

## HTW BCT, October 22, 2020

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

OUCTP Hydraulic Zone <sup>1</sup>	EISB Deployment Area	Well Identification	COC Concentrations (µg/L)			
			4Q 2019	1Q 2020	2Q 2020	3Q 2020*
<b>ACL:</b>			<b>0.5</b>			
1	1C	EW-BW-109-A	<b>1.4</b>	<b>1.1</b>	<b>1.2</b>	<b>0.63</b>
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	<b>0.52</b>	<b>0.53</b>	<b>0.62</b>
2	3A	MW-BW-87-A	<b>1.9</b>	<b>2.6</b>	<b>2.3</b>	<b>1.5</b>
2	3A	MW-BW-91-A	<b>0.93</b>	<b>1.0</b>	<b>0.94</b>	<b>0.97</b>
2	N/A	MW-BW-94-AR	0.49 J	<b>0.63</b>	<b>0.52</b>	<b>0.64</b>
N/A	3A	MW-BW-90-A	<b>1.3</b>	<b>1.6</b>	<b>1.4</b>	<b>1.9</b>
2	3A	EW-BW-160-A	<b>1.2</b>	<b>2.2</b>	<b>2.1</b>	<b>1.4</b>
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	<b>1.4</b>	<b>1.5</b>	<b>1.0</b>	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	<b>1.2</b>	<b>1.5</b>	<b>1.1</b>	<b>1.2</b>

**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

<sup>1</sup> 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.



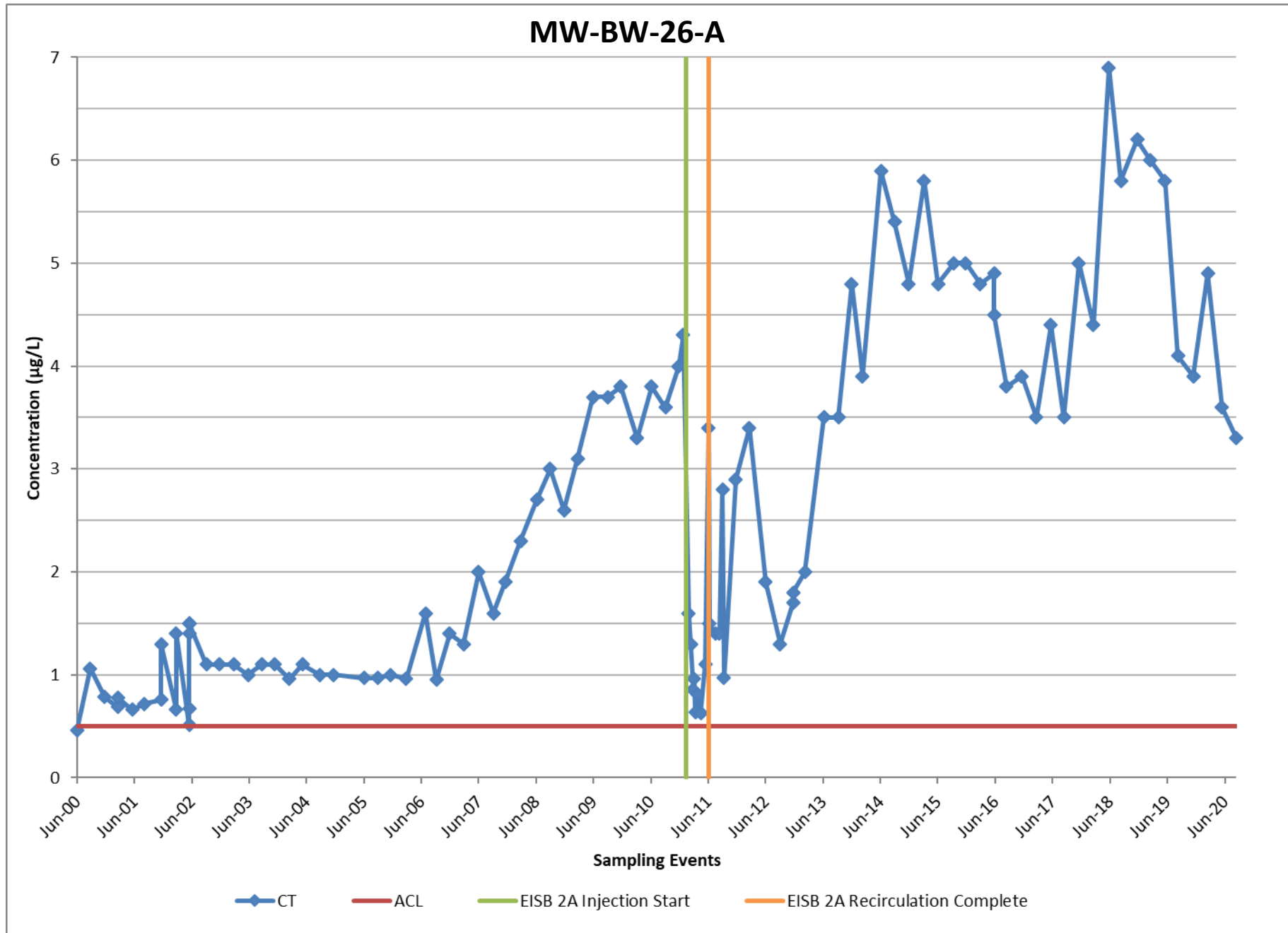
**Table 2.** OUCTP A-Aquifer Select Monitoring Well Data – Hydraulic Zones 4 and 5

