

Operable Unit 2 Data and Status

Table 1: Feb – Apr 2023 – OU2 GWTP Statistics

Monthly Statistics	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (pounds)
Feb 2023	41,661,648	1,033	100	2.2
Mar 2023	46,046,160	1,032	100	2.5
Apr 2023	44,828,467	1,038	100	2.4
Total since October 1995	9.491 billion			966

Remedial Summary

- **11 COCs:** 1,1-DCA; 1,2-DCA; 1,2-DCPA; benzene; CT; chloroform; cis-1,2-DCE; methylene chloride; PCE; TCE; and VC. Metals monitored annually near OU2 Landfills.
- **Remediation:** Pump and treat with GAC in the A-Aquifer and Upper 180-Foot Aquifer since 1995. Extraction wells added in 2000 and 2007. OU2 GWTP relocated from the western network area to OU2 Landfills, extraction wells added in 2018.
- **Monitoring:** Quarterly groundwater monitoring and reporting, including annual 3Q monitoring and reports. Described in the most recent Groundwater QAPP.

Feb – Apr 2023 OU2 treated water at TS-OU2-INJ-01 did not exceed discharge limits

Feb-May Key Events

- Feb 2: EW-OU2-05-A online after troubleshooting and maintenance. Replaced motor starter coil and blown fuse.
- Feb 13-17: First Quarter 2023 GWMP event.
- Feb 16: EW-OU2-05-A offline again. Restarted Feb 22 after troubleshooting and maintenance on breaker box.
- Feb 22: Loose wiring caused faults on Abrams/Imjin PLC. Repaired.
- Feb 28: GAC change-out of primary vessels.
- Mar 6: OU2 GWTP Injection sampling, all COCs ND.
- Apr 24: Flowmeter reprogrammed at EW-OU2-06-AR.
- Apr 25: Replaced failed pump at EW-OU2-11-AR, well online.
- Apr 26-27: Extraction well sampling for Second Quarter 2023, results pending.
- May 3: OU2 GWTP sampling at all stations, Injection sample had MC above discharge limit due to lab contamination.
- May 15-19: Second Quarter 2023 GWMP event.

Future Key Events

- Evaluate capture with low flow of offline EW-OU2-11-180 due to failed pump on 1/9/2023.
- Evaluate decline in performance of IW-OU2-04-180 and IW-OU2-05-180.
- Oct: Replace effluent pump P2 failed VFD.

GWM COC Summary

Table 2: OU2 GWM Summary – A-Aquifer

Quarter	1,1-DCA	1,2-DCA	1,2-DCPA	Benzene	CT	Chloroform	Cis-1,2-DCE	Methylene Chloride	PCE	TCE	VC
2023-1Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
2022-4Q	>ACL	>ACL	<ACL	<ACL	<ACL	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
2022-3Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	ND	>ACL	>ACL	>ACL
2022-2Q	>ACL	>ACL	<ACL	<ACL	ND	>ACL	>ACL	<ACL	>ACL	>ACL	>ACL
Max COC/ACL Ratio	4.4	7.6	-	-	-	2.6	1.9	-	3.6	3.6	74
Hydraulic Zone	5	5	-	-	-	5	1	-	5	4	1

