Former Fort Ord Operable Unit (OU)-1 – Base Closure Team (BCT) Meeting Update 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?	Notes:		
James Specht, USACE		Kimberly Gettman, DTSC		¹ Chenega staff supporting the BRAC		
Teresa Rodgers, USACE		Edward Walker, DTSC		Ahtna = Ahtna Engineering Services BRAC = Base Realignment and Closure Fort		
Alex Kan, USACE		Noel Shrum, DTSC		Ord Office		
Bonnie McNeill, USACE		Grant Himebaugh, RWQCB		CB&I = Chicago Bridge & Iron, Inc. DTSC = California Department of Toxic		
Cory Koger, USACE				Substances Control		
Jonathan Whipple, USACE		Jeff Fenton, AMEC		EPA = U.S. Environmental Protection Agency		
David Eisen, USACE		Derek Lieberman, Ahtna		HGL = HydroGeoLogic, Inc. RWQCB = Regional Water Quality Control		
Paul Fluck, USACE		Holly Dillon, Ahtna		Board		
Curtis Payton, USACE		Brad Clarke, Ahtna		UCSC = University of California, Santa Cruz USACE = U.S. Army Corps of Engineers		
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				
Chris Duffey, USACE		Charity Meakes, USACE				
X = attended in person or by telephone; blank indicates absent from the meeting						

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 requested extensions and is continuing to review the document. Comments are requested by 08 November 2016.

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.

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.

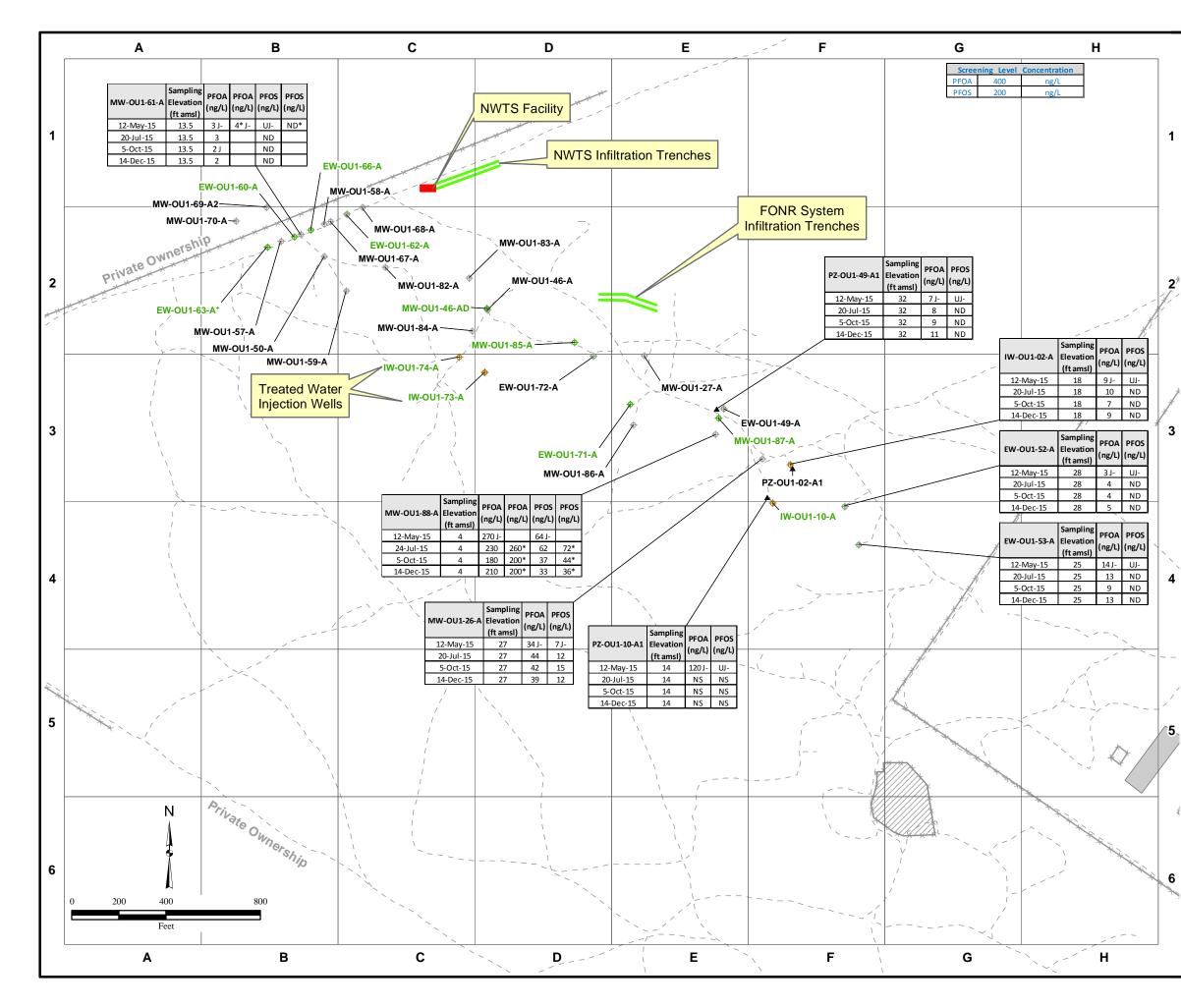
Ongoing:

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

Table 1Current OU-1 Deliverable ScheduleFormer Fort Ord, Marina, CA –November 2016

Deliverable Title	Submittal	Review Comments Due	Status/Remarks				
Primary Deliverables							
Final PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	04 March 2016	01 April 2016	Final submitted 16 March 2016				
Technical Memorandum							
Attainment Monitoring Evaluation and Summary for EPA Designated Emerging Contaminants	25 August 2016	08 November 2016	In EPA review				
Secondary Deliverables							
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				
Completed Recent Submittals							
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.



HGL—OU-1 Attainment Monitoring Events 1 Through 4 Results Summary Technical Memorandum–Former Fort Ord, CA

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

Legend Monitoring Well Extraction Well ф 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/&/2016_TB Source: HGL

