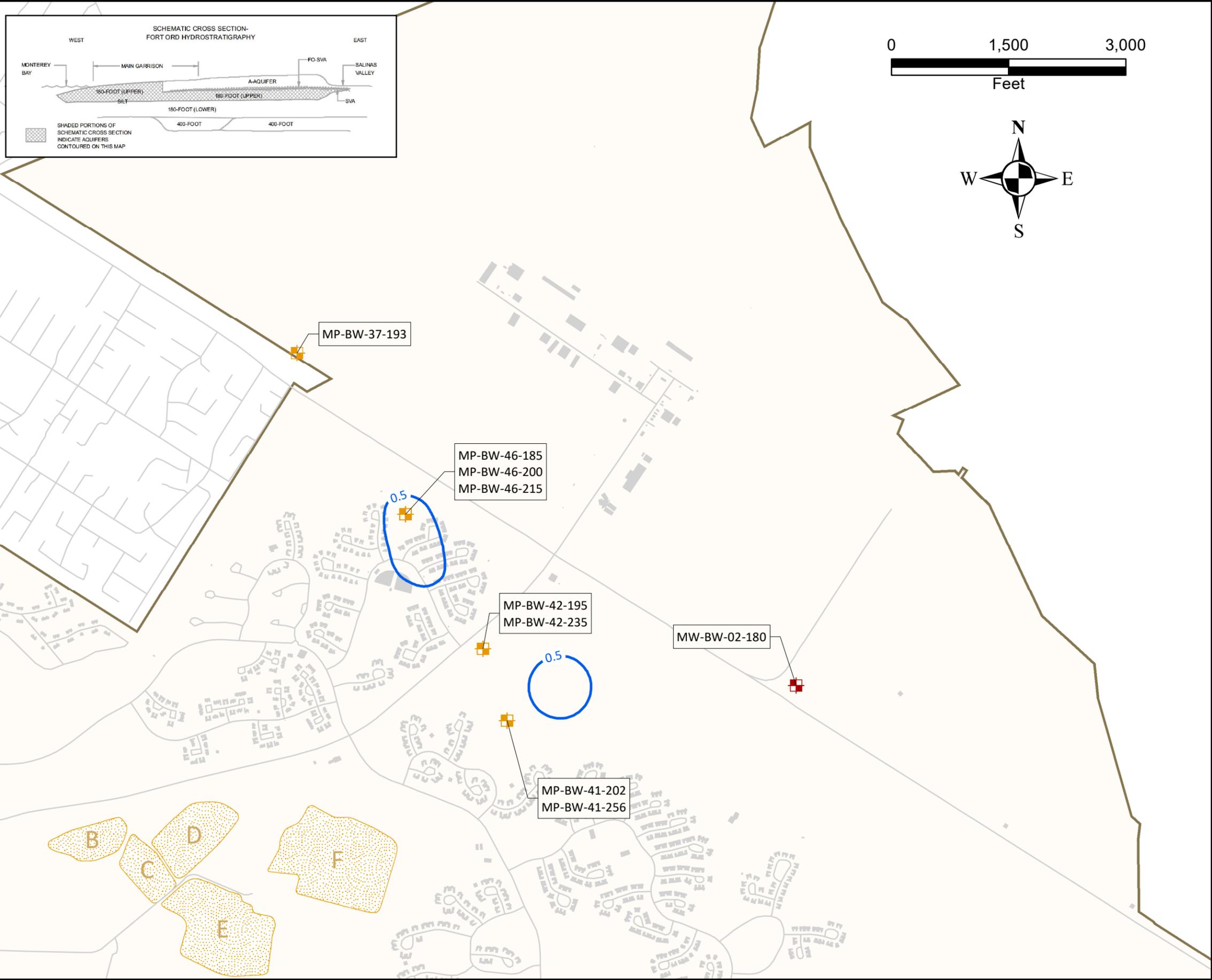
- Roads
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Lexington Court source area
- Former Fort Ord boundary
- Well Type and Recommendation**
- ⊕ Extraction well: recommend annual monitoring
- ⊕ Extraction well: recommend removal from monitoring program
- ⊕ Extraction well: recommend removal from QAPP DTW measurements not needed
- Monitoring well: recommend annual monitoring
- Monitoring well: recommend removal from sampling program
- Monitoring well: recommend removal from QAPP DTW measurements not needed
- ⊕ Extraction well: no change recommended
- Monitoring well: no change recommended
- 3Q2021 Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.**
- 0.5 — Carbon tetrachloride (CT) plume extent
- 0.5 - - - - Estimated CT plume extent



Lexington Court
Source Area

RECOMMENDED A - AQUIFER
MONITORING WELL CHANGES
OPERABLE UNIT CARBON TETRACHLORIDE PLUME
Fourth Quarter 2020 - Third Quarter 2021
Groundwater Monitoring Report
Former Fort Ord, California

<i>Ahtna</i>	Date: 11/1/2021	Figure: 35
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EXPLANATION