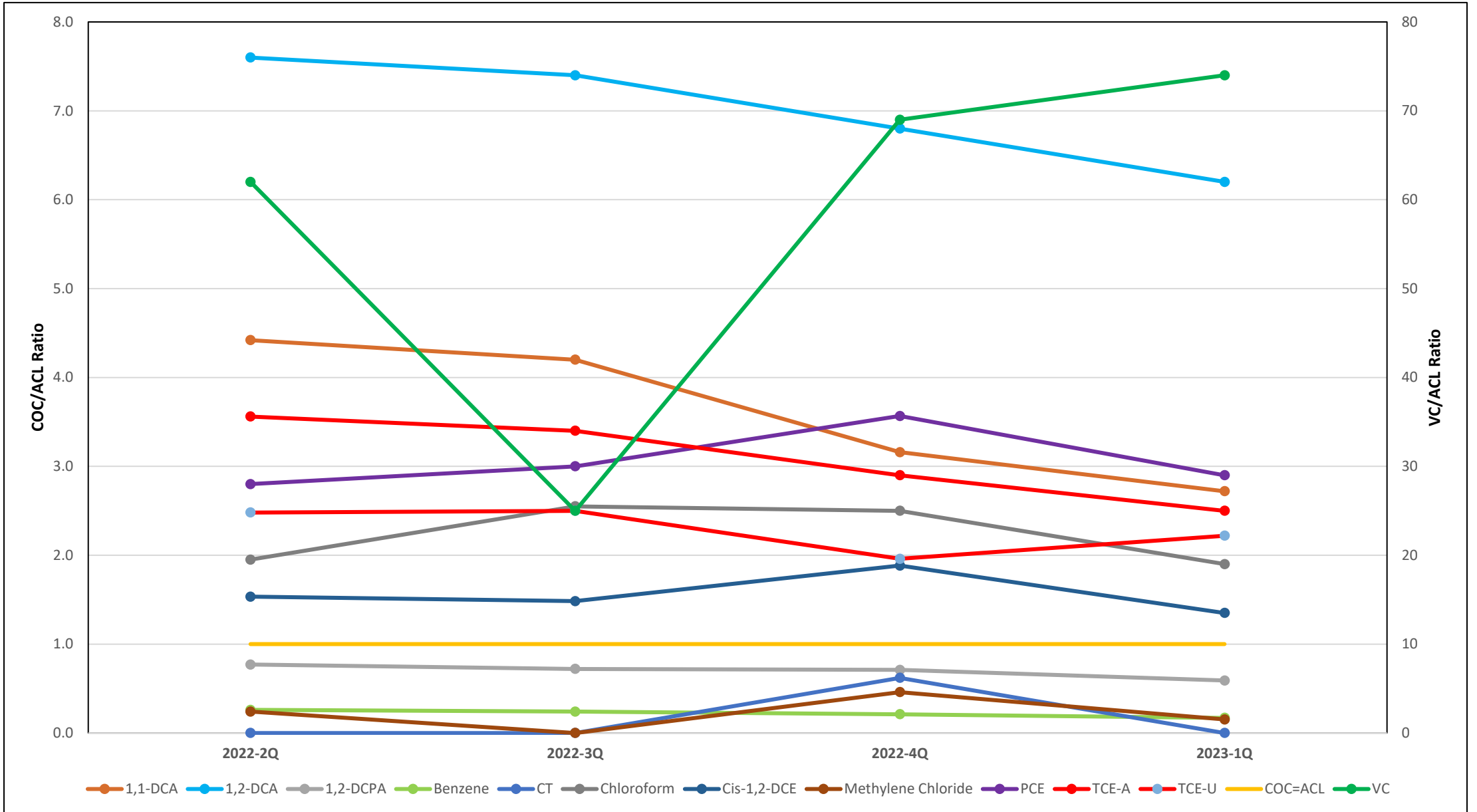
Notes:
 >: greater than
 <: less than
 ACL: Aquifer Cleanup Level
 1,1-DCA: 1,1-dichloroethane
 1,2-DCA: 1,2-dichloroethane
 1,2-DCPA: 1,2-dichloropropane
 CT: carbon tetrachloride
 Cis-1,2-DCE: cis-1,2-dichloroethene
 TCE: trichloroethene
 PCE: tetrachloroethene
 VC: vinyl chloride
 ND: The analyte was not detected above the detection limit.

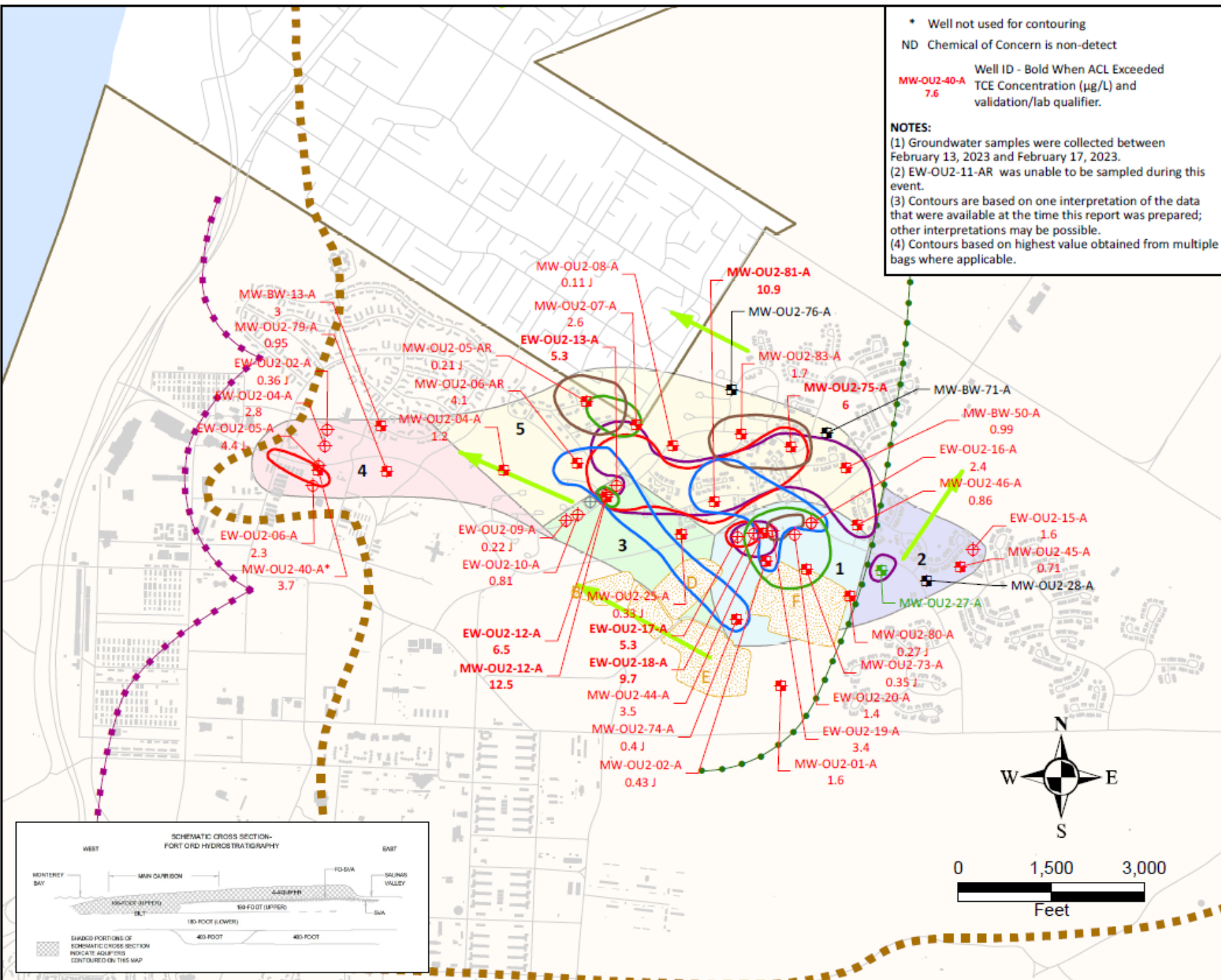
Table 3: OU2 GWM Summary – Upper 180-Foot Aquifer

