

HTW BCT Meeting, May 1, 2020

Table 1: Mar 2020 – Sites 2/12 GWTP and SVTU Statistics

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
March 2020 GWTP	6,011,280 gal	135 gpm	97.6	0.25
Total since April 1999	2.135 billion gal			490
March 2020 SVTU	0 scf	0 scfm	0	0
Total since September 2015	1.330 billion scf			9.7

Table 2: March 2020 – Sites 2/12 Treated Water Analytical Results at TS-212-INJ

COC	Discharge Limit (µg/L) ²	Sample Date / Analytical Results
		3/24/2020
1,1-Dichloroethene (1,1-DCE)	6.0	ND (0.25)
1,2-Dichloroethane (1,2-DCA)	0.50	0.14 J
1,3-dichloropropene (1,3-DCP) ¹	0.50	ND (0.25)
Chloroform	2.0	0.31 J
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	0.78
Tetrachloroethene (PCE)	5.0	ND (0.25)
Trichloroethene (TCE)	5.0	ND (0.25)
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

*Preliminary data

March 2020 Key Events for Sites 2/12

- Mar 2-6: First Quarter 2020 Groundwater Monitoring Event.
- Mar 7: Sites 2/12 GWTP shut down for 11 hours due to a power interruption.
- Mar 16-31: First Quarter 2020 Soil Gas Monitoring Event. First Rebound Study sampling event.
- Mar 29: Sites 2/12 GWTP shut down for 7 hours due to an OU2 GWTP shut down.

April 2020 Key Events for Sites 2/12

- April 27: Restarted Sites 2/12 SVTU with VE-12-09 online due to First Quarter results at SG-12-04 above SGCL.

May 2020 Key Events for Sites 2/12

- May 18-22: Second Quarter 2020 Soil Gas Monitoring Event. Second Rebound Study sampling event.

June 2020 Key Events for Sites 2/12

- June 1-12: Second Quarter 2020 Groundwater Monitoring Event.



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

Well Identification ³	Select COC Concentrations (µg/L) ⁴							
	2Q 2019	3Q 2019	4Q 2019	1Q 2020*	2Q 2019	3Q 2019	4Q 2019	1Q 2020*
	TCE				PCE			
ACL:	5.0				5.0			
EW-12-03-180M	2.0	1.7	1.3	2.1	0.27 J	ND (0.25)	0.25 J	ND (0.25)
EW-12-05-180M	2.4	1.9	2.1	0.60	0.76	0.71	0.66	0.68
EW-12-07-180M	1.7	1.1	0.81	0.78	0.41 J	0.28 J	0.27 J	0.24 J
EW-12-08-180U	0.47 J	0.47 J	0.36 J	0.31 J	12.5	14.1	13.5	8.4
MW-12-09R-180	2.2	1.9	1.7	2.3	0.42 J	0.28 J	0.29 J	0.34 J
MW-12-14-180M	2.4	2.4	1.5	1.6	0.43 J	0.28 J	0.34 J	0.31 J
MW-12-16-180M	1.4	1.2	1.5	1.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
MW-12-20-180U	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	3.1	2.7	5.6	0.94
MW-12-21-180U	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.12 J	0.28 J	0.38 J	0.35 J
MW-12-24-180U	ND (0.25)	0.13 J	ND (0.25)	ND (0.25)	0.66	1.8	3.1	0.60
MW-12-28-180U	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.54	0.33 J	0.31 J	0.52
MW-12-32-180U	0.28 J	0.42 J	0.54	0.84	0.39 J	0.41 J	0.54	0.71

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)

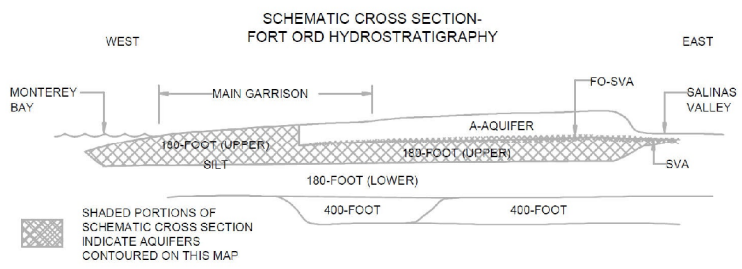
ND: The analyte was not detected at or above the limit of detection (LOD)

COC: chemical of concern

µg/L: micrograms per liter

* Preliminary data





EXPLANATION

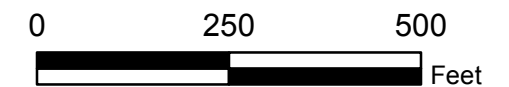
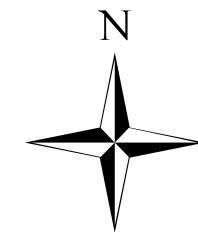
- Monitoring Well with PCE Detection.
 - Monitoring Well with No PCE Detection.
 - Monitoring Well Not sampled.
 - Extraction Well with PCE Detection above or equal to ACL.
 - Extraction Well with PCE Less than ACL.
 - Groundwater Extraction Wells No PCE Detected.
 - Extraction Well Not Sampled
- Well ID - Bold when ACL Exceeded TCE and/or PCE concentration (µg/L) with validation/lab qualifier.