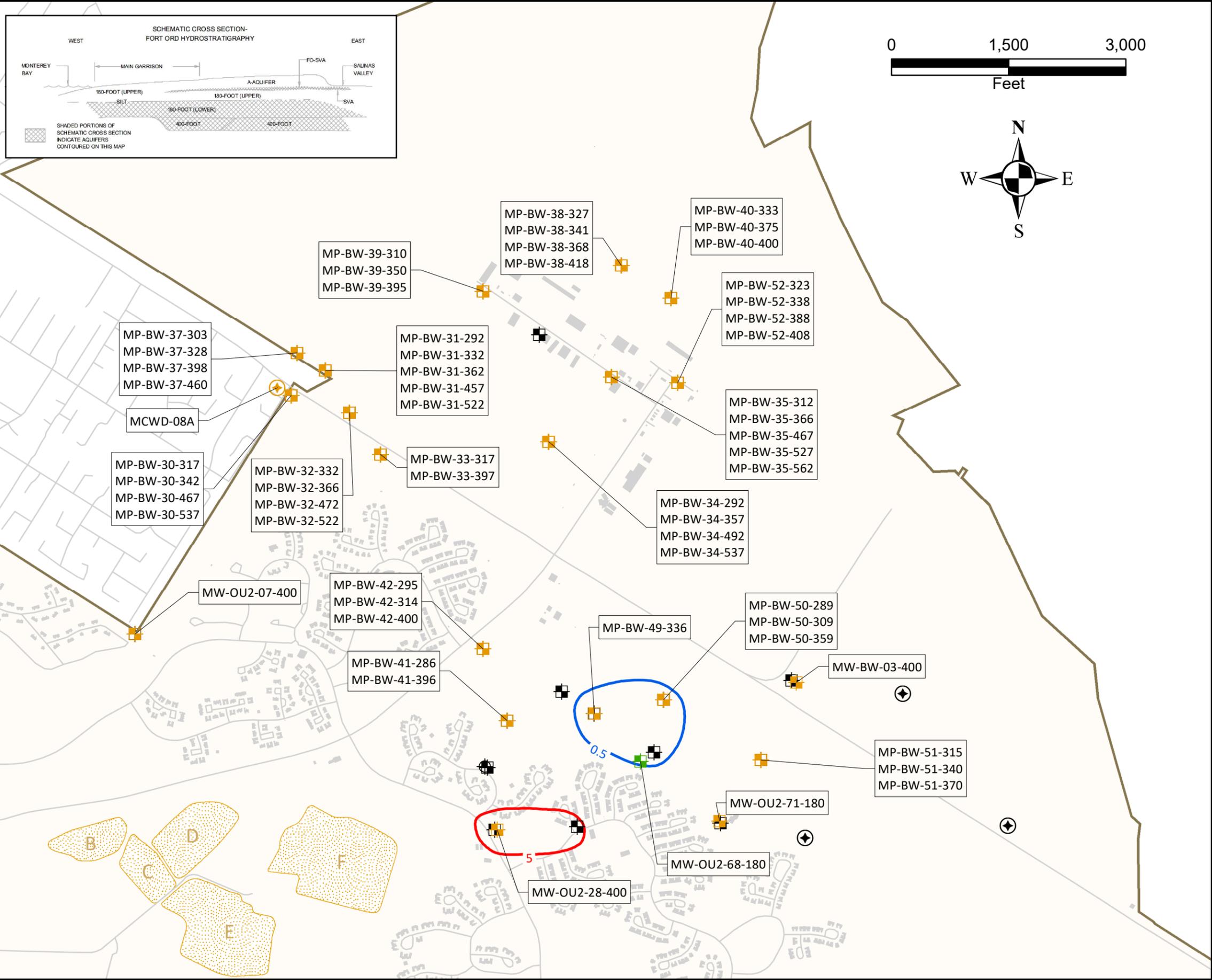
- Roads
- Facilities
- ▨ Approximate extent of landfill areas (Areas B through F)
- ▭ Former Fort Ord boundary

- Well Type and Recommendation**
- Monitoring well: recommend removal from monitoring program
 - Monitoring well: recommend removal from QAPP DTW measurements not needed
 - ⊕ Extraction well: no change recommended
 - Monitoring well: no change recommended

3Q2021 Chemical of Concern (COC) Aquifer Cleanup Level (ACL) exceedance contour in µg/L.

0.5 — Carbon tetrachloride (CT) plume extent

RECOMMENDED UPPER 180-FOOT AQUIFER MONITORING WELL CHANGES
 OPERABLE UNIT CARBON TETRACHLORIDE
 Fourth Quarter 2020 - Third Quarter 2021
 Groundwater Monitoring Report
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EXPLANATION

