

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

OU-1 On-Post Activities for 07 July through 04 August 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		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	
Paul Fluck, USACE		Holly Dillon, Ahtna	
William Collins, BRAC		Brad Clarke, Ahtna	
Tom Ghigliotto, Chenega ¹		Thor Anderson, Burleson	
Melissa Broadston, Chenega ¹		Steve Crane, Kemron	
Bart Kowalski, Chenega ¹		Erin Caruso, Gilbane	
Cary Stiebel, Chenega ¹		Larry Friend, Gilbane	
Judy Huang, EPA		Kevin Siemann, Gilbane	
Maeve Clancy, EPA			
Martin Hausladen, EPA		Roy Evans, HGL	
Min Wu, Ph.D., DTSC		Kevin Wierengo, HGL	
Steve Sterling, DTSC		Gage Dayton, Ph.D., UCSC	
Brad Jackson, 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.

Reporting/Federal Facility Agreement (FFA) Schedule

The status of ongoing and anticipated reports for OU-1 is summarized in Table 1. The draft 2016 Annual Groundwater Monitoring Report, including the draft OU-1 Closure Plan as requested by DTSC, is being reviewed by the regulatory agencies and public. The comment period was extended to 08 August. Thus far, DTSC and RWQCB have accepted the draft submittal as final without comment.

OU-1 Closeout

The Army is developing a response to the change in the Preliminary Health Advisory (PHA) values for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) concentrations. As noted in previous meetings, two wells do not meet the revised 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.

RWQCB indicated at the last meeting that site closeout might be delayed because the new PHA advisory values are exceeded in OU-1 groundwater. The RWQCB requirements for aquifer quality are not based solely on human or environmental health risk, but are based on water resource protection. However, the PHAs are advisory values rather than promulgated standards so their significance is not precisely defined. Discussions within RWQCB to resolve that agency's position regarding closure are ongoing.

The Army will abandon/destroy the remaining OU-1 wells in phases beginning with the off-Post Armstrong Ranch wells. The Army anticipates that the Armstrong Ranch wells and pipeline will be destroyed this year. Those OU-1 wells located within the non-grassland part of the Fort Ord Natural Reserve, including those wells exceeding the revised advisory concentrations for PFOA and PFOS, 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

The preliminary draft report for the 2016 OU-1 rare plant survey and impact assessment will be submitted to the Army this month.

Five-Year Review

HGL staff met with staff from the USACE on 13 July to answer questions regarding OU-1 and assist the site inspection for the 5-Year Review report.

New/Current Action Items:

- The demolition plan for the Armstrong Ranch wells and pipeline will be added to the deliverable schedule after contracting is completed (this work is expected to be awarded in August or early September).

Ongoing:

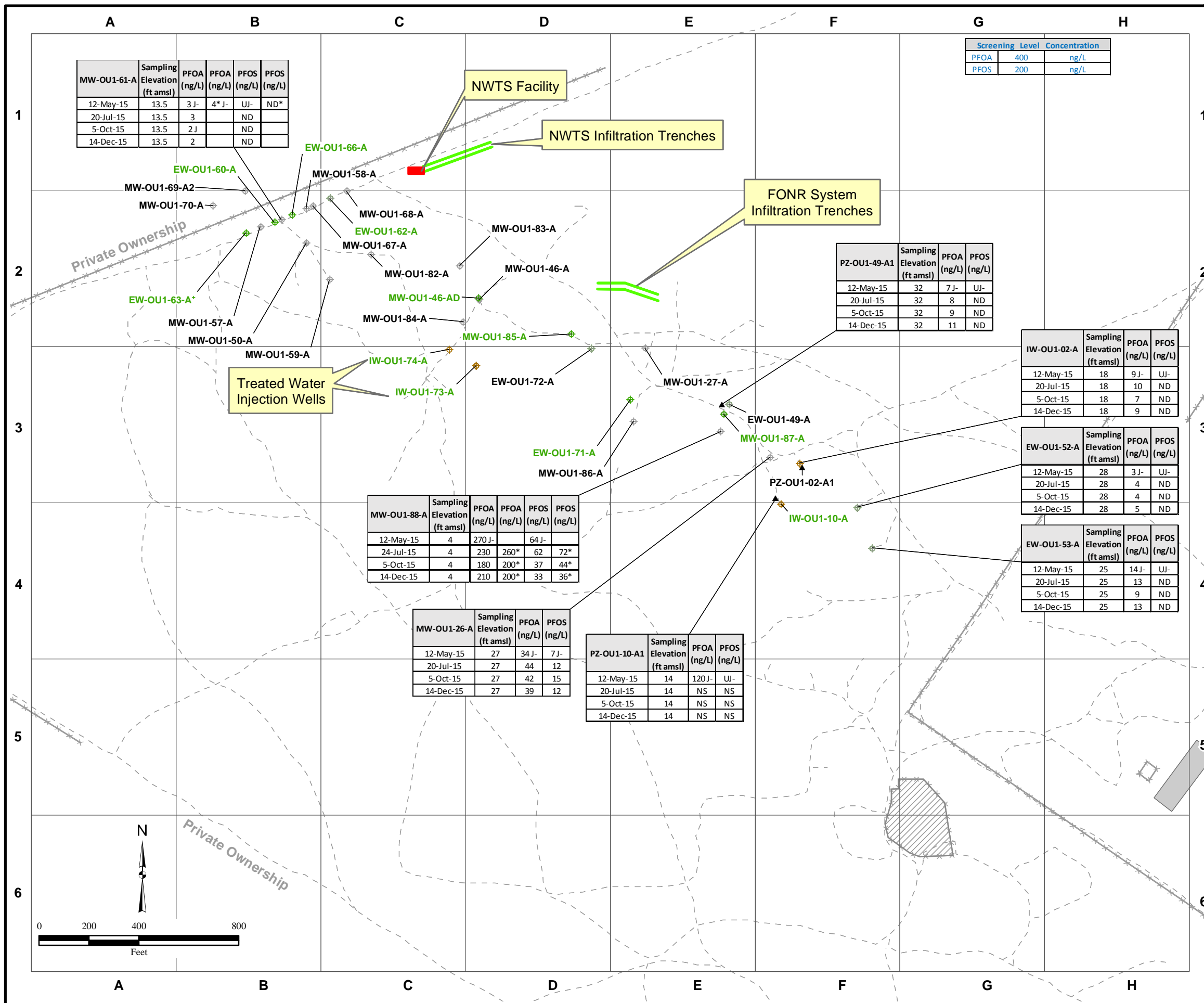
- Submit draft minutes for previous BCT meeting(s)—complete through July 2016. Thus far, DTSC and RWQCB have approved the draft minutes as submitted.
- Submit final minutes for previous BCT meeting(s)—complete through June 2016.

Table 1
Current OU-1 Deliverable Schedule
Former Fort Ord, Marina, CA –June 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>Secondary Deliverables</i>			
2016 OU-1 Groundwater Monitoring Report	22 June 2016	08 August 2016	In agency and public review
<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

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.

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

\\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