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

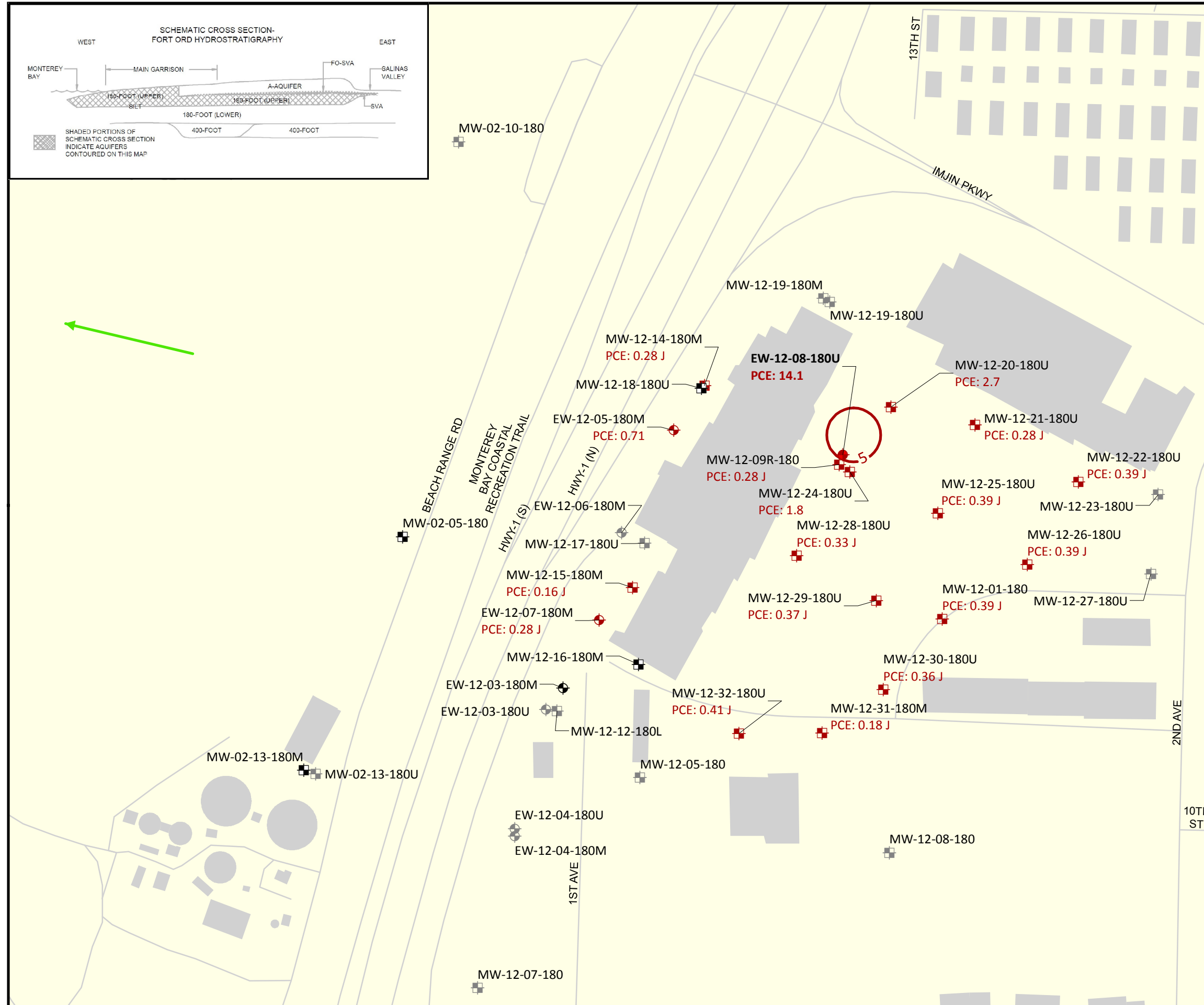


GROUNDWATER PCE CONTRATIONS UPPER 180-FOOT AQUIFER

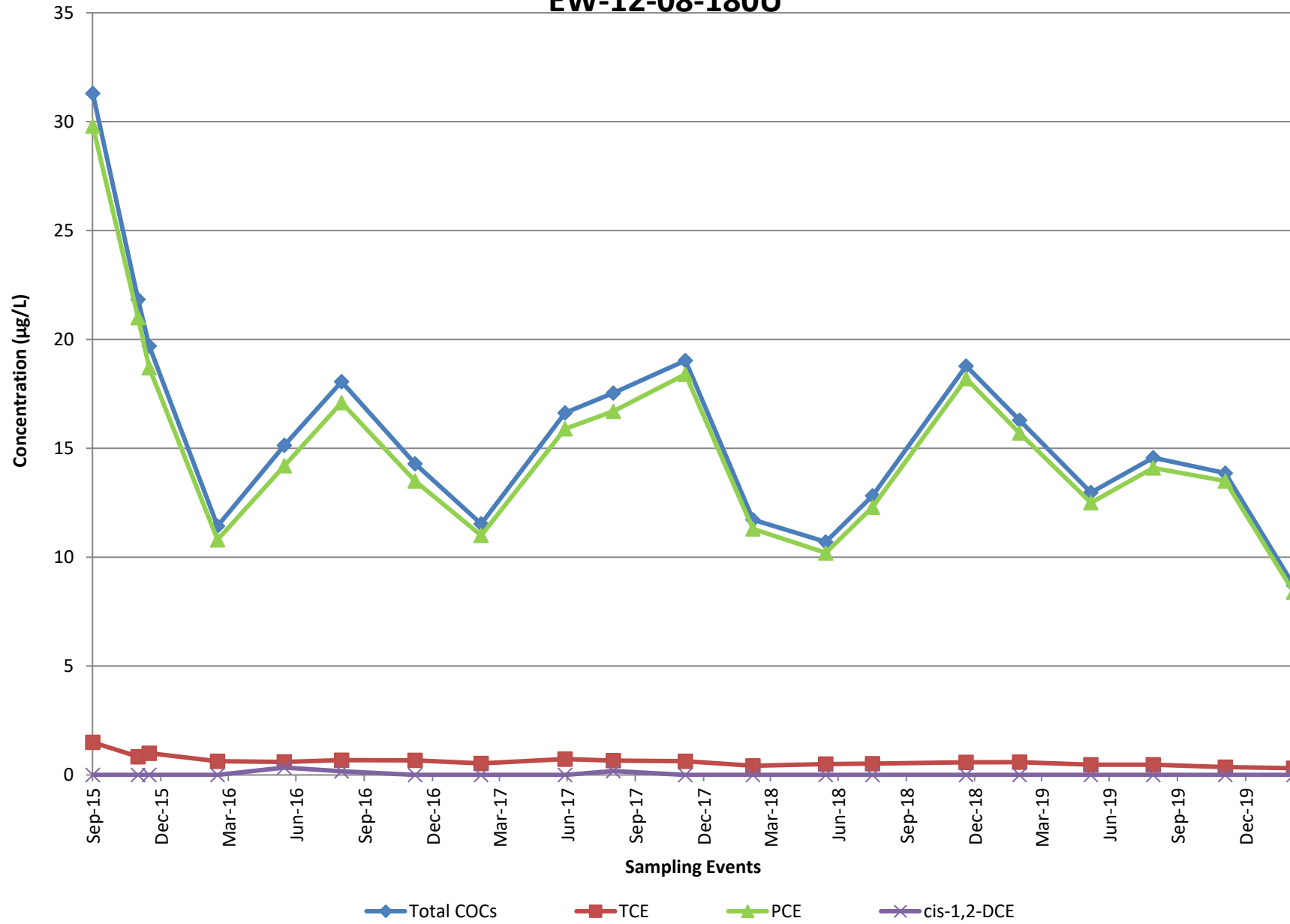
Third Quarter 2019
 Sites 2 and 12, Fourth Quarter 2018 through Third Quarter 2019
 Groundwater and Soil Gas Monitoring and Treatment
 System Report, Former Fort Ord, California

