

Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status

HTW BCT, October 22, 2020

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 2019	1Q 2020	2Q 2020	3Q 2020*
ACL:			0.5			
1	1C	EW-BW-109-A	1.4	1.1	1.2	0.63
1	N/A	MW-BW-24-A	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
2	3A	MW-BW-58-A	0.30 J	0.52	0.53	0.62
2	3A	MW-BW-87-A	1.9	2.6	2.3	1.5
2	3A	MW-BW-91-A	0.93	1.0	0.94	0.97
2	N/A	MW-BW-94-AR	0.49 J	0.63	0.52	0.64
N/A	3A	MW-BW-90-A	1.3	1.6	1.4	1.9
2	3A	EW-BW-160-A	1.2	2.2	2.1	1.4
3	3A	EW-BW-166-A	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
3	N/A	MW-BW-88-A	1.4	1.5	1.0	0.44 J
3	N/A	MW-BW-93-A	0.25 J	0.24 J	0.23 J	0.33 J
3	N/A	MW-BW-95-A	1.2	1.5	1.1	1.2

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

July 2020 Key Events

- None.

Aug 2020 Key Events

- Aug 31-Sept 4: Third Quarter 2020 Groundwater Monitoring Event.

Sept 2020 Key Events

- Sept 23: Complete missing Third Quarter 2020 Groundwater Monitoring Event samples.

Oct 2020 Key Events

- None.

Nov 2020 Key Events

- None.



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 2019	1Q 2020	2Q 2020	3Q 2020*
			CT			
ACL:			0.5			
4	2A	EW-BW-124-A	ND (0.25)	ND (0.25)	ND (0.25)	0.33 J
4	2A	EW-BW-129-A	NS	NS	2.0	2.2
4	2A	EW-BW-140-A	NS	NS	0.28 J	0.27 J
4	N/A	MW-B-12-A	0.65	0.56	0.49 J	0.55
4	2B	MW-B-14-A	0.60 J	0.73	0.52	0.49 J
4	2B	EW-BW-155-A	0.33 J	0.25 J	0.12 J	0.22 J
4	2A	MW-BW-26-A [^]	3.9	4.9	3.6	3.3
4	N/A	MW-BW-31-A	1.3	0.65	0.45 J	0.33 J
4	N/A	MW-BW-32-A	1.8	2.2	1.5	1.0
4	N/A	MW-BW-35-A	0.13 J	0.34 J	0.12 J	0.20 J
4	N/A	MW-BW-36-A	0.67	0.71	0.21 J	0.71
4	N/A	MW-BW-42-A	ND (0.25)	0.16 J	ND (0.25)	0.12 J
4	N/A	MW-BW-89-A	0.77	0.81	0.66	0.69
4	N/A	MW-BW-92-A	0.81	0.95	0.83	0.64
5	Pilot	EISB-EW-01	0.33 J	0.33 J	0.36 J	0.22 J
5	Pilot	EISB-EW-09	1.4	1.3	1.2	0.90
5	N/A	MW-BW-49-A	1.4 J+	0.96	0.39 J	0.33 J
5	N/A	MW-BW-65-A	0.70 J+	ND (0.25)	0.27 J	0.32 J
5	Pilot	MW-BW-66-A	1.1	1.1	0.91	0.35 J
5	N/A	MW-BW-74-A	ND (0.25) [0.12 J]	ND (0.25) [0.10 J]	ND (0.25) [0.11 J]	ND (0.25) [ND (0.25)]
5	N/A	MW-BW-75-A	1.9	1.9	1.7	2.2
5	N/A	MW-BW-78-A	ND (0.25) [0.17 J]	ND (0.25) [0.15 J]	ND (0.25) [0.15 J]	ND (0.25) [0.12 J]
5	N/A	MW-BW-80-A	3.3 J+	2.3	2.0	3.0
5	N/A	MW-BW-82-A	NS	NS	1.1	1.2

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.



