

Table 1: Feb-Apr 2022 – OU2 GWTP Statistics

Monthly Statistics	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
Feb 2022	37,449,082	929	100	1.7
Mar 2022	41,845,134	937	100	1.9
Apr 2022	41,689,080	965	100	2.7
Total since October 1995	8.974 billion			937

Table 2: Feb-Apr 2022 – OU2 Analytical Results at TS-OU2-INJ-01

COC	Discharge Limit (µg/L)	Analytical Results (µg/L)		
		2/14/2022	3/14/2022	4/12/2022
1,1-dichloroethane (1,1-DCA)	5.0*	0.38 J	0.35 J	0.37 J
1,2-dichloroethane (1,2-DCA)	0.5	ND (0.25)	0.15 J	0.18 J
1,2-dichloropropane (1,2-DCP)	0.5	ND (0.25)	ND (0.25)	ND (0.25)
Benzene	0.5	ND (0.25)	ND (0.25)	ND (0.25)
Carbon tetrachloride (CT)	0.5	ND (0.25)	ND (0.25)	ND (0.25)
Chloroform	2.0*	0.34 J	0.32 J	0.36 J
Cis-1,2-dichloroethene (cis-1,2-DCE)	6.0*	1.2	1.1	1.4
Methylene Chloride	0.5	ND (0.50)	ND (0.50)	ND (0.50)
Tetrachloroethene (PCE)	0.5	ND (0.25)	ND (0.25)	ND (0.25)
Trichloroethene (TCE)	0.5	ND (0.25)	ND (0.25)	0.11 J
Vinyl chloride (VC)	0.1	ND (0.10)	ND (0.10)	ND (0.10)

Notes:

COC: chemical of concern

µg/L: micrograms per liter

ND: The analyte was not detected above the limit of detection (LOD).

NS: not sampled.

J: Estimated results below the limit of quantitation (LOQ).

TS-OU2-INJ: Injection point of compliance, the OU2 effluent pipeline.

*Discharge limits for low carbon affinity compounds were increased to the Aquifer Cleanup Level (ACL).

Results in *italics* are above the discharge limit, and results in **bold** and shaded are concentrations above the ACL

Results in gray are ND

February-April Key Events

- Feb 8: EW-OU2-08-180 online continuously.
- Feb 28-Mar 4: First Quarter 2022 Groundwater Monitoring Program event.
- Mar 2: EW-OU2-16-A pressure transducer failure. Evidence of biofouling. Shock treated with chlorine. Well restarted Mar 3, online only during business hours.
- May 10: Replace failed transducer at EW-OU2-16-A.

Future Key Events

- May 23: Redevelop EW-OU2-16-A.
- Jun 6-10: Second Quarter 2022 Groundwater Monitoring event.
- Jun: OU2 GAC change-out.
- Install variable frequency drive (VFD) at EW-OU2-08-180.
- Repair and restart EW-OU2-05-A (downhole wiring or pump issue).

Table 3. OU2 A-Aquifer Select Extraction/Monitoring Well Data

OU2 Hydraulic Zone ¹	Well Identification ²	Select COC Concentrations (µg/L)									
		4Q 2021					1Q 2022				
		TCE	PCE	1,1-DCA	1,2-DCA	VC	TCE	PCE	1,1-DCA	1,2-DCA	VC
ACL:		5	3	5	0.5	0.1	5	3	5	0.5	0.1
1	EW-OU2-16-A	1.8	1.3	3.5	1.5	0.42	2.6	1.8	5.3	2.0	0.65
1	EW-OU2-17-A	6.6	3.9	0.80	0.25 J	ND (0.05)	6.9	4.3	0.81	0.29 J	ND (0.10)
1	EW-OU2-18-A	10.5	6.0	4.2	0.65	0.41	10.3	4.5	3.7	0.66	0.25
1	EW-OU2-19-A	5.0	6.0	9.5	1.1	1.6	4.2	4.1	8.3	1.3	1.1
1	EW-OU2-20-A	1.7	1.7	5.1	0.69	1.1 J+	1.4	1.2	4.0	0.59	0.71
1	MW-OU2-02-A	1.1	3.7	3.3	0.67	9.0	0.38 J	0.43 J	3.3	0.76	7.3
1	MW-OU2-44-A	5.1	4.4	7.6	1.8	0.15	4.3	3.9	7.9	2.0	ND (0.10)
1	MW-OU2-73-A	0.48 J	1.6 J+	4.1 J+	0.53 J+	4.4 J+	0.43 J	1.5	3.2	0.45 J	3.5
2	EW-OU2-15-A	1.7 J+	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.05)	1.4	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.10)
2	MW-OU2-27-A	0.11 J	4.5	0.39 J	ND (0.25)	ND (0.05)	ND (0.25)	3.1	0.26 J	ND (0.25)	ND (0.10)
3	EW-OU2-09-A	0.13 J	0.18 J	ND (0.25)	0.12 J	ND (0.05)	0.17 J	0.22 J	ND (0.25)	0.13 J	ND (0.10)
3	EW-OU2-10-A	0.81	0.55	0.22 J	0.44 J	0.056 J	0.99	0.66	0.28 J	0.52	0.056 J
3	EW-OU2-11-AR	2.0	0.91	1.9	0.32 J	ND (0.05)	2.1	0.82	2.2	0.30 J	ND (0.10)
3	EW-OU2-12-A	5.0	2.9	2.6	1.5	0.055 J	5.1	3.0	2.8	1.5	ND (0.10)
3	EW-OU2-13-A	4.7	1.5	0.81	3.0	ND (0.05)	5.3	1.8	0.94	3.3	ND (0.10)
3	MW-OU2-12-A	11.7	7.3	10.5	2.9	0.20	12.4	6.8	11.5	2.8	0.16
3	MW-OU2-25-A	0.73	0.36 J	0.26 J	0.44 J	ND (0.05)	0.56	0.30 J	0.18 J	0.37 J	ND (0.10)