- Roads
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary

Well Type and Recommendation

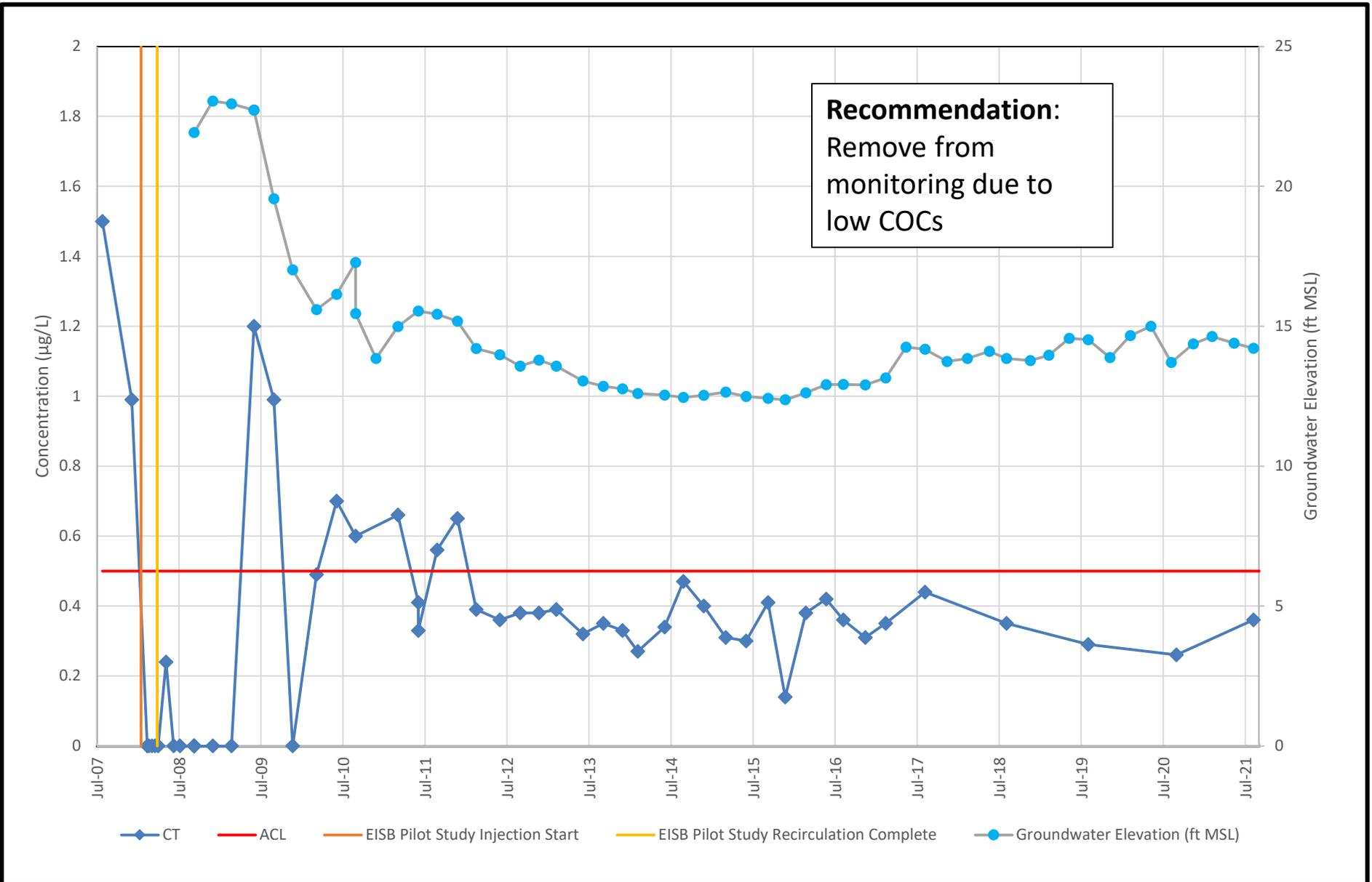
- Marina Coast inactive supply well: recommend removal from QAPP DTW measurements not needed
- Monitoring well: recommend removal from QAPP DTW measurements not needed
- Monitoring well: recommend decommissioning
- Marina Coast Active supply well: no change recommended
- Extraction well: no change recommended
- Monitoring well: no change recommended

3Q2021 Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in

- 0.5 Carbon tetrachloride (CT) plume extent
- 5.0 Trichloroethene (TCE) plume extent

RECOMMENDED LOWER 180-FOOT AQUIFER MONITORING WELL CHANGES OPERABLE UNIT CARBON TETRACHLORIDE PLUME Fourth Quarter 2020 - Third Quarter 2021 Groundwater Monitoring Report Former Fort Ord, California

