Former Fort Ord Sites 2 and 12 Data and Status

HTW BCT, August 15, 2018

Table 1: Sites 2/12 GWTP and SVTU Statistics as of July 31, 2018

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
July 2018 GWTP	5,004,805 gal	112 gpm	99.8	0.30
Total since April 1999	2.038 billion gal			484
July 2018 SVTU	23,303,940 scf	527 scfm	99.7	0.06
Total since Sept 2015	1.193 billion scf			9.4

Table 2: July 2018 – Sites 2/12 Treated Water Analytical Results at TS-212-INJ

COC	Discharge Limit (µg/L)[2]	Sample Date / Analytical Results	
		07/10/2018	07/24/2018
1,1-Dichloroethene (1,1-DCE)	6.0	ND (0.25)	ND (0.25)
1,2-Dichloroethane (1,2-DCA)	0.50	ND (0.25)	ND (0.25)
1,3-dichloropropene (1,3-DCP)[1]	0.50	ND (0.25)	ND (0.25)
Chloroform	2.0	ND (0.25)	ND (0.25)
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	0.10 J	ND (0.25)
Tetrachloroethene (PCE)	5.0	0.16 J	ND (0.25)
Trichloroethene (TCE)	5.0	0.11 J	ND (0.25)
Vinyl Chloride (VC)	0.10	ND (0.05)	ND (0.05)

Notes:
[1] The reported value is the sum of both cis- and trans-isomers.
[2] Discharge limits are the ACLs for injection over the plume.
J: Estimated results below the limit of quantitation (LOQ).
ND: The analyte was not detected at or above the limit of detection (LOD).
gpm: gallon(s) per minute
gal: gallon(s)
COC: chemical of concern
NS: Not sampled
scf: standard cubic foot or feet
scfm: standard cubic feet per minute
µg/L: micrograms per liter
Results in gray are ND

July 2018 Key Events for Sites 2/12

- July 3: Sites 2/12 GWTP shut down for 1.5 hours due to a power outage.
- July 15 and 20: SVETS offline for 2 hours to check sumps, which were empty.
- July 30: turned off VE-12-06 and VE-12-10 per QAPP decision rules and regulatory agency concurrence; VE-12-09 is the only SVE well online.

August 2018 Key Events for Sites 2/12

- August 13-17: Third Quarter 2018 Soil Gas Monitoring Program.
- August 22: OU2 transition period begins for 4-6 weeks. Sites 2/12 GWTP to be operated during business hours only due to SCADA link to OU2.
- August 27-31: Third Quarter 2018 Groundwater Monitoring Program.
- Decommissioning one Sites 2/12 monitoring well.

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Table 3. Sites 2/12 Select Groundwater Extraction/Monitoring Well Data

Well Identification[3]	Select COC Concentrations (µg/L)[4]			
	1Q 2018	2Q 2018	1Q 2018	2Q 2018
	TCE		PCE	
ACL:	5.0		5.0	
EW-12-03-180M	2.2	3.3	0.13 J	0.42 J
EW-12-05-180M	2.1	2.5	0.80	0.86
EW-12-07-180M	2.7	2.9	0.51	0.51
EW-12-08-180U	0.42 J	0.50	**11.3**	**10.2**
MW-12-09R-180	3.9	3.1	0.49 J	0.45 J
MW-12-14-180M	2.1	3.1	0.39 J	0.41 J
MW-12-16-180M	1.8	1.4	ND (0.25)	ND (0.25)
MW-12-20-180U	ND (0.25)	0.13 J	**6.6**	2.5
MW-12-21-180U	ND (0.25)	ND (0.25)	0.35 J	0.13 J
MW-12-24-180U	0.17 J	ND (0.25)	2.0	0.81
MW-12-25-180U	ND (0.25)	ND (0.25)	0.34 J	0.16 J
MW-12-28-180U	0.16 J	ND (0.25)	0.44 J	0.41 J
MW-12-31-180M	ND (0.25)	ND (0.25)	0.26 J	0.31 J
MW-12-32-180U	1.2	0.96	0.36 J	0.47 J