Quarter	1,1-DCA	1,2-DCA	1,2-DCPA	Benzene	CT	Chloroform	Cis-1,2-DCE	Methylene Chloride	PCE	TCE	VC
2023-1Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2022-4Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2022-3Q	<ACL	ND	<ACL	ND	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
2022-2Q	<ACL	ND	ND	<ACL	<ACL	<ACL	<ACL	ND	<ACL	>ACL	ND
Max COC/ACL Ratio	-	-	-	-	-	-	-	-	-	2.5	-
Hydraulic Zone	-	-	-	-	-	-	-	-	-	7	-

7 COCs in the A-Aquifer and 1 in the Upper 180-Foot Aquifer above the ACLs. 4 COCs max in Hydraulic Zone 5.

Max Quarterly COC/ACL Ratio Trend





* Well not used for contouring
 ND Chemical of Concern is non-detect

Well ID - Bold When ACL Exceeded
MW-OU2-40-A
 7.6
 TCE Concentration ($\mu\text{g/L}$) and validation/lab qualifier.

NOTES:
 (1) Groundwater samples were collected between February 13, 2023 and February 17, 2023.
 (2) EW-OU2-11-AR was unable to be sampled during this event.
 (3) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
 (4) Contours based on highest value obtained from multiple bags where applicable.

EXPLANATION

- Roads
- Approximate edge of the Fort Ord-Salinas Valley Aquitard (FO-SVA)
- General groundwater flow direction
- Facilities
- Approximate extent of landfill areas (Areas B through F)
- Former Fort Ord boundary

Well Type and COC Detection

- Extraction well with trichloroethane (TCE) detected
- Extraction well not sampled
- Monitoring well with TCE detected
- Monitoring well with non-detect (ND) for TCE and no COC ACL exceedance
- Monitoring well with non-detect (ND) for TCE and with COC ACL exceedance

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

- 5 Trichloroethene (TCE) plume extent
- 3 Tetrachloroethane (PCE) plume extent
- 5 1,1-Dichloroethane (1,1-DCA) plume extent
- 0.5 1,2-Dichloroethane (1,2-DCA) plume extent
- 0.1 Vinyl Chloride (VC) plume extent