Ahtna Date: 11/1/2021 Figure: 37

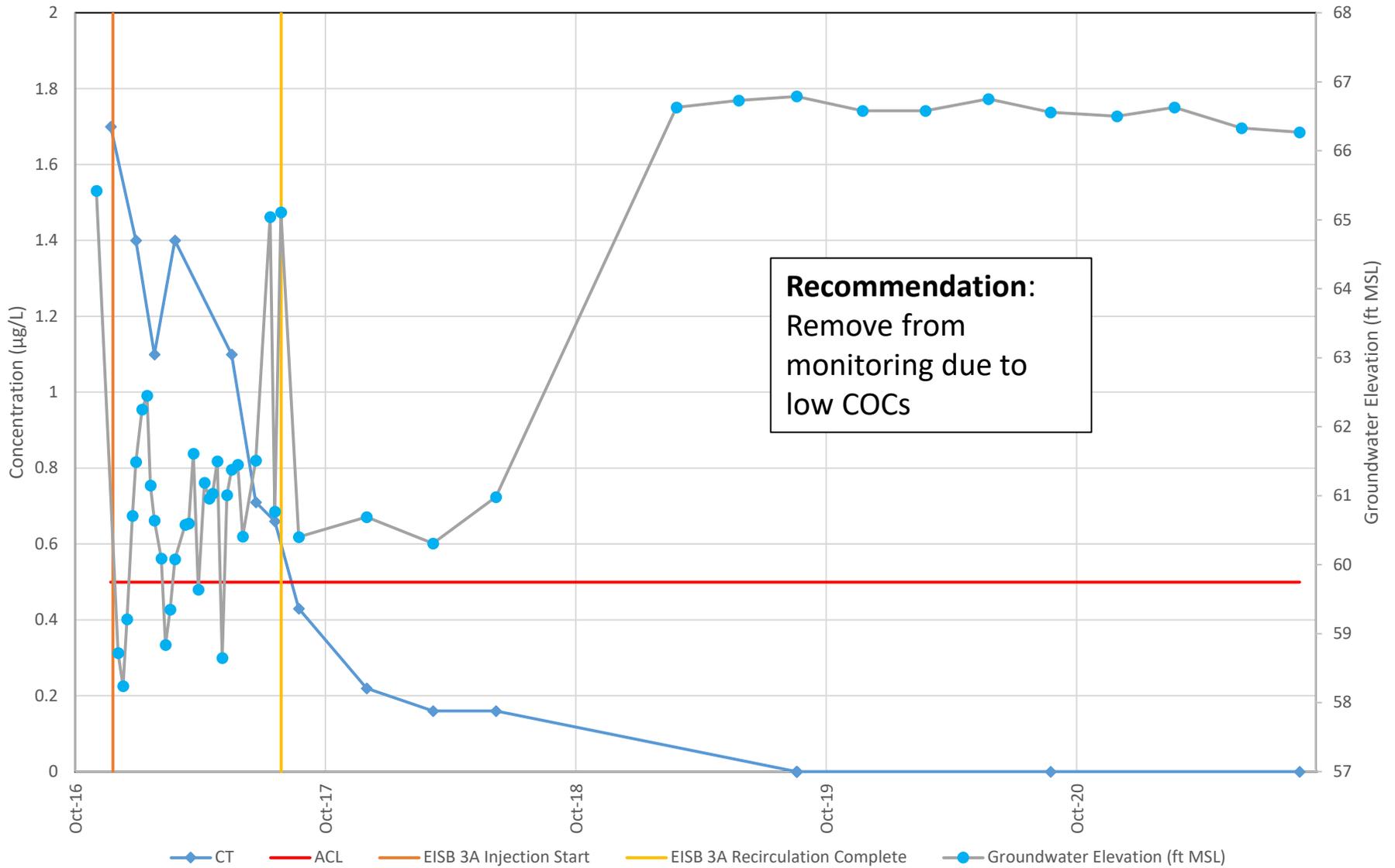


EISB-MW-01

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D1

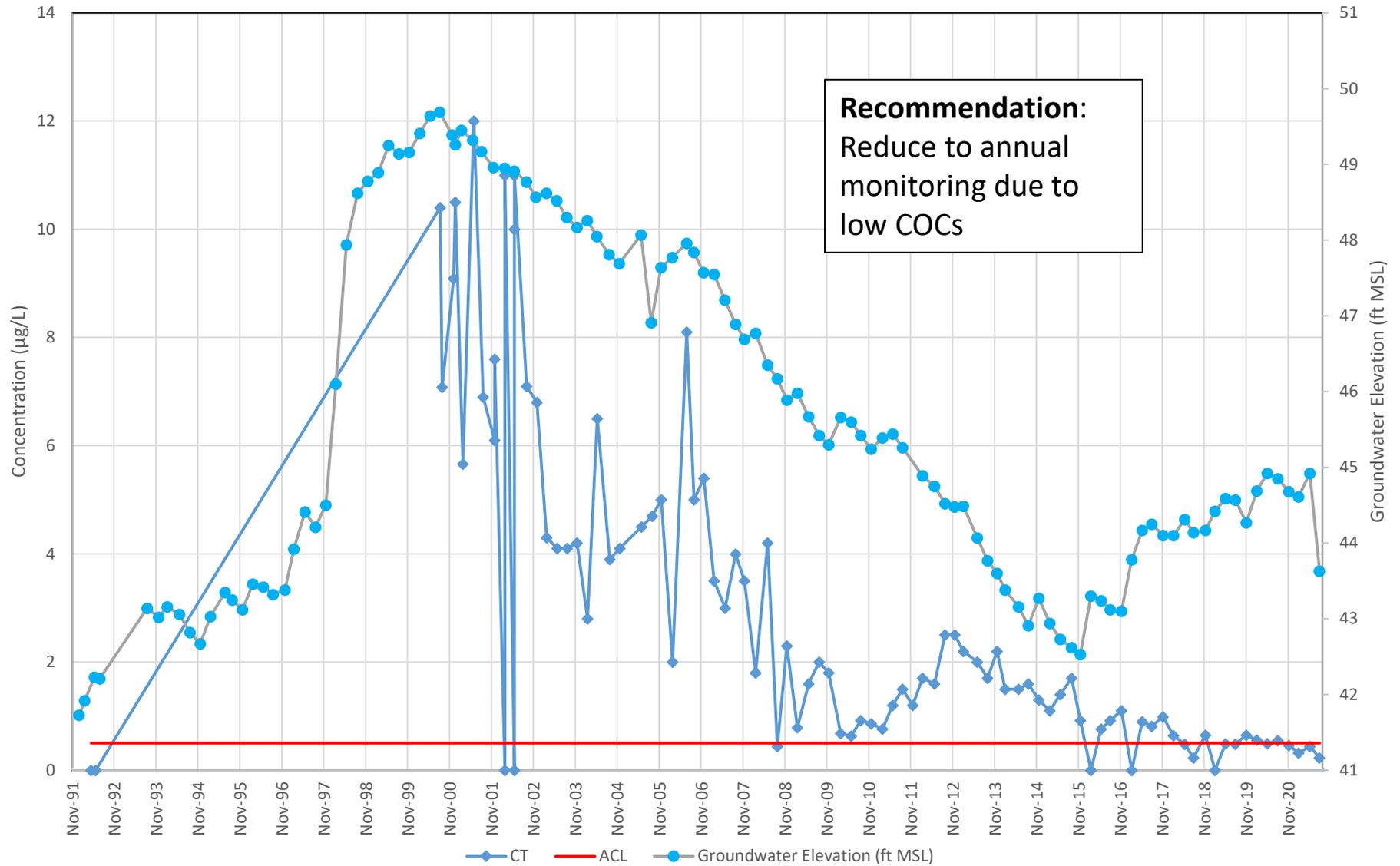