Ahtna

Date: 10/30/2019 Figure: **19**



EW-12-08-180U



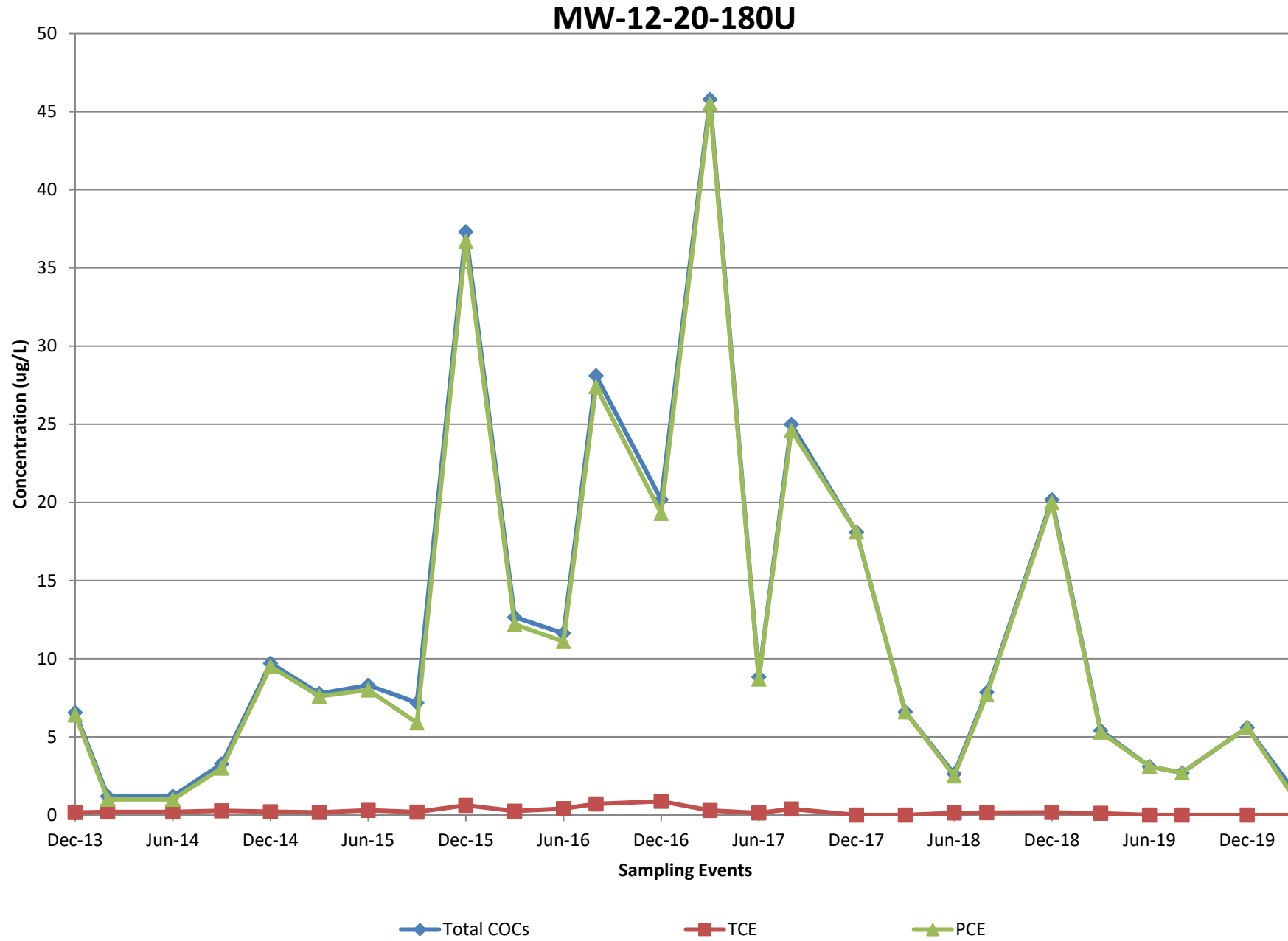


Table 4. Sites 2/12 Soil Gas Monitoring Results

Soil Gas Probe ID	2Q 2019	3Q 2019	4Q 2019	1Q 2020*	2Q 2019	3Q 2019	4Q 2019	1Q 2020*	Schedule
	PCE				TCE				
SG-12-01-30	NS	NS	NS	230	NS	NS	NS	ND	INV
SG-12-01-58	180	NS	NS	230	ND	NS	NS	ND	RB
SG-12-01-65	180	ND	ND	210	ND	ND	ND	ND	Q ²
SG-12-02-10	<i>1,200</i>	<i>1,300</i>	<i>1,200</i>	790	ND	ND	ND	ND	Q ¹
SG-12-02-20	NS	860	NS	NS	NS	ND	NS	NS	A
SG-12-02-30	NS	810	NS	NS	NS	ND	NS	NS	A
SG-12-02-40	NS	690	NS	NS	NS	ND	NS	NS	A
SG-12-02-50	NS	630	NS	NS	NS	45 J	NS	NS	A
SG-12-02-57	NS	570	NS	NS	NS	ND	NS	NS	A
SG-12-02-65	NS	580	NS	NS	NS	ND	NS	NS	A
SG-12-04-10	ND	62 J	98	120	100	580	<i>910</i>	1,300	Q ¹
SG-12-04-20	NS	NS	NS	110	NS	NS	NS	1,100	INV
SG-12-04-40	NS	NS	NS	92	NS	NS	NS	90	INV
SG-12-04-50	NS	NS	NS	92	NS	NS	NS	630	INV
SG-12-04-58	71	NS	NS	110	ND	NS	NS	440	INV
SG-12-04-65	ND	54 J	110	97	90	400	440	890	Q ²
SG-12-06-10	ND	84	150	120	ND	ND	ND	ND	Q ¹
SG-12-06-70	NS	95	NS	160	NS	ND	NS	ND	R

Soil Gas Probe ID	2Q 2019	3Q 2019	4Q 2019	1Q 2020*	2Q 2019	3Q 2019	4Q 2019	1Q 2020*	Schedule
	PCE				TCE				
SG-12-07-65	NS	NS	NS	380	NS	NS	NS	51 J	RB
SG-12-08-70	NS	NS	NS	160	NS	NS	NS	ND	RB
SG-12-14-70	NS	NS	NS	ND	NS	NS	NS	52 J	RB
SG-12-16-60	NS	ND	NS	NS	NS	560	NS	NS	R
SG-12-16-70	NS	NS	NS	ND	NS	NS	NS	470	RB
SG-12-17-40	NS	ND	NS	NS	NS	640	NS	NS	A
SG-12-17-60	NS	NS	NS	ND	NS	NS	NS	740	RB
SG-12-18-70	NS	NS	NS	ND	NS	NS	NS	ND	RB
SG-12-20-10	NS	<i>1,200</i>	NS	NS	NS	ND	NS	NS	A