Notes:

ACL: Aquifer Cleanup Level

COC: chemical of concern

1,2-DCA: 1,2-dichloroethane

TCE: trichloroethene

PCE: tetrachloroethene

1,1-DCA: 1,1-dichloroethane

µg/L: micrograms per liter

NS: not sampled

ND: The analyte was not detected above the detection limit.

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

¹ Hydraulic zones are identified in the Groundwater QAPP.² Extraction wells not listed have met the QAPP decision rules to no longer operate.Results in **bold** and shaded are concentrations above the ACL

Results in gray are ND

Results in brackets from a second deeper passive diffusion bag

* Preliminary data

Table 4. OU2 A-Aquifer Select Extraction/Monitoring Well Data

OU2 Hydraulic Zone ¹	Well Identification ²	Select COC Concentrations (µg/L)									
		4Q 2021					1Q 2022				
		TCE	PCE	1,1-DCA	1,2-DCA	VC	TCE	PCE	1,1-DCA	1,2-DCA	VC
ACL:		5	3	5	0.5	0.1	5	3	5	0.5	0.1
4	EW-OU2-02-A	0.33 J	ND (0.25)	0.11 J	ND (0.25)	ND (0.05)	0.38 J	ND (0.25)	0.13 J	ND (0.25)	ND (0.10)
4	EW-OU2-04-A	1.9	0.14 J	0.55	ND (0.25)	ND (0.05)	2.2	0.20 J	0.70	ND (0.25)	ND (0.10)
4	EW-OU2-05-A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4	EW-OU2-06-A	2.7	0.23 J	0.13 J	ND (0.25)	ND (0.05)	2.9	0.25 J	0.15 J	ND (0.25)	ND (0.10)
4	MW-OU2-40-A	16.7	0.52	0.22 J	ND (0.25)	ND (0.05)	13.7	0.46 J	0.19 J	ND (0.25)	ND (0.10)
5	MW-OU2-04-A	2.0	0.58	0.65	0.59	ND (0.05)	2.0	0.71	0.60	0.61	ND (0.10)
5	MW-OU2-06-AR	6.0 J+	3.2 J+	1.8 J+	0.88 J+	ND (0.05)	4.9	2.3	1.5	0.70	ND (0.10)
5	MW-OU2-07-A	1.9	0.63	11.4	0.62	0.30	1.5	0.74	10.1	0.65	0.27
5	MW-OU2-08-A	9.3	8.1	26 J+	2.6	0.36	9.3	8.1	22	2.4	0.26
5	MW-OU2-75-A	6.1	9.2	9.1	0.11 J	0.11	5.5	7.9	8.2	0.11 J	0.11
5	MW-OU2-81-A	16.0	6.1	2.0	0.64	ND (0.05)	12.0	5.8	1.5	0.89	ND (0.10)
5	MW-OU2-83-A	3.5 J+	3.9 J+	11.7 J+	0.59 J+	0.32 J+	2.9	2.9	9.0	0.46 J	0.20
5	MW-BW-50-A	0.92 J+	4.2 J+	1.0 J+	ND (0.25)	ND (0.05)	0.72	4.0	NS	NS	ND (0.10)
5	MW-BW-71-A	0.11 J [ND (0.25)]	0.16 J [0.10 J]	ND (0.25) [0.66]	ND (0.25) [ND (0.25)]	ND (0.05) [ND (0.05)]	ND (0.25)	0.16 J	NS	NS	ND (0.10)
N/A	MW-OU2-05-AR	0.15 J	ND (0.25)	1.6	ND (0.25)	ND (0.05)	0.14 J	ND (0.25)	1.5	ND (0.25)	ND (0.10)
N/A	MW-OU2-76-A	ND (0.25)	ND (0.25)	0.13 J	ND (0.25)	ND (0.05)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.10)