OUCTP Hydraulic Zone <sup>1</sup>	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	<b>2.0</b>	<b>2.2</b>
4	2A	EW-BW-140-A	NS	NS	0.28 J	0.27 J
4	N/A	MW-B-12-A	<b>0.65</b>	<b>0.56</b>	0.49 J	<b>0.55</b>
4	2B	MW-B-14-A	<b>0.60 J</b>	<b>0.73</b>	<b>0.52</b>	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 <sup>^</sup>	<b>3.9</b>	<b>4.9</b>	<b>3.6</b>	<b>3.3</b>
4	N/A	MW-BW-31-A	<b>1.3</b>	<b>0.65</b>	0.45 J	0.33 J
4	N/A	MW-BW-32-A	<b>1.8</b>	<b>2.2</b>	<b>1.5</b>	<b>1.0</b>
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	<b>0.67</b>	<b>0.71</b>	0.21 J	<b>0.71</b>
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	<b>0.77</b>	<b>0.81</b>	<b>0.66</b>	<b>0.69</b>
4	N/A	MW-BW-92-A	<b>0.81</b>	<b>0.95</b>	<b>0.83</b>	<b>0.64</b>
5	Pilot	EISB-EW-01	0.33 J	0.33 J	0.36 J	0.22 J
5	Pilot	EISB-EW-09	<b>1.4</b>	<b>1.3</b>	<b>1.2</b>	<b>0.90</b>
5	N/A	MW-BW-49-A	<b>1.4 J+</b>	<b>0.96</b>	0.39 J	0.33 J
5	N/A	MW-BW-65-A	<b>0.70 J+</b>	ND (0.25)	0.27 J	0.32 J
5	Pilot	MW-BW-66-A	<b>1.1</b>	<b>1.1</b>	<b>0.91</b>	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	<b>1.9</b>	<b>1.9</b>	<b>1.7</b>	<b>2.2</b>
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	<b>3.3 J+</b>	<b>2.3</b>	<b>2.0</b>	<b>3.0</b>
5	N/A	MW-BW-82-A	NS	NS	<b>1.1</b>	<b>1.2</b>

**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
- <sup>1</sup> 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]
- <sup>^</sup> 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 <sup>1</sup>	Well Identification	CT Concentration (µg/L) <sup>2</sup>			
		4Q 2019	1Q 2020	2Q 2020	3Q 2020*
<b>ACL:</b>		<b>0.5</b>			
6	EW-OU2-09-180 <sup>3</sup>	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
6	MP-BW-46-170	<b>5.0</b>	<b>6.5</b>	<b>4.5</b>	<b>4.0</b>
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	<b>0.92</b>	<b>0.65</b>	<b>0.62</b>	<b>0.52</b>
6	MW-BW-57-180	<b>1.1</b>	<b>1.1</b>	<b>0.96</b>	<b>0.96</b>
6	MW-BW-58-180	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
6	MW-OU2-64-180	<b>8.8</b>	<b>7.4</b>	<b>4.3</b>	<b>6.6</b>
6	MW-OU2-67-180 <sup>5</sup>	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

<sup>1</sup> Hydraulic zones are identified in the Groundwater QAPP.

<sup>2</sup> 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.

<sup>3</sup> 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.