EW-BW-167-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D3

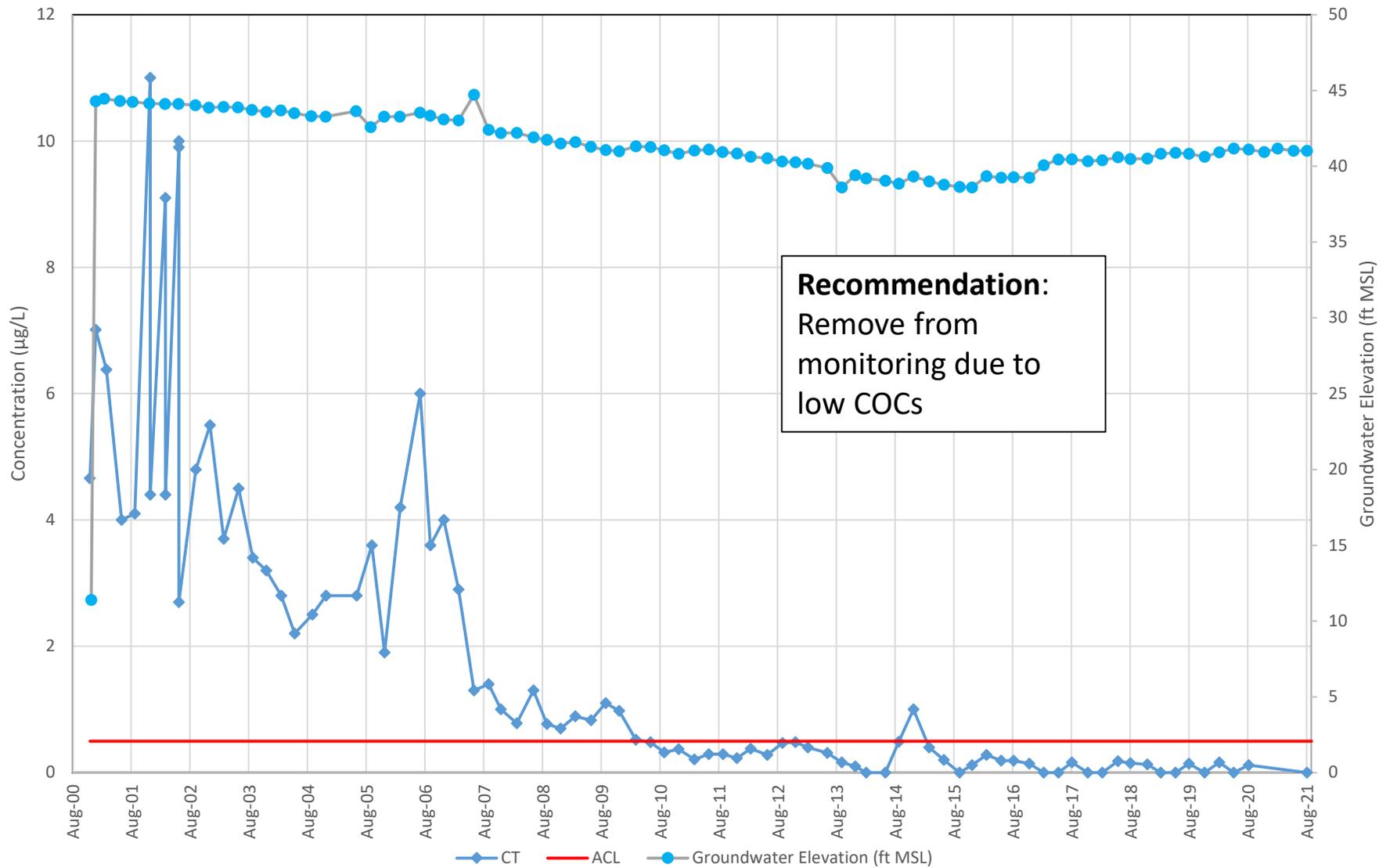


MW-B-12-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D4

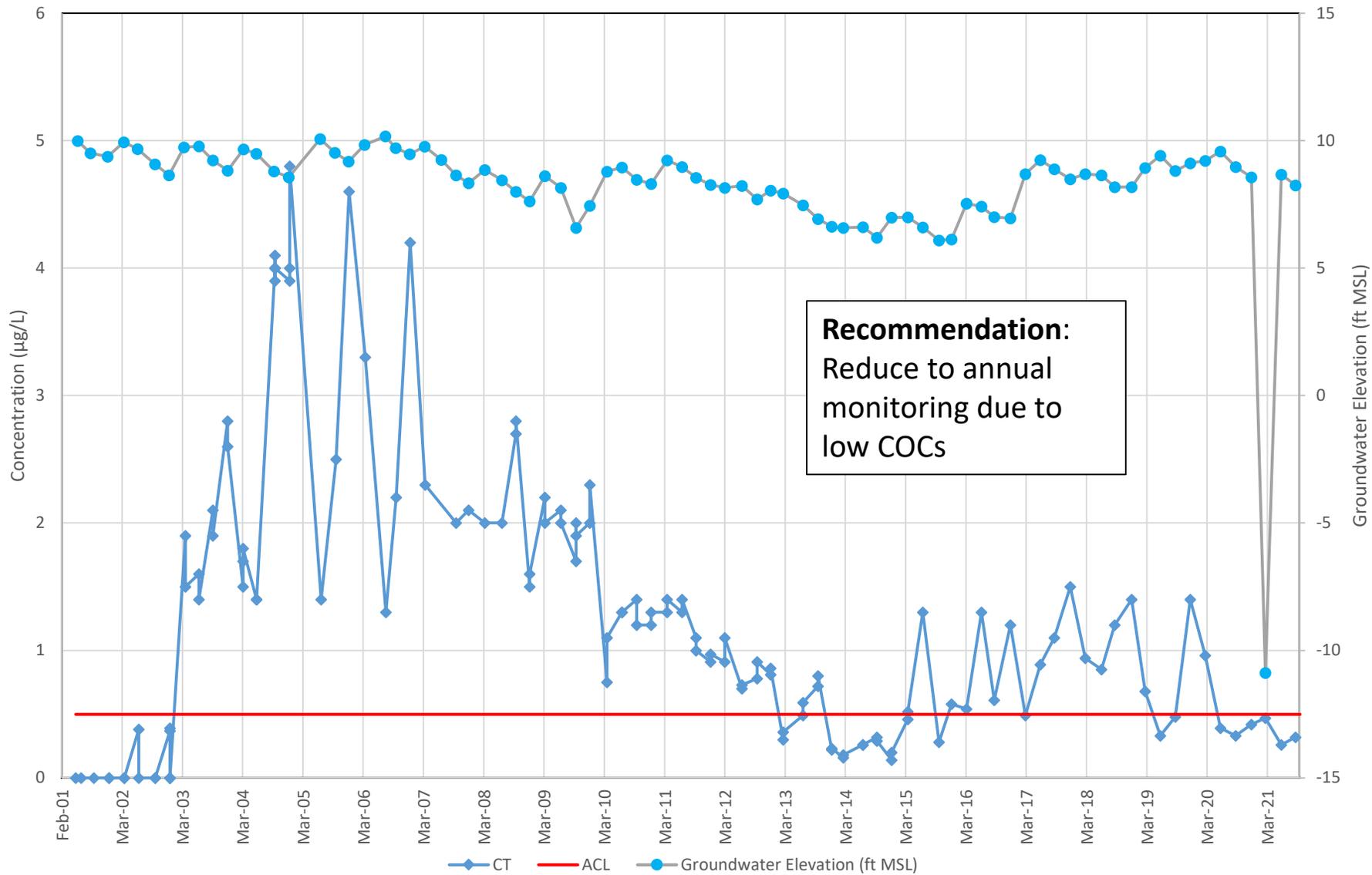


