

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

OU-1 On-Post Activities for 06 October through 04 November 2016

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

Attendees: (to be revised after meeting)

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

Reporting/Federal Facility Agreement (FFA) Schedule

The status of ongoing and anticipated reports for OU-1 is summarized in Table 1. The Final Work Plan for the Armstrong Ranch well demolition was submitted on 27 October 2016. The EPA accepted the responses to their comments on the draft version in lieu of a draft final (RWQCB and DTSC accepted the draft version without comment). The report describing this work is being prepared.

OU-1 Closeout

The Army submitted a Technical Memorandum to the regulatory agencies on 25 August 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 determined their position on the Army's recommendation to close the site. The review time was extended to the January 2017 BCT meeting.

The Armstrong Ranch wells and pipeline removal was completed ahead of schedule on 26 October 2016. There were no departures from the Work Plan except that the pumps had already been removed from former extraction wells EW-OU1-92-A and EW-OU1-93-A.

OU-1 Rare Plant Monitoring

The draft report for the 2016 OU-1 Rare Plant Survey and Impact Assessment was submitted in August and is being reviewed. HGL responded to late comments received on the 2015 OU-1 Rare Plant Survey and Impact Assessment.

Five-Year Review

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

New/Current Action Items:

- The demolition completion report for the Armstrong Ranch wells and pipeline has been added to the deliverable schedule. HGL noted that the date for submitting the Draft Well Destruction Report on the deliverable schedule should be 16 December 2016 rather than 01 December.
- The next BCT meetings were set for 18 January 2017 at 1000 and 24 February 2017 at 1330 (no December meeting). Note that the January BCT meeting was subsequently rescheduled to 11 January at 1330.
- Open House will be on 25 February and TRC meeting on 28 February at 1000.

Ongoing:

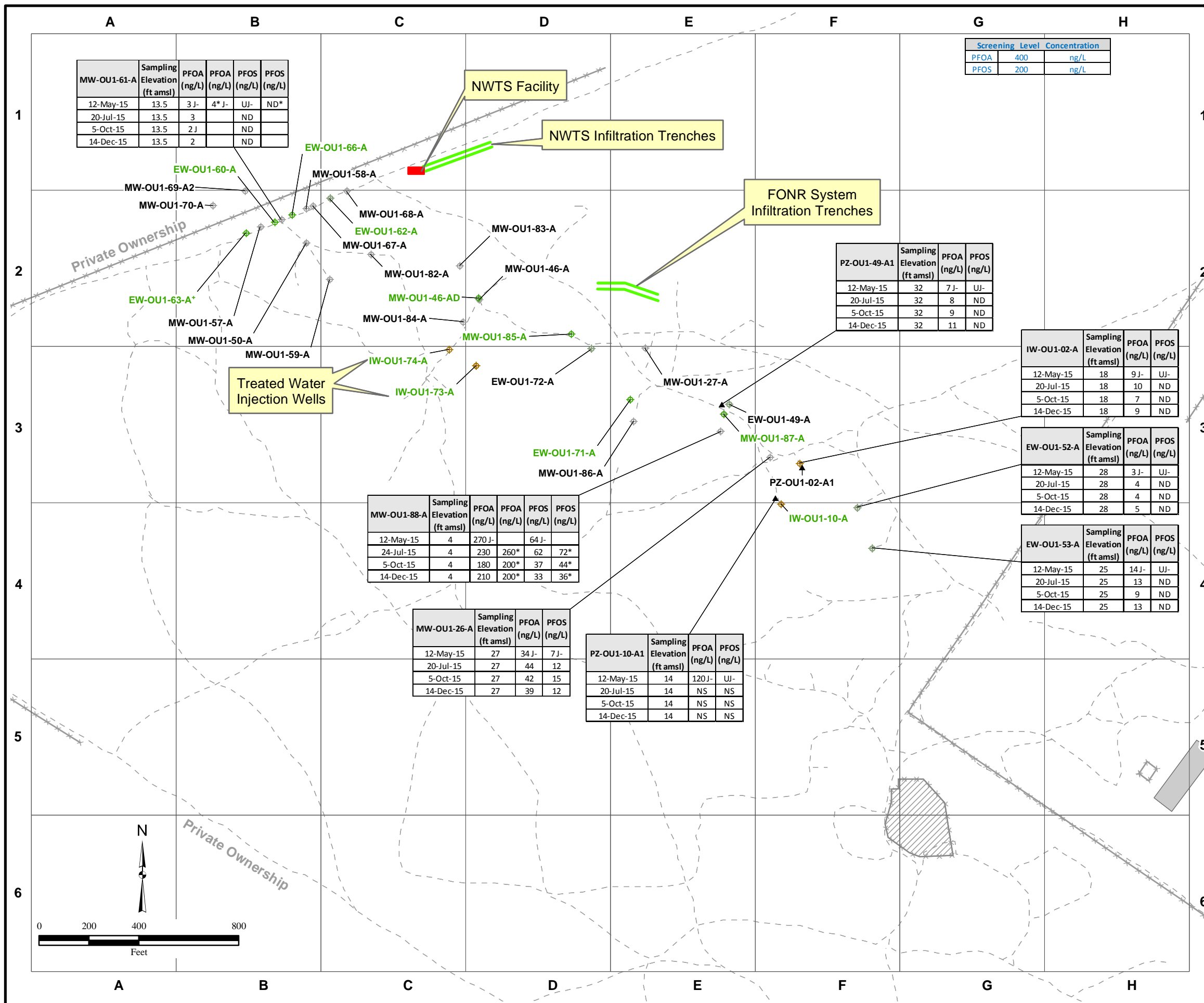
- Submit draft minutes for previous BCT meeting(s)—complete through September 2016. Awaiting EPA and DTSC comments or acceptance of draft October minutes previously submitted.
- Submit final minutes for previous BCT meeting(s)—complete through September 2016.

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

Deliverable Title	Submittal	Review Comments Due	Status/Remarks
<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>Technical Memorandum</i>			
Attainment Monitoring Evaluation and Summary for EPA Designated Emerging Contaminants	25 August 2016	08 November 2016	In EPA review
<i>Secondary Deliverables</i>			
Armstrong Ranch Well Demolition Completion Report	1 December 2016	3 January 2017	Preliminary Draft being prepared
Final 2016 OU-1 Groundwater Monitoring Report	26 August 2016	None	Comments received, addressed, and Final submitted
<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 ¹	07 August 2015	10 September 2015	Accepted without comment
Draft 2015 Annual Groundwater Monitoring Report ¹	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

¹The 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
 FONR=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

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 (10)PFOA_PFOS_Concens_Mon_Summary_Prelim.mxd
 1/8/2016 TB
 Source: HGL

