

Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status

HTW BCT, April 14, 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)			
			2Q 2020	3Q 2020	4Q 2020	1Q 2021*
ACL:			0.5			
1	1C	EW-BW-109-A	1.2	0.63	0.58	1.4
1	N/A	MW-BW-24-A	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.25)
2	3A	MW-BW-58-A	0.53	0.62	0.33	0.26 J
2	3A	MW-BW-87-A	2.3	1.5	2.1	3.9
2	3A	MW-BW-91-A	0.94	0.97	0.57	1.3
2	N/A	MW-BW-94-AR	0.52	0.64	0.48	0.56
N/A	3A	MW-BW-90-A	1.4	1.9	1.3	1.4
2	3A	EW-BW-160-A	2.1	1.4	1.8	2.1
3	3A	EW-BW-166-A	ND (0.25)	ND (0.25)	0.029 J	ND (0.25)
3	N/A	MW-BW-88-A	1.0	0.44 J	0.74	0.63
3	N/A	MW-BW-93-A	0.23 J	0.33 J	0.28	0.34 J
3	N/A	MW-BW-95-A	1.1	1.2	1.1	1.4

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

January 2021 Key Events

- None.

February 2021 Key Events

- None.

March 2021 Key Events

- March 1-5: First Quarter 2021 Groundwater Monitoring event.

April 2021 Key Events

- None scheduled.

June 2021 Key Events

- June 7-11: Second Quarter 2021 Groundwater Monitoring event.