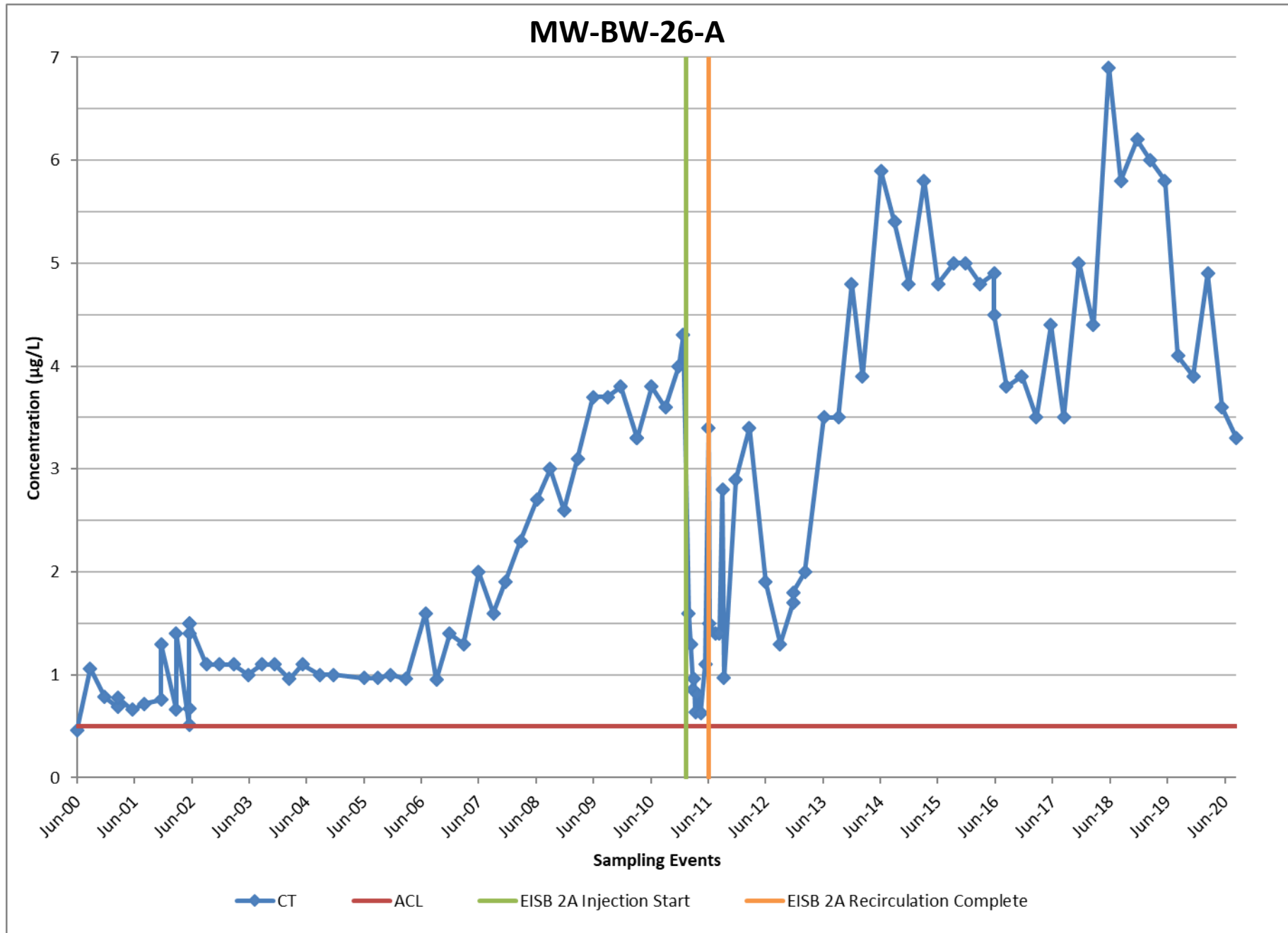


Table 4. OUCTP Upper 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone ¹	Well Identification	CT Concentration (µg/L) ²			
		4Q 2019	1Q 2020	2Q 2020	3Q 2020*
ACL:		0.5			
6	EW-OU2-09-180 ³	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
6	MP-BW-46-170	5.0	6.5	4.5	4.0
N/A	MW-BW-21-180	NS	NS	0.15	ND (0.25)
N/A	MW-BW-43-180	NS	NS	ND (0.25)	ND (0.25)
6	MW-BW-52-180	0.92	0.65	0.62	0.52
6	MW-BW-57-180	1.1	1.1	0.96	0.96
6	MW-BW-58-180	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
6	MW-OU2-64-180	8.8	7.4	4.3	6.6
6	MW-OU2-67-180 ⁵	0.11 J	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