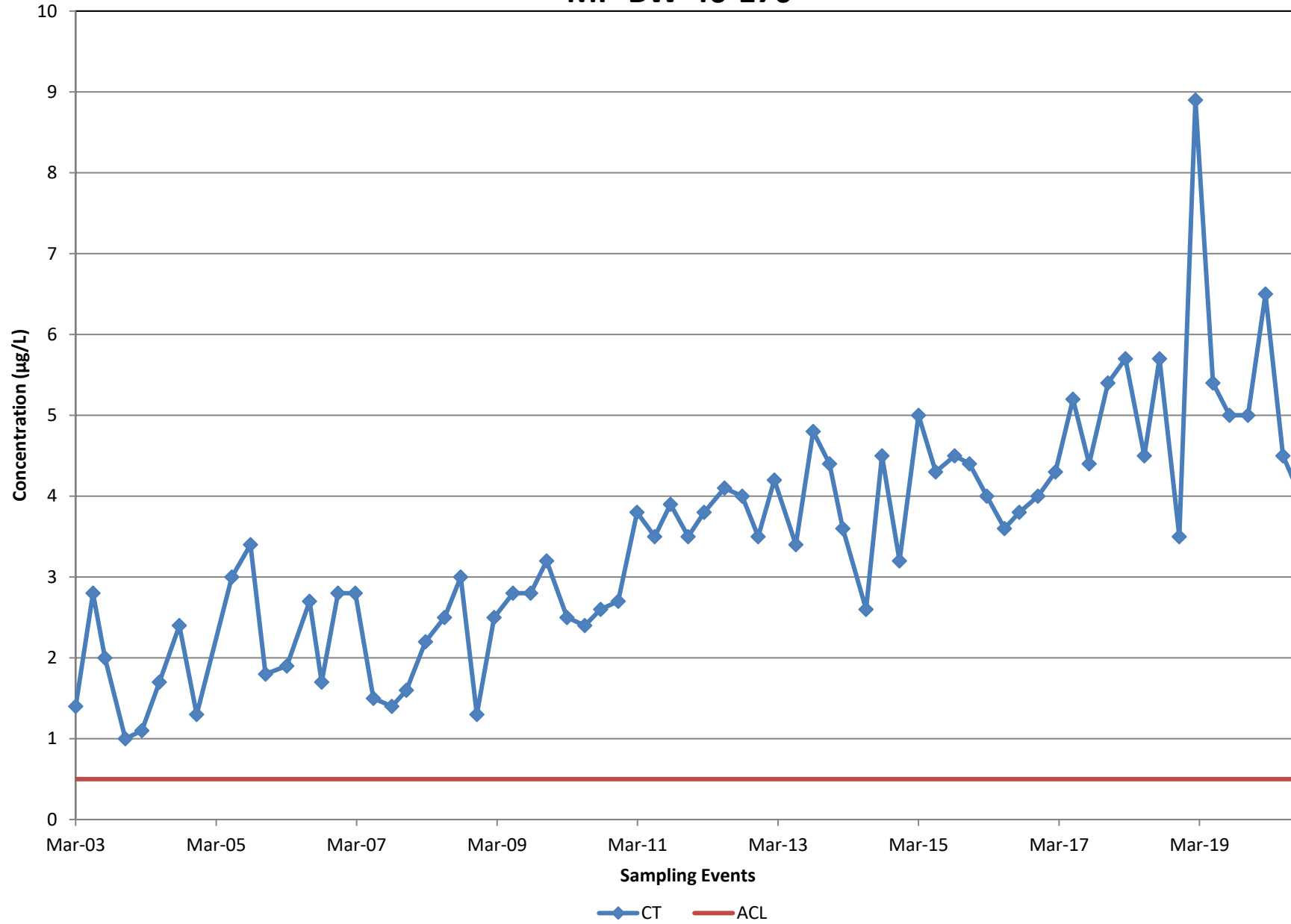
<sup>4</sup> TCE is not a COC in the OUCTP Lower 180-Foot Aquifer (reported for Lower 180-Foot Aquifer with respect to protection of supply wells)

<sup>5</sup> Downgradient well MW-OU2-70-180 sampled annually: ND.

