Former Fort Ord Operable Unit 2 Data and Status

HTW BCT Meeting, May 15, 2019

Table 1: OU2 GWTP Statistics as of April 30, 2019

Monthly Statistics	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
April 2019	36,468,000	844	99.0	2.28
Total since October 1995	7.618 billion			853

Table 2: April 2019 – OU2 Analytical Results at TS-OU2-INJ-01

COC	Discharge Limit (µg/L)	Analytical Results (µg/L)
		4/15/2019
1,1-dichloroethane (1,1-DCA)	5.0*	ND (0.25)
1,2-dichloroethane (1,2-DCA)	0.5	ND (0.25)
1,2-dichloropropane (1,2-DCP)	0.5	ND (0.25)
Benzene	0.5	ND (0.25)
Carbon tetrachloride (CT)	0.5	ND (0.25)
Chloroform	2.0*	ND (0.25)
Cis-1,2-dichloroethene (cis-1,2-DCE)	6.0*	ND (0.25)
Methylene Chloride	0.5	ND (0.50)
Tetrachloroethene (PCE)	0.5	ND (0.25)
Trichloroethene (TCE)	0.5	ND (0.25)
Vinyl chloride (VC)	0.1	ND (0.05)

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

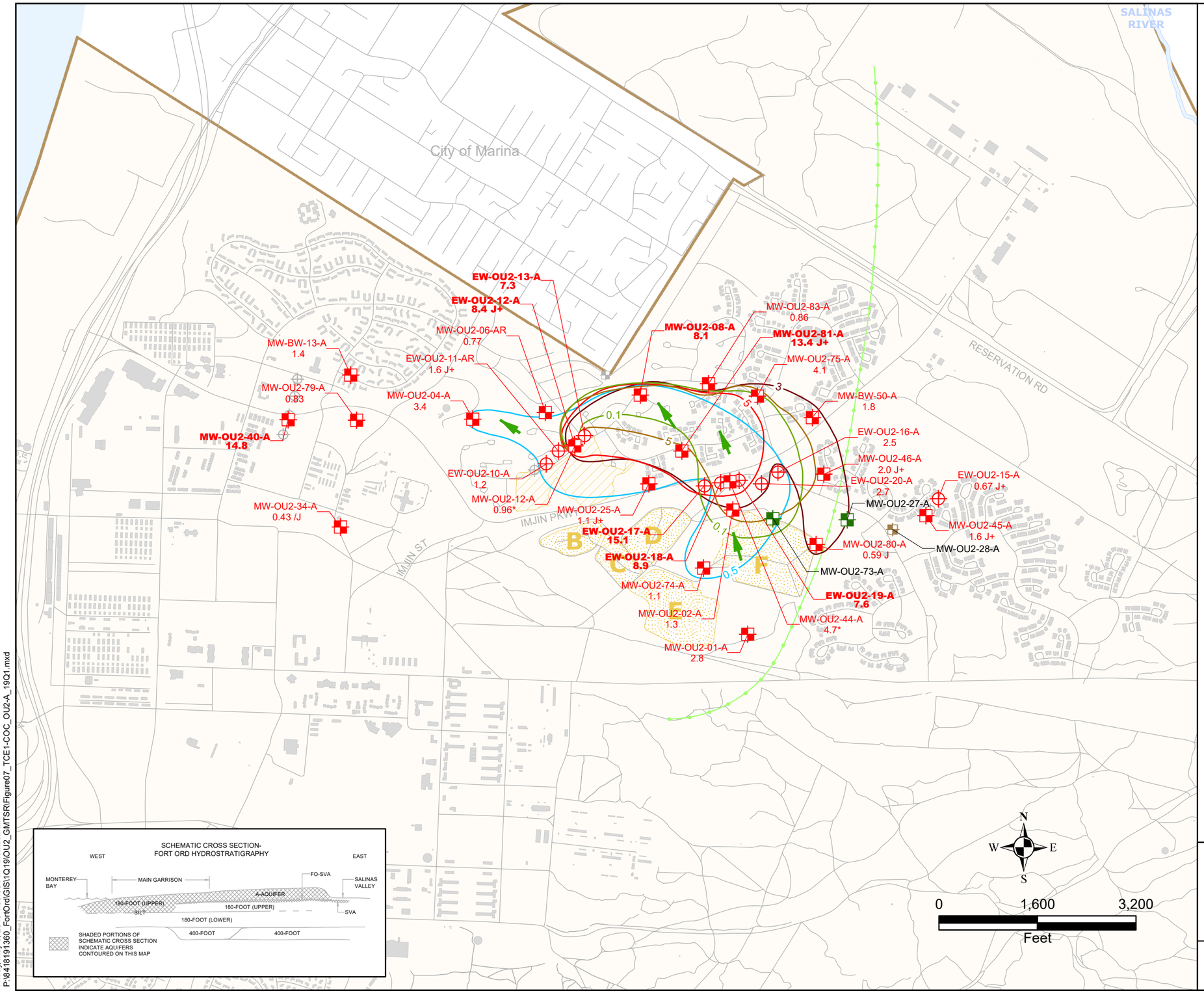
April 2019 Key Events for OU2

- April 2: OU2 GWTP shut down for 2 hours due to effluent pipe repair by JV.
- April 9: demolition of GWTP-E started.
- April 10: OU2 GWTP shut down for 3 hours due to JV work on flange near 12th Street.
- April 12: Eastern network shut down due to leak detector issue. Restarted EW-OU2-10-A, EW-OU2-12-A, and EW-OU2-13-A on April 22. EW-OU2-11-AR restarted April 23 after water removed from the vault. EW-OU2-02-180R restarted April 25, flow meter not functioning.
- April 22: demolition of GWTP-E complete.
- April 27: OU2 GWTP shut down for 2.5 hours due to communications issue.

May 2019 Key Events for OU2