MP-BW-46-170

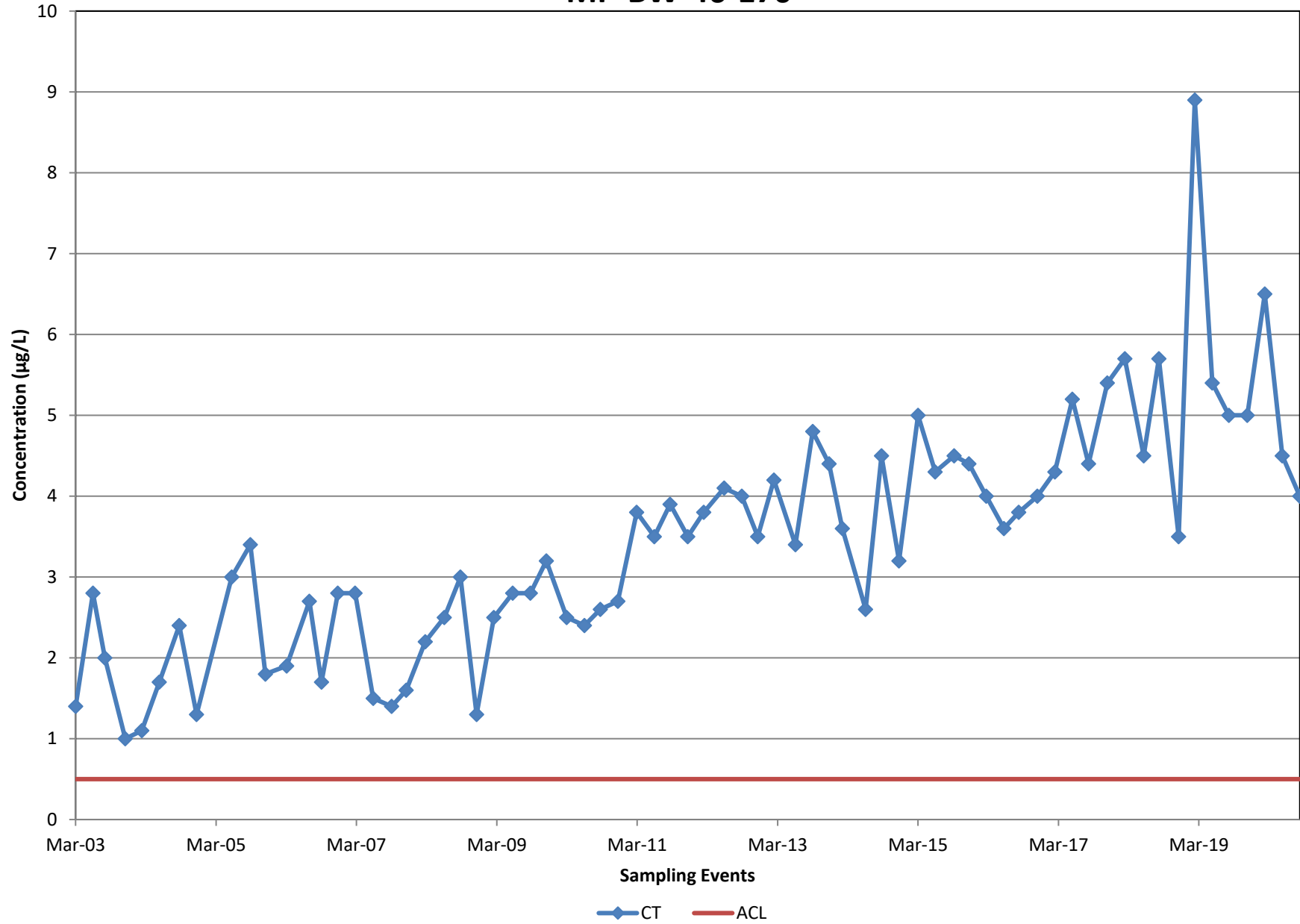


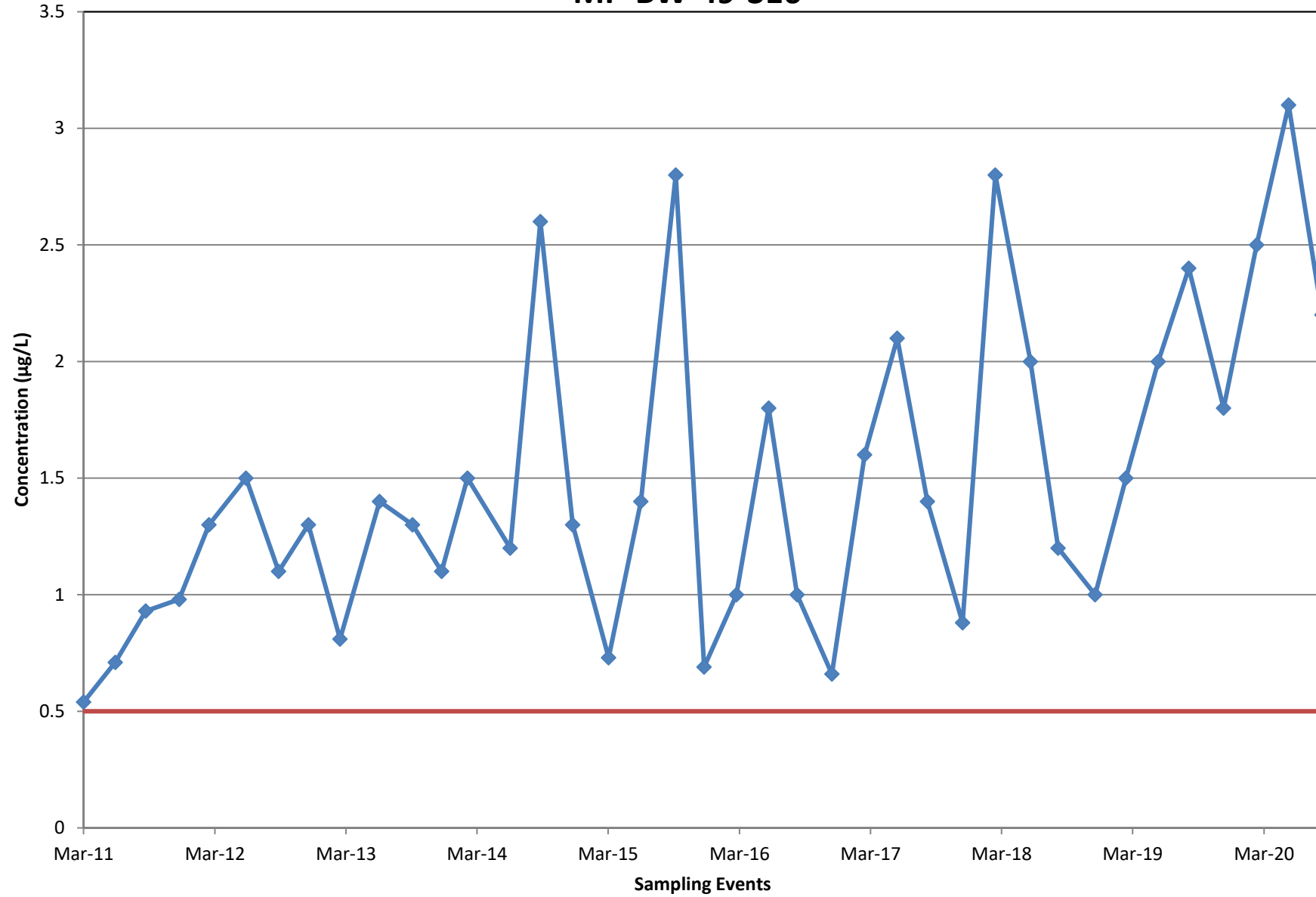
Table 5. OUCTP Lower 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone ¹	Well Identification	Select COC Concentrations (µg/L) ²							
		4Q 2019	1Q 2020	2Q 2020	3Q 2020*	4Q 2019	1Q 2020	2Q 2020	3Q 2020*
		CT				TCE ⁴			
Limit:		ACL 0.5				MCL 5.0			
7	MP-BW-49-316	1.8	2.5	3.1	2.2	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
7	MP-BW-49-400	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	3.9	ND (0.25)	4.4	3.7
7	MP-BW-50-339	0.59	0.48 J	1.2	0.95	0.17 J	0.22 J	ND (0.25)	ND (0.25)
7	MP-BW-50-384	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	2.3	2.4	1.4	1.6
7	MP-BW-51-405	0.12 J	0.18 J	0.13 J	0.13 J	1.7	2.0	1.7	1.3
7	MW-OU2-69-180	1.0	1.1	0.91	1.1	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
8	AIRFIELD	0.40 J	0.42 J	0.44 J	0.30 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
9	EW-OU2-07-180	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	2.9	2.9	2.8	3.0
N/A	FO-29	0.18 J	0.23 J	0.23 J	0.15 J	1.6	1.9	1.8	1.8
N/A	FO-30	0.19 J	0.16 J	0.24 J	0.21 J	0.39 J	0.69	0.52	0.45 J
N/A	FO-31	0.13 J	0.15 J	0.14 J	0.13 J	0.79	1.0	0.85	0.84
N/A	MP-BW-41-318	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.60	0.55	0.67	ND (0.25)
N/A	MP-BW-41-353	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	1.2	1.3	1.3	ND (0.25)
9	MW-BW-59-180	ND (0.25)	0.11 J	0.13 J	0.10 J	9.3	9.9	10.9	9.8
N/A	MW-OU2-72-180	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	1.4	1.6	1.3	1.1
9	MW-OU2-78-180	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	2.3	2.3	2.0	2.2
9	MW-OU2-82-180	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	5.0	4.2	3.7	4.5

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