Notes:

ACL: Aquifer Cleanup Level

COC: chemical of concern

1,2-DCA: 1,2-dichloroethane

TCE: trichloroethene

PCE: tetrachloroethene

1,1-DCA: 1,1-dichloroethane

µg/L: micrograms per liter

NS: not sampled

ND: The analyte was not detected above the detection limit.

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

¹ Hydraulic zones are identified in the Groundwater QAPP.

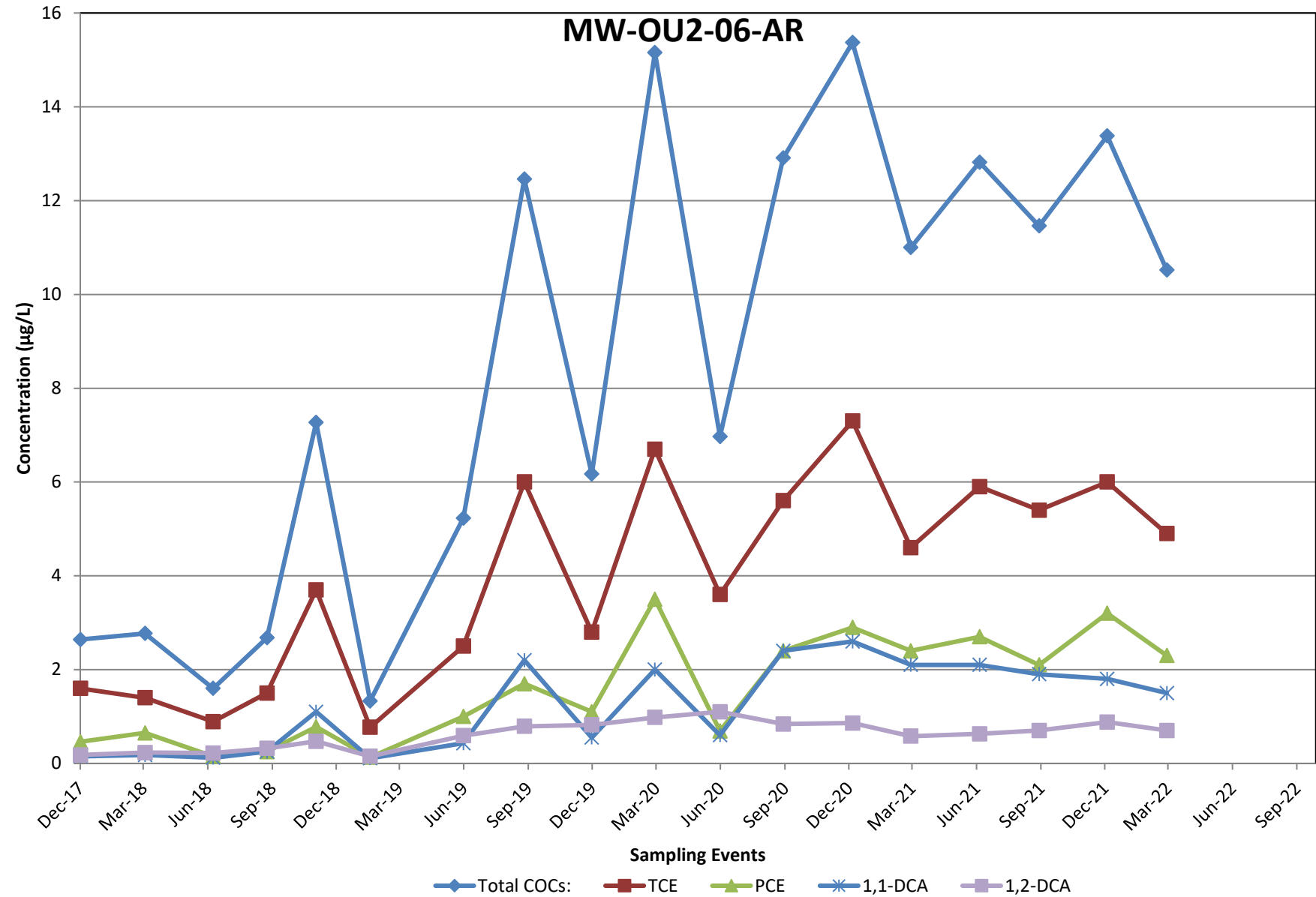
² Extraction wells not listed have met the QAPP decision rules to no longer operate.