\* Preliminary data



### MP-BW-46-170



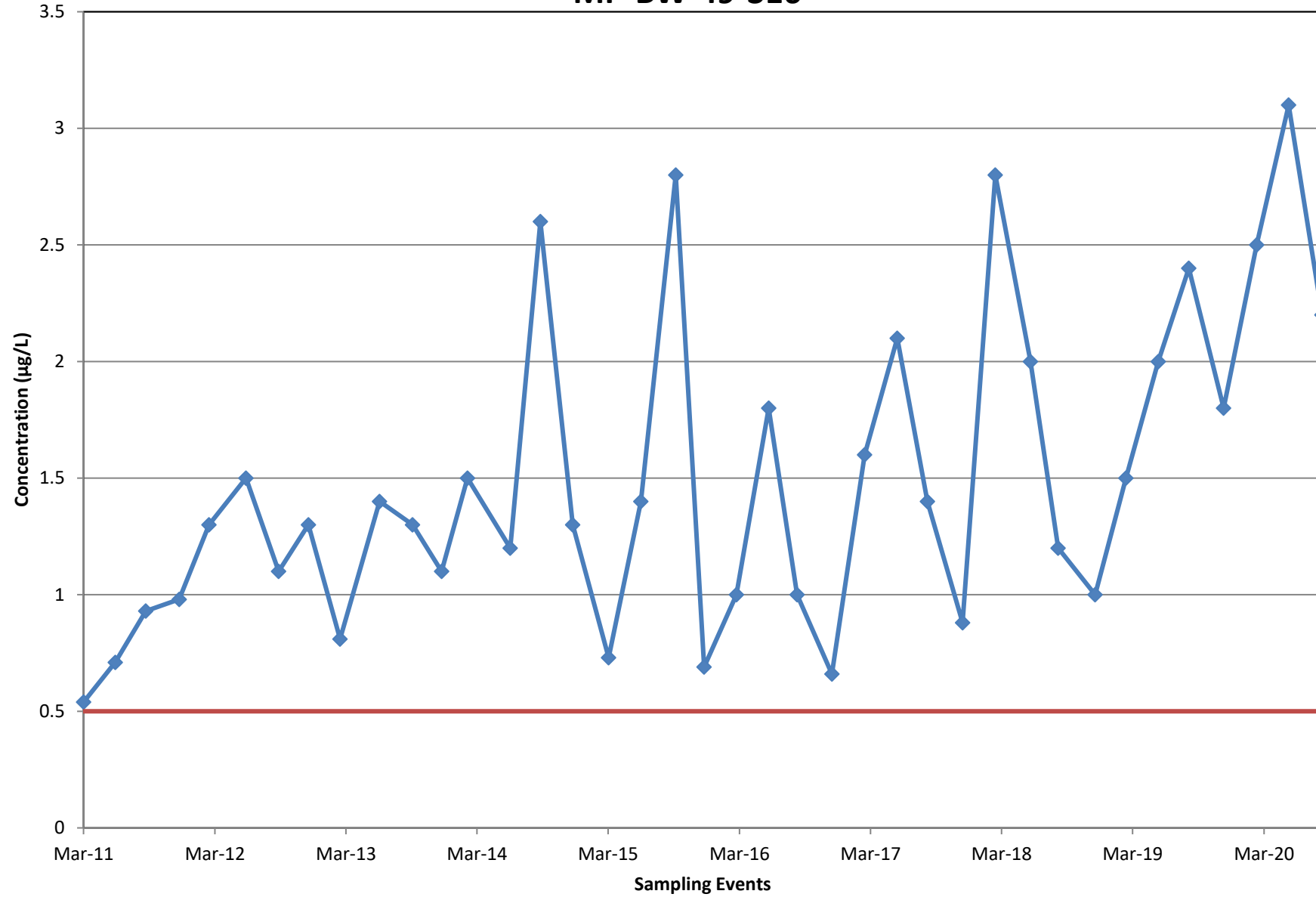
**Table 5.** OUCTP Lower 180-Foot Aquifer Select Monitoring Well Data

OUCTP Hydraulic Zone <sup>1</sup>	Well Identification	Select COC Concentrations (µg/L) <sup>2</sup>							
		4Q 2019	1Q 2020	2Q 2020	3Q 2020*	4Q 2019	1Q 2020	2Q 2020	3Q 2020*
		CT				TCE <sup>4</sup>			
Limit:		ACL 0.5				MCL 5.0			
7	MP-BW-49-316	<b>1.8</b>	<b>2.5</b>	<b>3.1</b>	<b>2.2</b>	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	<b>0.59</b>	0.48 J	<b>1.2</b>	<b>0.95</b>	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	<b>1.0</b>	<b>1.1</b>	<b>0.91</b>	<b>1.1</b>	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	<b>9.3</b>	<b>9.9</b>	<b>10.9</b>	<b>9.8</b>
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:**