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

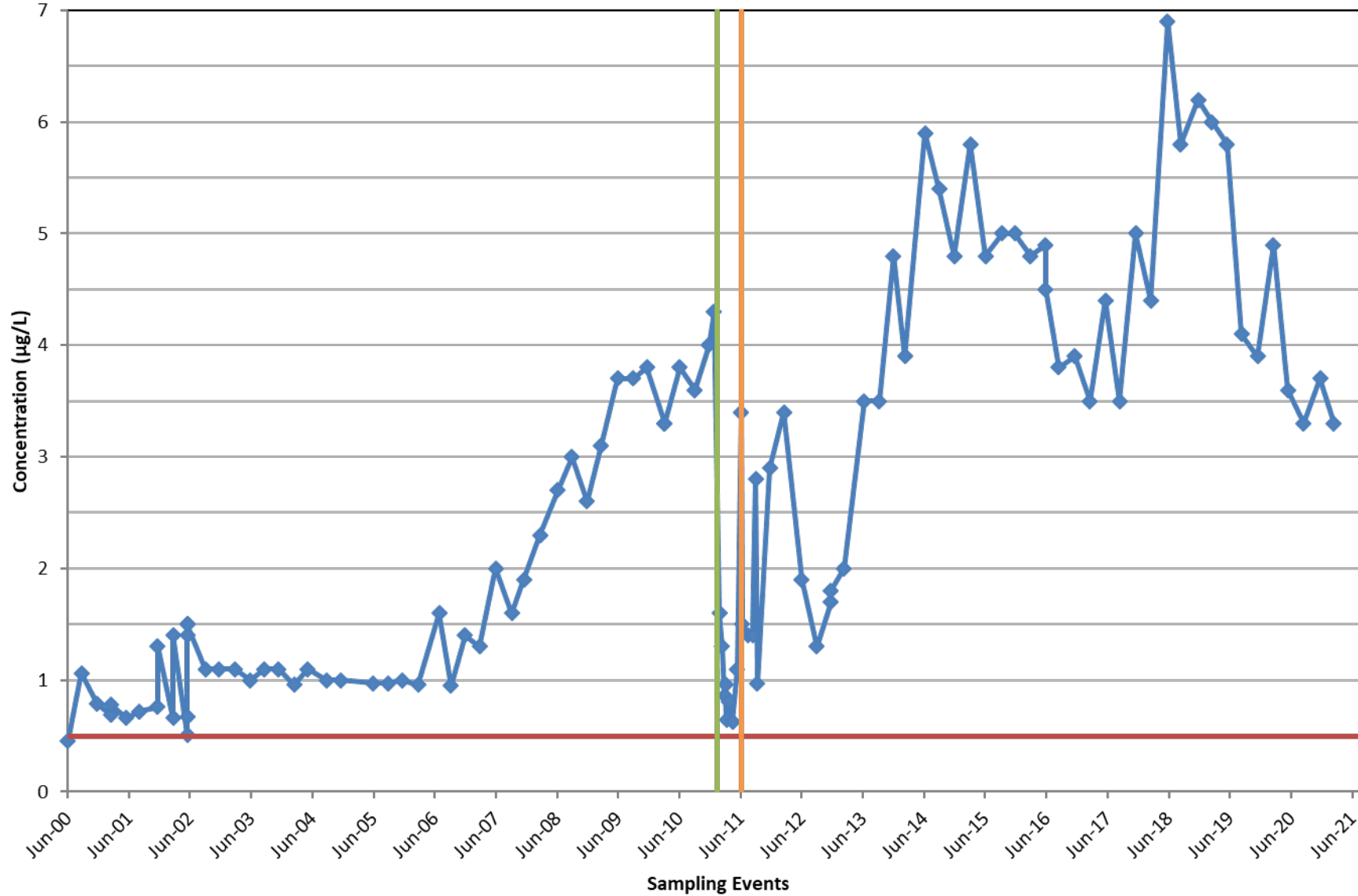
OUCTP Hydraulic Zone ¹	EISB Deployment Area	Well Identification	COC Concentrations (µg/L)			
			2Q 2020	3Q 2020	4Q 2020	1Q 2021*
			CT			
ACL:			0.5			
4	2A	EW-BW-124-A	ND (0.25)	0.33 J	0.41	0.94
4	2A	EW-BW-129-A	2.0	2.2	4.1	4.0
4	2A	EW-BW-140-A	0.28 J	0.27 J	0.48	0.97
4	2A	MW-BW-26-A^	3.6	3.3	3.7	3.3
4	N/A	MW-B-12-A	0.49 J	0.55	0.46	0.32 J
4	2B	MW-B-14-A	0.52	0.49 J	0.55	0.52
4	2B	EW-BW-155-A	0.12 J	0.22 J	0.95	0.11 J
4	N/A	MW-BW-31-A	0.45 J	0.33 J	0.64	0.84
4	N/A	MW-BW-32-A	1.5	1.0	0.90	1.2
4	N/A	MW-BW-35-A	0.12 J	0.20 J	0.095 J	ND (0.25)
4	N/A	MW-BW-36-A	0.21 J	0.71	0.65	0.46 J
4	N/A	MW-BW-42-A	ND (0.25)	0.12 J	NS	NS