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

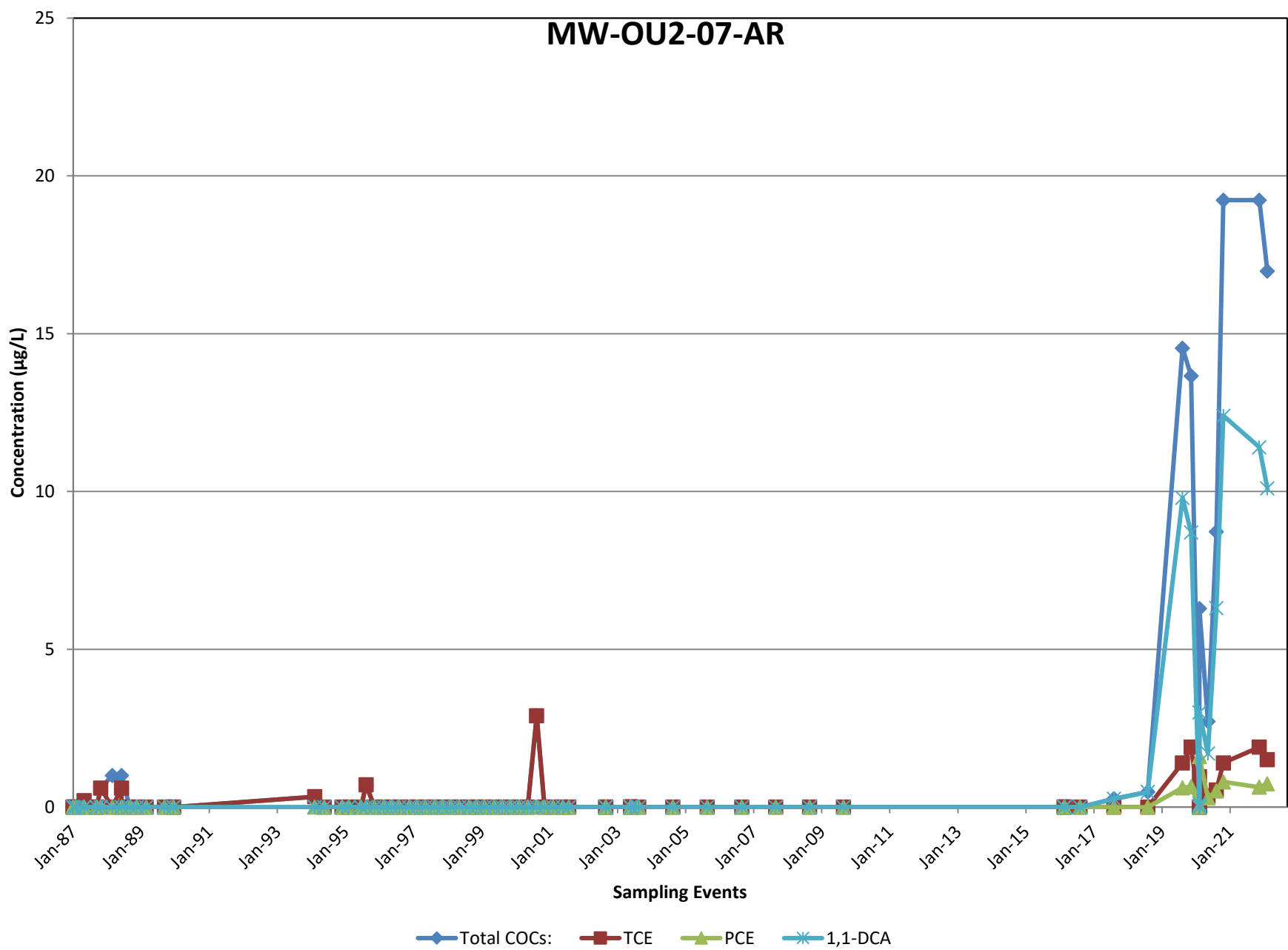
Results in gray are ND

Results in brackets from a second deeper passive diffusion bag

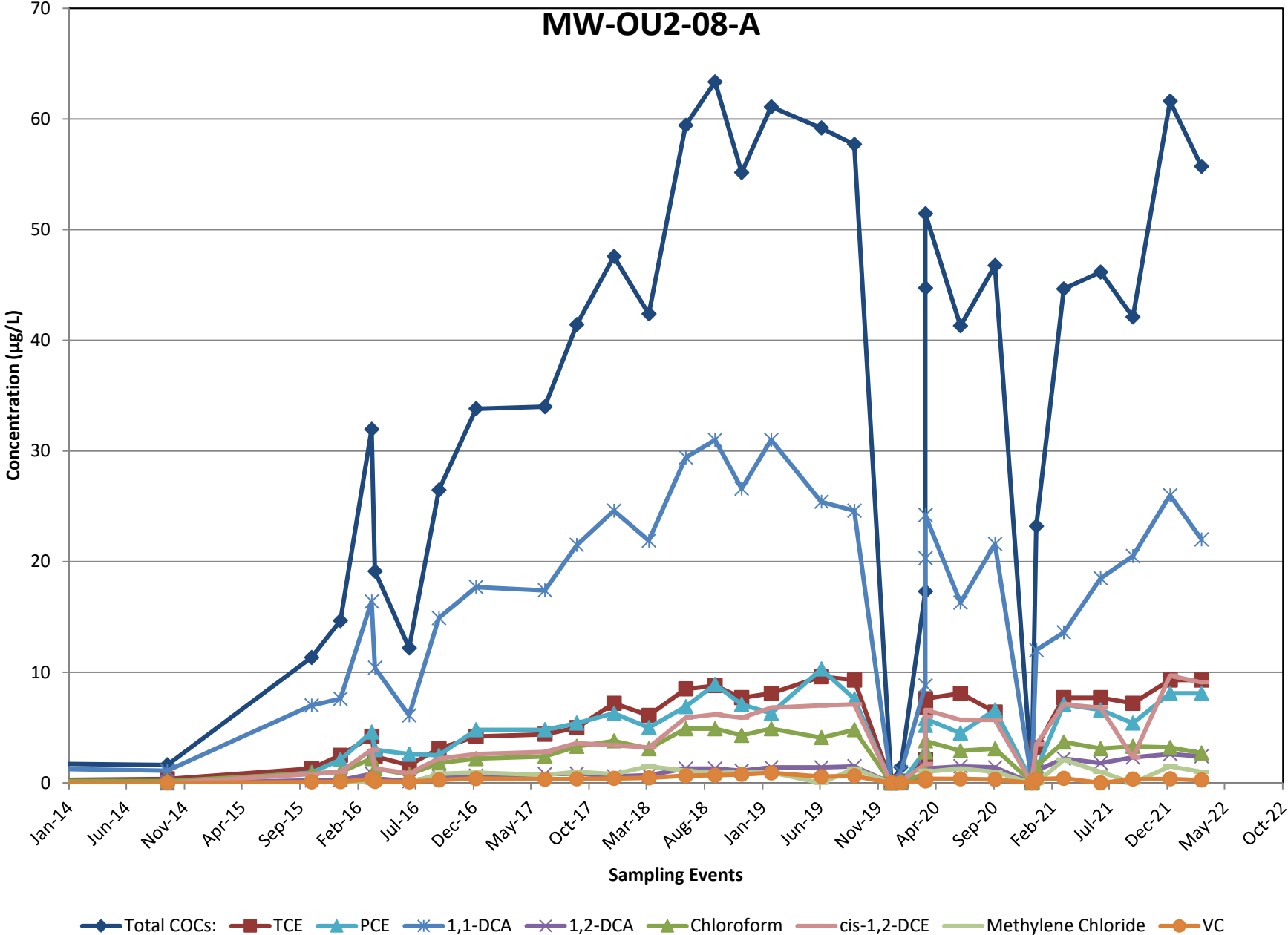
* Preliminary data



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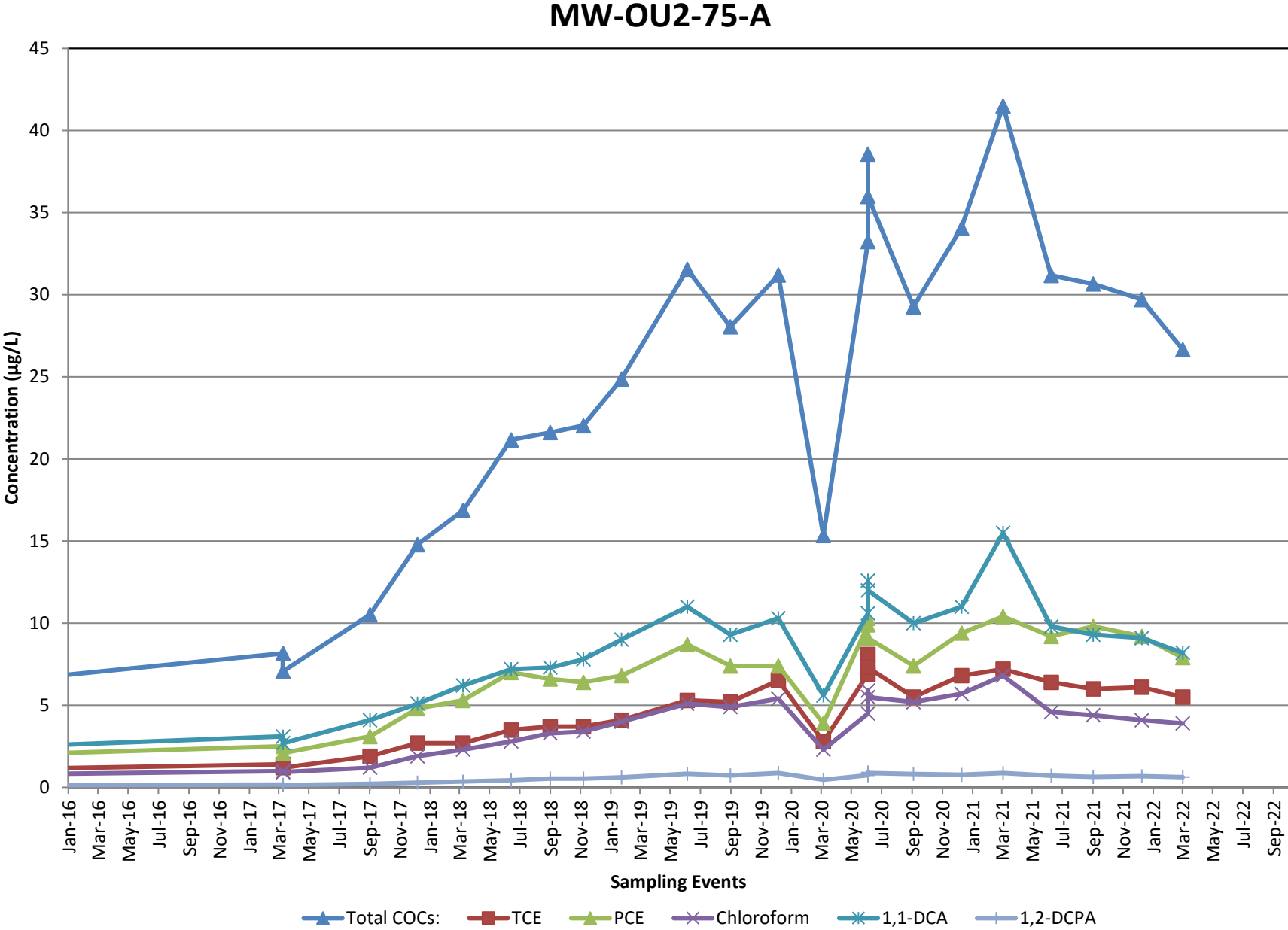


Table 5. OU2 Upper 180-Foot Select Extraction/Monitoring Well Data

OU2 Hydraulic Zone ¹	Well Identification ²	TCE Concentration (µg/L)			
