

Former Fort Ord Sites 2 and 12 Data and Status

HTW BCT Meeting, February 1, 2019

Table 1: Sites 2/12 GWTP and SVTU Statistics as of January 25, 2019

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
January 2019 GWTP	2,897,136 gal	65 gpm	55	0.17
Total since April 1999	2.056 billion gal			485
January 2019 SVTU	20,041,181 scf	450 scfm	99.7	0.04
Total since September 2015	1.323 billion scf			9.7

Table 2: January 2019 – Sites 2/12 Treated Water Analytical Results at TS-212-INJ

COC	Discharge Limit (µg/L) ²	Sample Date / Analytical Results
		1/16/2019
1,1-Dichloroethene (1,1-DCE)	6.0	ND (0.25)
1,2-Dichloroethane (1,2-DCA)	0.50	ND (0.25)
1,3-dichloropropene (1,3-DCP) ¹	0.50	ND (0.25)
Chloroform	2.0	ND (0.25)
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	ND (0.25)
Tetrachloroethene (PCE)	5.0	0.26 J
Trichloroethene (TCE)	5.0	0.16 J
Vinyl Chloride (VC)	0.10	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

January 2019 Key Events for Sites 2/12

- October 12 to January 23: Manual 2/12 GWTS operations
- January 13: SVTU offline for two hours for monthly maintenance.
- January 24: Temporary SCADA communications setup to return to 24-hour normal Sites 2/12 GWTP operations.

February 2019 Key Events for Sites 2/12

- Troubleshoot SCADA communications issues.
- Recommend turning off SVETS and performing rebound study for 1Q and 2Q.
- February 20-22: First Quarter 2019 Soil Gas Monitoring.



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

Well Identification ³	Select COC Concentrations (µg/L) ⁴			
	3Q 2018	4Q 2018*	3Q 2018	4Q 2018*
	TCE		PCE	
ACL:	5.0		5.0	
EW-12-03-180M	2.0	1.8	0.12 J	0.42 J
EW-12-05-180M	2.4	2.1	0.82	0.81
EW-12-07-180M	2.5	2.0	0.47 J	0.47 J
EW-12-08-180U	0.52	0.58	12.3	18.2
MW-12-09R-180	2.8	0.87	0.41 J	0.32 J
MW-12-14-180M	3.0	1.7	0.42 J	0.32 J
MW-12-16-180M	1.4	0.83	ND (0.25)	ND (0.25)
MW-12-20-180U	0.15 J	0.17 J	7.7	20.0
MW-12-21-180U	ND (0.25)	ND (0.25)	0.49 J	0.55
MW-12-24-180U	ND (0.25)	0.12 J	0.60	2.0
MW-12-28-180U	ND (0.25)	ND (0.25)	0.32 J	0.39 J
MW-12-32-180U	0.48 J	0.58	0.41 J	0.54

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)

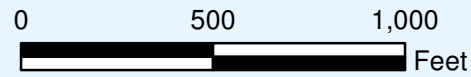
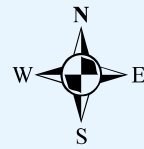
ND: The analyte was not detected at or above the limit of detection (LOD)