MW-BW-42-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D5

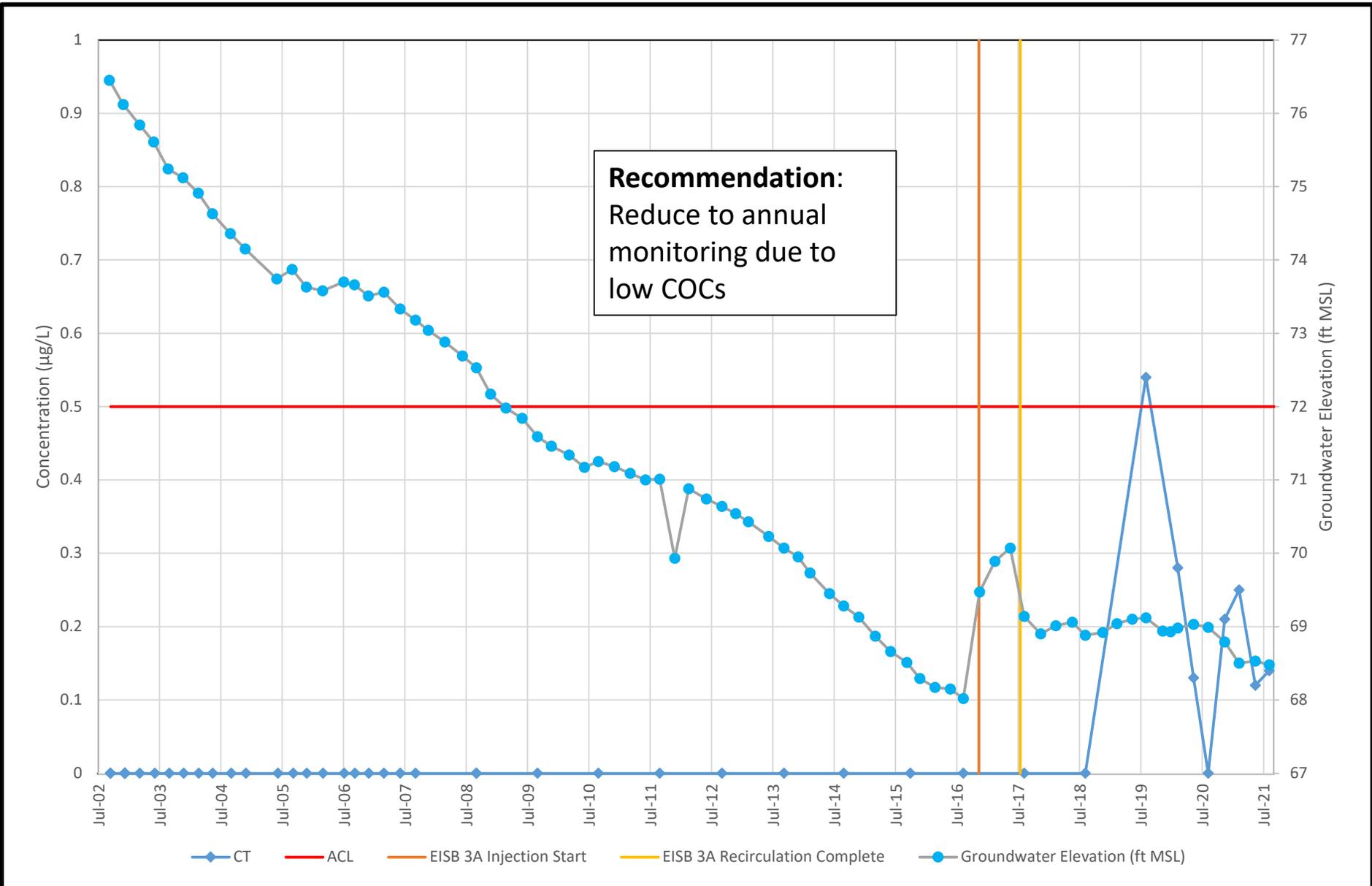


MW-BW-49-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D6

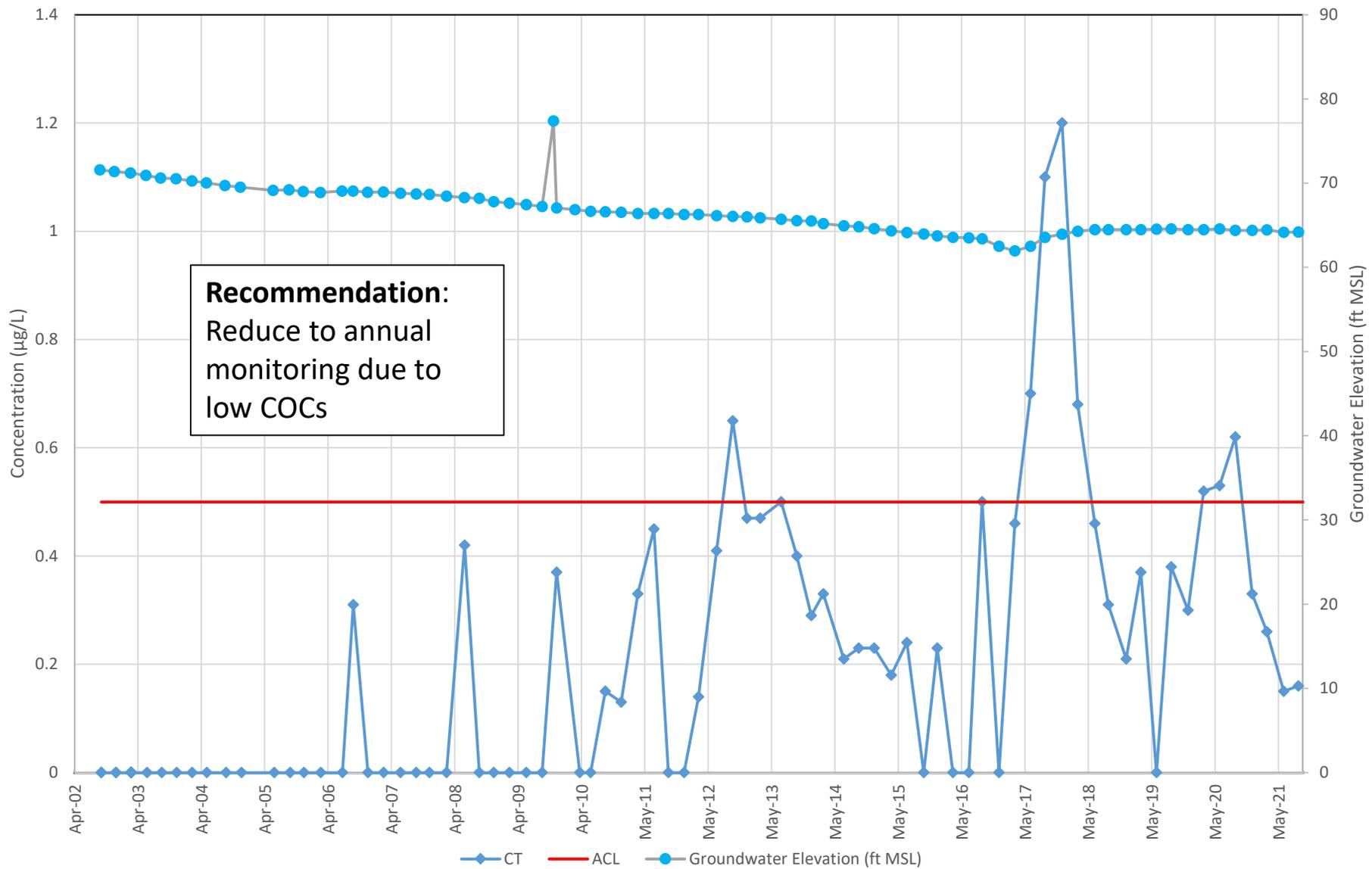