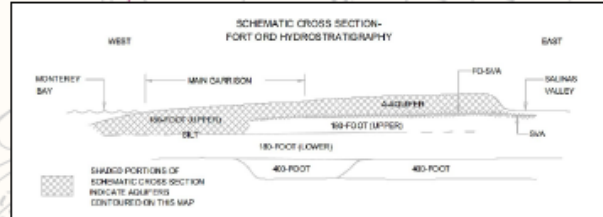
Groundwater Aquifer Divide

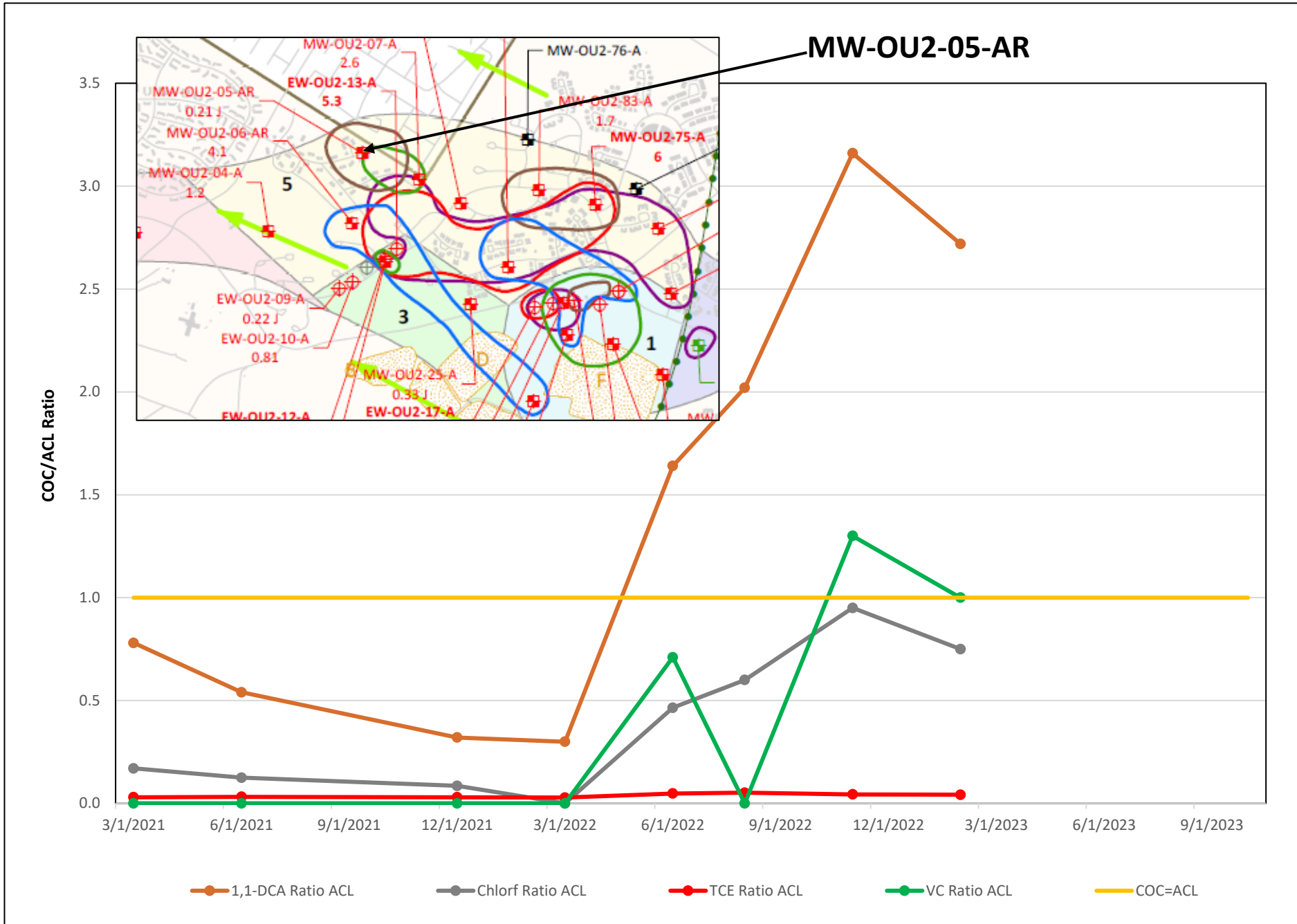
- Approximate location of the Upper 180-Foot Aquifer groundwater divide
- Approximate location of the A-Aquifer groundwater divide