COC: chemical of concern

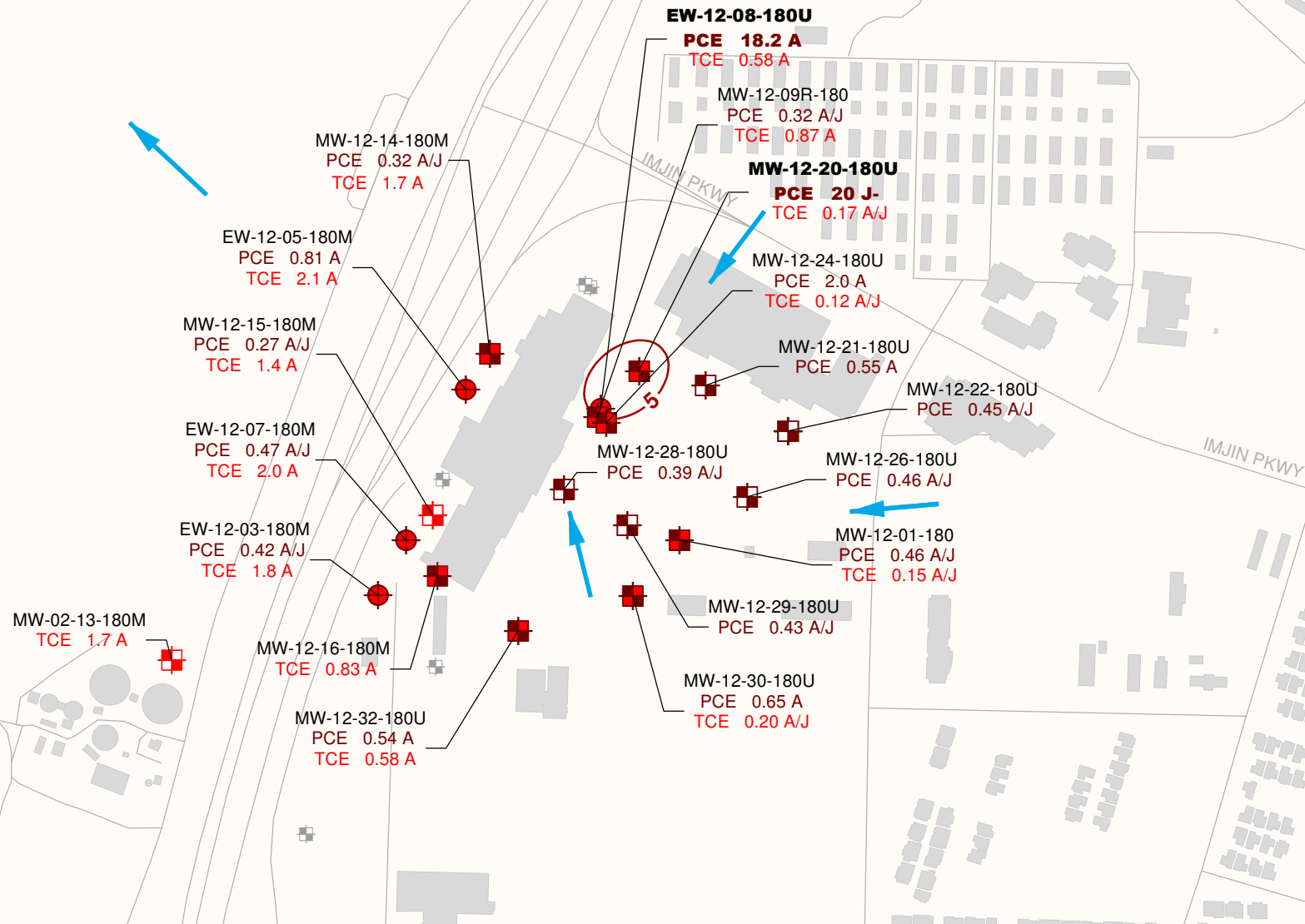
µg/L: micrograms per liter

* Preliminary data

DRAFT



Monterey Bay



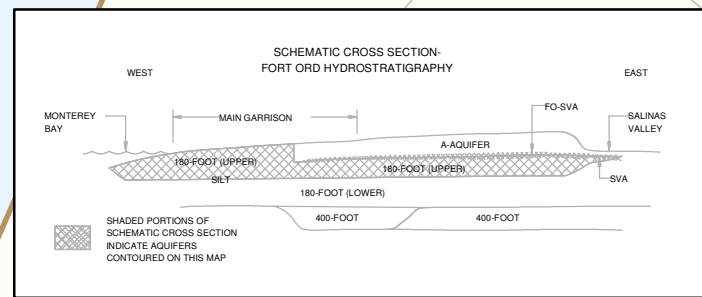
EXPLANATION

- Monitoring Well with TCE Detection, and No ACL Exceedances by Other COCs
- Monitoring Well with PCE Detection and No Exceedances by other COCs
- Monitoring Well with TCE and PCE Detection
- Extraction Well with TCE and PCE Detection
- Monitoring Well with COC ACL exceedance (not TCE or PCE)
- 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)
- General Groundwater Flow Direction
- Roads
- Facilities
- Former Fort Ord Boundary

