

HTW BCT Meeting, November 13, 2019

Table 1: Sites 2/12 GWTP and SVTU Statistics as of October 31, 2019

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
October 2019 GWTP	6,019,560 gal	135 gpm	97.7	0.36
Total since April 1999	2.105 billion gal			489
October 2019 SVTU	0 scf	0 scfm	0	0
Total since September 2015	1.330 billion scf			9.7

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

COC	Discharge Limit (µg/L) ²	Sample Date / Analytical Results
		10/29/2019*
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	0.12 J
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	0.12 J
Tetrachloroethene (PCE)	5.0	ND (0.25)
Trichloroethene (TCE)	5.0	ND (0.25)
Vinyl Chloride (VC)	0.10	ND (0.05)

Notes:

¹The reported value is the sum of both cis- and trans-isomers.

²Discharge 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

*Preliminary data

October 2019 Key Events for Sites 2/12

- Oct 1: Brief communications loss at Sites 2/12.
- Oct 9: Fifteen 55-gallon drums of spent carbon removed from Sites 2/12 GWTP compound. Carbon was cleaned up from the 2017 GAC vessel underdrain assembly failure.
- Oct 16: Sites 2/12 GWTP offline for 12 hours due to communications loss.
- Oct 21: Brief communications loss.
- Oct 29: Sites 2/12 GWTP offline for 5 hours due to communications loss.

November 2019 Key Events for Sites 2/12

- Nov 18-20: Fourth Quarter 2019 Soil Gas Monitoring Event.
- Replace control valves and flow meters at Sites 2/12 infiltration galleries.

December 2019 Key Events for Sites 2/12

- Dec 2-6: Fourth Quarter 2019 Groundwater Monitoring Event.

January 2020 Key Events for Sites 2/12

- None



Table 3. Proposed Groundwater Monitoring Program Changes (Effective Fourth Quarter 2019)

Well Identification	Current Schedule	Proposed Schedule	Trends Increasing?	Last Time Above ACL	Boundary Well for Plume	2019-3Q PCE Concentration (µg/L)	2019-3Q TCE Concentration (µg/L)	2019-3Q Chloride Concentration (mg/L)
MW-02-05-180	A ^{1,2}	R	No	1998	No	ND (0.25)	0.16 J	124
MW-12-05-180	A ²	R	No	2003	No	NS	NS	58.9
MW-12-18-180U	A ¹	R	No	Never	No	ND (0.25)	ND (0.25)	NS
MW-12-25-180U	A ¹	R	No	2017	No	0.39 J	ND (0.25)	NS

Notes:

¹ volatile organic compound sampling for chemicals of concern

² chloride sampling. If changes accepted chloride sampling would proceed with operational extraction wells and MW-02-13-180M.

µg/L: micrograms per liter

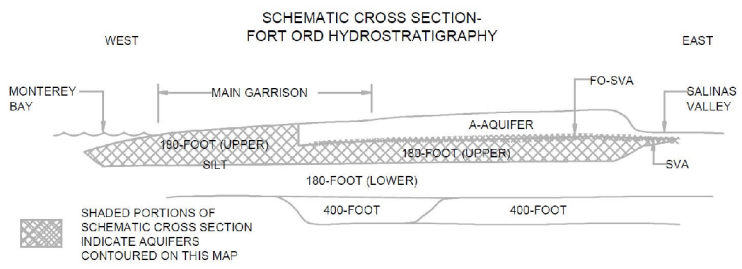
A: annual

mg/L: milligrams per liter

NS: not sampled

R: removed from groundwater monitoring sampling. Depth to water still collected until well decommissioned.

DRAFT



EXPLANATION

- Monitoring Well with PCE Detection.
- Monitoring Well with No TCE/PCE Detection.
- Monitoring Well Not sampled.
- Extraction Well with PCE Detection above or equal to ACL.
- Extraction Well with PCE Less than ACL.
- Groundwater Extraction Wells No PCE Detected.
- Extraction Well Not Sampled

Well ID - Bold when ACL Exceeded TCE and/or PCE concentration (µg/L) with validation/lab qualifier.

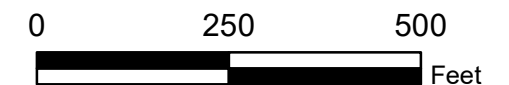
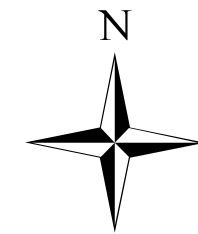
MW-12-24-180U
PCE 1.8

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

- 5 Tetrachloroethene (PCE)
- General Groundwater Flow Direction
- Roads
- Facilities

NOTES:

- (1) Samples were collected between August 26, 2019 and September 4, 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) 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 THROUGH THIRD QUARTER 2019
Sites 2 and 12, Third Quarter 2019
Groundwater and Soil Gas Monitoring and Treatment System Report, Former Fort Ord, California

Ahtna

Date: 10/21/2019 Figure: 16