		2Q 2021	3Q 2021	4Q 2021	1Q 2022
ACL:		5			
6	EW-OU2-03-180	7.1	7.7	8.1	7.4
6	MW-OU2-23-180	13.3 J-	12.4	13.5 J+	10.8
6	MW-OU2-50-180	8.9 J-	11	15.9 J+	8.6
6	MW-OU2-51-180	0.69	0.62	0.72 J+	0.65
7	EW-OU2-05-180	2.4	2.7 J+	2.0	2.1
7	EW-OU2-06-180	3.6	4.2	3.3	3.6
7	EW-OU2-10-180	8.2	8.9	6.8	7.3
7	EW-OU2-11-180	4.0 J+	4.8	3.8	4.2
7	EW-OU2-12-180	7.5	7.9	7.0	7.3
7	MW-OU2-81-180	3.6 J+	3.3	4.5	3.8
7	MW-OU2-44-180	14.5 J+	15.1	12.4	10.6
7	MW-OU2-56-180	5.0	6.3	7.0 J+	5.8
8	EW-OU2-08-180	1.2	2.7	2.6	1.6
8	MW-OU2-28-180	4.4	6.0	5.2 J+	3.3
8	MW-OU2-62-180	4.5	1.8	1.9	1.5
9	EW-OU2-01-180	3.9	7.3	9.7	9.6
9	EW-OU2-02-180R	5.0	5.7	4.9	5.2
9	MW-OU2-06-180R2	0.67	0.89	1.2	1.2
9	MW-OU2-24-180	10.9	11.1	9.5	8
9	MW-OU2-43-180	2.4	2.5	2.4 J+	1.9
N/A	MW-OU2-84-180	ND (0.25)	NS	ND (0.25)	0.10 J

Notes:

ACL: Aquifer Cleanup Level

COC: chemical of concern

TCE: trichloroethene

µg/L: micrograms per liter

NS: not sampled

ND: The analyte was not detected above the detection limit.

