

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

OU-1 On-Post Activities for 16 February through 09 March 2017

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

Attendees: (to be revised after meeting)

Individual	Attended?	Individual	Attended?
James Specht, USACE		Jon Fenske, HEC	
Teresa Rodgers, USACE		Kimberly Gettman, 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 ¹		Steve Crane, Kemron	
Bart Kowalski, Chenega ¹		Erin Caruso, Gilbane	
Cary Stiebel, Chenega ¹		Larry Friend, Gilbane	
Tom Ghigliotto, Chenega ¹		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	
Duane Balch, USACE		Charity Meakes, USACE	
X = attended in person or by telephone; blank indicates absent from the meeting			

Notes:

¹Chenega 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 system is typically inspected monthly to maintain operability. However, this month it was inspected on 10 February, 21 February, and 27 February to ensure that the sump pump is functioning properly after heavy rains.

Reporting/Federal Facility Agreement (FFA) Schedule

The status of ongoing and anticipated reports for OU-1 is summarized in Table 1. The public comments on the draft Well Destruction Completion Report were submitted separately because they were related only to OU-1 background and events leading up to the well destruction effort. The replacement page (as discussed during the February BCT meeting) for the Final Exit Strategy Technical Memorandum (ESTM; submitted in May 2015) will be submitted this month.

OU-1 Closeout

The Army/HGL are preparing the Draft Work Plan to destroy the remaining OU-1 monitoring, extraction, and injection wells and to decommission the NWTS. Portions of the NWTS (fencing, lighting, power, and the containment basin) will be left in place for subsequent use by University of California Santa Cruz. The buried pipelines connecting the extraction and injection wells and infiltration trenches to the NWTS will be capped at their endpoints and left in place to minimize impact to the FONR habitat. The well destruction and NWTS decommissioning work is expected to be completed this summer.

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 (it has not yet been submitted). A baseline rare plant survey will be completed at the remaining well sites within the FONR habitat area before well destruction begins. Rare plant peak flowering periods could occur in early April this year given the unusually high precipitation amounts received this season. Peak flowering periods could be different for Monterey spineflower and sand gilia; Yadon's piperia will be surveyed in conjunction with both rather than in a separate effort to match their peak flowering period.

Five-Year Review

HGL staff are assisting the Army in preparing the current 5-Year Review report. It was agreed last March before the PFOA/PFOS Health Advisory (HA) was issued that OU-1 could be closed and no further Five-Year Reviews for OU-1 would be needed after the current

(2012 through 2016) Five-Year Review is completed. It was expected at that time that final well destruction and treatment plant decommissioning efforts would be completed in 2016. Because of the delay resulting from reconsideration of OU-1 closure after the HA was issued in May 2016, the final well destruction and treatment plant decommissioning efforts will be completed in 2017. No additional sampling has been performed since December 2015 and no additional groundwater monitoring data or treatment performance data will be collected during the well destruction / decommissioning effort. Furthermore, OU-1 groundwater has complied with the Record of Decision cleanup objectives since September 2014 and the regulatory agencies confirmed in February 2017 that OU-1 can proceed to closure. Consequently, the Army recommends that OU-1 be deleted from the 2017 – 2021 and subsequent Five-Year Review efforts.

Other Items:

The Community Involvement Workshop (CIW) Open House was held on 25 February and the Technical Review Committee meeting was held on 28 February.

New/Current Action Items:

- None.

Ongoing:

- Submit draft minutes for previous BCT meeting(s)—complete through February 2017.
- Submit final minutes for previous BCT meeting(s)—complete through February 2017. There was one change made to the Draft Minutes for February, as shown in red font in the following sentence: “*On 21 February 2017, EPA Region 9 informed the Army that EPA concurs that remediation is complete and closure can begin without further sampling or groundwater treatment **at this time.***” This change was made to be consistent with the wording in EPA’s letter of 21 February 2017.

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

Deliverable Title	Submittal	Review Comments Due	Status/Remarks
<i>Primary Deliverables</i>			
None Scheduled			
<i>Technical Memorandum</i>			
None Scheduled			
<i>Secondary Deliverables</i>			
Draft Work Plan FONR Well Destruction and NWTS Decommissioning	May 2017	June 2017	In progress
<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
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
Final Armstrong Ranch Well Demolition Completion Report	17 February 2017	None	Final report submitted. Response to public comment submitted separately.
Attainment Monitoring Evaluation and Summary for EPA Designated Emerging Contaminants	25 August 2016	None	Approved as submitted by EPA (21 February 2017), DTSC and RWQCB
Final Armstrong Ranch Well Demolition Completion Report	17 February 2017	None	Final report submitted. Response to public comment submitted separately.

¹ 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.