Notes:
[1] The reported value is the sum of both cis- and trans-isomers.
[2] Discharge limits are the ACLs for injection over the plume.
[3] Extraction wells not listed have met the QAPP decision rules to no longer operate.
[4] Concentration in **bold** and shaded exceeds the Aquifer Cleanup Level (ACL). Concentrations in gray text are ND.
J: Estimated results below the limit of quantitation (LOQ)
ND: The analyte was not detected at or above the limit of detection (LOD)
COC: chemical of concern
µg/L: micrograms per liter

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0 500 1,000
Feet

Monterey Bay

IMJIN PKWY

EW-12-08-180U
PCE 10.2 A
TCE 0.50 A

MW-12-24-180U
PCE 0.81 A

MW-12-20-180U
PCE 2.5 A
TCE 0.13 A/J

MW-12-09R-180
PCE 0.45 A/J
TCE 3.1 A

MW-12-21-180U
PCE 0.13 A/J

MW-12-14-180M
PCE 0.41 A/J
TCE 3.1 A

MW-12-25-180U
PCE 0.16 A/J

EW-12-05-180M
PCE 0.86 A
TCE 2.5 A

MW-12-22-180U
PCE 0.52 A
TCE 0.10 A/J

5

MW-12-28-180U
PCE 0.41 A/J

MW-12-15-180M
PCE 0.53 A
TCE 2.4 A

MW-12-26-180U
PCE 0.41 A/J

EW-12-07-180M
PCE 0.51 A
TCE 2.9 A

MW-12-01-180
PCE 0.49 A/J
TCE 0.26 A/J

EW-12-03-180M
PCE 0.42 A/J
TCE 3.3 A

MW-12-29-180U
PCE 0.43 A/J

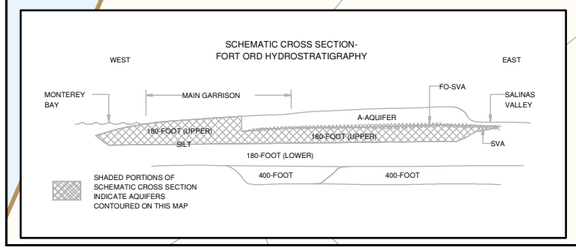
MW-02-13-180M
TCE 2.2 A

MW-12-16-180M
TCE 1.4 A

MW-12-30-180U
PCE 0.66 A
TCE 0.24 A/J

MW-12-32-180U
PCE 0.47 A/J
TCE 0.96 A

MW-12-31-180M
PCE 0.31 A/J



EXPLANATION

- Monitoring Well with TCE Detection, and No ACL Exceedances by Other COCs
- Monitoring Well with PCE Detection and No ACL Exceedances by other COCs
- Monitoring Well with TCE and PCE Detection
- Extraction Well with TCE and PCE Detection

MW-12-01-180
PCE 0.49 A/J
TCE 0.26 A/J

- Well ID - Bold When ACL Exceeded (* Indicates: Sample result not used for contouring)
- TCE and/or PCE concentration (µg/L) with validation/lab qualifier. Bold when exceeds the ACL.
- Monitoring Well - TCE or PCE 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 — Tetrachloroethene (PCE)
- Roads
- Facilities
- Former Fort Ord Boundary

NOTES:

(1) Samples were collected between June 11 and 14, 2018.

(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) Other COC ACL exceedances detected beyond the extent of the PCE plume are illustrated when present.

GROUNDWATER PCE/TCE CONCENTRATIONS
AND OTHER COC ACL EXCEEDANCES
UPPER 180-FOOT AQUIFER
Sites 2 and 12 Second Quarter 2018 Groundwater and Soil Gas Monitoring and Treatment System Report
Former Fort Ord, California

wood.	By: TJH	Project No. 8417190510
	Date: 07/31/2018	Figure 12

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