

HTW BCT, May 9, 2018

Table 1: Sites 2/12 GWTP and SVTU Statistics as of April 30, 2018

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
April 2018 GWTP	5,122,237 gal	119 gpm	99.4	0.40
Total since April 1999	2.022 billion gal			483
April 2018 SVTU	18,863,064 scf	529 scfm	100	0.05
Total since Sept 2015	1.120 billion scf			9.2

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

COC	Discharge Limit (µg/L) ²	Sample Date / Analytical Results		
		4/2/18	4/10/18	4/23/18
1,1-Dichloroethene (1,1-DCE)	6.0	ND (0.25)	ND (0.25)	ND (0.25)
1,2-Dichloroethane (1,2-DCA)	0.50	0.16 J	0.23 J	0.13 J
1,3-dichloropropene (1,3-DCP) ¹	0.50	ND (0.25)	ND (0.25)	ND (0.25)
Chloroform	2.0	0.27 J	0.35 J	0.22 J
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	0.57	1.1	0.73
Tetrachloroethene (PCE)	5.0	ND (0.25)	ND (0.25)	ND (0.25)
Trichloroethene (TCE)	5.0	ND (0.25)	0.13 J	0.12 J
Vinyl Chloride (VC)	0.10	ND (0.05)	ND (0.05)	ND (0.05)

Notes:

¹The 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

April 2018 Key Events for Sites 2/12

- April 11: Sites 2/12 GWTP shutdown for four hours to clean the air stripper.
- April 19: EW-12-05-180M flow meter malfunctioning, showing a lower flow rate than actual, meter repaired April 26.
- April 25: POM DPW removed sulfuric acid from Sites 2/12 GWTP.

May 2018 Key Events for Sites 2/12

- May 9: Baseline biological survey at MW-02-12-180 decommissioning location in Site 2.
- May 21 to 25: Second Quarter 2018 Soil Gas Monitoring Program event.
- Prepare for 2018 decommissioning of one Sites 2/12 monitoring well.



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

Well Identification ³	Select COC Concentrations (µg/L) ⁴			
	4Q 2017	1Q 2018	4Q 2017	1Q 2018
	TCE		PCE	
ACL:	5.0		5.0	
EW-12-03-180M	4.8	2.2	0.52	0.13 J
EW-12-05-180M	2.4	2.1	0.83	0.80
EW-12-06-180M	3.2	NS	0.48 J	NS
EW-12-07-180M	3.1	2.7	0.46 J	0.51
EW-12-08-180U	0.63	0.42 J	18.4	11.3
MW-12-09R-180	4.4	3.9	0.52	0.49 J
MW-12-14-180M	7.6	2.1	0.86	0.39 J
MW-12-16-180M	1.6	1.8	ND (0.25)	ND (0.25)
MW-12-20-180U	ND (0.25)	ND (0.25)	18.1	6.6
MW-12-21-180U	ND (0.25)	ND (0.25)	0.56	0.35 J
MW-12-24-180U	ND (0.25)	0.17 J	3.2	2.0
MW-12-25-180U	ND (0.25)	ND (0.25)	0.47 J	0.34 J
MW-12-28-180U	0.11 J	0.44 J	0.56	0.16 J
MW-12-31-180M	0.31 J	0.26 J	0.15 J	ND (0.25)
MW-12-32-180U	1.8	1.2	0.50	0.36 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.

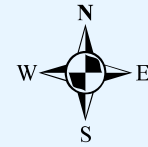
J: Estimated results below the limit of quantitation (LOQ)

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

COC: chemical of concern

µg/L: micrograms per liter

DRAFT



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

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)