4	N/A	MW-BW-89-A	0.66	0.69	0.67	0.73
4	N/A	MW-BW-92-A	0.83	0.64	0.95	1.2
5	Pilot	EISB-EW-01	0.36 J	0.22 J	0.26	0.28 J
5	Pilot	EISB-EW-09	1.2	0.90	1.1	1.1
5	N/A	MW-BW-49-A	0.39 J	0.33 J	0.42	0.47 J
5	N/A	MW-BW-65-A	0.27 J	0.32 J	0.25	0.43 J
5	Pilot	MW-BW-66-A	0.91	0.35 J	0.50	0.53
5	N/A	MW-BW-74-A	ND (0.25) [0.11 J]	ND (0.25) [ND (0.25)]	0.063 J [0.091 J]	0.18 J [0.23 J]
5	N/A	MW-BW-75-A	1.7	2.2	2.4	2.9
5	N/A	MW-BW-78-A	ND (0.25) [0.15 J]	ND (0.25) [0.12 J]	0.11 J [0.22]	ND (0.25) [0.16 J]
5	N/A	MW-BW-80-A	2.0	3.0	2.4	2.9
5	N/A	MW-BW-82-A	1.1	1.2	1.1	1.4

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; ND.
- * Preliminary data
- † Qualified as estimated (J) due to field duplicate imprecision.