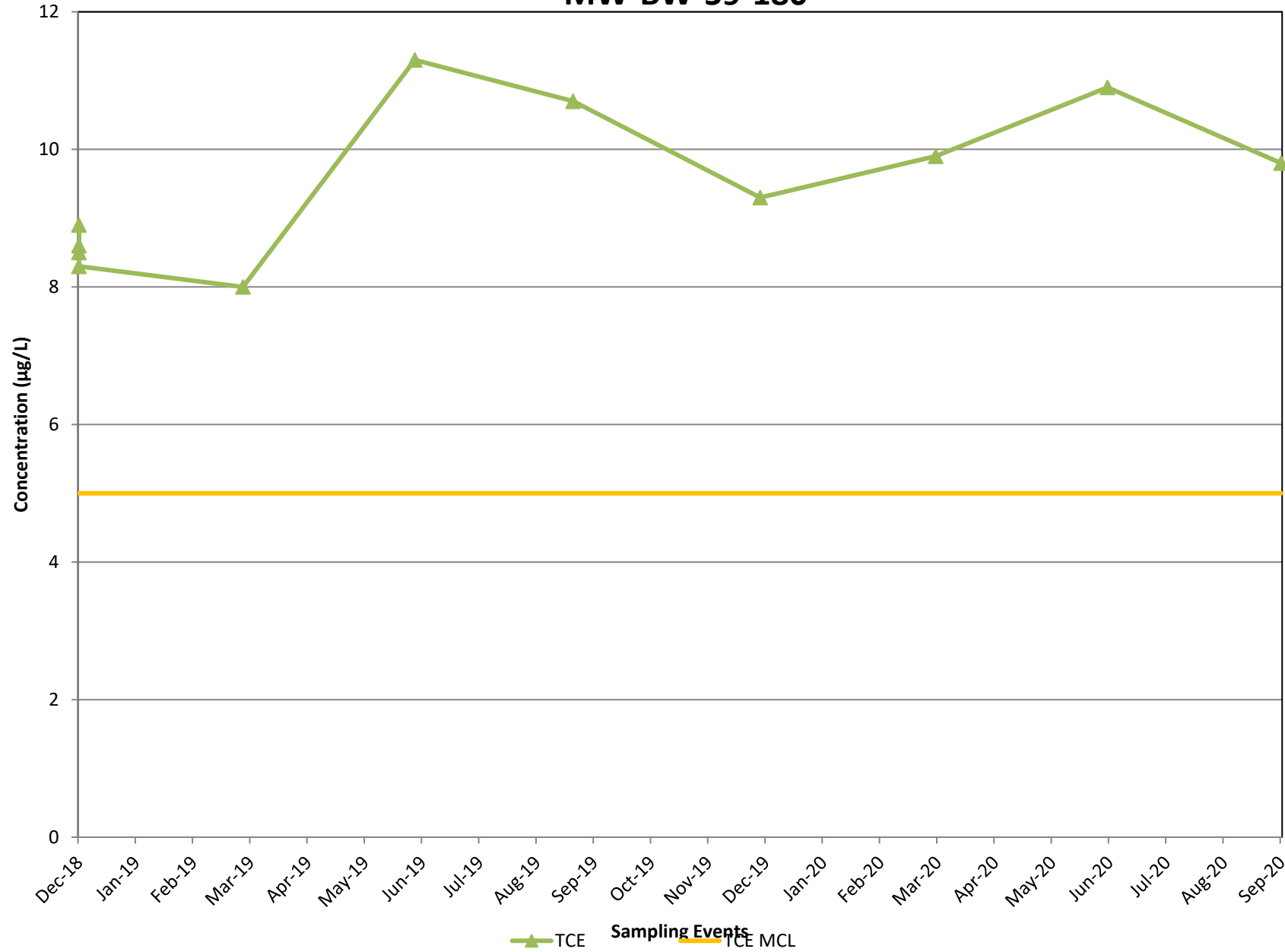
- ACL: aquifer cleanup level
- COC: chemical of concern
- CT: carbon tetrachloride
- MCL: maximum contaminant level
- ND: The analyte was not detected at or above the detection limit
- NS: not sampled
- TCE: trichloroethene
- µg/L: micrograms per liter
- J: Estimated result with a low (-) or high (+) bias
- <sup>1</sup> Hydraulic zones are identified in the Groundwater QAPP.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> 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)
- <sup>5</sup> Downgradient well MW-OU2-70-180 sampled annually: ND.
- \* Preliminary data