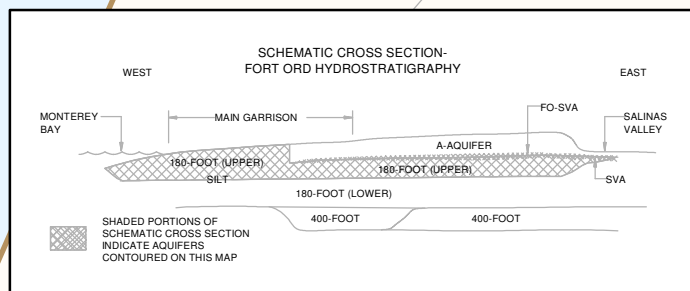
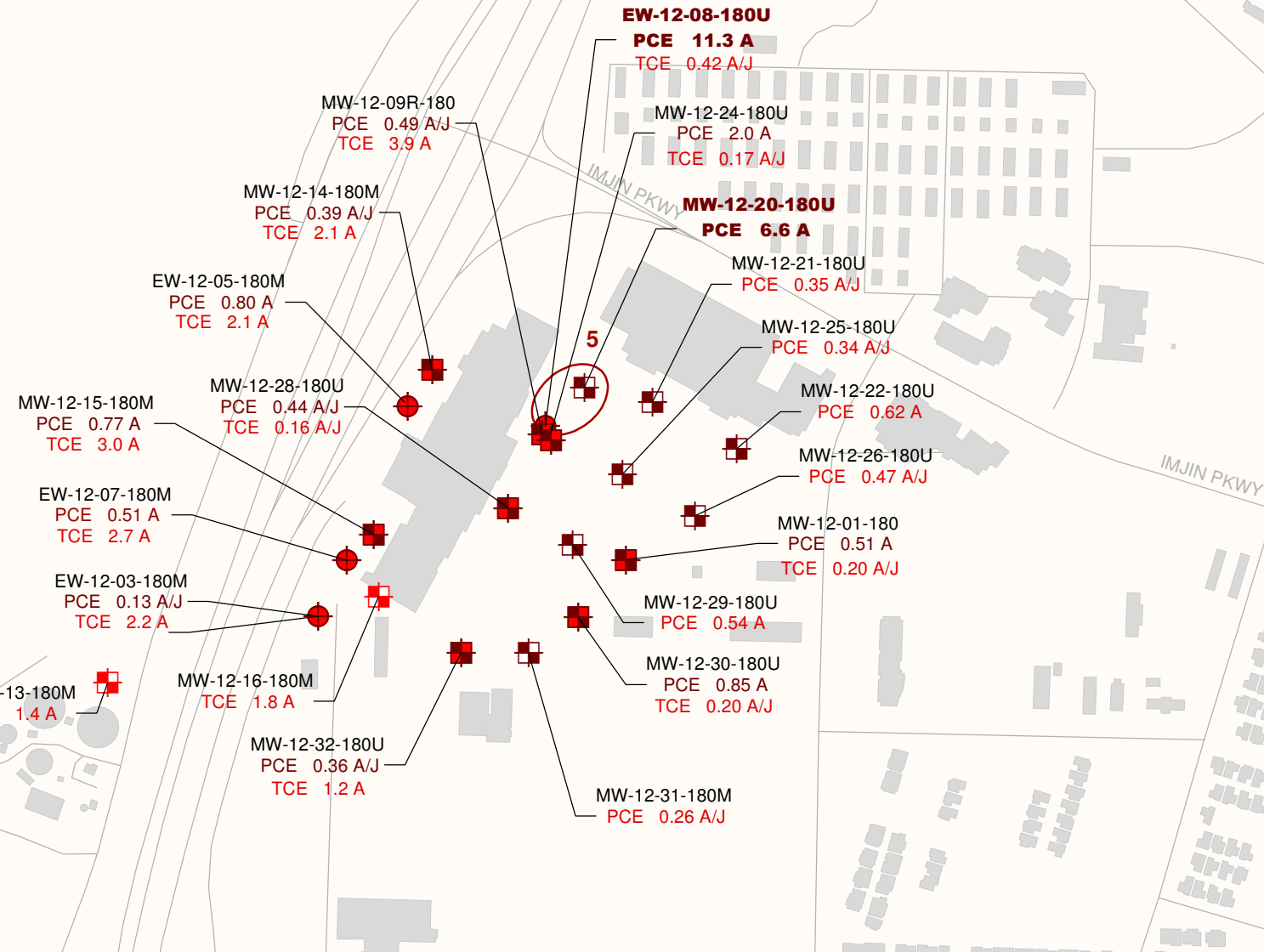
Roads