SG-12-20-20	NS	750	NS	NS	NS	ND	NS	NS	A
SG-12-20-70	NS	NS	NS	320	NS	NS	NS	ND	RB

Notes:

*Preliminary results

A = Annual

J = estimated result below the limit of quantitation (LOQ)

INV = investigation

ND = not detected above the limit of detection (LOD)

NS = not sampled

Q = Quarterly

R = Removed

RB = Rebound probe

Concentrations in **bold** exceed the SGCL

Concentrations in *italics* exceed the SG-SL

Results reported in micrograms per cubic meter (µg/m³)

¹ Quarterly probe due to proximity of store front in an area of historic soil gas concentrations above the SGCL.

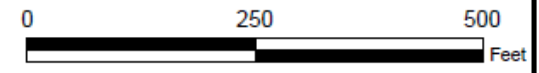
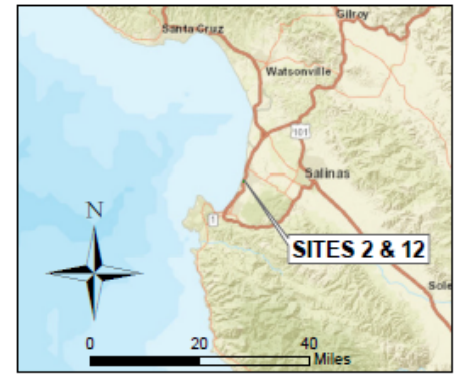
² Will continue to sample probe quarterly if it is within the vicinity of the current groundwater plume above the ACL (probe adjacent to deepest probe will be sampled in lieu if deepest probe is in saturated zone).

	SGCL (µg/m ³)	SG-SL (µg/m ³)
PCE	1,800	603
TCE	1,000	888



EXPLANATION

- Site 12 Soil Gas Probe Cluster; One Quarterly probe sampled
- Site 12 Soil Gas Probe Cluster; One Quarterly Probe Sampled
- Site 12 Soil Gas Probe Cluster; One Rebound Study Probe Sampled
- Site 12 Soil Gas Probe Cluster; All probes sampled
- Site 12 Soil Gas Probe Cluster; One Rebound Study Probe Sampled
- Site 12 Soil Gas Probe Cluster; Not Sampled
- Site 12 Soil Vapor Extraction Well; Not Sampled
- SG-12-04-58 — Rebound Study Probe
- Facilities
- Roads



Site 12, First Quarter 2020
Soil Gas Sampling and Rebound Study
Former Fort Ord, California