MW-BW-26-A



CT ACL EISB 2A Injection Start EISB 2A Recirculation Complete



MW-BW-75-A

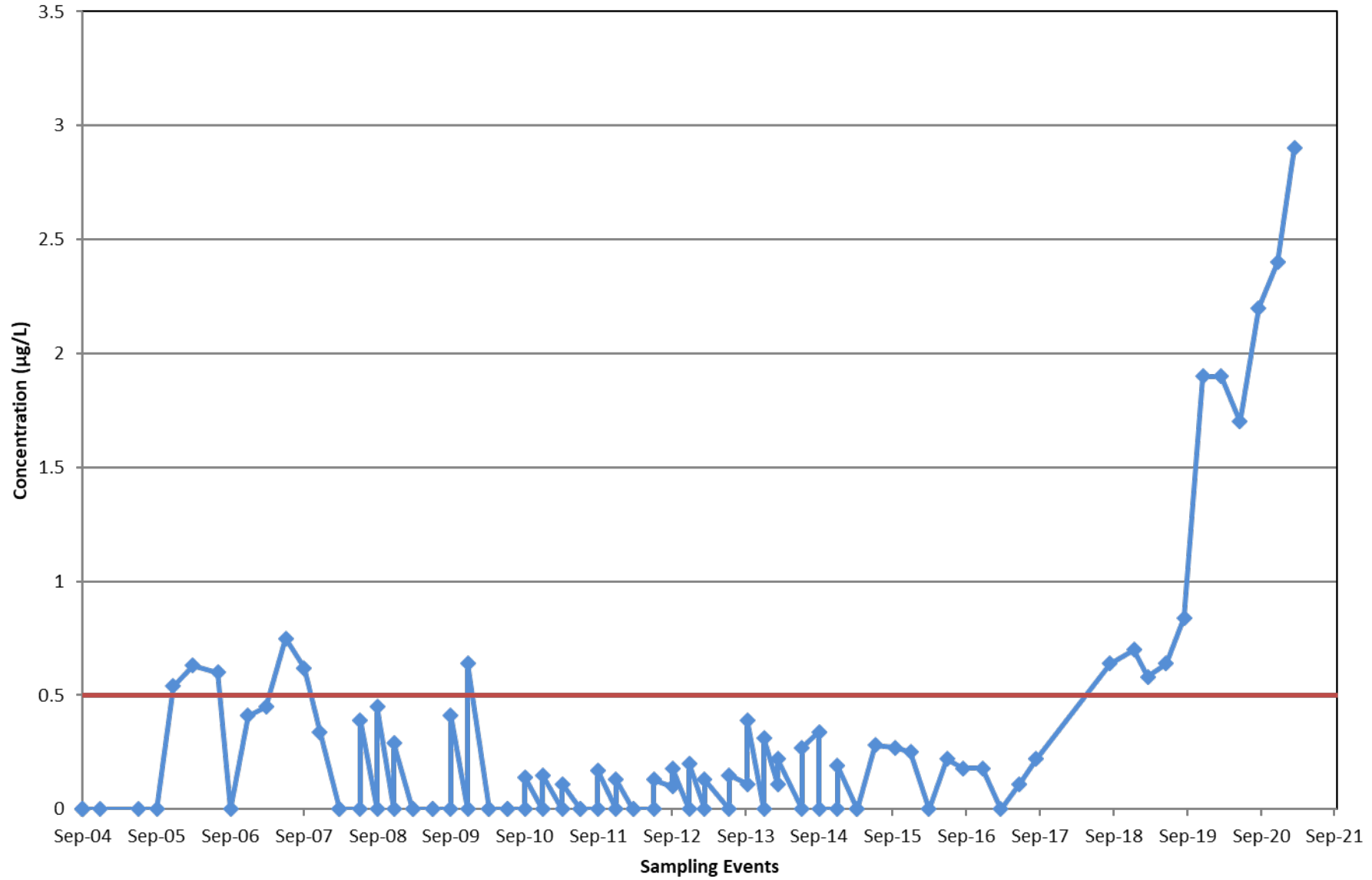


Table 4. OUCTP Upper 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone ¹	Well Identification	CT Concentration (µg/L) ²			
		2Q 2020	3Q 2020	4Q 2020	1Q 2021*
ACL:		0.5			
6	EW-OU2-09-180 ³	ND (0.25)	ND (0.25)	0.025 J	ND (0.25)
6	MP-BW-46-170	4.5	4.0	5.2	6.4
N/A	MW-BW-21-180	0.15	ND (0.25)	0.044 J	0.16 J
N/A	MW-BW-43-180	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.25)
6	MW-BW-52-180	0.62	0.52	0.70	0.67
6	MW-BW-57-180	0.96	0.96	0.82	0.70
6	MW-BW-58-180	ND (0.25)	ND (0.25)	NS	NS
6	MW-OU2-64-180	4.3	6.6	6.8	8.7
6	MW-OU2-67-180 ⁵	ND (0.25)	ND (0.25)	ND (0.025)	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



