

**Former Fort Ord Operable Unit (OU)-1 – Base Closure Team (BCT) Meeting  
Update  
Groundwater Remediation, Well Destruction, and Treatment Plant Decommissioning  
Marina, California  
24 February 2017**

**OU-1 On-Post Activities for 06 January through 15 February 2017**

Prepared by HydroGeoLogic, Inc., Roy Evans, Project Manager

**Attendees: (to be revised after meeting)**

<b>Individual</b>	<b>Attended?</b>	<b>Individual</b>	<b>Attended?</b>
James Specht, USACE		Kimberly Gettman, DTSC	
Teresa Rodgers, USACE		Edward Walker, DTSC	
Alex Kan, USACE		Noel Shrum, DTSC	
Bonnie McNeill, USACE		Grant Himebaugh, RWQCB	
Cory Koger, USACE			
Jonathan Whipple, USACE		Jeff Fenton, AMEC	
David Eisen, USACE		Derek Lieberman, Ahtna	
Paul Fluck, USACE		Holly Dillon, Ahtna	
Curtis Payton, USACE		Brad Clarke, Ahtna	
William Collins, BRAC		Thor Anderson, Burleson	
Melissa Broadston, Chenega <sup>1</sup>		Steve Crane, Kemron	
Bart Kowalski, Chenega <sup>1</sup>		Erin Caruso, Gilbane	
Cary Stiebel, Chenega <sup>1</sup>		Larry Friend, Gilbane	
Tom Ghigliotto, Chenega <sup>1</sup>		Kevin Siemann, Gilbane	
Maeve Clancy, EPA		Nadia Burleson, Burleson	
Martin Hausladen, EPA		Roy Evans, HGL	
Min Wu, Ph.D., DTSC		Kevin Wierengo, HGL	
Steve Sterling, DTSC		Gage Dayton, Ph.D., UCSC	
Chris Duffey, USACE		Charity Meakes, USACE	
X = attended in person or by telephone; blank indicates absent from the meeting			

**Notes:**

<sup>1</sup>Chenega staff supporting the BRAC  
Ahtna = Ahtna Engineering Services  
BRAC = Base Realignment and Closure Fort Ord Office  
CB&I = Chicago Bridge & Iron, Inc.  
DTSC = California Department of Toxic Substances Control  
EPA = U.S. Environmental Protection Agency  
HGL = HydroGeoLogic, Inc.  
RWQCB = Regional Water Quality Control Board  
UCSC = University of California, Santa Cruz  
USACE = U.S. Army Corps of Engineers

## **OU-1 Treatment Plant Operations**

Remediation is complete. The northwest treatment system (NWTS) is offline but operable. The alarm system is no longer functioning because the provider upgraded service (to a 4G network) and no longer supports the original installation (2G service). The Army is awaiting the determination regarding OU-1 closure to decide if the alarm system should be upgraded and restored. The system is inspected monthly (last time was 10 February 2017) to maintain operability.

## **Reporting/Federal Facility Agreement (FFA) Schedule**

The status of ongoing and anticipated reports for OU-1 is summarized in Table 1. The draft Well Destruction Completion Report for the Armstrong Ranch wells was accepted as written by the regulatory agencies and replacement pages and CDs to update “Draft” to “Final” were submitted on 17 February 2017. The public comments on the draft version were related to OU-1 background and events leading up to the well destruction effort and were addressed separately. The Technical Memorandum submitted to support the recommendation for OU-1 site closeout is still in EPA review as described below.

## **OU-1 Closeout**

The Army submitted a Technical Memorandum to the regulatory agencies on 25 August 2016 regarding closure in view of PFOA and PFOS concentrations. As noted in previous meetings, two wells (MW-OU1-88-A and PZ-OU1-10-A1) do not meet the revised HA value of 70 nanograms per liter for the sum of PFOA and PFOS concentrations. Figure 10 from the Remedial Action Completion Report is attached for reference. The Technical Memorandum provides rationale to support the Army’s recommendation that OU-1 proceed to closeout. DTSC and RWQCB have completed their review and informed the BCT that they concur with the Army’s recommendations for closure. EPA Region 9 staff are communicating with the FFA Facilities staff at EPA Headquarters and Army officials in the Pentagon regarding OU-1 site closure. At this point, neither EPA Region 9 or EPA Headquarters have finalized their position on the Army’s recommendation to close the site.