Facilities

Former Fort Ord Boundary

NOTES:

- (1) Samples were collected between March 5 and 8, 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 First Quarter 2018
 Groundwater and Soil Gas
 Monitoring and Treatment System Report
 Former Fort Ord, California

Date: 4/2018

Project No. 8417190510



Figure
12

Table 4. Sites 2/12 Select Groundwater Extraction/Monitoring Well TPH Data*

Well Identification	4Q 2017		1Q 2018	
	TPH-GRO (C6-10)	TPH-DRO (C10-28)	TPH Diesel (C10-24)	TPH Motor Oil (C24-36)
Screening Level:	100 µg/L			
MW-12-18-180U	NS	NS	41 JY	ND (94)
MW-12-19-180U	NS	NS	ND (16)	ND (96)
MW-12-19-180M	NS	NS	ND (16)	ND (96)
MW-12-20-180U	ND (50)	262	210 Y [17 JY]	ND (96)
MW-12-21-180U	NS	NS	23 JY	ND (94)
MW-12-24-180U	NS	NS	33 JY	ND (96)
MW-12-25-180U	NS	NS	20 JY	ND (94)

Notes:

*Concentration in **bold** and shaded exceeds the USEPA Regional Screening Level (RSL) for tap water. Concentrations in gray text are ND.

J: Estimated results below the limit of quantitation (LOQ)

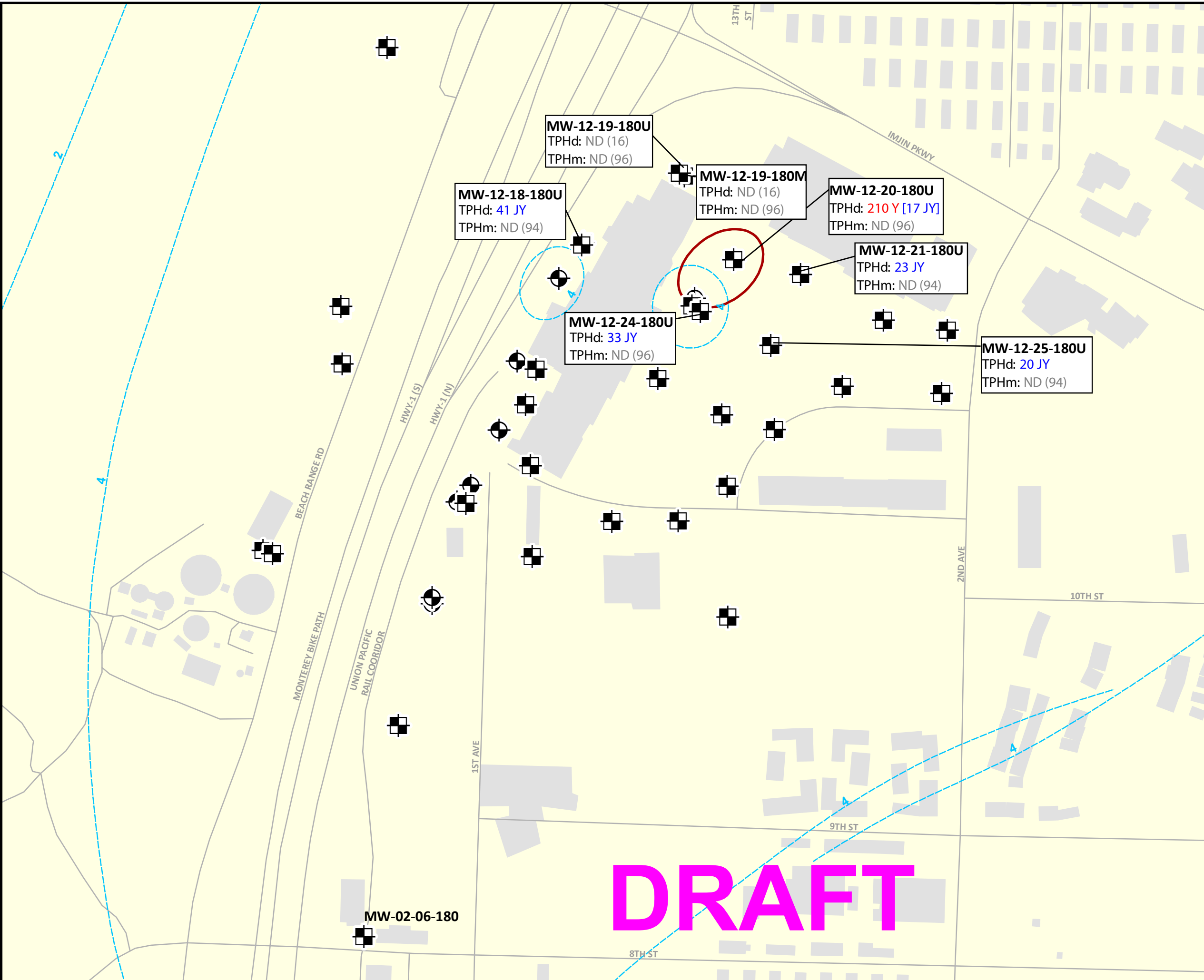
Y: sample exhibits chromatographic pattern which does not resemble standard