MP-BW-46-170

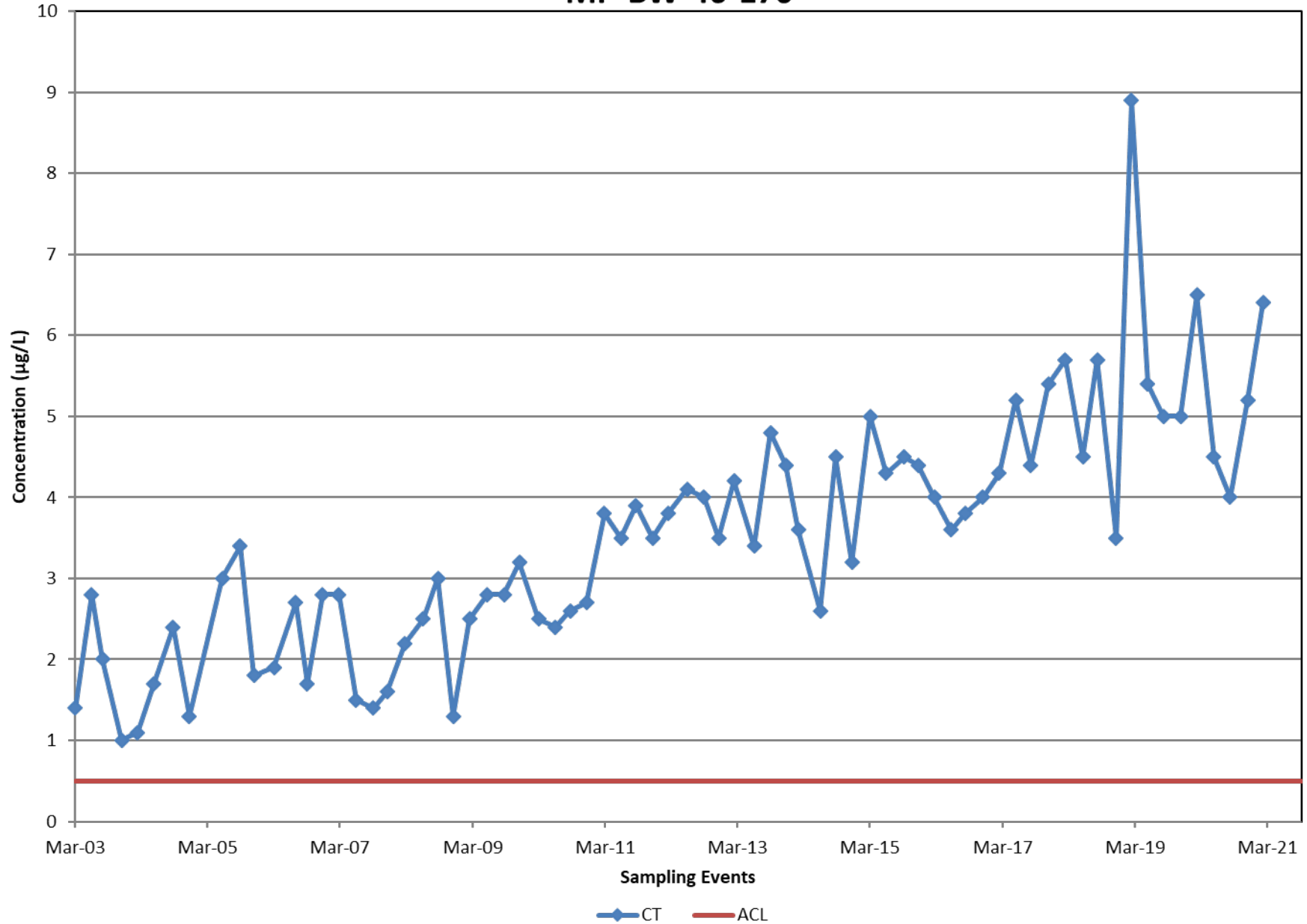


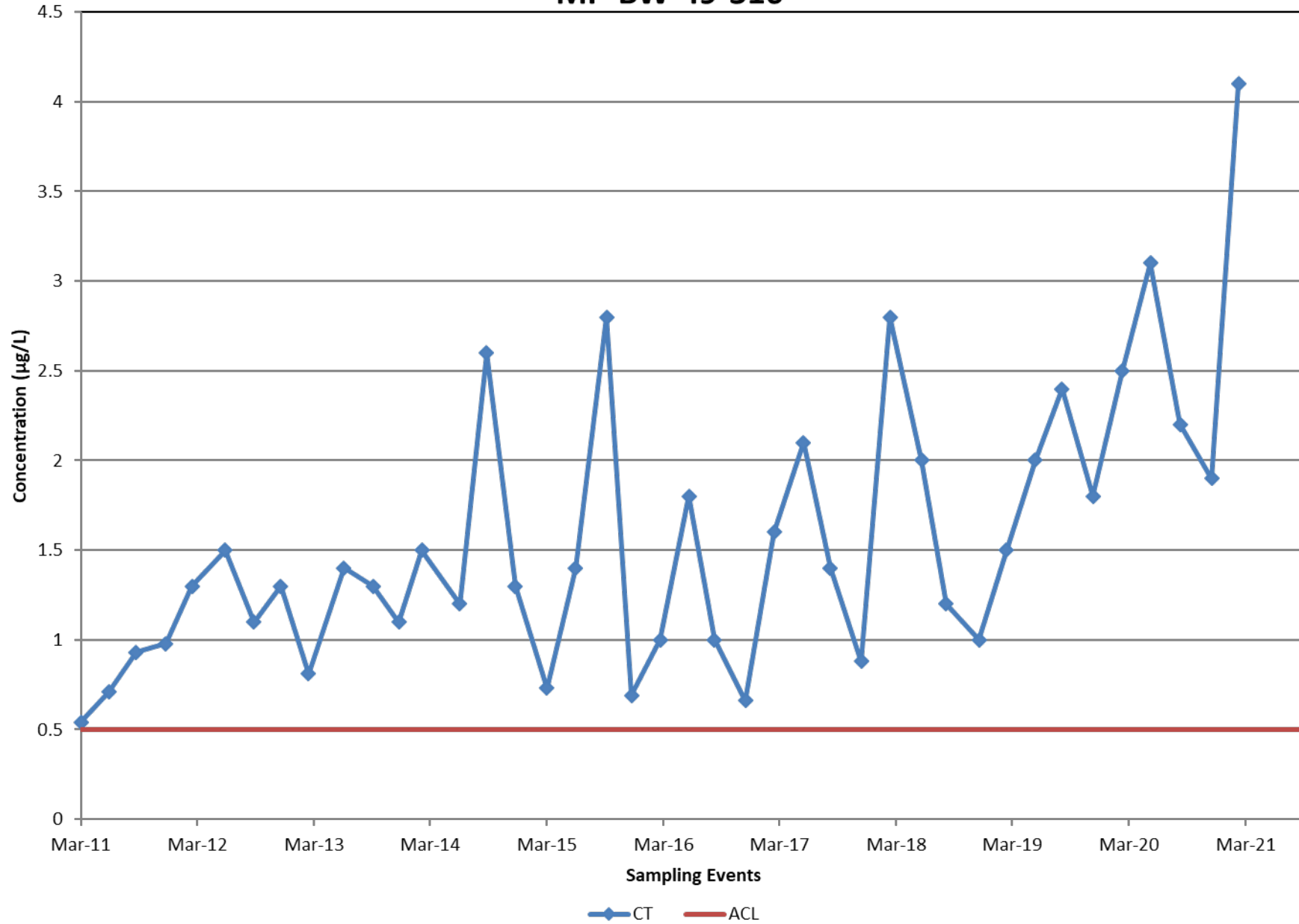
Table 5. OUCTP Lower 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone ¹	Well Identification	Select COC Concentrations (µg/L) ²							
		2Q 2020	3Q 2020	4Q 2020	1Q 2021*	2Q 2020	3Q 2020	4Q 2020	1Q 2021*
		CT				TCE ⁴			
Limit:		ACL 0.5				MCL 5.0			
7	MP-BW-49-316	3.1	2.2	1.9	4.1	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)
7	MP-BW-49-400	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.025)	4.4	3.7	4.0	5.4
7	MP-BW-50-339	1.2	0.95	0.31	0.56	ND (0.25)	ND (0.25)	ND (0.066)	0.23 J
7	MP-BW-50-384	ND (0.25)	ND (0.25)	0.058 J	0.11 J	1.4	1.6	1.6	2.5
7	MP-BW-51-405	0.13 J	0.13 J	0.13 J	0.12 J	1.7	1.3	1.7	1.2
7	MW-OU2-69-180	0.91	1.1	0.96	1.4	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)
8	AIRFIELD	0.44 J	0.30 J	ND (0.025)	0.37 J	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)