## **OU-1 Rare Plant Monitoring**

The 2016 OU-1 Rare Plant Survey and Impact Assessment Report was submitted to the UCSC and to the BRAC Office for further distribution. HGL presented the results of the 2016 rare plant survey effort to the US Fish and Wildlife Service, the California Department of Fish and Wildlife, and others at the meeting held on 01 February 2017 in the Fort Ord BRAC Office conference room.

## **Five-Year Review**

HGL staff are assisting the Army in preparing the 5-Year Review report.

### **New/Current Action Items:**

- The next BCT meeting is set for 15 March 2017 at 1330.
- The Community Involvement Workshop (CIW) Open House will be on 25 February and TRC meeting on 28 February at 1000.
- Fact sheets have been updated for the CIW.

### **Ongoing:**

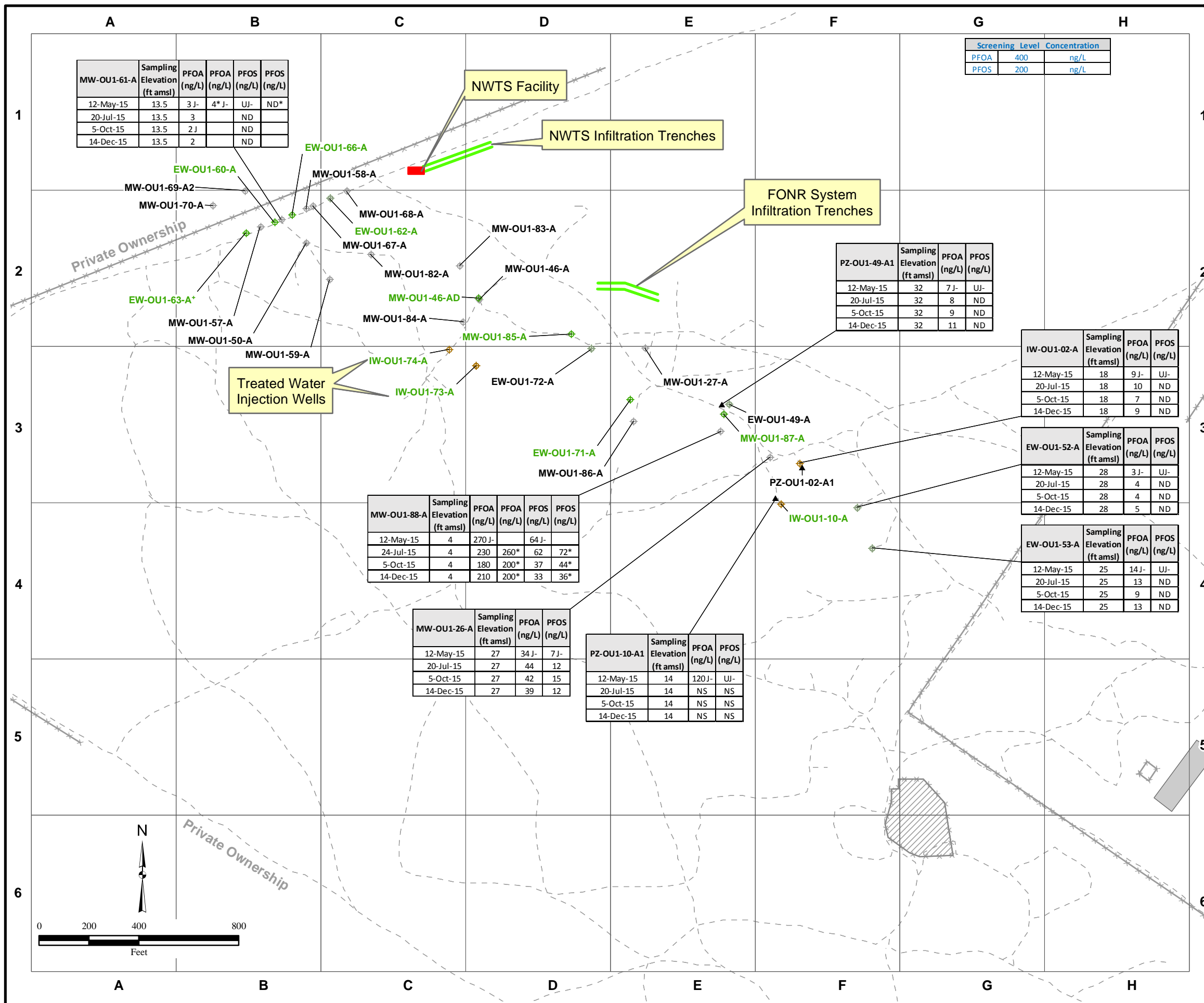
- Submit draft minutes for previous BCT meeting(s)—complete through January 2017.
- Submit final minutes for previous BCT meeting(s)—complete through January 2017.