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

Results in brackets are after silica gel cleanup to remove polar non-petroleum hydrocarbons

NS: Not sampled µg/L: micrograms per liter

TPH: total petroleum hydrocarbons



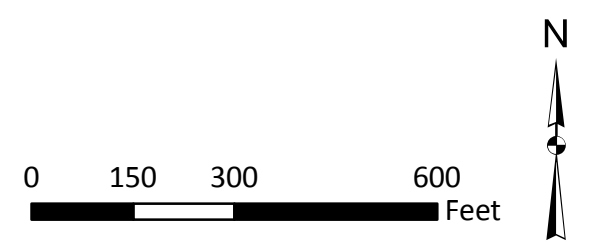
Legend

- Roads
- PCE (5 ug/L) 2017-4Q
- - - Groundwater Elevation (ft MSL) 2017-4Q
- ▭ Former Fort Ord Boundary
- ▭ Buildings

Sites 2/12 Well Type

- ⊕ Extraction Well
- ⊞ Monitoring Well

Notes:
 TPHd: total petroleum hydrocarbons - diesel
 TPHm: total petroleum hydrocarbons - motor oil
 ND (94): not detected at the limit of detection
 J: estimated results below the limit of quantitation
 Y: chromatogram doesn't resemble standard
 Results are in micrograms per liter (ug/L)
 Results in [brackets] are with silica gel cleanup
 Results in red are above the screening level
 Results in blue are estimated (J)
 Results in gray are not detected (ND)