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

¹ Hydraulic zones are identified in the Groundwater QAPP.

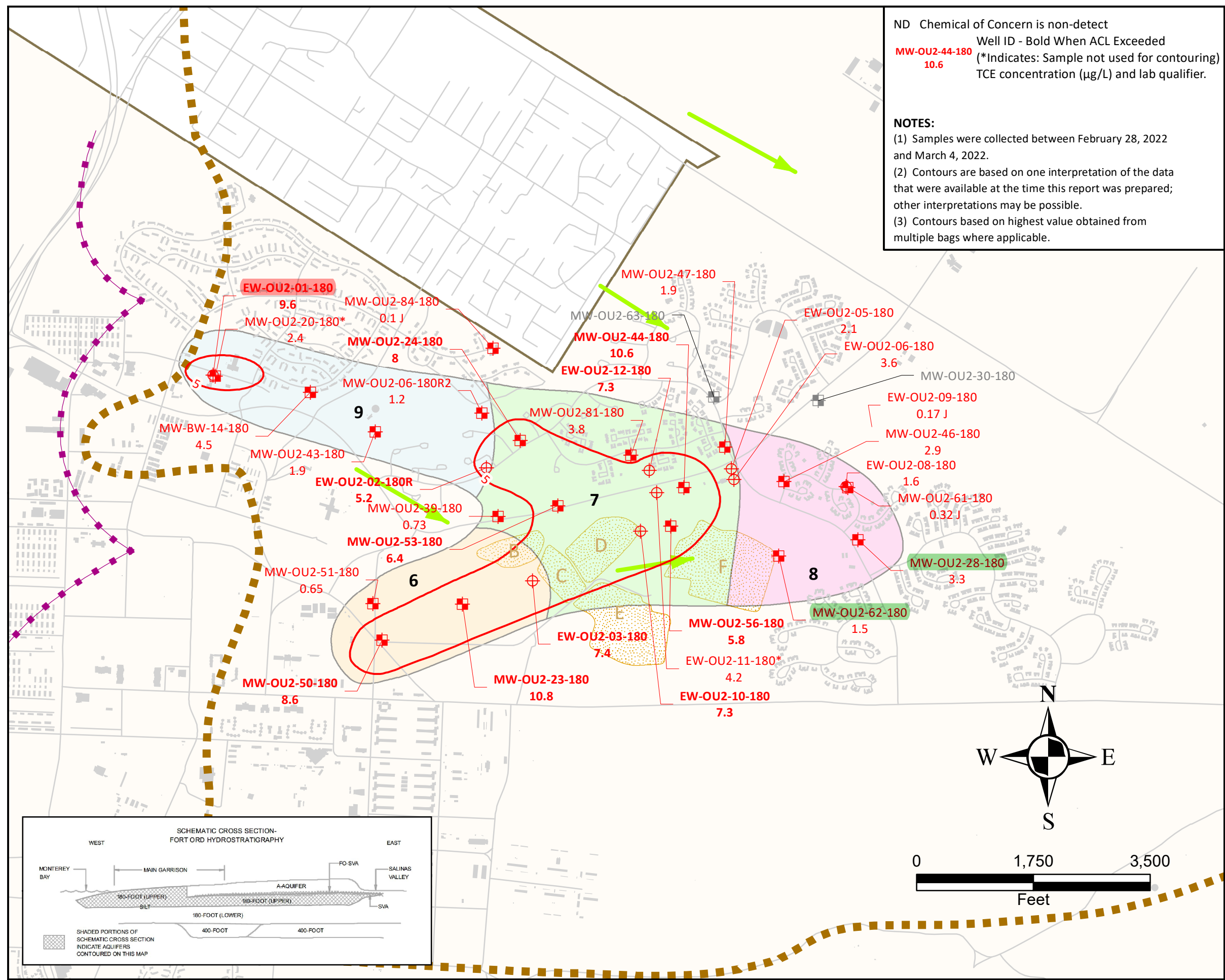
² Extraction wells not listed have met the QAPP decision rules to no longer operate.