**Table 1**  
**Current OU-1 Deliverable Schedule**  
**Former Fort Ord, Marina, CA –February 2017**

<b>Deliverable Title</b>	<b>Submittal</b>	<b>Review Comments Due</b>	<b>Status/Remarks</b>
<i>Primary Deliverables</i>			
None Scheduled			
<i>Technical Memorandum</i>			
Attainment Monitoring Evaluation and Summary for EPA Designated Emerging Contaminants	25 August 2016	To be determined	In EPA review; approved as submitted by DTSC and RWQCB
<i>Secondary Deliverables</i>			
Final Armstrong Ranch Well Demolition Completion Report	17 February 2017	None	Final report submitted. Response to public comment submitted separately.
<i>Completed Recent Submittals</i>			
Final Exit Strategy Technical Memorandum	March 2015	April 2015	Draft Final approved without comment. Change pages distributed 12 May 2015
Site Safety and Health Plan Update	March 2015	Not Applicable	Army approved revisions
Final UFP-QAPP Revision 1	March 2015	April 2015	Draft Final approved without comment. Change pages distributed 14 May 2015
2015 Semiannual Groundwater Monitoring Report <sup>1</sup>	07 August 2015	10 September 2015	Accepted without comment
Draft 2015 Annual Groundwater Monitoring Report <sup>1</sup>	15 October 2015	16 November 2015	Draft Accepted without comment; final submitted 03 December 2015
Final UFP-QAPP Revision 2	14 October 2015	16 November 2015	
Draft PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	29 January 2016	29 February 2016	Comments received and addressed
Final PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	04 March 2016	01 April 2016	Final submitted 16 March 2016
Final 2016 OU-1 Groundwater Monitoring Report	26 August 2016	None	Comments received, addressed, and Final submitted

<sup>1</sup>The Semiannual Groundwater Monitoring Report is submitted as a final document but review comments are accepted. Any comments are addressed in the Annual Groundwater Monitoring Report.

**Figure 10**  
**Attainment Monitoring Summary**  
**PFOA and PFOS Concentrations**  
**in OU-1 A-Aquifer**  
**Former Fort Ord, CA**



**Legend**

- Monitoring Well
- Extraction Well
- Injection Well
- Piezometer or 2-Inch Well
- MW-OU1-70-A Well Identification
- Trail/Unimproved Road
- Fence
- Treated Water Infiltration Trench
- Former Fire Drill Area
- Structure
- NWTS Facility

**Notes:**  
Well labels in green font indicate extraction or injection well.  
Wells not sampled are not part of Attainment Monitoring Network.  
\*=Duplicate Sample  
+Indicates disconnected extraction well. No longer operable.  
ft amsl=feet above mean sea level  
FNR=Fort Ord Natural Reserve  
J=Sample result estimated value potentially biased low  
J=Sample result estimated value  
ND=Nondetect  
NS=Not Sampled  
ng/L=nanograms per liter  
NWTS=Northwest Treatment System  
PFOA=Perfluorooctanoic Acid  
PFOS=Perfluorooctane Sulfonate  
UJ=Not detected; Sample result biased low

\\gst-srv-01\HGLGIS\Ft\_Ord\_MSIW\OU-1\_AME\_1-4\_RS\_TM  
(10)PFOA\_PFOS\_Concens\_Mon\_Summary\_Prelim.mxd  
1/8/2016 TB  
Source: HGL