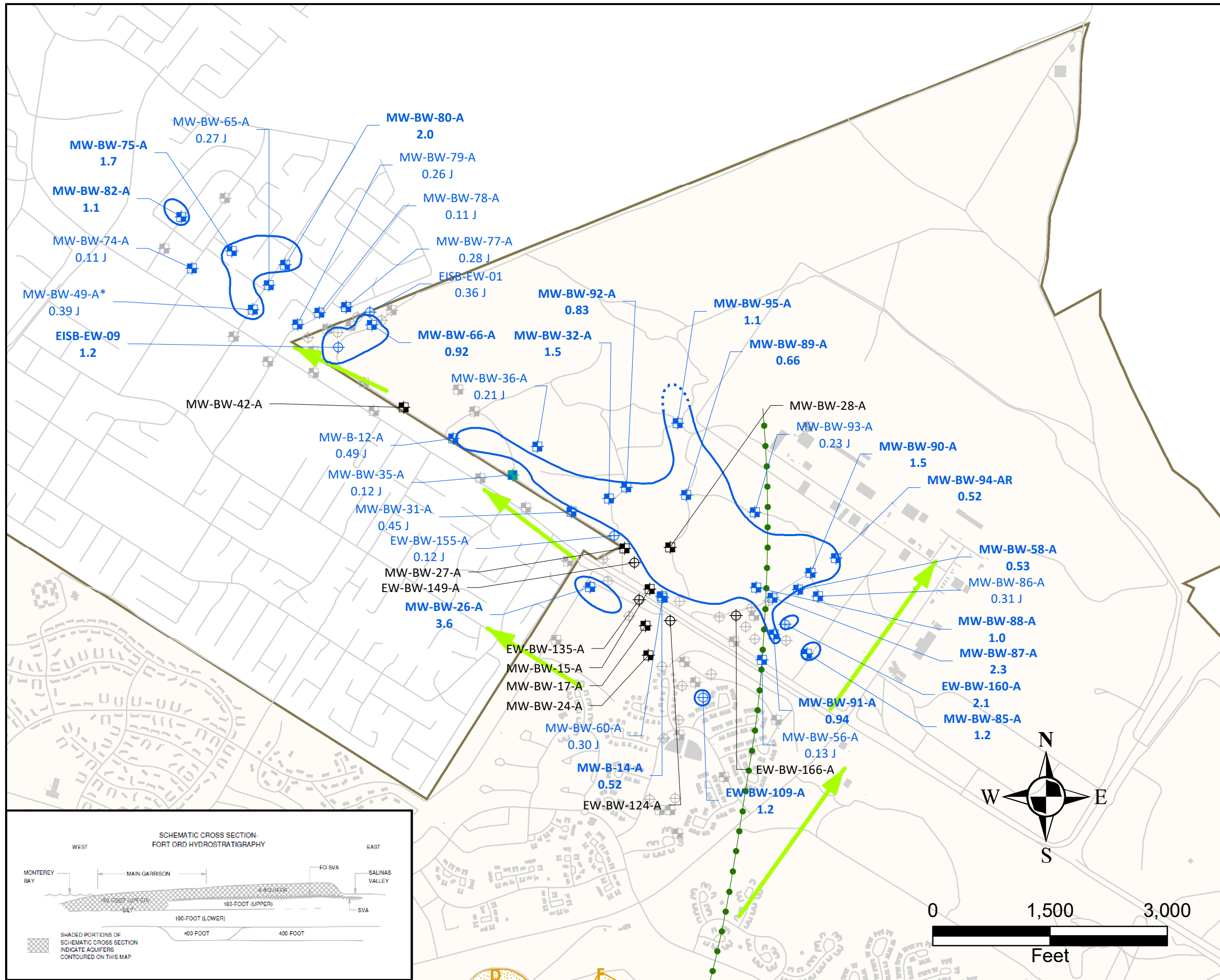
### MP-BW-49-316





### MW-BW-59-180





### EXPLANATION

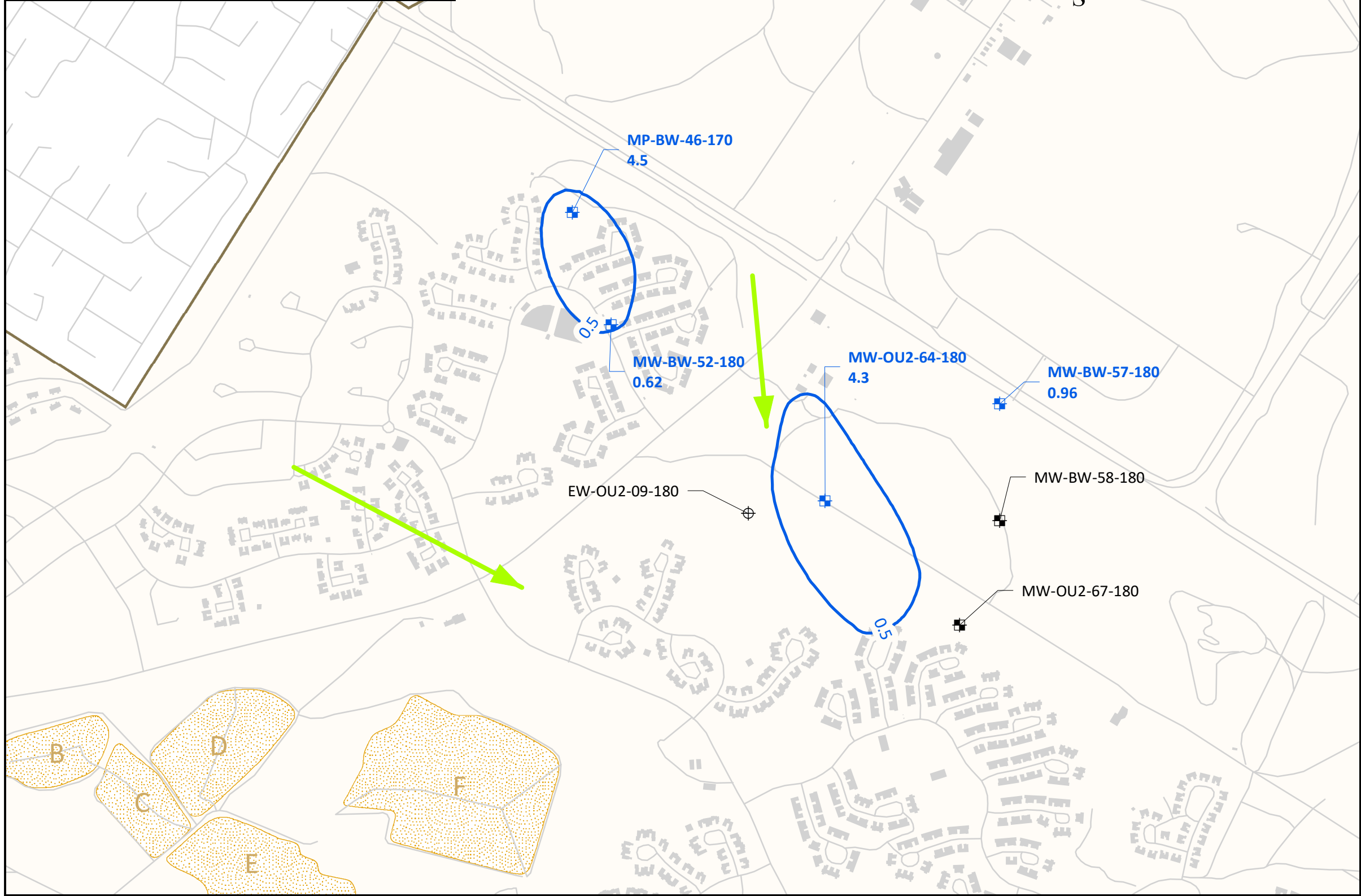
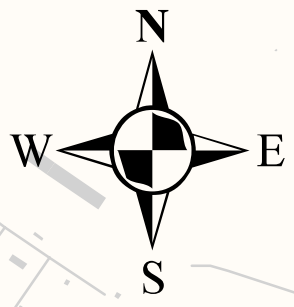
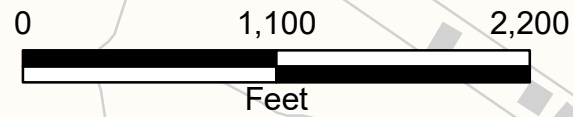
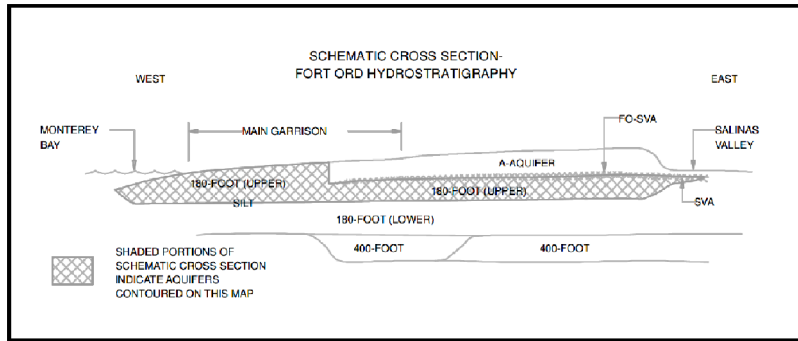
- Extraction Well with CT Detection.
- Monitoring Well with CT Detection.
- Monitoring Well with Chloroform above ACL and CT Detection.
- Extraction Well with No CT Detection.
- Monitoring Well with No CT Detection
- Extraction Well Not Sampled
- Monitoring Well Not Sampled
- MW-BW-88-A**  
1.5 Well ID - Bold When CT Exceeds the ACL.  
CT Concentrations (µg/L) and validation/lab qualifier.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 — Carbon Tetrachloride (CT) Plume Extent
- 0.5 - - - Estimated Carbon Tetrachloride (CT) Plume Extent
- General Groundwater Flow Direction
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Roads
- Facilities
- Approximate extent of landfill areas