OU2 A-Aquifer Hydraulic Zone

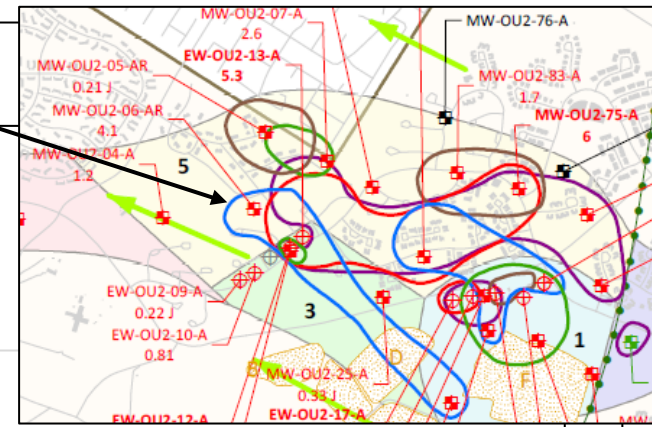
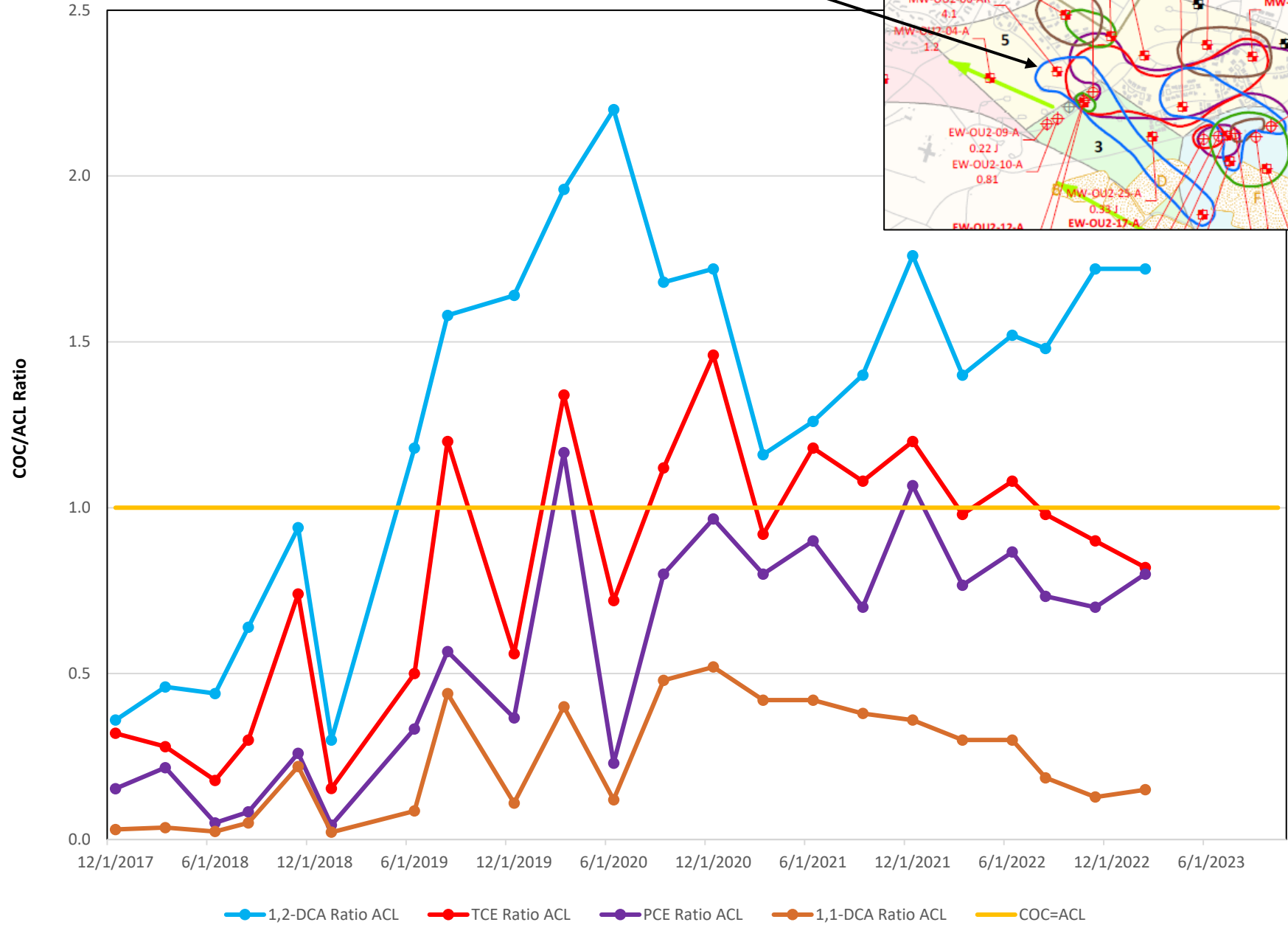
- 1
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- 3
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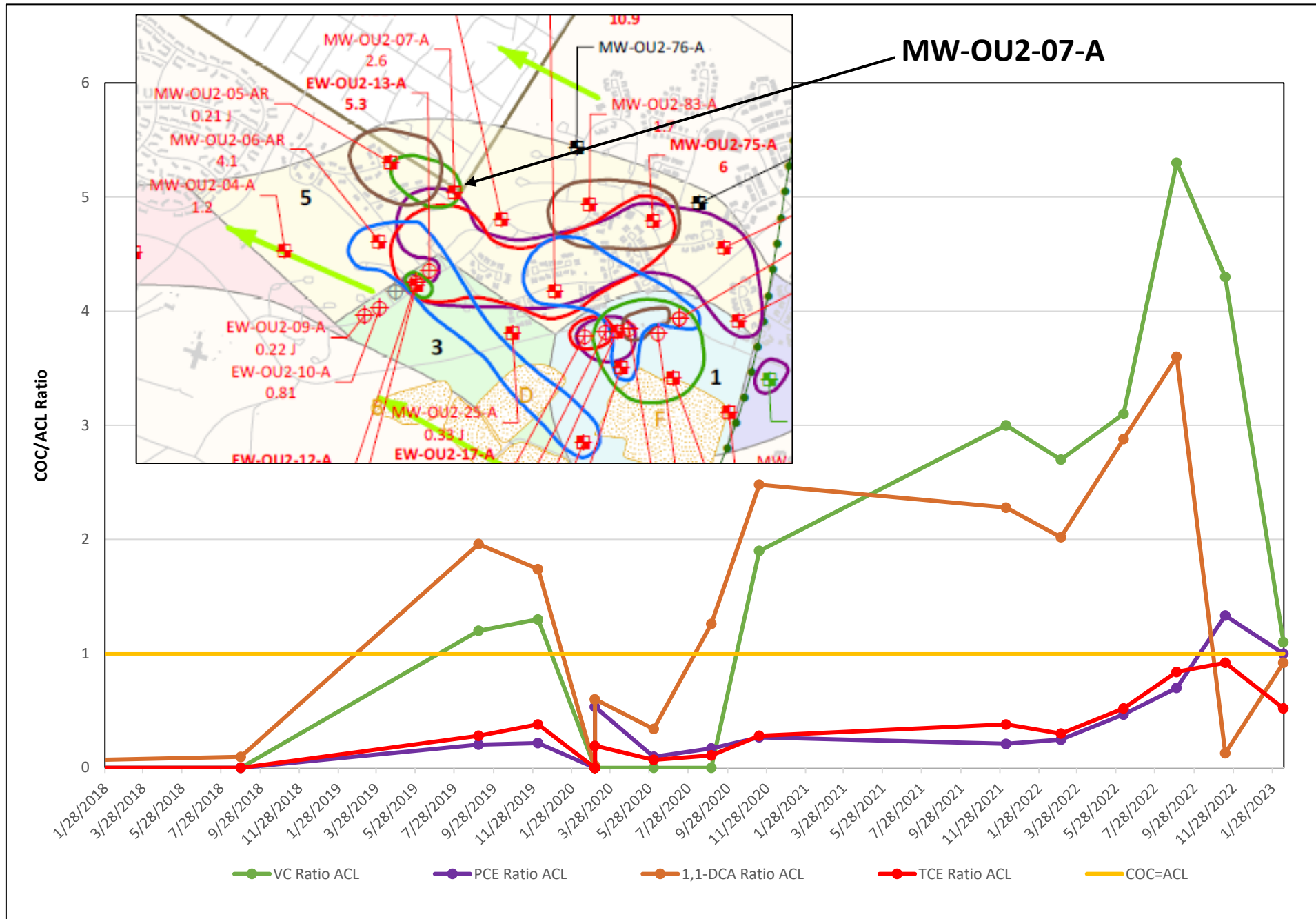
TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
 A-AQUIFER
 FIRST QUARTER 2023
 Operable Unit 2, First Quarter 2023, Groundwater
 Monitoring and Treatment Report
 Former Fort Ord, California