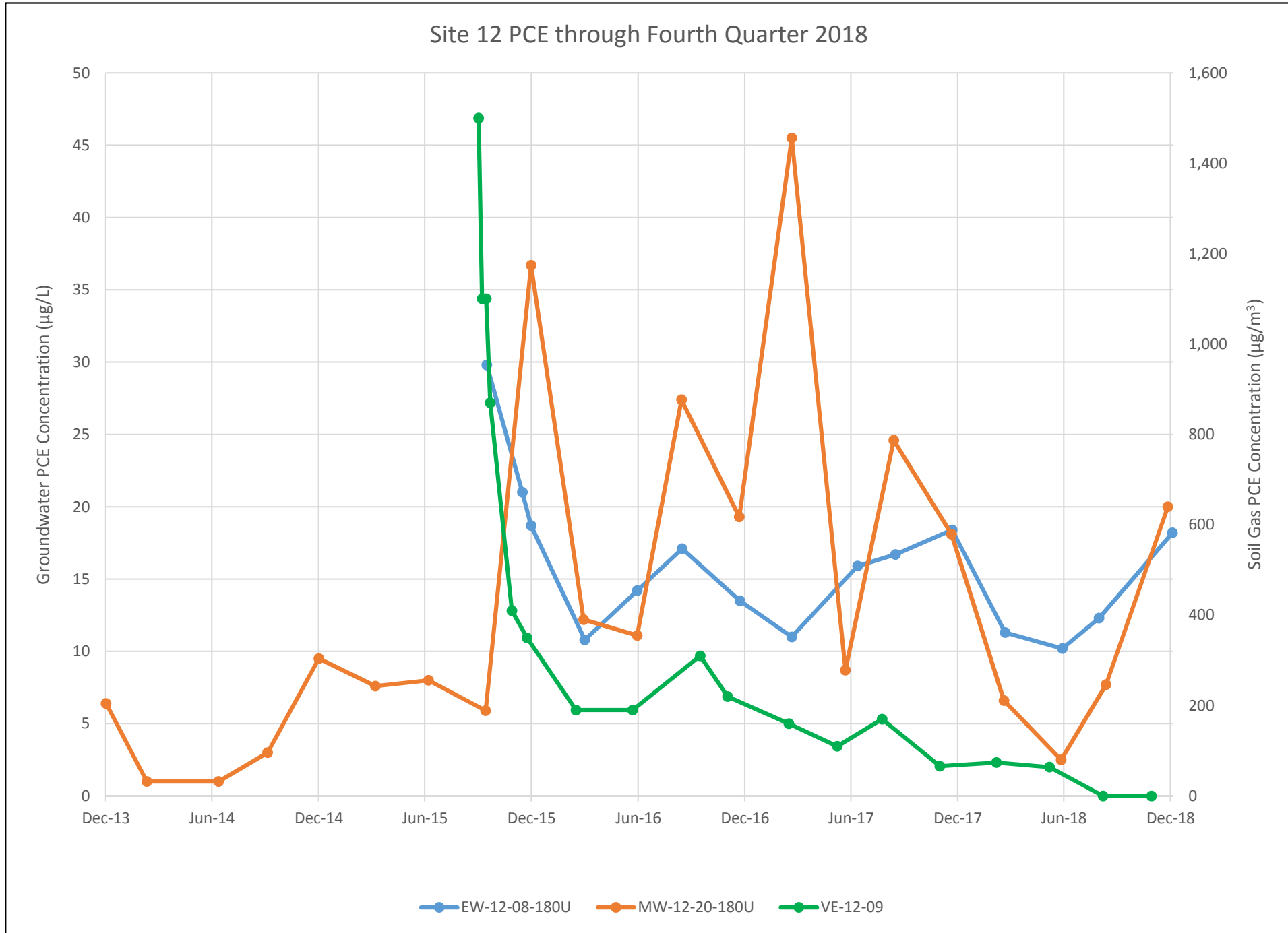
- NOTES:
- (1) Samples were collected between December 11 and 19, 2018.
 - (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
 - (3) Contours based on highest value obtained from multiple bags where 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
 FOURTH QUARTER 2018
 Sites 2 and 12, Fourth Quarter 2018
 Groundwater and Soil Gas Monitoring and Treatment System Report, Former Fort Ord, California

	By: TJH	Project No. 8418191360
	Date: 01/24/2019	Figure 12

Thursday, January 24, 2019 3:17:44 PM thomas.hunt P:\8418191360_FortOrd\GIS\4018191360\Figure12_GMR\Figure12_TCE-PCE-COC_Site2-12_1804.mxd



Rebound Study: monitor six soil gas probes around VE-12-09 (screened 58-70 ft bgs) for potential rebound in 1Q and 2Q:

- SG-12-01-58 and -65: -58 not sampled since 2017, -65 recently sampled and was ND.
- SG-12-04-58, and -65: -58 not sampled since 2017, -65 recently sampled and was ND.
- SG-12-06-60, and -70: -60 and -70 recently sampled and were ND.

The quarterly SGMP also includes monitoring three shallow probes adjacent to buildings:

- SG-12-02-10
- SG-12-04-10
- SG-12-06-10