- NOTES:**
- (1) Groundwater samples were collected between June 1, 2020 and June 5, 2020.
  - (2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
  - (3) Contours near wells not sampled this quarter are inferred from previous analytical data.

CARBON TETRACHLORIDE CONCENTRATIONS  
A-AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Second Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California



**EXPLANATION**

- Monitoring Well With CT Detection
- Monitoring Well CT Not Detected
- Extraction Well CT Not Detected
- Well ID - Bold When Concentration Exceeds the ACL
- MW-OU2-64-180**  
4.3
- CT Concentrations ( $\mu\text{g/L}$ ) and validation/lab qualifier.

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

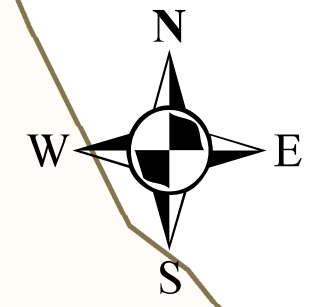
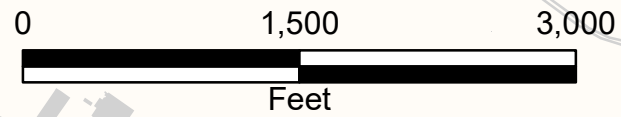
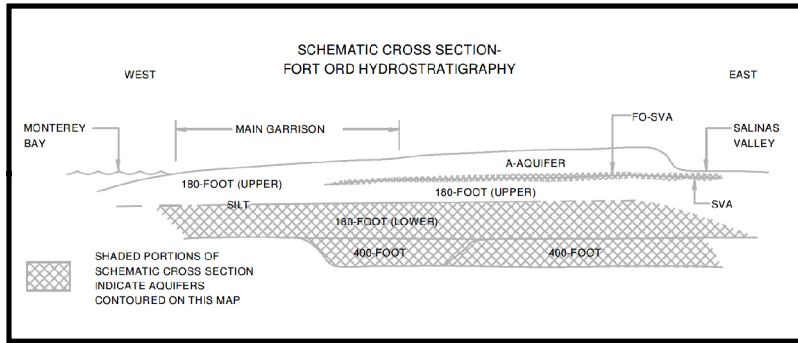
- 0.5 Carbon Tetrachloride (CT)
- General Groundwater Flow Direction
- Roads
- Approximate extent of landfill areas
- Facilities
- Former Fort Ord Boundary

**NOTES:**

- (1) Samples were collected between June 1, 2020 and June 5, 2020.
- (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.

GROUNDWATER ELEVATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Second Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California





### EXPLANATION

- Extraction Well with TCE Detection and No CT Detection.
- Monitoring Well with CT Detection and No TCE Detection.
- Monitoring Well with TCE Detection and No CT Detection.
- Monitoring Well with CT and TCE Detection.
- Marina Coast Active Supply Wells with CT and TCE Detection.

Well ID  
 MP-BW-51-405 Concentration in µg/L and validation/lab qualifier.  
 CT: 0.13 J (blue indicates CT; red indicates TCE)  
 TCE: 1.7  
 CT Bold when COC exceeds the ACL.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT)
- 5.0 Trichloroethane (TCE)
- General Groundwater Flow Direction.
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**NOTES:**

- (1) Groundwater samples were collected between June 1st, 2020 and June 5th, 2020.
- (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) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.



CT AND TCE CONCENTRATIONS  
 LOWER 180-FOOT/400-FOOT AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Second Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California