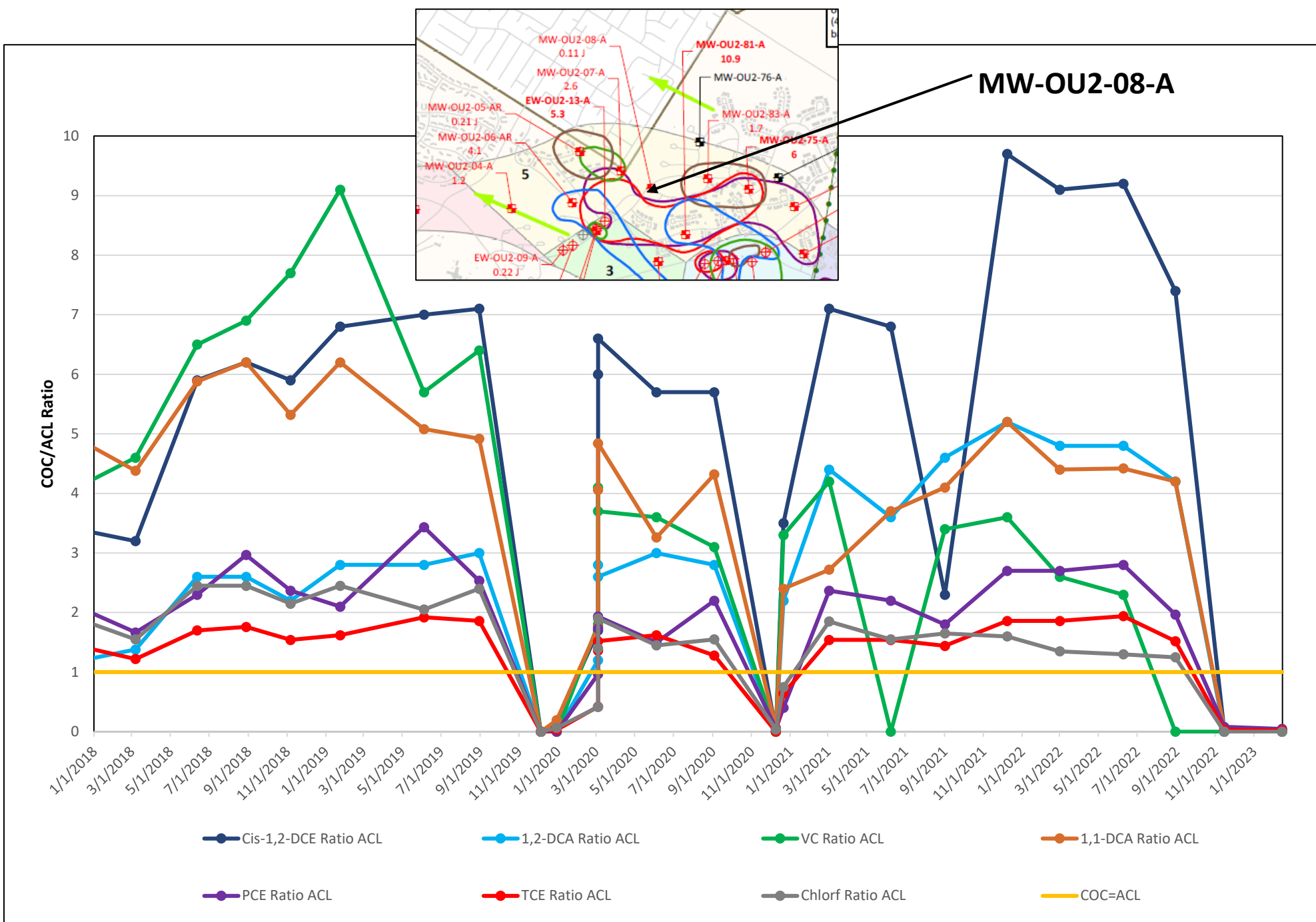


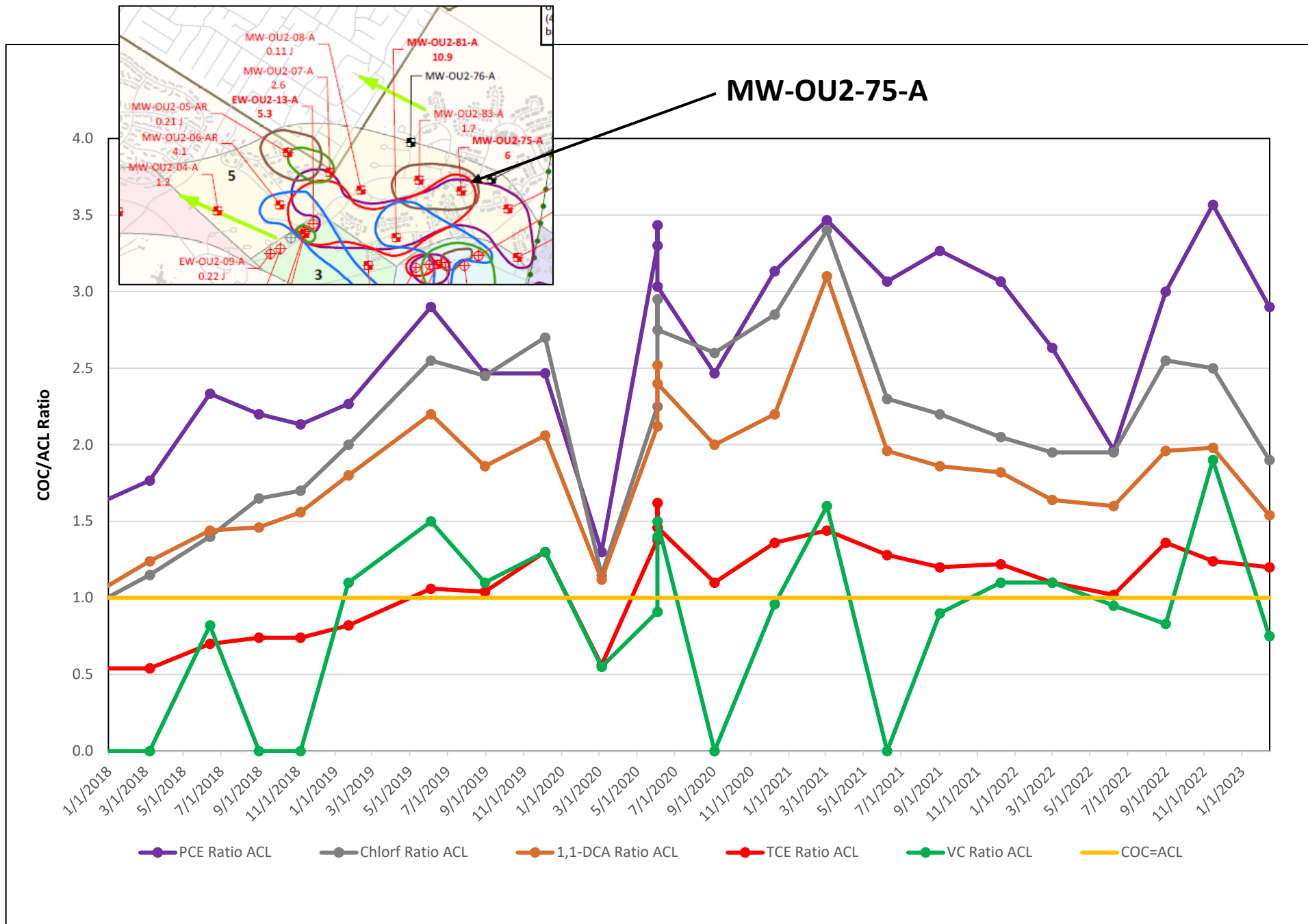


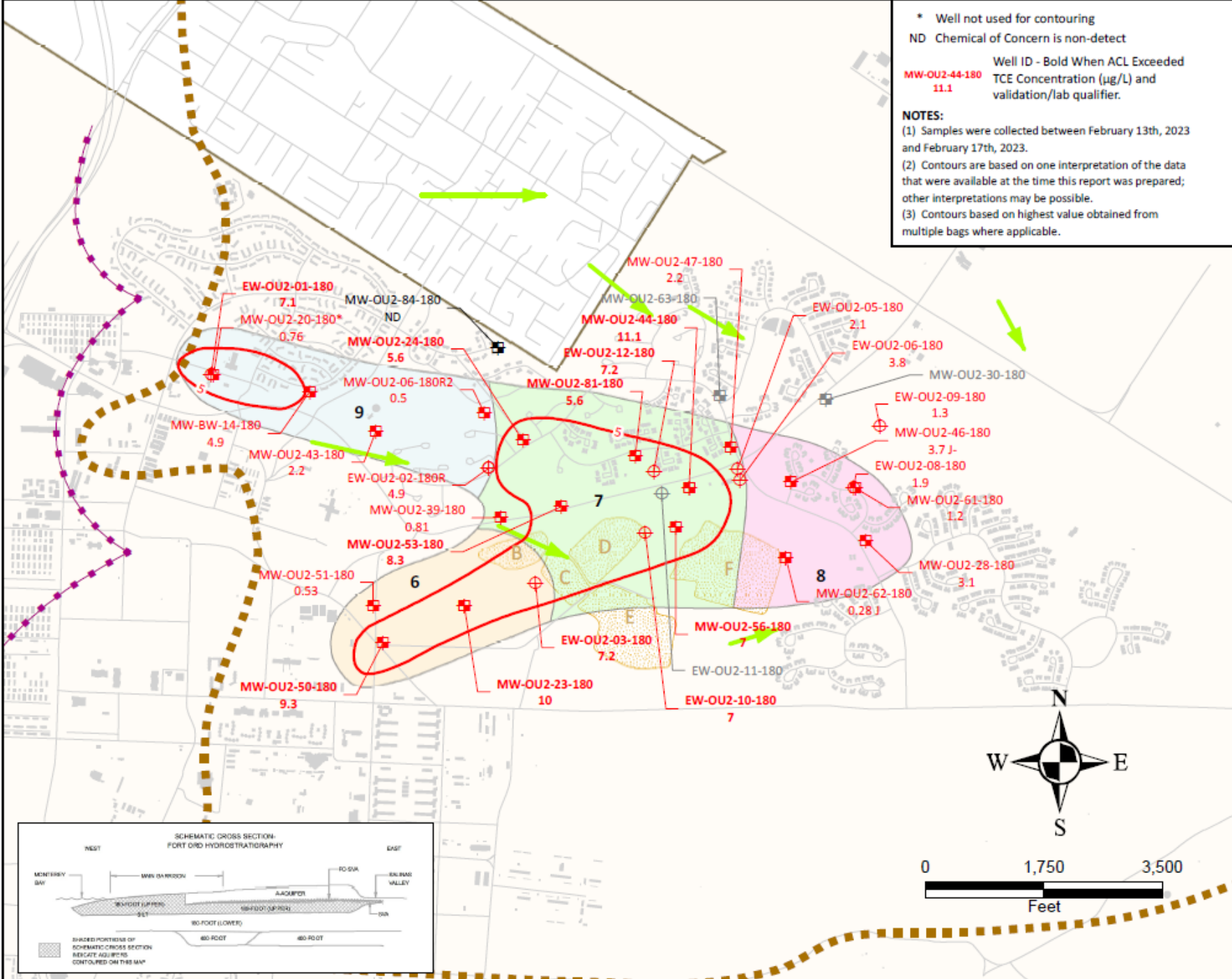
MW-OU2-06-AR









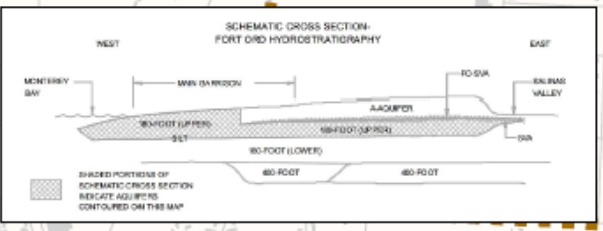
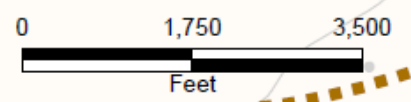


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 Well ID - Bold When ACL Exceeded
 TCE Concentration (µg/L) and validation/lab qualifier.

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- Well Type and COC Detection**
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- ⊖ 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 2023
 Operable Unit 2, First Quarter 2023 Groundwater
 Monitoring and Treatment System Report
 Former Fort Ord, California