- Prepare for Western Network and EW-OU2-09-A connection and operation.

Ahtna



EXPLANATION

- Monitoring Well with TCE Detection
- Extraction Well with TCE Detection
- Well ID - Bold When ACL Exceeded (* Indicates: Sample result not used for contouring)
- MW-BW-50-A 1.8 — TCE Concentration (µg/L) and validation/lab qualifier. Bold when concentration exceeds the ACL.
- Monitoring Well with COC ACL Exceedance (not TCE)
- Extraction Well with COC ACL Exceedance (not TCE)
- Monitoring Well TCE Not Detected, and No Other COC ACL Exceedances
- Extraction Well TCE Not Detected, and No Other COC ACL Exceedances
- Monitoring Well Not Sampled This Quarter
- Extraction Well Not Sampled This Quarter

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

- 5 — Tricholorethene (TCE)
- 3 — Tetrachloroethene (PCE)
- 5 — 1,1-Dichloroethane (1,1-DCA)
- 0.5 — 1,2-Dichloroethane (1,2-DCA)
- 0.1 — Vinyl chloride (VC)
- General Groundwater Flow Direction

Approximate Extent of Landfill Areas

- OU2 Landfill Areas B through F
- Area A (clean closed)
- Approximate Location of a Groundwater Divide
- Roads
- Facilities
- Former Fort Ord Boundary

NOTES:

(1) Samples were collected on January 22 and between February 28 and March 8, 201.

(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.

(4) Contours near wells not sampled this quarter are inferred from previous analytical data.

TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
A-AQUIFER
Operable Unit 2
First Quarter 2019
Groundwater Monitoring and Treatment System Report
Former Fort Ord, California

wood.