MW-BW-56-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D7

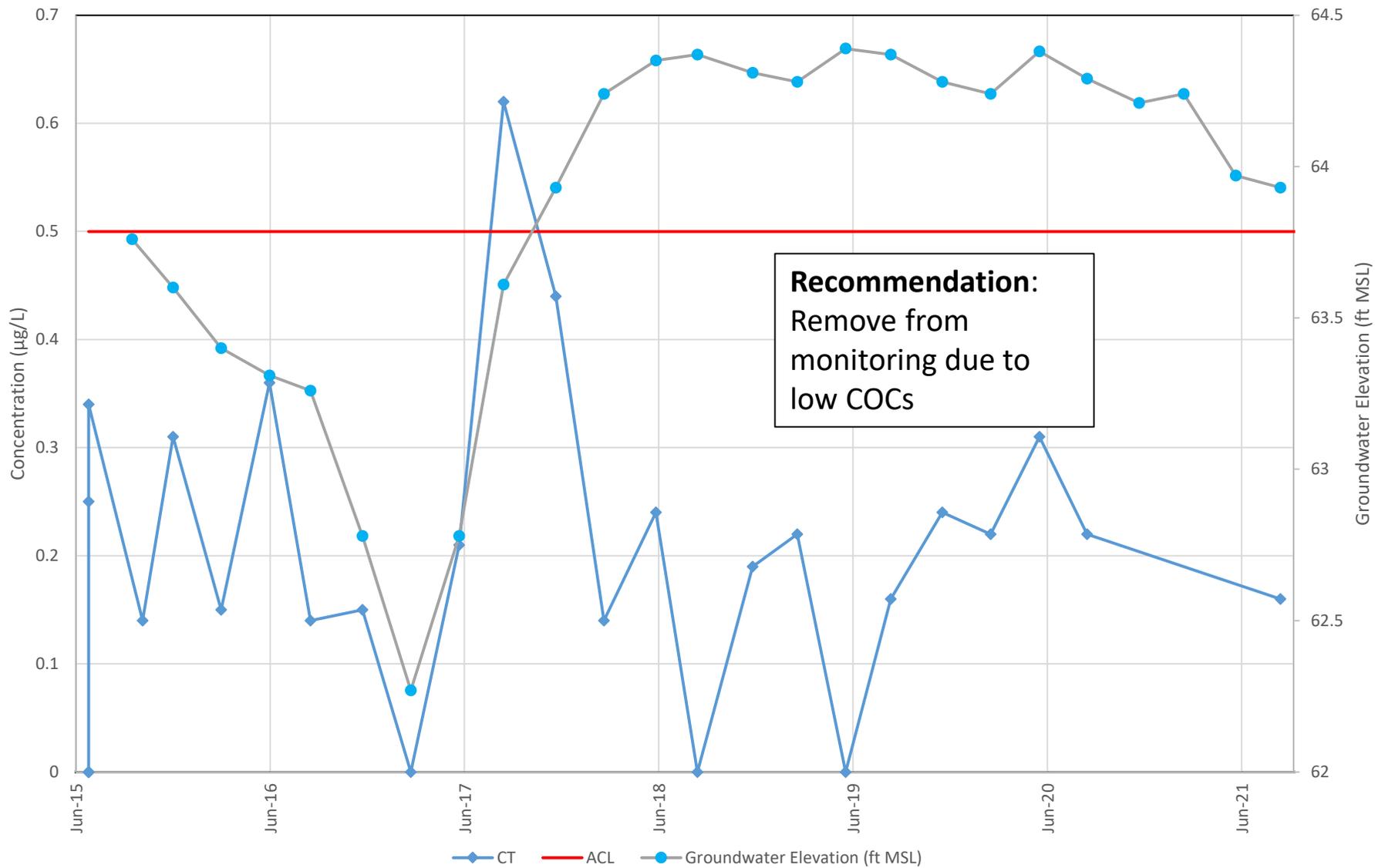


MW-BW-58-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D8

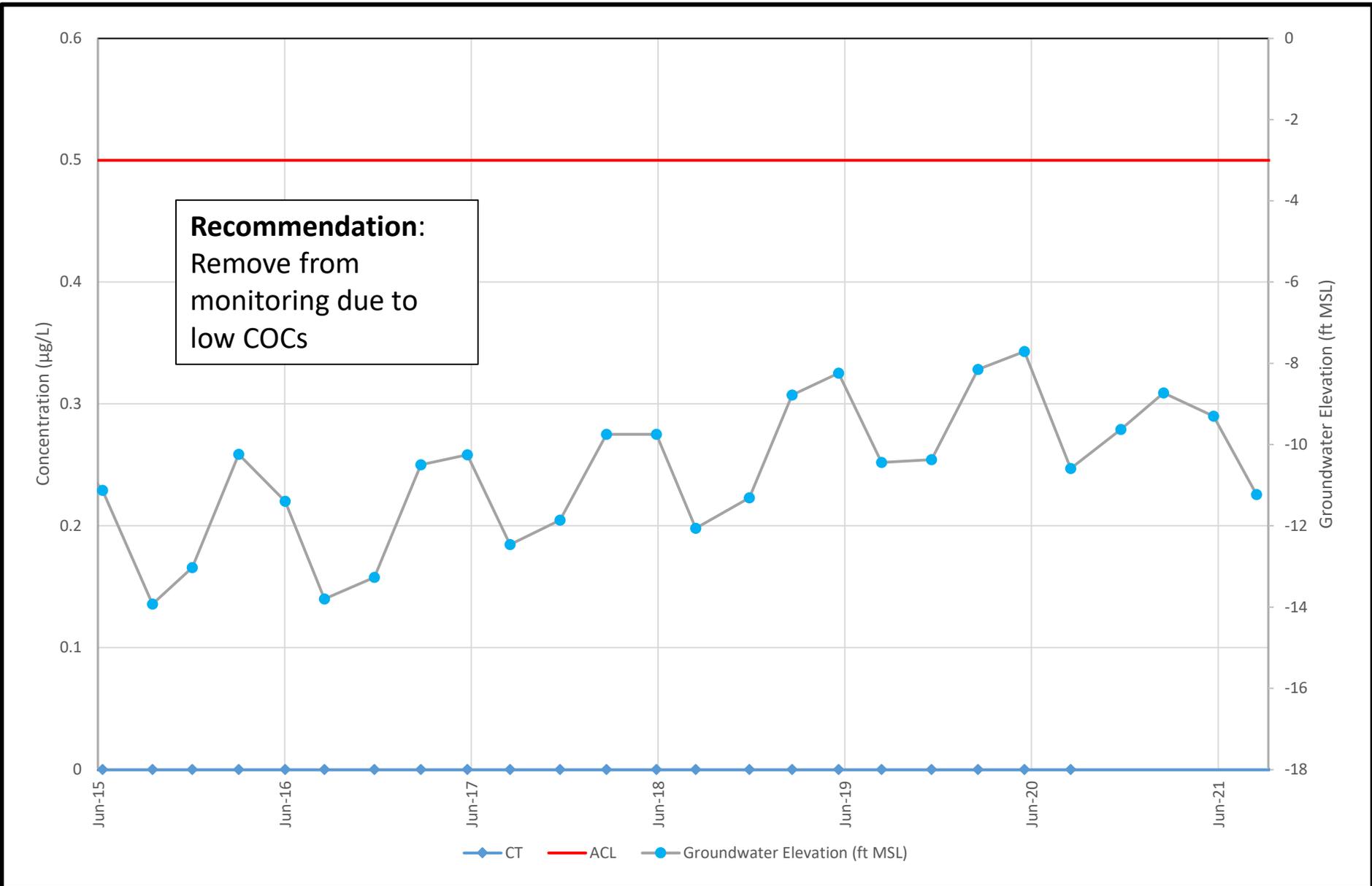


MW-BW-86-A

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D9



MW-BW-02-180

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2020 through Third Quarter 2021
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

D10