

**Former Fort Ord Operable Unit (OU)-1 – Base Closure Team (BCT) Meeting  
Update  
Groundwater Remediation, Well Destruction, and Treatment Plant Decommissioning  
Marina, California  
13 June 2016**

**OU-1 On-Post Activities for 10 May through 09 June 2016**  
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		Jeff Fenton, AMEC	
Jonathan Whipple, USACE		Derek Lieberman, Ahtna	
David Eisen, USACE		Eric Schmidt, Ahtna	
William Collins, BRAC		Holly Dillon, Ahtna	
Tom Ghigliotto, Chenega <sup>1</sup>		Brad Clarke, Ahtna	
Melissa Broadston, Chenega <sup>1</sup>		Thor Anderson, Burleson	
Bart Kowalski, Chenega <sup>1</sup>		Steve Crane, Kemron	
Cary Stiebel, Chenega <sup>1</sup>		Erin Caruso, Gilbane	
Judy Huang, EPA		Larry Friend, Gilbane	
Maeve Clancy, EPA		Kevin Siemann, Gilbane	
Martin Hausladen, EPA		Monique Perry, Gilbane	
Kimberly Gettman, DTSC		Roy Evans, HGL	
Min Wu, Ph.D., DTSC		Kevin Wierengo, HGL	
Steve Sterling, DTSC		Gage Dayton, Ph.D., UCSC	
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.

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

The status of ongoing and anticipated reports for OU-1 is summarized in Table 1. HGL is preparing the preliminary draft Closeout Report for Army and BRAC Office review only. The draft 2016 Annual Groundwater Monitoring Report is being prepared for submittal and may be approximately one week early (it is due on 24 June). A draft OU-1 Closure Plan as requested by DTSC (see following section) is included as Appendix D of the 2016 Annual Groundwater Monitoring Report.

## **OU-1 Closeout Steps and Documentation**

The following action sequence was presented to the regulatory agencies at the last Base Closure Team meeting and refined through subsequent communication with DTSC.

1. Submit a Draft Closure Plan for DTSC and RWQCB review (courtesy copy to EPA); the *Draft Operable Unit 1 (OU – 1) Closure Plan for Groundwater Monitoring Wells and Groundwater Treatment Plant, Former Fort Ord, California* will describe:

### **BACKGROUND**

- (1) OU1 Site History with Location Maps of Groundwater Monitoring Wells and Treatment Plant
- (2) OU1 Groundwater Monitoring and Northwest Treatment System (NWTS)
- (3) Met Goals of the ROD (July 1995) and ESD (June 2010)

### **METHODS AND PROCEDURES**

- (1) The wells to be destroyed
- (2) Decommissioning and disposition of the NWTS and infiltration galleries/trenches
- (3) Disposition of OU-1 infrastructure (pipelines and power)

### **SITE RESTORATION**

### **HEALTH AND SAFTY PLAN**

### **ENVIRONMENTAL MONITORING**

PROJECT TEAM  
PROPOSED SCHEDULE

2. Respond to comments and submit a Final Closure Plan to DTSC and RWQCB
3. Perform the work items identified in the approved Closure Plan
4. Consider removing any institutional controls (deed restrictions, land use covenants, etc.)
5. Submit draft and final versions of the Site Closure Report to DTSC and RWQCB describing the work activities performed in accordance with the Closure Plan
6. Obtain DTSC and RWQCB approval of the Site Closure Report
7. Await completion of other OUs at former Fort Ord
8. Submit OU-1 Site Closure Report in conjunction with Closeout Reports for all other OUs
9. Obtain EPA and State concurrence that all former Fort Ord OUs are complete

The BRAC Office, the Army, and EPA will continue to consider the possibility of a partial delisting from the Fort Ord Superfund site for OU-1.

**Revised Preliminary Health Advisory (PHA)**

The EPA established a new Preliminary Health Advisory value for perfluorooctanoic acid (PFOA) – it has decreased from 400 nanograms per liter (ng/L) of PFOA to 70 ng/L for the sum of PFOA and perfluorooctane sulfonate (PFOS) concentrations. All OU-1 wells sampled during the attainment monitoring period met the old PHA value. However, two wells do not meet the revised value (Figure 10 from the Remedial Action Completion Report is attached for reference):

- MW-OU1-88-A showed PFOA concentrations between 180 ng/L and 270 ng/L in all four attainment events. PFOS ranged from 33 ng/L to 72 ng/L.

- The initial sample from PZ-OU1-10-A1 showed PFOA at 120 ng/L and PFOS was not detected. This well was not sampled thereafter because the sample collection method leads to a significant amount of suspended sediment in the Hydrasleeve™ sampling device. The sediment is believed to result from damage to the casing and/or well screen.

The Army will conduct well abandonment in phases beginning with the off-Post Armstrong Ranch wells. Those OU-1 wells located within the FONR, including MW-OU1-88-A and PZ-OU1-10-A1, will be abandoned in 2017 or later. This schedule will allow time to consider the revised PHA values and address any questions that may arise.

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

Preparation began for the draft OU-1 2016 rare plant survey report. No piperia were observed during the 2016 survey.

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

- DTSC confirmed the closeout activities and reporting needed (as outlined above) to complete the OU-1 closure effort.
- The well demolition plan will be added to the deliverable schedule after funding is obtained and contracting is completed.

### **Ongoing:**

- Submit draft minutes for previous BCT meeting(s)—complete through May 2016.
- Submit final minutes for previous BCT meeting(s)—complete through May 2016.

**Table 1**  
**Current OU-1 Deliverable Schedule**  
**Former Fort Ord, Marina, CA –June 2016**

<b>Deliverable Title</b>	<b>Submittal</b>	<b>Review Comments Due</b>	<b>Status/Remarks</b>
<i>Primary Deliverables</i>			
Final PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	04 March 2016	01 April 2016	Final submitted 16 March 2016
<i>Secondary Deliverables</i>			
2016 OU-1 Groundwater Monitoring Report	24 June 2016	25 July 2016	In preparation (potential early submittal).
<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

<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.