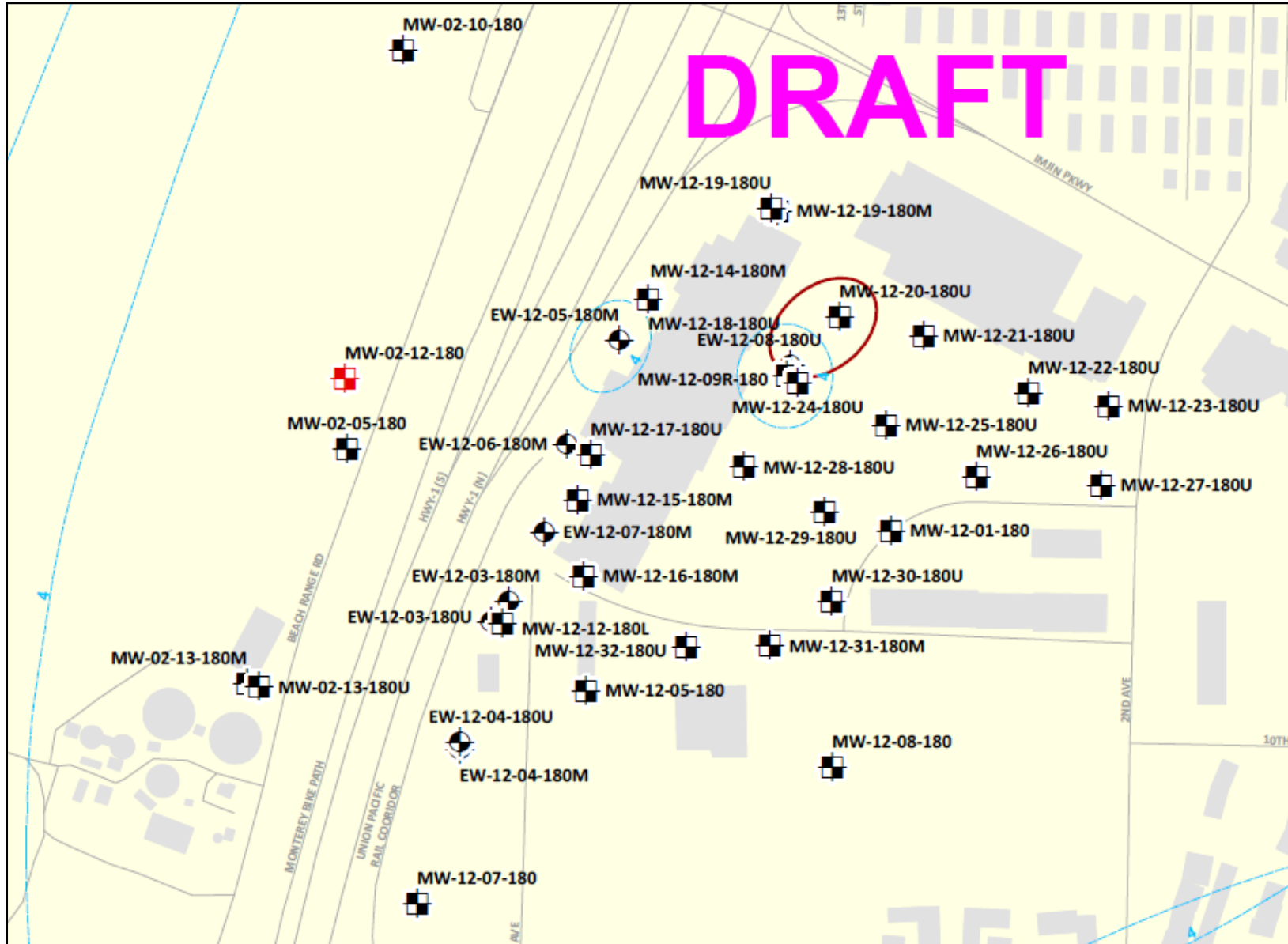
**Groundwater
 Total Petroleum Hydrocarbons
 Concentrations, First Quarter 2018**
 Sites 2 and 12
 Fourth Quarter 2017 through
 Third Quarter 2018
 Groundwater and Soil Gas Monitoring
 and Treatment System Report
 Former Fort Ord, California

<i>Ahtna</i>	Figure:
	28

Table 5: Sites 2/12 Well Decommissioning 2018*

Well ID	Aquifer	Notes
MW-02-12-180	Upper 180	Located in sensitive biological habitat. Well installed in 1996. Last sampled in 2006, TCE always below ACL, currently used for DTW but not needed.

Notes:
 * Sampling no longer conducted and water levels unnecessary as listed in the Sites 2/12 Annual Report.
 No well installations will be conducted at Sites 2/12 in 2018.
 ACL: aquifer cleanup level
 TCE: trichloroethene



Ahtna