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

Results in *gray* are ND

Results in brackets from a second deeper passive diffusion bag

* Preliminary data



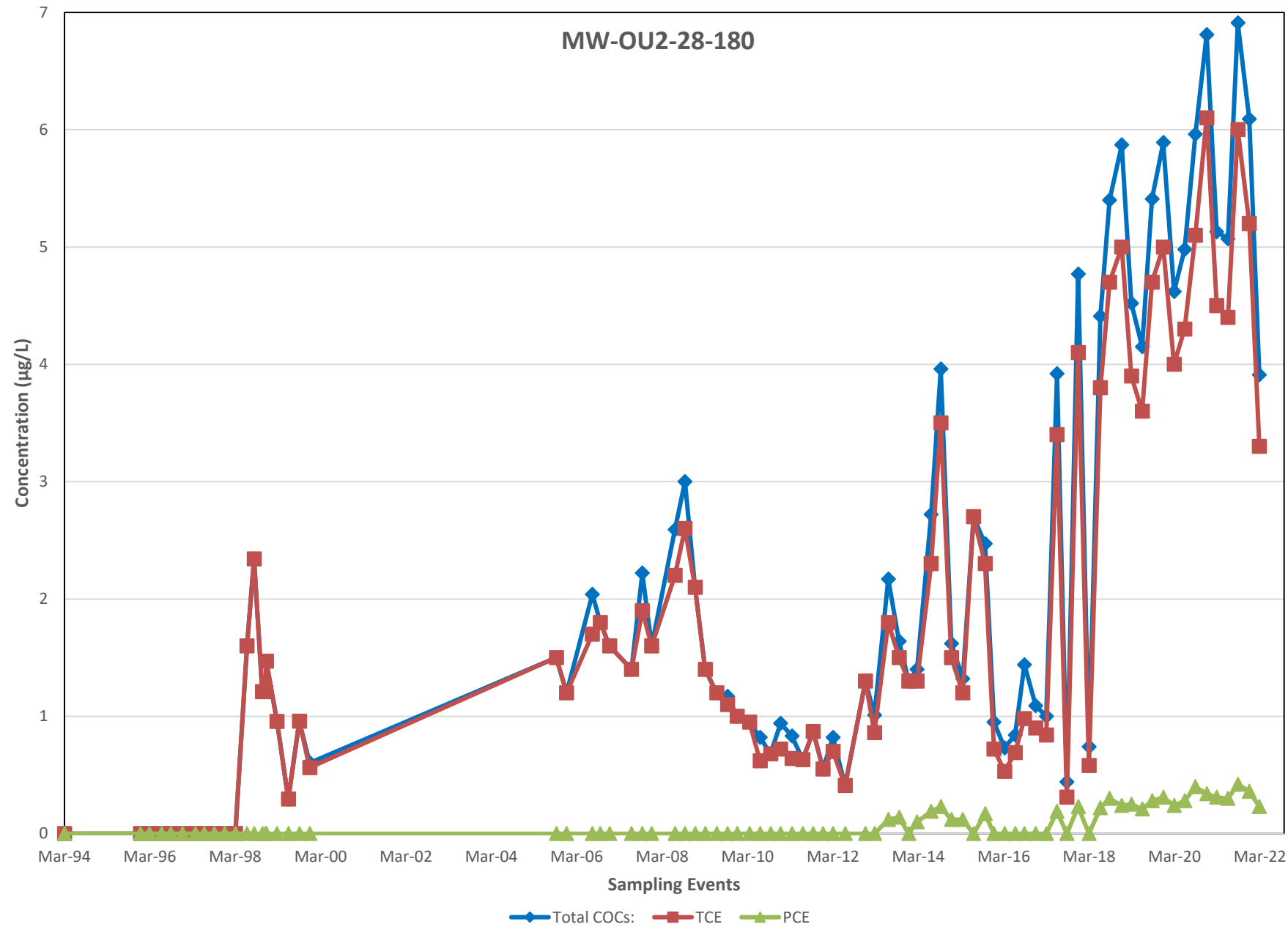
ND Chemical of Concern is non-detect
Well ID - Bold When ACL Exceeded
MW-OU2-44-180 10.6 (*Indicates: Sample not used for contouring)
TCE concentration (µg/L) and lab qualifier.

NOTES:
(1) Samples were collected between February 28, 2022 and March 4, 2022.
(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 based on highest value obtained from multiple bags where applicable.

EXPLANATION

- Approximate Edge of Fort Ord - Salinas Valley Aquitard (FO-SVA)
- General groundwater flow direction
- 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 TCE detection
 - Monitoring well not sampled
- Chemical of concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.**
 - 5 Trichloroethene (TCE) plume extent
- Groundwater Aquifer Divide**
 - Approximate location of the Upper 180-Foot Aquifer groundwater divide
- OU2 Upper 180-Foot Aquifer Hydraulic Zone**
 - 6
 - 7
 - 8
 - 9

TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
UPPER 180-FOOT AQUIFER
FIRST QUARTER 2022
Operable Unit 2, First Quarter 2022 Groundwater
Monitoring and Treatment System Report
Former Fort Ord, California



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