9	EW-OU2-07-180	ND (0.25)	ND (0.25)	0.030 J	ND (0.25)	2.8	3.0	3.0	3.6
N/A	FO-29	0.23 J	0.15 J	0.18 J	0.27 J	1.8	1.8	1.7	1.8
N/A	FO-30	0.24 J	0.21 J	0.17 J	0.19 J	0.52	0.45 J	0.38	0.55
N/A	FO-31	0.14 J	0.13 J	0.11 J	0.15 J	0.85	0.84	0.75	0.95
N/A	MP-BW-41-318	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.25)	0.67	ND (0.25)	ND (0.066)	0.59
N/A	MP-BW-41-353	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.025)	1.3	ND (0.25)	ND (0.066)	1.5
9	MW-BW-59-180	0.13 J	0.10 J	0.076 J	0.12 J	10.9	9.8	8.9	9.7
N/A	MW-OU2-72-180	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.25)	1.3	1.1	1.4	1.4
9	MW-OU2-78-180	ND (0.25)	ND (0.25)	ND (0.025)	ND (0.25)	2.0	2.2	2.1	2.5
9	MW-OU2-82-180	ND (0.25)	ND (0.25)	0.041 J	ND (0.25)	3.7	4.5	4.0	4.2

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

MP-BW-49-316



MW-BW-59-180