By: TJH

Date: 05/03/2019

Project No. 8418191360

Figure 7

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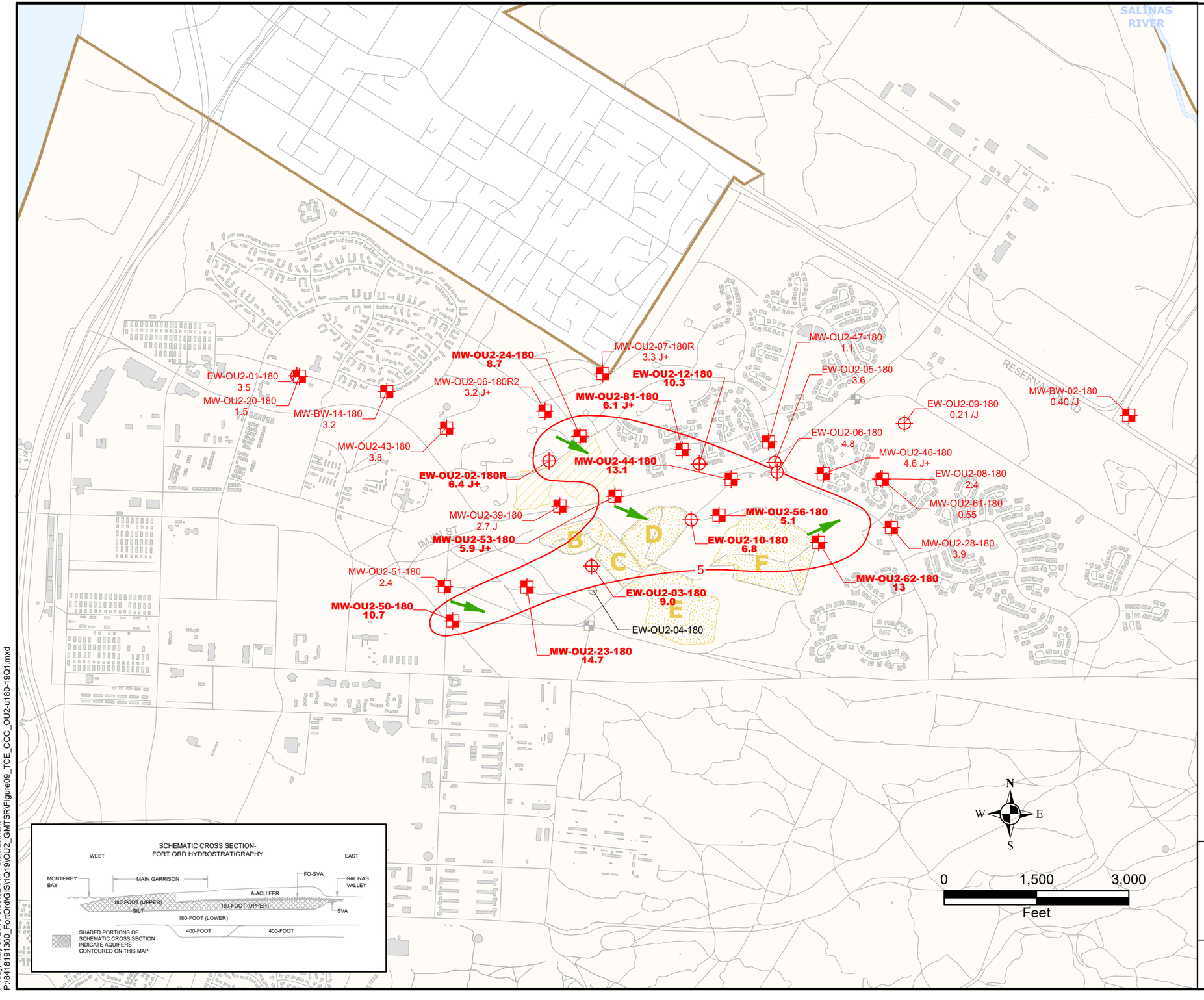

EXPLANATION

- Monitoring Well with TCE Detection
- Extraction Well with TCE Detection
- MW-BW-02-180 / 0.16 A/J — Well ID - Bold When ACL Exceeded (* Indicates: Sample result not used for contouring); TCE concentration (µg/L) and validation/lab qualifier. Bold when concentration exceeds the ACL.
- Monitoring Well TCE Not Detected, and No Other COC ACL Exceedances
- Extraction Well TCE Not Detected, and No Other COC ACL Exceedances
- Monitoring Well Not Sampled This Quarter
- Extraction Well Not Sampled This Quarter

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

- 5 — Tricholorethene (TCE)
- General Groundwater Flow Direction

Approximate extent of Fort Ord Landfill Areas

- OU2 Landfill Areas B through F
- Area A (clean closed)
- Roads
- Facilities
- Former Fort Ord Boundary

NOTES:

(1) Samples were collected on January 22, 2019 and between February 28 and March 7, 2019.

(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.

(4) Contours near wells not sampled this quarter are inferred from previous analytical data.

TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
UPPER 180-FOOT AQUIFER
Operable Unit 2
Frrst Quarter 2019
Groundwater Monitoring and Treatment System Report
Former Fort Ord, California

wood.

By: TJH

Date: 05/03/2019

Project No. 8418191360

Figure 9

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